

User Name: Majid Alkhanji; Plot Data\Time: Tuesday, March 19, 2019 9:38:52 AM; Path and File Name: J:\24x12.0113_durham_region_onsite & scugog_depots\3.9_drawing\39mechanical\layouts\102-rm-10-00-01.dwg

AIR HANDLING UNITS (AHU)	
Mark No.	AHU-101
Service	Office Air conditioning
Drawing Location	02-M51-01-01
General	
Manufacturer	PMI
Model	AW-1-3-50NRP
Supply Fan	
VFD	Yes
Airflow	L/S 2,265
Exit Static Pressure	pa 239
RPM	1,232
Motor	HP 5
Exhaust/ Return Fan	
VFD	Yes
Airflow	L/S 2,265
Exit Static Pressure	pa 135
RPM	1,435
Motor	HP 5
Heating	
Fuel	Natural Gas
Input Capacity	KW 130
Max /Min Outdoor Air	L/S 2265/1133
Unit Height	mm 1,400
Unit Width	mm 3,000
Unit Length	mm 5,850
Filters	
Maximum Velocity	m/s 2.0
Efficiency	MERV 8
Heat Pipe	
Fresh Air Ent DB	°C -21.0
Fresh Air Leave WB	°C -4.0
Exhaust Air Ent DB	°C 20.0
Exhaust Air Leave WB	°C 0.0
Electrical	
Volt/Ph/Hz	575/3/60
Starter	Yes
NOTE: AF Handling Unit c/w Roof Curb	

TANKLESS DOMESTIC WATER HEATER (DWH)	
Mark No.	DWH4 - 01
Service	Safety Showers
Drawing Location	02-M21-01-01
Performance	
Fuel Type	Natural Gas
Manufacturer	A. O. Smith (Takagi)
Model	TAM50 TANKLESS (NOTE 1-3)
Dimensions	mm 640x440x30
Water Side	
Temperature Rise	°C 55
Flow	l/s 0.8
Heat Exchanger	H&S COPPER ALLOY
Model Mixing Valve	Takagi TM-RE50
Temp Remote Controller	Yes
Natural Gas	
Input	CFH 380
NG Pressure	kPa 35
Electrical	
Power	kW
Volt/Phase/Hz	120/1/60
Control Sequence	
SV VENDOR	5" TYPE BH VENT 5" PVC AIR INTAKE
NOTE: 1. Water Heaters c/w sealed combustion air kit, TM-V/C 50 vent cap and unit controller, water mixing valve and stainless steel vent. 2. Water Heater c/w wall mounting brackets and acid neutralizer	

CEILING FANS (CF)				
Mark No.	CF-101	CF-102	CF-103	CF-104
Service	Repair Bay	Repair Bay	Repair Bay	Repair Bay
Drawing Location	02-M51-01-01	02-M51-01-01	02-M51-01-01	02-M51-01-01
Performance				
Type	Variable Speed Ceiling Fan			
Capacity	l/s 9,676	9,676	9,676	9,676
RPM	310	310	310	310
Fan Diameter	mm 1422	1422	1422	1422
Manufacturer	CANARM	CANARM	CANARM	CANARM
Model	CP56	CP56	CP56	CP56
Weight	KG 8.5	8.5	8.5	8.5
Motor				
WATTA	97.0	97	97	97
RPM	310	310	310	310
Volt/Phase/Hz	120/1/60	120/1/60	120/1/60	120/1/60
Operating Controls				
BMS Start/Stop	None	None	None	None
Fire Alarm Start/Stop	None	None	None	None
Equipment Starts/stop	Manual	Manual	Manual	Manual
ELECTRICAL COORDINATION				
General Requirements				
Normal Power	Yes	Yes	Yes	Yes
Emergency Power	Yes	Yes	Yes	Yes
Disconnect provided by	Div 26	Div 26	Div 26	Div 26
NOTE: Disconnect switch and starter supplied with equipment.				

INFRARED RADIANT HEATERS (IH)		
Mark No.	IH-101	IH-102 / 103
Service	Repair Garage-1	Repair Garage-2
Drawing Location	02-M51-01-01	02-M51-01-01
Performance		
Manufacturer	Superior	Superior
Model	UA-80	UA-40
Total Heating Capacity	kW 23.4	23.4
Length	mm 12,200	3,000
Heating Section		
Fuel	Natural Gas	Natural Gas
Gas Pressure	kPa 1.25	1.25
Flue Diameter	mm 100	100
Blower Fan	Yes	Yes
Motor		
Full load	Amps 1.00	1.00
RPM		
Volt/Phase/Hz	120/1/60	120/1/60
Unfused Disconnect	Yes	Yes
CONTROLS		
Control Sequence	CS	-
Operating Controls		
BMS Start/Stop	No	No
ELECTRICAL COORDINATION		
General Requirements		
Normal Power	Yes	Yes
Emergency Power	Yes	Yes
Disconnect provided by	Manufacturer	Manufacturer
NOTE: 1. Controls by controls contractor. 2. Heater Summer/Winter switch by manufacturer.		

GRILLES AND DIFFUSERS (GD)		
Mark No.	D	E
Service	Repair Bay Supply	Repair Bay Return
Drawing Location	02-M51-01-01	02-M51-01-01
Performance		
Type	Louvered Supply	Heavy Duty Gym Grille
Material	Steel	Steel
Finish	Metal	Metal
Size	As Shown	As Shown
Opposed Blade Damper	Yes	Yes
Manufacturer	EH Price	EH Price
Model	510D	96D

AIR CONDITIONING UNITS (AC)	
Mark No.	AC-101
Service	IT ROOM
Drawing Location	02-M51-01-01
General Requirements	
Manufacturer	Mitsubishi
Model	PKA-A24NH46
Fan	
Capacity	l/s 330
Cooling	
Capacity	Ton 2
Sensible Capacity	kW 5
Total Capacity	kW 7.1
Condenser EAT (db)	°C 35
Motor / Power	
MCA	A 18
MCCP	A 30
Volt/Phase/Hz	208/1/60
Unfused Disconnect	Yes
NOTE: 1. Starter is supplied with equipment. 2. Commercial grade Condensate Pump to be supplied by Contractor	

AIR COOLED CONDENSING UNITS (ACC)	
Mark No.	ACC-101
Service	IT ROOM
Drawing Location	02-M51-01-01
Performance	
Associated Equipment	AC-101
Capacity	kW 7
Refrigerant	R410A
Ambient Air Temperature	°C 35
No. of Compressors	1
Compressor Motor Rating	HP 0.1
Manufacturer	Mitsubishi
Model	PUY-A24NH46
Motor / Power	
MCA	A 18
MCCP	A 30
Volt/Phase/Hz	208/1/60
Unfused Disconnect	Yes
NOTE: 1. Starter is supplied with equipment. 2. Condensing Unit to be equipped with ultra low ambient temperature control to -40°C. 3. Air Cooled Condensing Unit to be install above snow level. 4. Air conditioning system to be connected to Emergency power	

EXHAUST FANS (EF)			
Mark No.	EF-101	EF-102	EF-103
Service	Tailpipe Exhaust	Tailpipe Exhaust	Electrical Room
Drawing Location	02-M51-01-01	02-M51-01-01	02-M51-01-01
Performance			
Type	Centrifugal	Centrifugal	Centrifugal
Capacity	l/s 566	401	527
Total Static Pressure	Pa 1,490	1,660	75.0
RPM	3500	3500	1750
Wheel Diameter	mm 750	750	300
Manufacturer	Nederman	Nederman	Greenheck
Model	NCF3015	NCF3015	AE-12433A4
Motor			
HP	3	3	1/4
RPM	3500	3500	1750
Volt/Phase/Hz	575/3/60	575/3/60	115/160
Emergency Power	YES	YES	YES
Disconnect Switch	MANUFACTURER	MANUFACTURER	MANUFACTURER
Remark	VFD	VFD	2-Speed

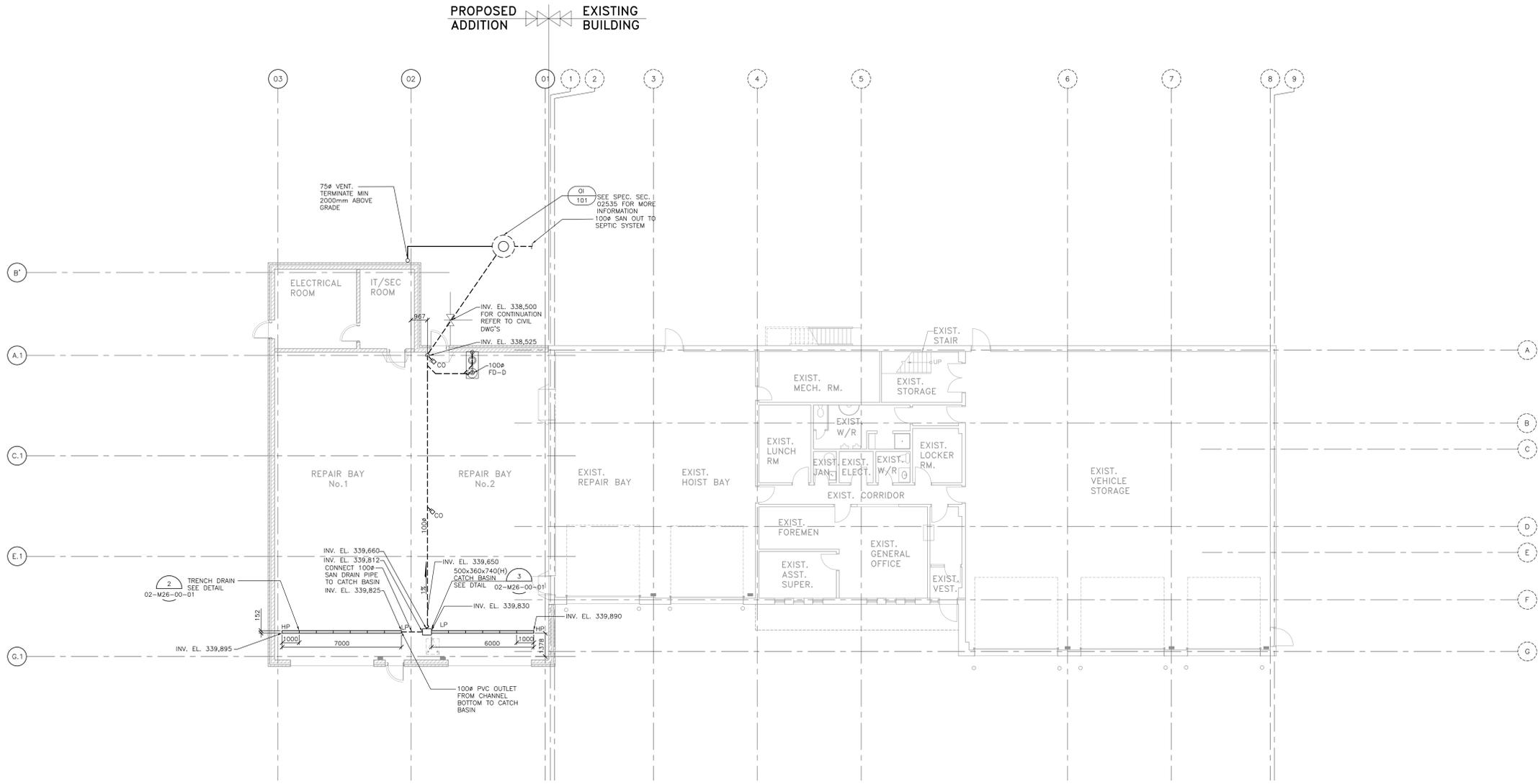
FORCED FLOW HEATERS (FFC)		
Tag No.	FFC - 101	FFC -102
Service	ELECTRICAL ROOM	IT ROOM
Drawing Location	02-M51-01-01	02-M51-01-01
Performance		
Manufacturer	Dimplex	Dimplex
Model	RFB40D21	RFB40D21
Capacity	kW 4	4
FAN HP	HP 0.25	0.25
Volt/Phase/Hz	208/1/60	208/1/60
Airflow	l/s 75	75
NOTE: 1. Heaters are wall mounted, fully recessed. 2. FFC 101 & 102 comes with 24V low voltage relay and 24V transformer kit for remote thermostat		

NOTE:
ALL EQUIPMENT TO BE CONNECTED TO EMERGENCY POWER.

