

EXHAUST FAN SCHEDULE							
IDENTIFICATION	SERVICE	AIRFLOW (L/s)	PRESSURE (kPa)	VOLTAGE (V/PH/Hz)	HP	RPM	NOTES
EF-2	FUME EXTRACTOR WELDER'S SHOP	333	62	115/1/60	1/4	1800	1, 2, 3
NOTES: 1. BACKDRAFT DAMPER. 2. SHIP LOOSE DISCONNECT SWITCH NEMA 1 (TO BE FIELD INSTALLED BY DIVISION 23). 3. COMES WITH SPEED CONTROLLER.							

PRESSURE REGULAR SCHEDULE				
IDENTIFICATION	INLET PRESSURE (kPa)	OUTLET PRESSURE (kPa)	CAPACITY (M3)	NOTES
PRV-3	136	14	663.22	
NOTES:				

LOUVER SCHEDULE				
IDENTIFICATION	DIMENSION		MOUNTING	NOTES
	WIDTH	HEIGHT		
LV-04	810	810	FLANGE	1, 2, 3
LV-05	400	400	FLANGE	1, 2, 3
LV-06	710	710	FLANGE	1, 2, 3
LV-07	635	635	FLANGE	1, 2, 3
LV-08	510	510	FLANGE	1, 2, 3
LV-09	700	700	FLANGE	1, 2, 3
LV-10	500	500	FLANGE	1, 2, 3
LV-12	400	400	FLANGE	1, 2, 3
LV-13	2600	1000	FLANGE	1, 2, 3
NOTES: 1. MINIMUM 50% FREE AREA. 2. PROVIDE WITH BIRDSCREEN. 3. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE BY DEPARTMENTAL REPRESENTATIVE.				

LOUVER SCHEDULE				
IDENTIFICATION	DIMENSION		MOUNTING	NOTES
	WIDTH	HEIGHT		
LV-01	1220	1220	FLANGE	1, 2, 3
LV-02	1980	990	FLANGE	1, 2, 3
LV-03	2005	965	FLANGE	1, 2, 3
LV-04	610	610	FLANGE	1, 2, 3
NOTES: 1. NON-FREEZING WITH VACUUM BREAKER. 2. CAST STAINLESS STEEL BOX. 3. PROVIDE WITH KEFED CUSTOMER OPERATION CYLINDER LOCK. 4. EXTERNAL THREADED CONNECTION FOR DOMESTIC COLD WATER PIPING, 25.				