DATE (mm/dd/yyyy)	ISSUED FOR	REV
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KEY PLAN		
CONSULTANTS		
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North Arrow		
		
Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI	
Project Leader M. ALIKHANI	Drawn M. ALIKHANI	
Date JAN 31 2018	Checked S. LIU	
Client THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO		
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY		
Drawing Title MECHANICAL EQUIPMENT SCHEDULES		
Check Scale (may be photo-reduced) 0 1 Inch 0 10mm		
Project No. 24RX12.0113	Drawing No. 02-M10-00-01	

RDD Contract No.
T-1038-2019

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NOTE:
 1. FOR STORM DRAINAGE REFER TO DWG. 02-M21-01-01
 2. CATCH BASIN TO BE CONNECTED TO DRAIN LINE WITH TRAP

U/G DRAINAGE FLOOR PLAN
 SCALE: 1:100
 FIN. FLOOR EL. 340.060
 (UNLESS NOTED OTHERWISE)

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PROFESSIONAL ENGINEER
 M. ALIKHANI
 100146574
 PROVINCE OF ONTARIO

North Arrow

Detail Symbol

DETAIL NUMBER
 LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU

Client
THE REGIONAL MUNICIPALITY OF DURHAM
 WORKS DEPARTMENT
 WHTEBY ONTARIO

Project
EXPAND GARAGE SCUGOG DEPOT
 10 REGIONAL RD. 21, R.R.#14, PORT PERRY

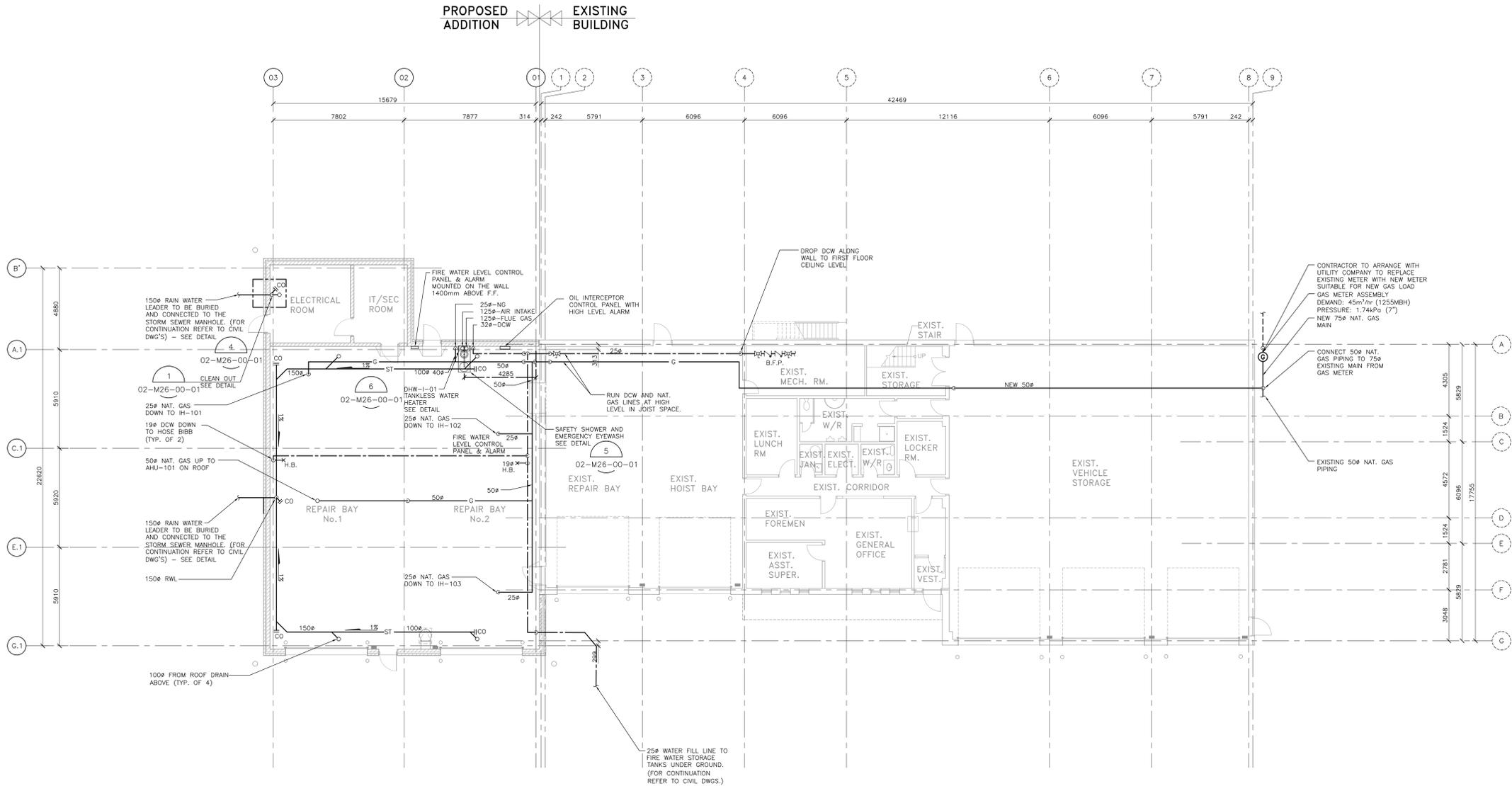
Drawing Title
MECHANICAL U/G DRAINAGE FLOOR PLAN

Check Scale (may be photo-reduced)
 0 1 Inch 0 10mm

RD0 Contract No. **T-1038-2019**

Project No. 24RX12.0113	Drawing No. 02-M21-00-01
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A/G PLUMBING & DRAINAGE FLOOR PLAN
 SCALE 1:100
 FIN. FLOOR EL. 340.060
 (UNLESS NOTED OTHERWISE)

DATE (mm/dd/yyyy)	ISSUED FOR	REV
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KEY PLAN

CONSULTANTS

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Professional Engineer
 M. ALIKHANI
 REG. NO. 104874
 PROVINCE OF ONTARIO

North Arrow

Detail Symbol

DETAIL NUMBER
 LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client	

THE REGIONAL MUNICIPALITY OF DURHAM
 WORKS DEPARTMENT
 ONTARIO

Project
EXPAND GARAGE SCUGOG DEPOT
 10 REGIONAL RD. 21, R.R.#14, PORT PERRY

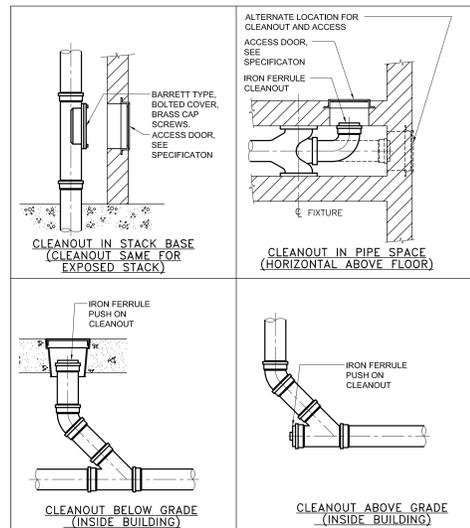
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MECHANICAL A/G PLUMBING & STORM DRAINAGE FLOOR PLAN

Check Scale (may be photo-reduced)
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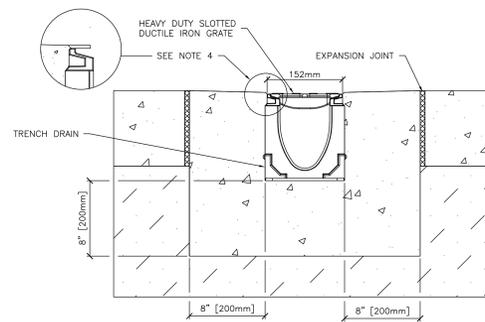
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ROD Contract No. **T-1038-2019**

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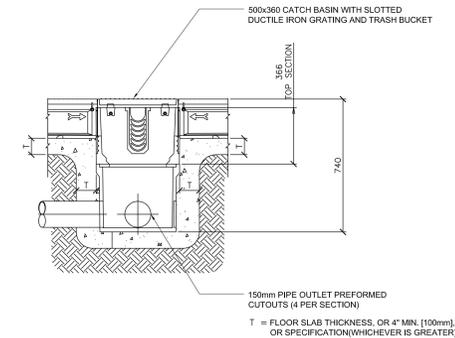


1 DRAINAGE CLEANOUT DETAIL
02-M26-00-01 N.T.S.



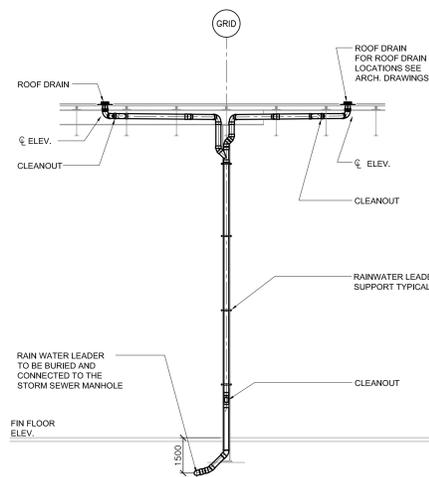
- NOTES:**
- IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
 - MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
 - EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.
 - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
 - CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS.
 - SEE STRUCTURAL SPEC. SECTION 03350-2.1.29 FOR MORE INFORMATION.

2 TRENCH DRAIN TYPICAL DETAIL
01-M26-00-01 N.T.S.

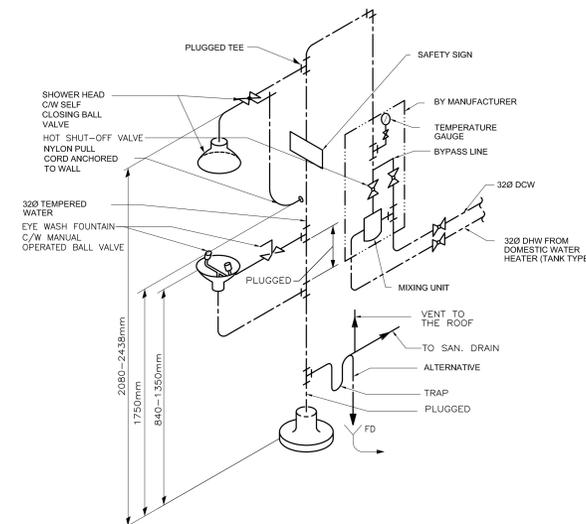


- NOTE:**
- SEE STRUCTURAL SPEC. SECTION 03350-2.1.29 FOR MORE INFORMATION.

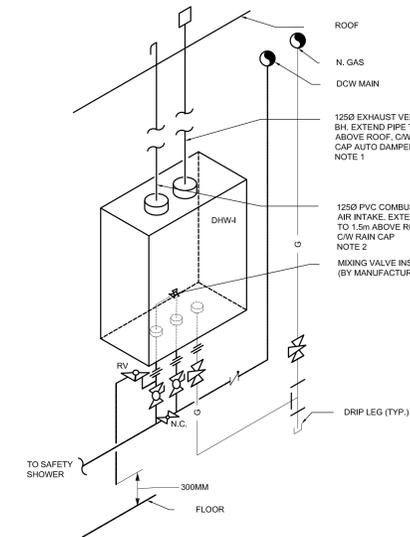
3 CATCH BASIN TYPICAL DETAIL
01-M26-00-01 N.T.S.



4 RAIN WATER LEADER TYPICAL DETAIL
02-M26-00-01 N.T.S.



5 SAFETY SHOWER WITH EYEWASH FOUNTAIN
02-M26-00-01 N.T.S.



6 INSTANTANEOUS DOMESTIC WATER HEATER
02-M26-00-01 N.T.S.

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North Arrow	Detail Symbol
	DETAIL NUMBER LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client	



Project
**EXPAND GARAGE
SCUGOG DEPOT**
10 REGIONAL RD. 21, R.R.#14, PORT PERRY

Drawing Title
**MECHANICAL
PLUMBING AND
DRAINAGE DETAILS**

Check Scale (may be photo-reduced)
0 1 Inch 0 10mm

Project No. 24RX12.0113	Drawing No. 02-M26-00-01
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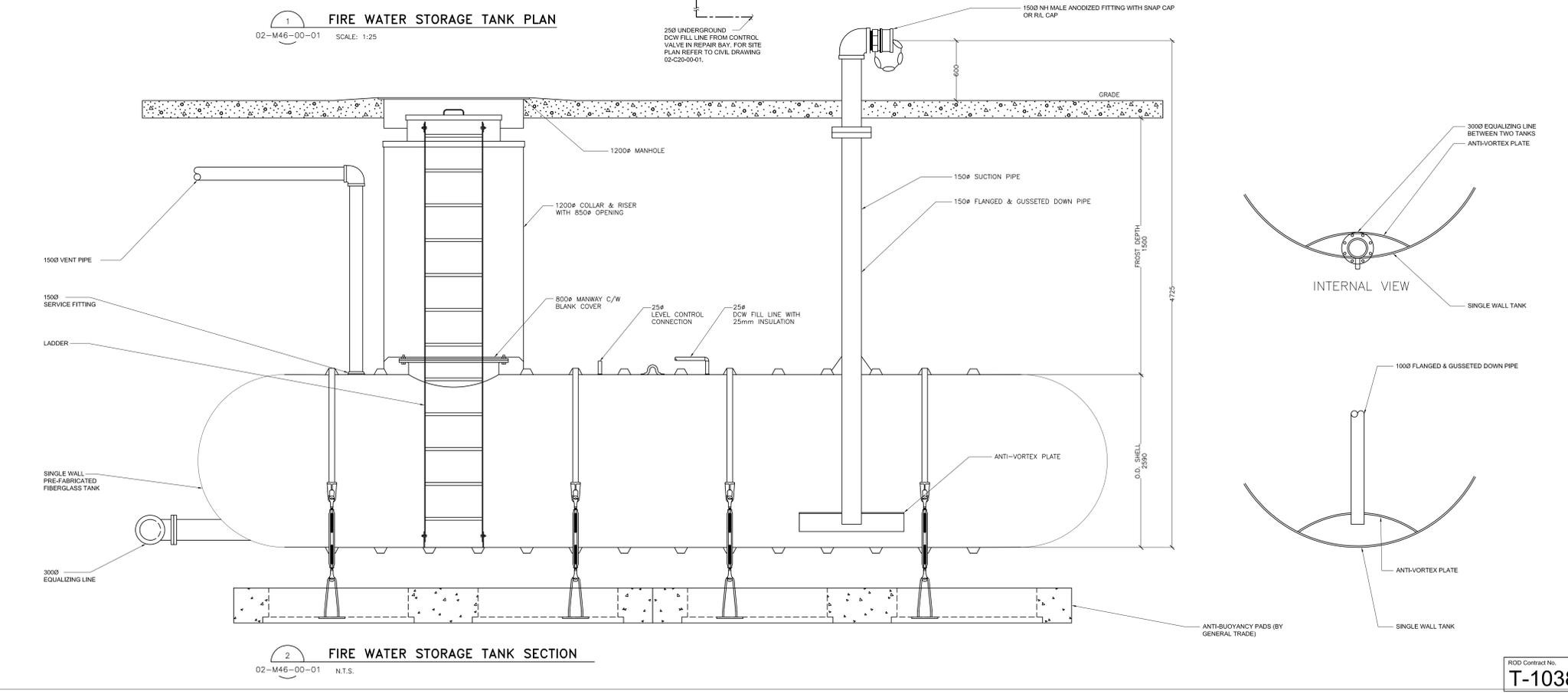
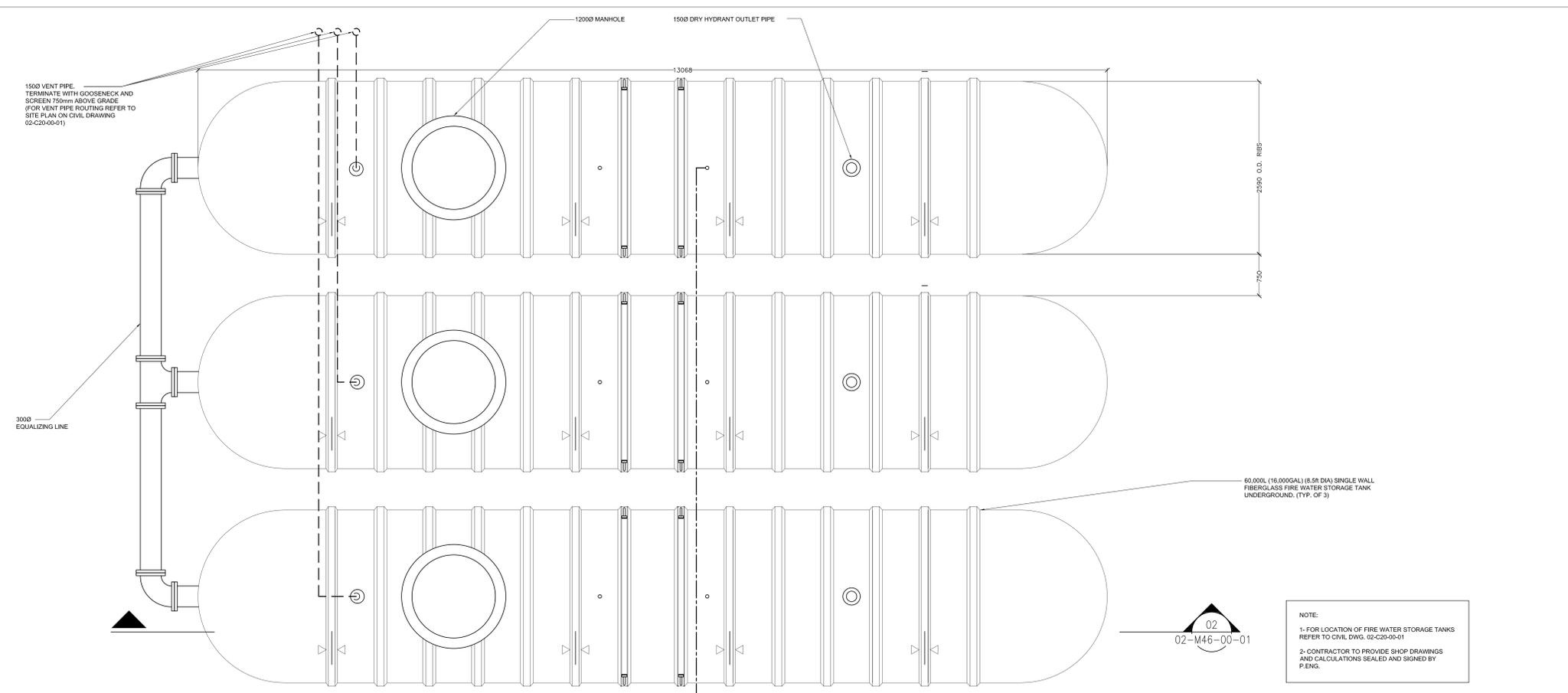
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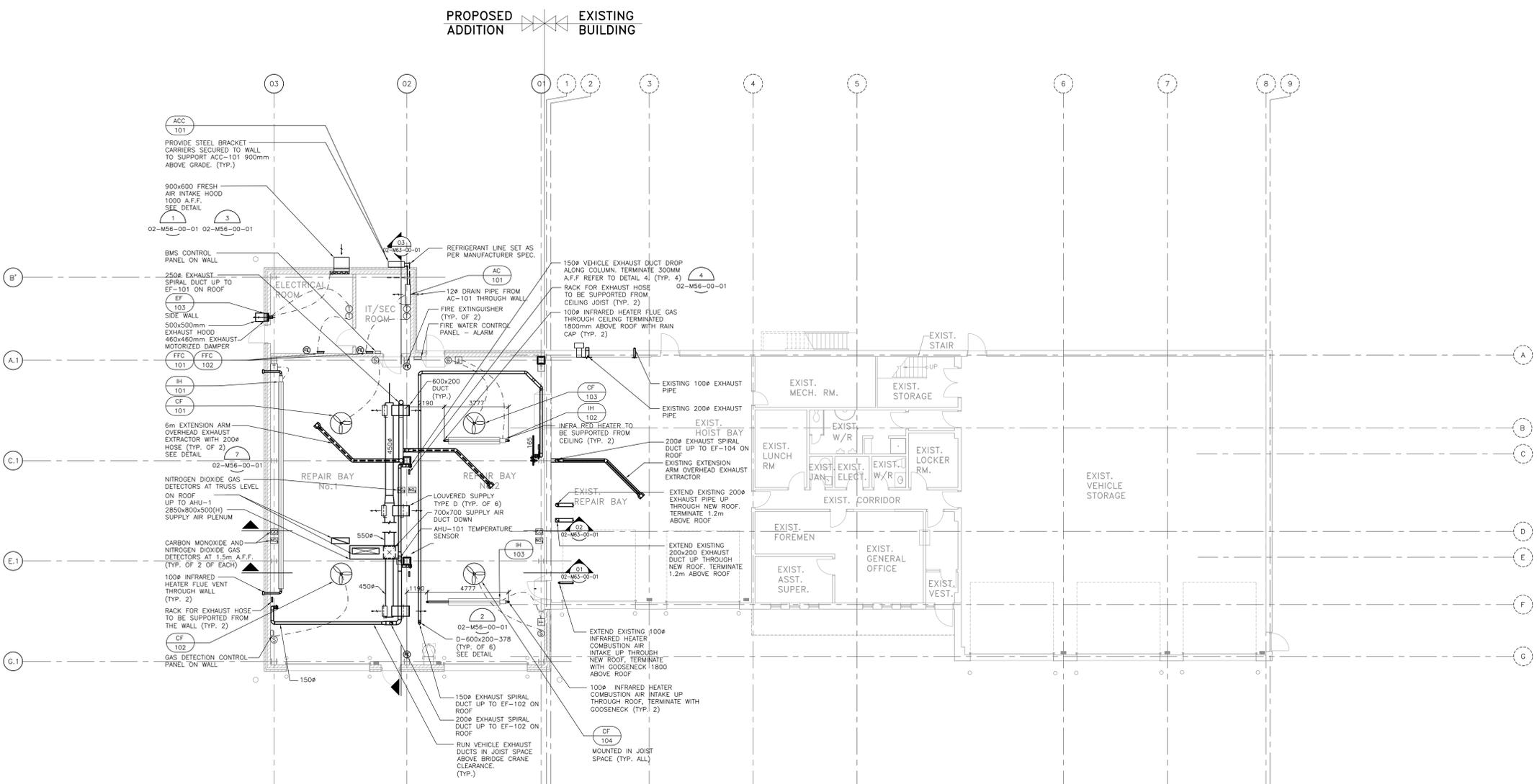
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 M. ALIKHANI 20148274 PROFESSIONAL ENGINEER PROVINCE OF ONTARIO	
North Arrow	
Detail Symbol  DETAIL NUMBER LOCATION OR DETAIL SHEET	
Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client  THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO	
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY	
Drawing Title MECHANICAL FIRE PROTECTION DETAILS	
Check Scale (may be photo-reduced) 	
Project No. 24RX12.0113	Drawing No. 02-M46-00-01



RDD Contract No.
T-1038-2019

DATE (mm/dd/yyyy)	ISSUED FOR	REV
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NOTES:
 1. PROVIDE AUXILIARY STEEL TO SUPPORT CEILING FANS IN REPAIR BAYS
 2. FOR ABOVE LEVEL SEE DWG. NO: 02-M51-03-01

HVAC & FIRE PROTECTION FLOOR PLAN
 SCALE 1:100 FIN. FLOOR EL. 340.060
 (UNLESS NOTED OTHERWISE)

KEY PLAN

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PROFESSIONAL ENGINEER
 M. ALIKHANI
 10460 SHEPPARD AVE. E. SUITE 107
 SCARBOROUGH, ONTARIO

North Arrow

Detail Symbol

DETAIL NUMBER
 LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU



**EXPAND GARAGE
 SCUGOG DEPOT**
 10 REGIONAL RD. 21, R.R.#14, PORT PERRY

Drawing Title
**MECHANICAL
 HVAC & FIRE PROTECTION
 FLOOR PLAN**

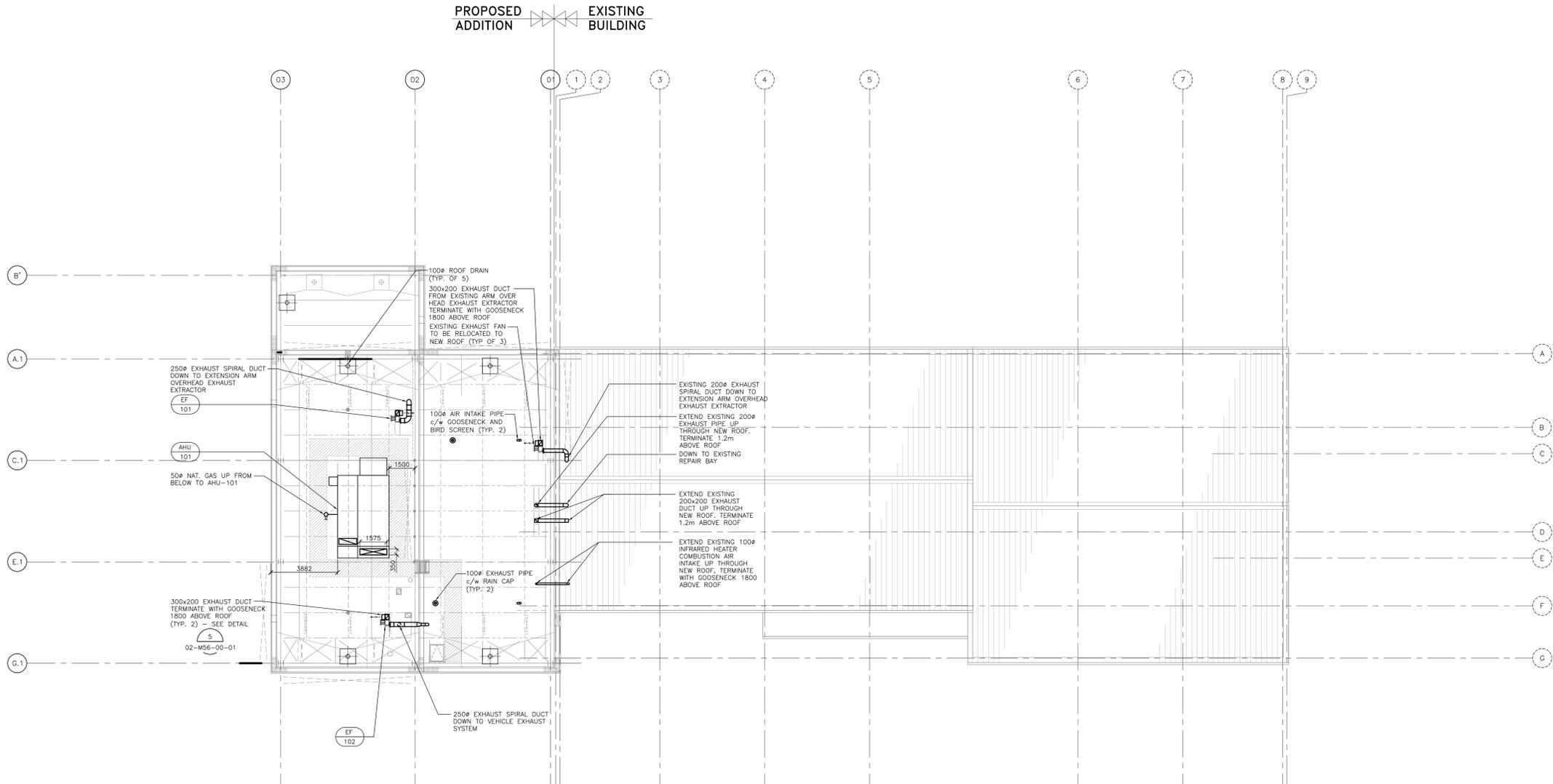


Project No. 24RX12.0113	Drawing No. 02-M51-01-01
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T-1038-2019

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NOTES:
1. FOR BELOW LEVEL SEE DWG. NO: 02-M51-01-01

N
HVAC ROOF PLAN
SCALE: 1:100

DATE (mm/dd/yyyy)	ISSUED FOR	REV
OCT 01 2018	TENDER	0
KEY PLAN		
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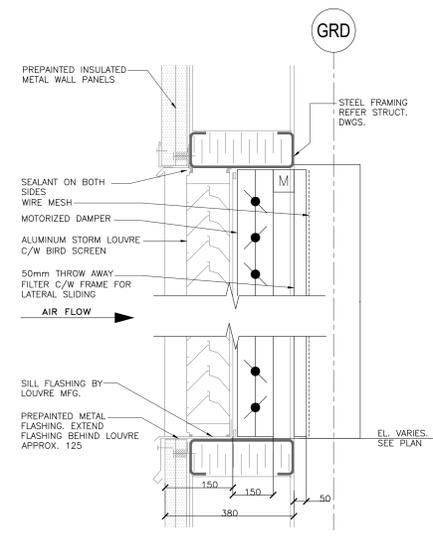
M. ALIKHANI
180148276
P.E. (M.E.C.)
PROVINCE OF ONTARIO

North Arrow
Detail Symbol
DETAIL NUMBER
LOCATION OR DETAIL SHEET

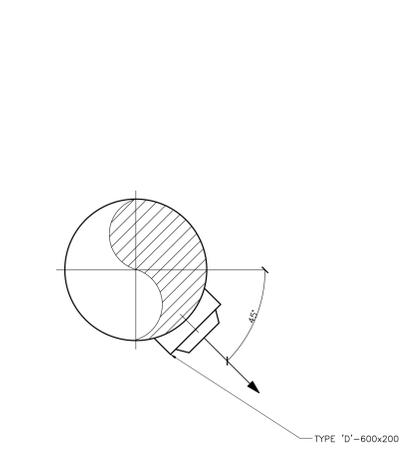
Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO	
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY	
Drawing Title MECHANICAL HVAC ROOF PLAN	
Check Scale (may be photo-reduced) 0 1 inch 0 10mm	
Project No. 24RX12.0113	Drawing No. 02-M51-03-01

RDD Contract No.
T-1038-2019

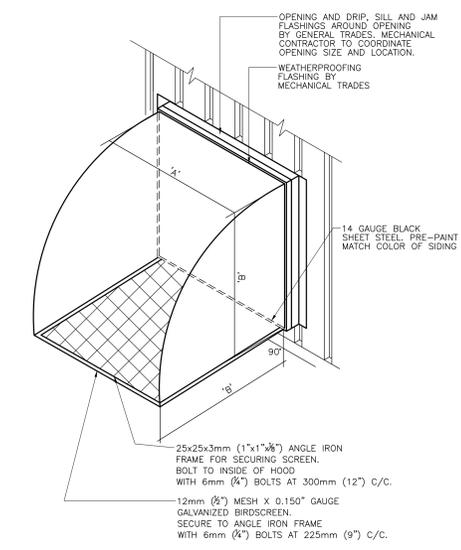
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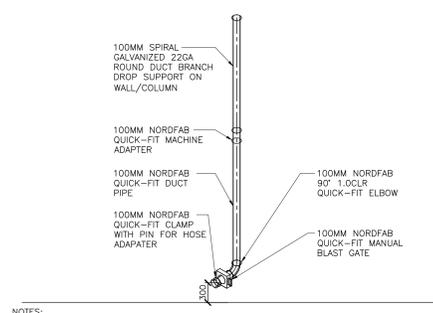
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02-M56-00-01
DETAIL
TYPICAL LOUVRE ARRANGEMENT



2
02-M56-00-01
DETAIL
GARAGE SUPPLY GRILLE

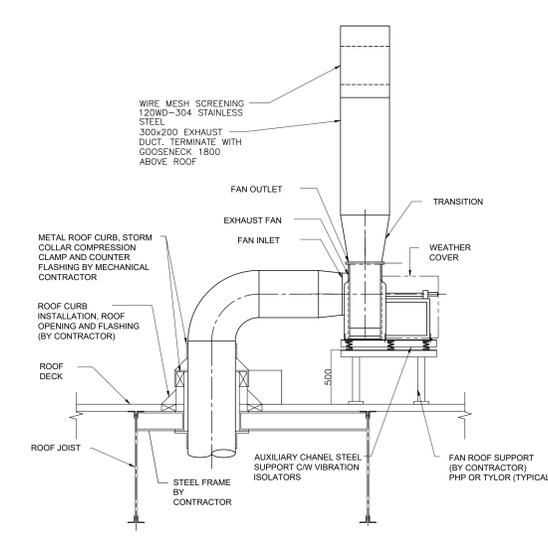


3
02-M56-00-01
DETAIL
TYPICAL FRESH AIR INTAKE WALL HOOD

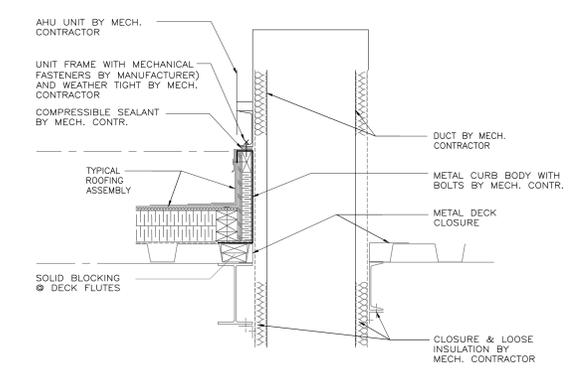


4
02-M56-00-01
DETAIL
EXHAUST AIR DROP OUTLET DETAIL

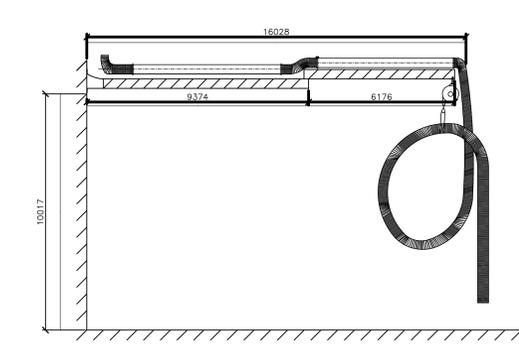
- NOTES:
- PROVIDE THE FOLLOWING FITTINGS AND ACCESSORIES FOR ABOVE GROUND LOW LEVEL VEHICLE EXHAUST CAPTURE SYSTEM:
 - (X4) MACHINE ADAPTER OF 100#
 - (X4) 90° ELBOW OF 100MM 1.0CLR
 - (X4) 100# MANUAL BLAST GATE OF
 - (X4) 100# CLAMP WITH PIN OF
 - (X2) 100# HOSE ADAPTER OF
 - (X2) 100# 5M LONG NF4 HIGH TEMP EXHAUST HOSES, SILICON COATED FABRIC WITH GALV. STEEL HELIX WITH TWO CLAMPS
 - (X2) 100# EXHAUST NOZZLE
 - (X2) 100# EXHAUST NOZZLE
 - (X4) 100# EXHAUST NOZZLE
 - (X2) 100# DUAL EXHAUST ADAPTER W/ QUICK CONNECT
 - (X4) 100# QUICK COUPLER
 - (X4) 100# BRIDGE CLAMP W/ RUBBER SLEEVES
 - (X1) 100# 2.5M LONG NF4 HIGH TEMP EXHAUST HOSE, FIELD CUT INTO 600mm LENGTHS FOR EACH NOZZLE ASSEMBLY
- CONTRACTOR TO VERIFY QUANTITIES AND FITTING WITH MANUFACTURER AND SUBMIT A SHOP DRAWING FOR ENGINEER'S REVIEW.



5
02-M56-00-01
DETAIL
VEHICLE EXHAUST SYSTEM



6
02-M56-00-01
DETAIL
ROOF CURB FOR MECH AHU UNIT



7
02-M56-00-01
DETAIL
FIXED EXHAUST EXTRACTION SYSTEM ON DOUBLE ARTICULATING BOOM

- NOTES:
- PROVIDE THE FOLLOWING FITTINGS AND ACCESSORIES FOR ABOVE GROUND HIGH LEVEL VEHICLE EXHAUST CAPTURE SYSTEM:
 - FIXED EXHAUST ON A DOUBLE ARTICULATED PIVOTING BOOM, BOOM LENGTH 6000mm SET UP FOR 200# HOSE, FOR 200# HOSE, MODEL: FEB-6-200 PLYMOVENT OR ACCEPTED EQUAL.
 - BLACK EXHAUST HOSE, 200# TEMP RESISTANCE UP TO 280°C c/w INTERNAL STEEL HELIX, MAX SPIKE TEMP 677°C, MODEL: SWF2-200-B PLYMOVENT OR ACCEPTED EQUAL.
 - RUBBER BAND 200# TO PROVIDE A COVER OVER HOSE CLAMP.
 - STAINLESS STEEL HOSE CLAMP FOR EXHAUST HOSES 200#.
 - STACKER NOZZLE 150-250 c/w ROTATING HANDLE RECEIVER, 200# HOSE CONNECTION WITH 250# LARGE END OPENING.
 - TELESCOPIC POLE HANDLE FOR STACKER NOZZLE WITH MALE FITTING RECEIVER ON STACKER NOZZLE, MODEL: TH-90 OR ACCEPTED EQUAL.
 - SPRING CLIP FOR USE WITH STACKER OR STAINLESS STEEL CONE NOZZLES, MODEL: SC-90 OR ACCEPTED EQUAL.
 - SPRING RECOIL CONSTANT FORCE BALANCER FOR 13-16kg LIFTING CAPACITY, CABLE LENGTH 4500mm WITH CAPABILITY OF LATCH & LOCK OR CONSTANT PULL, MODEL: BRC-450-16 OR ACCEPTED EQUAL.
 - MICRO SWITCH KIT FOR BRC-450 BALANCER, SINGLE THROW, DOUBLE POLE SWITCH, MODEL: BRC-SC OR ACCEPTED EQUAL.
 - RUBBER HOSE SADDLE BELT FOR 200# HOSE, INCLUDES HOSE CLAMP AND STEEL RING.
 - AUTOMATIC MOTORIZED DAMPER ASSEMBLY, 200#, 24V OPERATIONAL VOLTAGE, CONNECT TO TRANSFORMER OR THROUGH A PLYMOVENT SA-24, ES-90 OR IE-LIC CONTROL BOX, ACTIVATE WITH MSR OR BRC MICRO SWITCH, MODEL: MD-200/8" OR ACCEPTED EQUAL.
 - TRANSFORMER, 115-230 TO 24V STEP DOWN TRANSFORMER, WALL MOUNTED, MODEL: TR-24-100 OR ACCEPTED EQUAL.
 - DCV FAN CONTROLLER, 3-PHASE c/w PID REGULATOR, EMC FILTER, NEMA 12/IP55 ENCLOSURE, CE AND CUL APPROVED, MODEL: VFD-3-575 OR ACCEPTED EQUAL.
 - PRESSURE TRANSMITTER FOR 0-10" SP APPLICATIONS, MODEL: TG-2500 OR ACCEPTED EQUAL.
- PARTS NOTED ABOVE FROM "PLYMOVENT" ARE THE BASIS OF DESIGN. ANY SUBSTITUTES SHALL BE AN APPROVED EQUIVALENT. CONTRACTOR TO VERIFY QUANTITIES AND FITTING WITH MANUFACTURER AND SUBMIT A SHOP DRAWING FOR ENGINEER'S REVIEW.

KEY PLAN
CONSULTANTS

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Professional Engineer
S.J. LIU
100555710
16/05/2019
PROVINCE OF ONTARIO

North Arrow
Detail Symbol
DETAIL NUMBER
LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO	

Project
EXPAND GARAGE SCUGOG DEPOT
10 REGIONAL RD. 21, R.R.#14, PORT PERRY

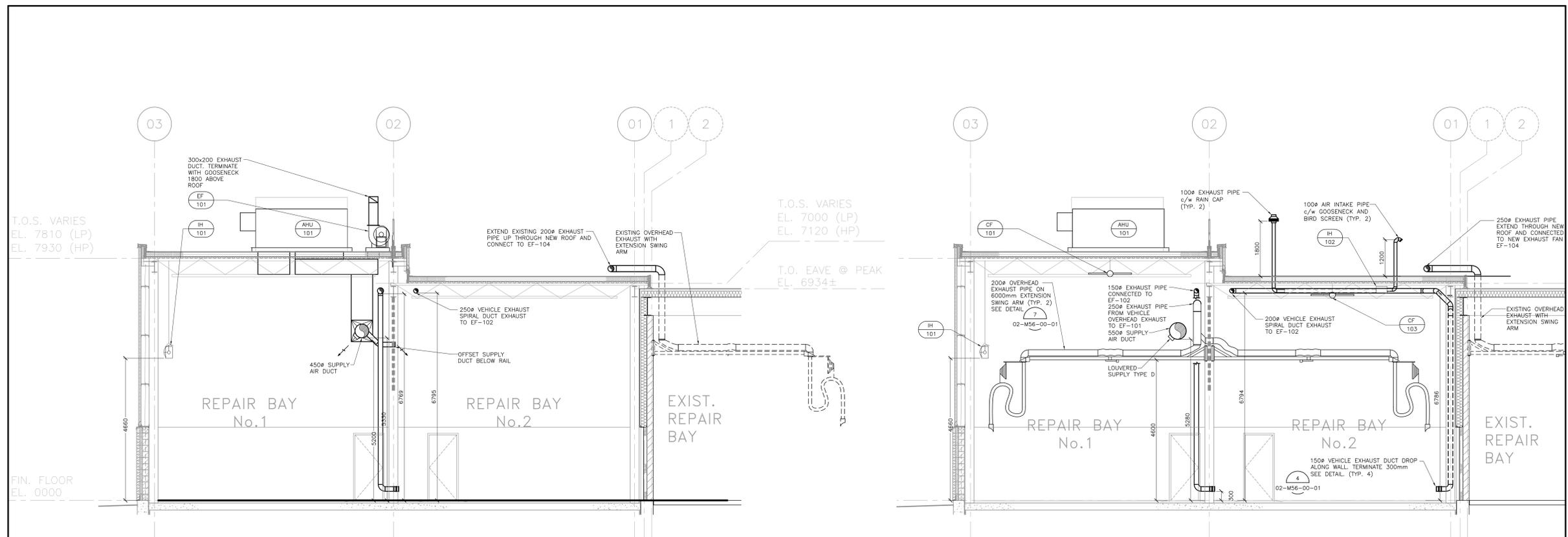
Drawing Title
MECHANICAL HVAC DETAILS

Check Scale (may be photo-reduced)	0 1 inch 0 10mm
Project No. 24RX12.0113	Drawing No. 02-M56-00-01

RDD Contract No.
T-1038-2019

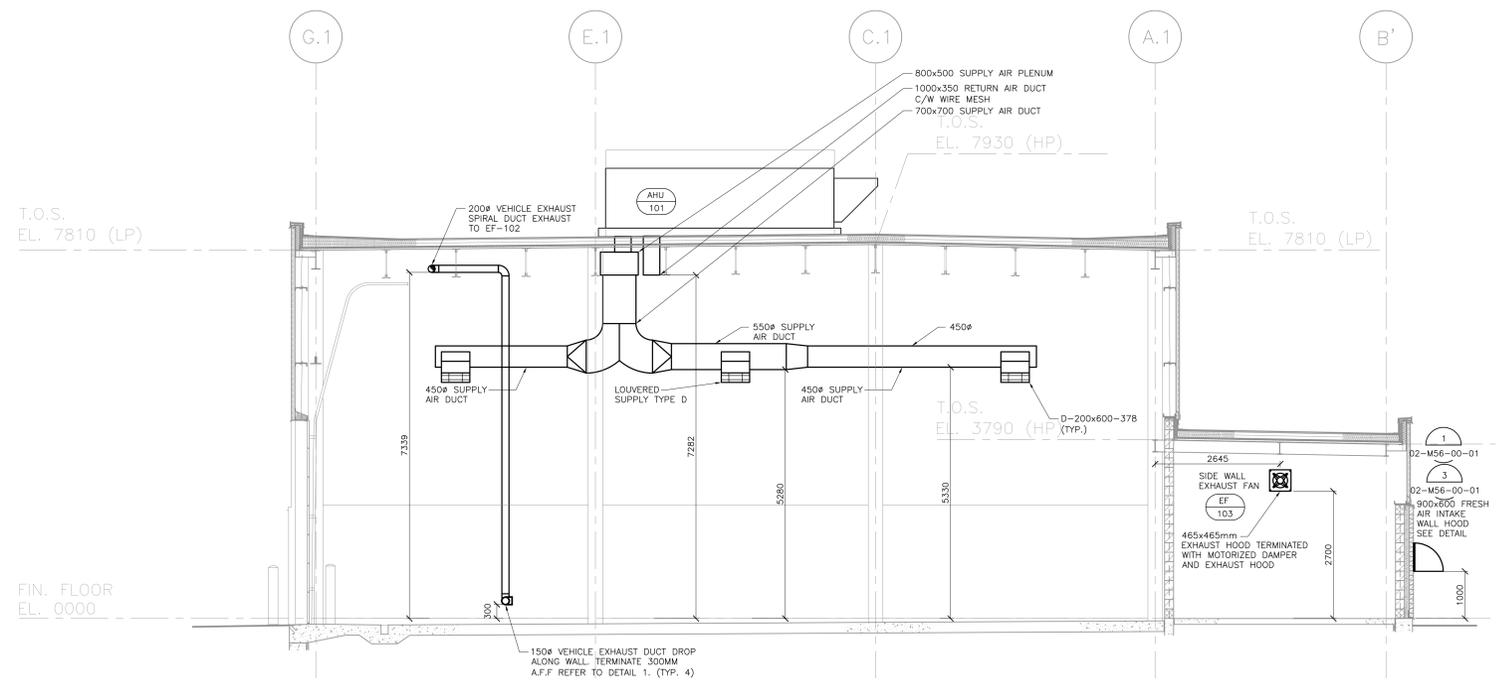
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1 REPAIR BAY SECTION
02-M51-01-01 SCALE 1:50

2 REPAIR BAY SECTION
02-M51-01-01 SCALE 1:50



3 REPAIR BAY SECTION
02-M51-01-01 SCALE 1:50

DATE (mm/dd/yyyy)	ISSUED FOR	REV
OCT 01 2018	TENDER	0
KEY PLAN		
CONSULTANTS		

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Professional Engineer
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PROVINCE OF ONTARIO

North Arrow

Detail Symbol

DETAIL NUMBER
LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU

THE REGIONAL MUNICIPALITY OF DURHAM
WORKS DEPARTMENT ONTARIO

Project
EXPAND GARAGE SCUGOG DEPOT
10 REGIONAL RD. 21, R.R.#14, PORT PERRY

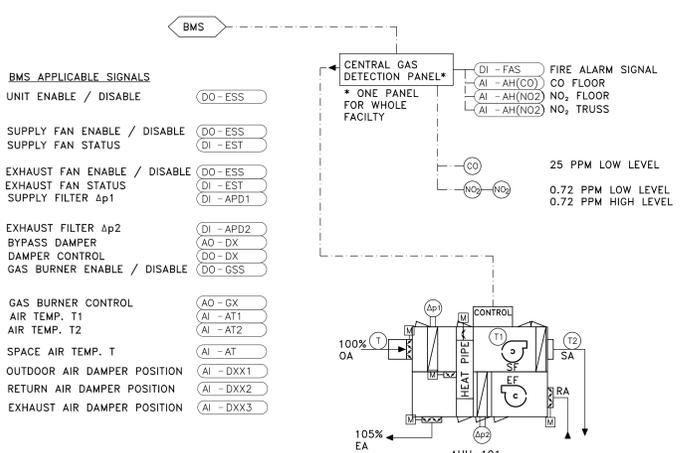
Drawing Title
MECHANICAL HVAC SECTIONS



Check Scale (may be photo-reduced)	0 1 inch 10mm
Project No. 24RX12.0113	Drawing No. 02-M63-00-01

RDD Contract No.
T-1038-2019

DATE (mm/dd/yyyy)	ISSUED FOR	REV
MAY 15 2018	TENDER	0
KEY PLAN		
CONSULTANTS		
 IBI GROUP 100-175 Galaxay Boulevard Toronto ON M9W 0C9 Canada Tel: 416 679 1830 Fax: 416 675 4620 ibigroup.com		
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 S. LIU 100081070 16/05/2018 PROVINCE OF ONTARIO		
North Arrow	Detail Symbol	
		
Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI	
Project Leader M. ALIKHANI	Drawn M. ALIKHANI	
Date JAN 31 2018	Checked S. LIU	
Client  THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO		
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY		
Drawing Title MECHANICAL CONTROLS SCHEMATICS		
Check Scale (may be photo-reduced) 0 1 Inch 0 10mm		
Project No. 24RX12.0113	Drawing No. 02-M74-00-01	

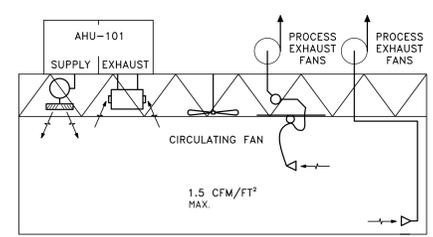


- CONTROL NOTES**
- AHU CONTROLLED BY BMS (BUILDING MANAGEMENT SYSTEM) AND OPERATOR. ALL POINTS WILL BE PROVIDED ON GRAPHICS AT BMS.
 - ALL ANALOG INPUT AHU POINTS WILL HAVE ASSOCIATED HIGH AND LOW ALARM.
 - EACH ANALOG OUTPUT POINT WILL HAVE AN ASSOCIATED SET POINT.
 - ONE (T) TEMPERATURE SENSOR, CONTROLS AHU. ALL SET VALUES ARE FIELD ADJUSTABLE.
 - ONE (CO) DETECTOR AT +1.2M A.F.F. MONITORS CARBON MONOXIDE LEVEL AT 25 PPM, MAXIMUM LEVEL (ADJUSTABLE).
 - A PAIR OF (NO) DETECTOR CONTROLS, AT TWO HEIGHTS: +1.4M A.F.F. AND TRUSS LEVEL, NO₂ TO MAXIMUM 3PPM, MAX. LEVEL, MAINTAINING AHU IN OPERATION.
 - BMS (DDC) CONTROLLERS CONTROL UNITS ACCORDING TO OCCUPIED/UNOCCUPIED MODE (IN OCCUPIED MODE UNITS ARE ON ACCORDING TO ITS SEQUENCE OF OPERATION). BALANCE THE UNIT TO MAINTAIN 3% NEGATIVE PRESSURE INSIDE AS SPECIFIED.
 - IN HIGH LEVEL GAS ALARM, INDEPENDENT OF ITS STATUS, AHU WILL BE ACTIVATED
 - BALANCING DAMPER ON COMMON SUPPLY HEADERS TO BE OPENED ONLY ONE OF THE JOINT AHUS OPERATES.

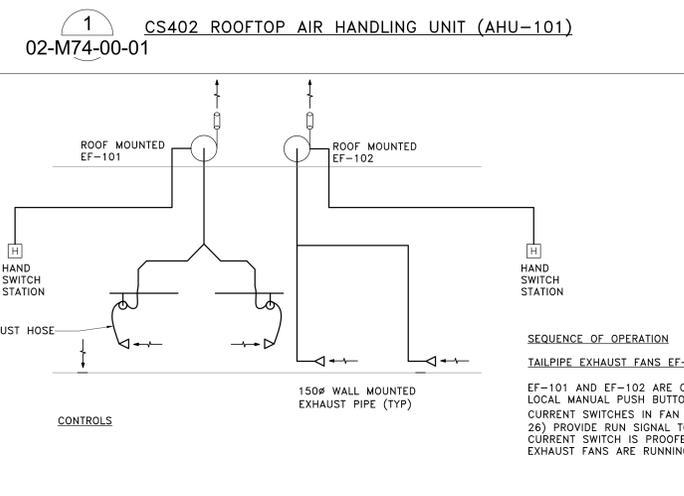
NOTE: LIMITS INDICATED ARE AS PER VALUES INDICATED BY SENTENCE # 6.2.2.3.7. FROM OBC LATEST EDITION & EH40/2005 WORKPLACE EXPOSURE LIMITS, OSHA STANDARD 29 CFR 1910.1000 TABLES Z-1, Z-2 FOR TWA (TIME WEIGHTED AVERAGE) OF 8 HOURS AND 40 HOURS WORKWEEK.

- SEQUENCE OF OPERATION**
- AHU-101**
- 1.0 GENERAL**
- AHU-01 IS A VARIABLE VOLUME SYSTEM, 100% OUTSIDE AIR AND 100% EXHAUST AIR, UNIT WITH SUPPLY FAN, EXHAUST FAN, HEAT PIPE, FILTER, DIRECT GAS FIRED BURNER, VFD ON SUPPLY AND RETURN AIR FANS AND STANDALONE CONTROLLER. EXTERNAL TAIL PIPE EXHAUST FANS EF-101 AND EF-102 WORKS IN CONJUNCTION WITH AHU-101.
- 2.0 MODE CONTROL**
1. SUMMER AND WINTER MODE CONTROL IS DETERMINED BY THE OUTSIDE AIR TEMPERATURE.
 SUMMER - OA > 18° C (65° F), WINTER - OA ≤ 18° C (65° F)
 2. THE BAS AUTOMATICALLY INITIATE THE OCCUPIED AND UN-OCCUPIED MODES ACCORDING TO ITS PROGRAMMED SCHEDULE.
- 3.0 OCCUPIED MODE AND UN-OCCUPIED MODE**
1. AHU STARTS IN OCCUPIED MODE AND STOPS IN UN-OCCUPIED MODE
 2. SIGNAL FROM GAS DETECTION SYSTEM STARTS AHU AT FULL SPEED (2265 L/S SUPPLY AND 2380 L/S EXHAUST) WHEN CO AND NO₂ LEVEL EXCEED HIGH LIMIT IN REPAIR GARAGES.
- 4.0 SUMMER, OCCUPIED MODE**
- THE MINIMUM OUTSIDE AIR DAMPER OPENS, EXHAUST AIR DAMPER OPENS, WHEN THE END SWITCH PROP THE DAMPERS OPEN, SUPPLY FAN AND EXHAUST FAN ARE ENERGIZED AND RUN CONTINUOUSLY. GAS BURNER IS DE-ENERGIZED
 WHEN BOTH EXHAUST FANS EF-101 AND EF-102 ARE OFF, VFD OF SUPPLY FAN RUNS AT FULL SPEED TO PROVIDE 2265 L/S (4800 CFM), VFD OF RETURN FAN RUNS AT FULL SPEED TO PROVIDE 2380 L/S (5040 CFM), BURNER IS OFF
 WHEN EITHER OR BOTH EXHAUST FANS EF-05 AND 06 ARE STARTED, VFD OF SUPPLY FAN REMAINS AT FULL SPEED 2265 L/S (4800 CFM), VFD OF RETURN FAN REDUCE FAN SPEED TO PROVIDE 1910 L/S (4040 CFM), BURNER IS OFF
- 5.0 WINTER, OCCUPIED MODE**
- OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER OPEN, WHEN THE DAMPERS ARE FULLY OPEN AS PROP THROUGH THE END SWITCHES, THE SUPPLY FAN AND EXHAUST FAN ARE ALLOWED TO START.
 WHEN BOTH EXHAUST FANS EF-101 AND EF-102 ARE OFF, VFD OF SUPPLY FAN RUNS AT REDUCED SPEED TO PROVIDE 1135 L/S (2400 CFM), VFD OF RETURN RUNS AT REDUCED SPEED TO PROVIDE 1190 L/S (2520 CFM), BURNER MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 18° C (65° F) AND RESET WITH SPACE TEMPERATURE SENSOR TO MAINTAIN SPACE TEMPERATURE OF 20° C (68° F).
 WHEN EITHER OR BOTH EXHAUST FANS EF-101 AND EF-102 ARE STARTED, VFD OF SUPPLY FAN RUNS TO PROVIDE 1135 L/S (2400 CFM), VFD OF RETURN FAN RUNS AT REDUCED SPEED TO PROVIDE 717 L/S (1520 CFM), BURNER MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 18° C (65° F) AND RESET WITH SPACE TEMPERATURE SENSOR TO MAINTAIN SPACE TEMPERATURE OF 20° C (68° F).

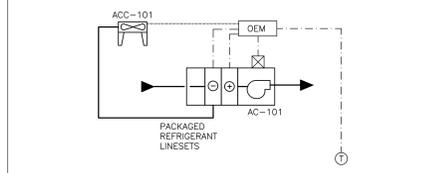
- 6.0 HEAT PIPE OPERATION**
- HEAT PIPE OPERATION BASED ON SUMMER AND WINTER MODE. IN WINTER MODE, THE TILT ANGLE OF THE HEAT PIPE VARIED TO PRE-HEAT THE SUPPLY AIR, AND PREVENT THE EXHAUST SIDE OF THE HEAT PIPE FROM FREEZING, THE BAS CONTROLS THE HEAT PIPE TILT ANGLE TO LIMIT HEAT TRANSFER AND KEEP THE EXHAUST AIR ABOVE THE FROST THRESHOLD. IN SUMMER MODE, THE TILT ANGLE IS VARIED TO PRE-COOL THE SUPPLY AIR.
- 7.0 SAFETIES:**
- THE SUPPLY FAN AND BURNER IS DISABLED WHEN LOSS OF FAN AIR FLOW.
 - THE BURNER IS DISABLED WITHOUT PROOF OF AIRFLOW AS PROVEN BY THE BURNER PRESSURE DIFFERENTIAL SWITCH.
 - DISCHARGE SENSOR PREVENTS THE BURNER DISCHARGE TEMPERATURE FROM EXCEEDING 39° C
 - SIGNAL FROM FIRE ALARM SYSTEM STOPS THE UNIT IN FIRE CONDITION BY BAS SYSTEM.
 - HIGH TEMPERATURE SENSOR STOPS THE FAN SYSTEM AND ALARM AT BAS WHEN THE LIMIT SETTING IS EXCEEDED.
- 8.0 HEAT RECOVERY UNIT STOP:**
- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER CLOSE.
 - SUPPLY AND EXHAUST FANS STOP.
 - THE GAS BURNER ASSEMBLY IS DE-ENERGIZED.
- 9.0 HARDWIRE CONTACTS OF EF-101 AND EF-102 TO AHU-101 CONTROLLER.**



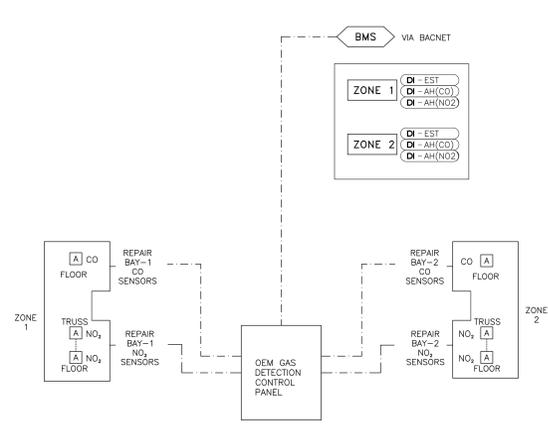
AIR DISTRIBUTION SCHEMATIC



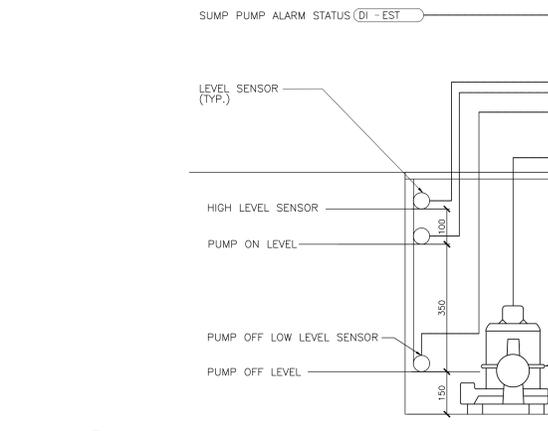
- SEQUENCE OF OPERATION**
- TAILPIPE EXHAUST FANS EF-101 AND EF-102**
- EF-101 AND EF-102 ARE CONTROLLED BY LOCAL MANUAL PUSH BUTTON.
 26) PROVIDE RUN SIGNAL TO AHU-101 WHEN CURRENT SWITCH IS PROOFED EITHER OR BOTH EXHAUST FANS ARE RUNNING



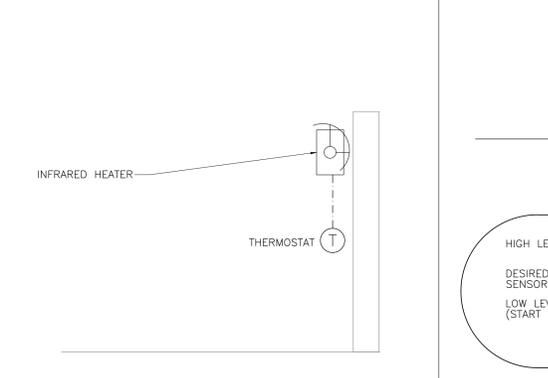
- SEQUENCE OF OPERATION**
- AC-101 - SPLIT A/C UNITS**
- AC-101 CONTROLS WITH LOCAL THERMOSTAT TO MAINTAIN SPACE TEMPERATURE OF 21° C (70° F) IN THE WINTER AND 22° C (72° F) IN THE SUMMER



4 CS857 GAS DETECTION SYSTEM 02-M74-00-01

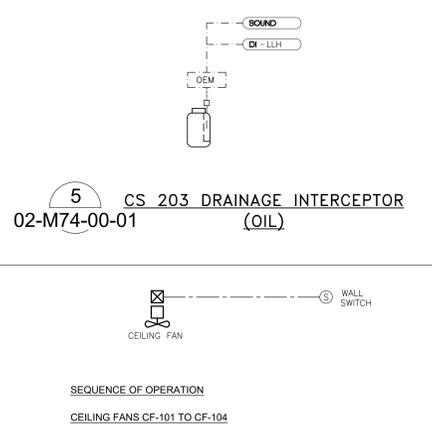


6 SUMP PUMP CONTROL SCHEMATIC 02-M74-00-01

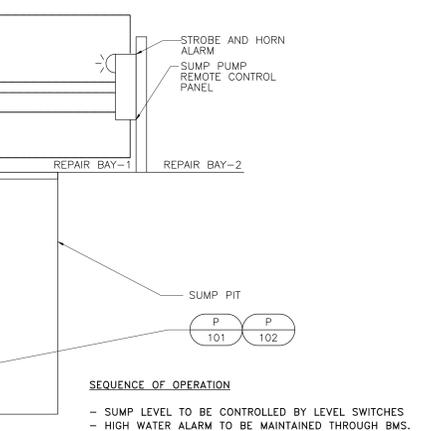


- CONTROL SEQUENCE**
- INFRARED HEATERS IH-101 AND IH-102
 INFRARED HEATERS CONTROLS WITH LOCAL THERMOSTAT TO MAINTAIN SPACE TEMPERATURE OF 20° C (68° F).

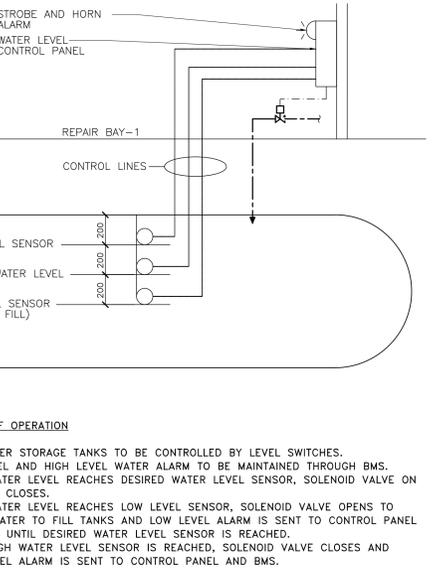
7 INFRARED HEATER CONTROLS 02-M74-00-02



5 CS203 DRAINAGE INTERCEPTOR (OIL) 02-M74-00-01



5 CS811 CEILING FAN 02-M74-00-01



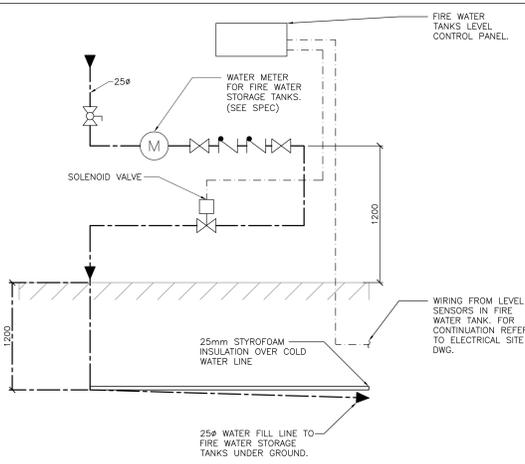
8 FIRE WATER STORAGE TANK CONTROL SCHEMATIC 02-M74-00-02

- SEQUENCE OF OPERATION**
- FIRE WATER STORAGE TANKS TO BE CONTROLLED BY LEVEL SWITCHES.
 - LOW LEVEL AND HIGH LEVEL WATER ALARM TO BE MAINTAINED THROUGH BMS.
 - WHEN WATER LEVEL REACHES DESIRED WATER LEVEL SENSOR, SOLENOID VALVE ON FILL LINE CLOSES.
 - WHEN WATER LEVEL REACHES LOW LEVEL SENSOR, SOLENOID VALVE OPENS TO ALLOW WATER TO FILL TANKS AND LOW LEVEL ALARM IS SENT TO CONTROL PANEL AND BMS UNTIL DESIRED WATER LEVEL SENSOR IS REACHED.
 - WHEN HIGH WATER LEVEL SENSOR IS REACHED, SOLENOID VALVE CLOSES AND HIGH LEVEL ALARM IS SENT TO CONTROL PANEL AND BMS.

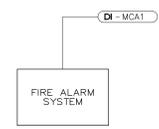
ROD Contract No.
T-1038-2019

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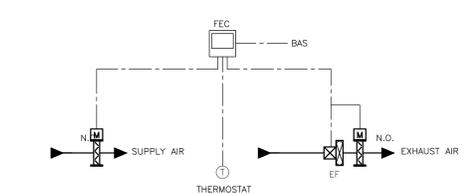


9 FIRE WATER FILL CONTROL VALVE DETAIL
01-M74-01-01

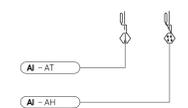


10 FIRE ALARM INTERFACE
01-M74-01-01

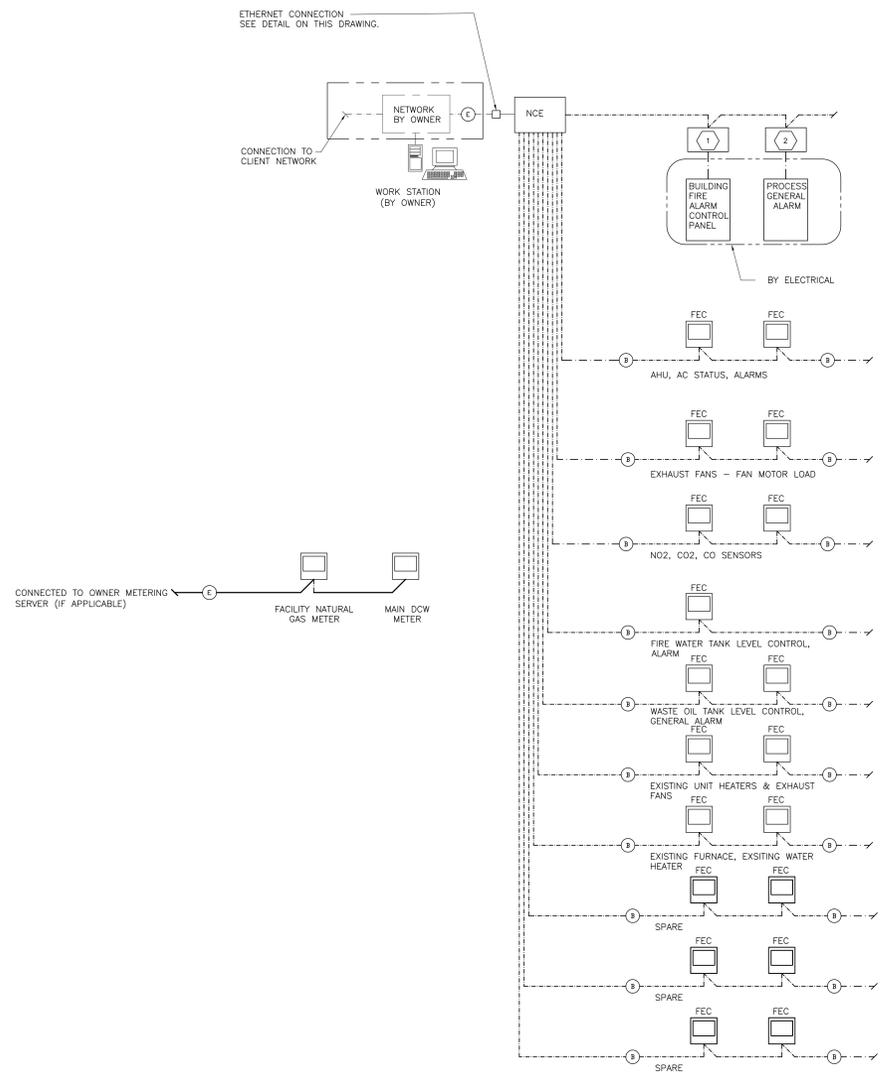
NOTES:
1. PROVIDE HARD WIRE TO FIRE ALARM PANEL LOCATED AT MAIN BUILDING ENTRANCE.



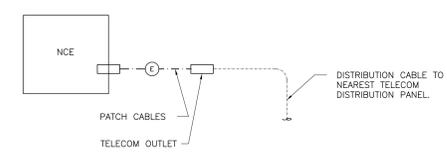
11 CS803 TYPICAL SERVICE ROOM VENTILATION (ELEC. RM)
01-M74-01-01



12 OUTDOOR AIR CONDITIONS
01-M74-01-01



13 B.M.S. ARCHITECTURE
01-M74-00-02



B.M.S. ETHERNET CONNECTION

- LEGEND:**
- BUILDING CONTROLLER UNIT
 - FIELD EQUIPMENT CONTROLLER
 - NETWORK CONTROL ENGINE
 - FUTURE BCU
 - FUTURE FEC
 - ETHERNET CABLING (DIV. 27)
 - ETHERNET CONNECTION
 - BACNET NETWORK (DIV. 25)
 - CONTROL WIRING

- GENERAL NOTES:**
- FOR GENERAL SYSTEM ARCHITECTURE INTENT ONLY. DEVELOPMENT OF SYSTEM ARCHITECTURE, INCLUDING QUANTITY AND TYPE OF DEVICES BY CONTROLS CONTRACTOR.
 - NOT ALL ECU UNITS ARE SHOWN FOR CLARITY. THIS DRAWING TO BE DEVELOPED AND COMPLETED BY THE CONTROLS CONTRACTOR AS PART OF THE SHOP DRAWING SUBMISSION AND RECORD DRAWINGS. OBTAIN A COPY OF THE AUTOCAD FILE FROM THE CONSULTANT AT THE START OF THE PROJECT.
 - REFER TO SPECIFICATIONS FOR ALL CONTROL SEQUENCES.
 - CONTRACTOR SHALL PROVIDE NECESSARY CONTROL PROTOCOL CONVERTERS FOR SEAMLESS COMMUNICATION INTERFACES

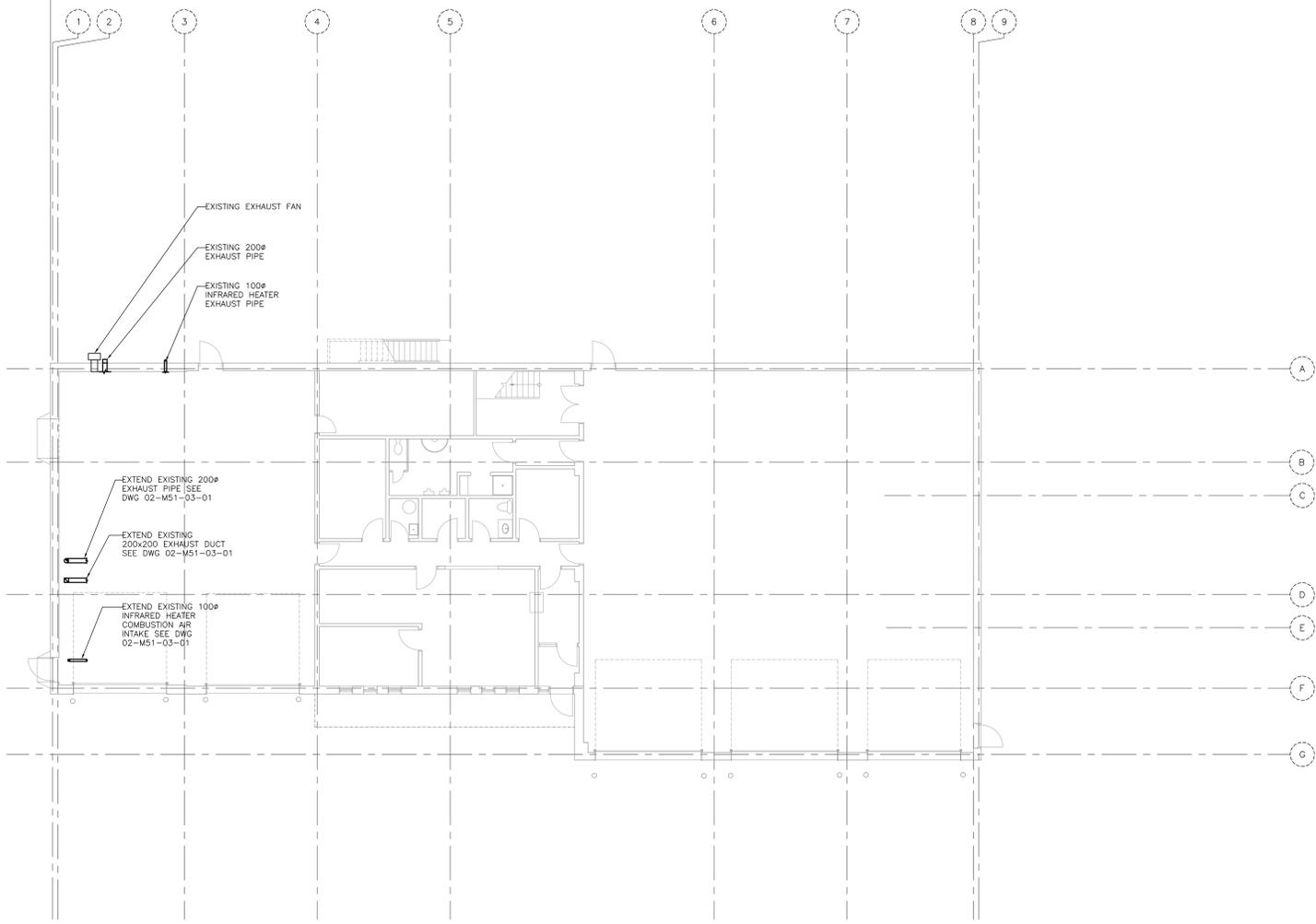
- EQUIPMENT NOTES:**
- HARD WIRE TO DRY CONTACT AT FIRE ALARM SYSTEM PANEL AT MAIN BUILDING ENTRANCE.
 - PROVIDE DRY CONTACTS IN BMS CONTROL PANEL FOR PROCESS GENERAL ALARMS.

RDD Contract No.
T-1038-2019

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OCT 01 2018	TENDER	0
KEY PLAN		
CONSULTANTS		
<p>IBI GROUP 100-175 Galaxy Boulevard Toronto ON M5W 0C9 Canada tel 416 679 1930 fax 416 675 4620 ibigroup.com</p> <p>This drawing has been prepared solely for the use of the Regional Municipality of Durham and there are no representations of any kind made by IBI Group to any party with whom IBI Group has not entered into a contract.</p>		
Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI	
Project Leader M. ALIKHANI	Drawn M. ALIKHANI	
Date JAN 31 2018	Checked S. LIU	
Client THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO		
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY		
Drawing Title MECHANICAL CONTROLS SCHEMATICS & BMS ARCHITECTURE		
Check Scale (may be photo-reduced)	0 1 Inch 0 10mm	
Project No. 24RX12.0113	Drawing No. 02-M74-01-01	

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PROPOSED ADDITION EXISTING BUILDING



DEMOLITION PLAN
 SCALE: 1:100 FIN. FLOOR EL.: 340.060
 (UNLESS NOTED OTHERWISE)

DATE (mm/dd/yyyy)	ISSUED FOR	REV
OCT 01 2018	TENDER	0

KEY PLAN

CONSULTANTS

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M. ALIKHANI
 100140674
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

North Arrow

Detail Symbol

DETAIL NUMBER
 LOCATION OR DETAIL SHEET

Project Manager A. VAN VEEN	Architect/Engineer M. ALIKHANI
Project Leader M. ALIKHANI	Drawn M. ALIKHANI
Date JAN 31 2018	Checked S. LIU
Client THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT ONTARIO	
Project EXPAND GARAGE SCUGOG DEPOT 10 REGIONAL RD. 21, R.R.#14, PORT PERRY	
Drawing Title MECHANICAL DEMOLITION FLOOR PLAN	
Check Scale (may be photo-reduced) 0 1 inch 0 10mm	
Project No. 24RX12.0113	Drawing No. 02-M80-00-00

RDD Contract No. **T-1038-2019**