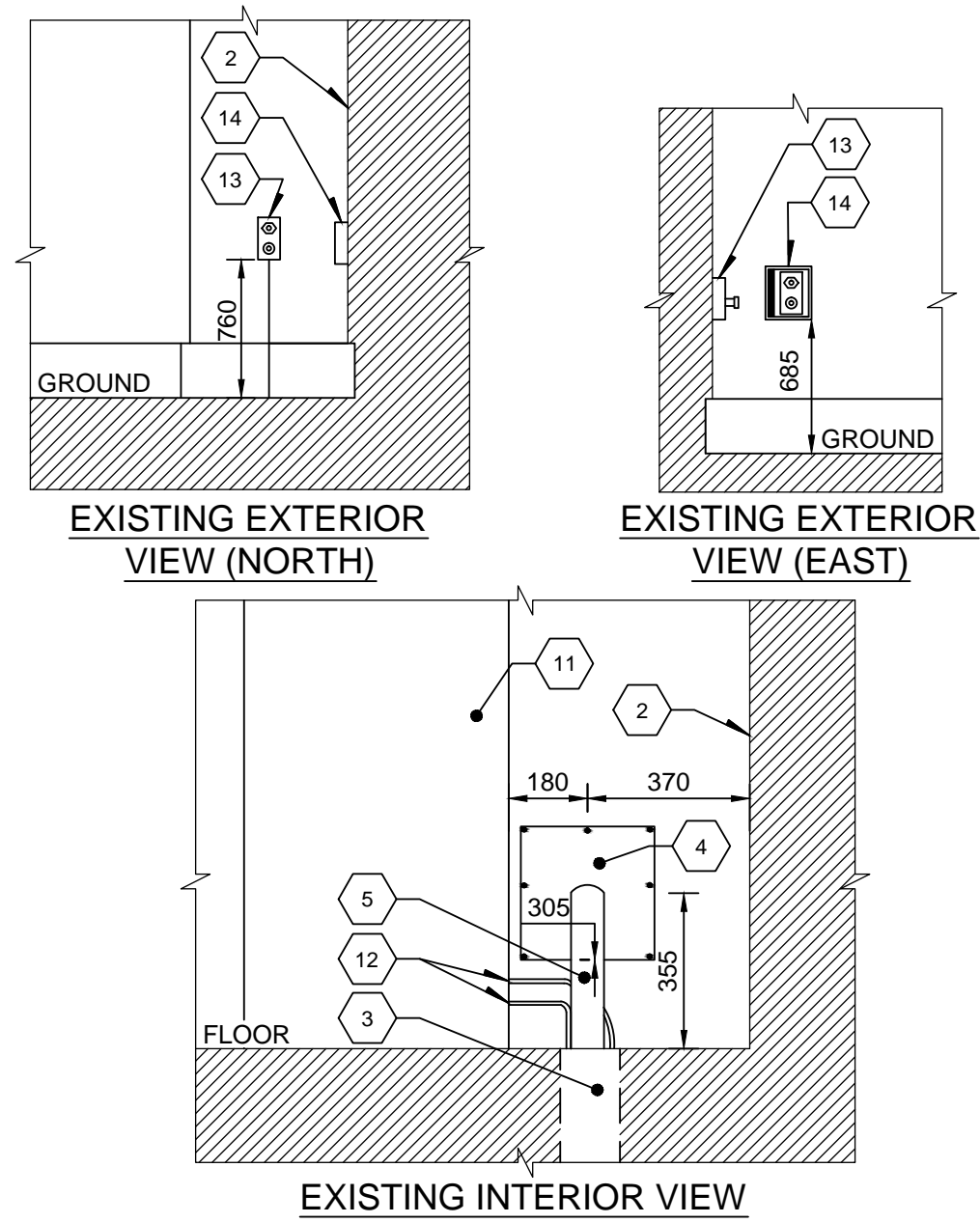
WALL HYDRANT SCHEDULE		
QUANTITY	HOSE CONNECTION (mm)	NOTES
AS INDICATED	20	1, 2, 3, 4
NOTES: 1. NON-FREEZING WITH VACUUM BREAKER. 2. CAST STAINLESS STEEL BOX. 3. PROVIDE WITH KEFED CUSTOMER OPERATION CYLINDER LOCK. 4. EXTERNAL THREADED CONNECTION FOR DOMESTIC COLD WATER PIPING, 25.		

GENERAL MECHANICAL NOTE(S):

- ALL COPPER PIPING TO BE TYPE "K" HARD COPPER INCLUDING (BUT NOT LIMITED TO) MANIFOLDS, VENTS AND STRAIGHT RUNS. ALL JOINTS TO BE BRAZED USING SIL-FOS 15% SILVER WITH ARGON PURGE CRYOGENIC APPROVED PRODUCT. THE CONTRACTOR SHALL SUBMIT BRAZERS VALID CERTIFICATES. BRAZING / SOLDER PROCEDURE AND TWO BRAZING SAMPLES FOR REVIEW AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY CONNECTIONS ON SITE.
- ALL THREADED FITTINGS AND COMPRESSION FITTING MUST BE BRASS. KF FITTINGS TO BE STAINLESS STEEL.
- ALL THREADED SOLENOID VALVES TO BE PIPED WITH MALE BRASS NPTS AND ALL THREADED FITTINGS ARE TO BE SEALED WITH TEFLON TAPE.
- BRAZING OF COPPER - COPPER JOINTS WITH SIL-FOS 15% WITH ARGON PURGE, NO FLUX. BRAZING OF COPPER - BRASS JOINTS WITH SIL-FOS 15 WITH ARGON PURGE, APPROPRIATE FLUX.
- PURGE ALL LINES AFTER INSTALLATION WITH ARGON TO PREVENT THE ENTRY OF DEBRIS FROM TRAVELING FURTHER INTO THE CLEAN SYSTEM COMPONENTS.
- ALL PIPING INSULATION TO BE INSTALLED AFTER LEAK TESTING AND COMMISSION SYSTEM IS COMPLETED.
- ALL INSULATION JOINTS TO BE STAGGERED. PROVIDE REMOVABLE INSULATION JOINTS AT ALL VALVES AND UNIONS.
- CONTRACTOR TO PROVIDE 300mm INSULATION PROTECTION GALVANIZED SHIELD PLATES / SADDLES WITH LOC TABS AT EACH PIPE HANGER LOCATION.
- ALL PIPING TO BE TESTED FOR A MINIMUM OF 24 HOURS IN ACCORDANCE TO THE CODE REQUIREMENTS. DO NOT CONCEAL ANY PIPE UNTIL TESTED AND INSPECTED.
- CONTRACTOR TO SUPPORT PIPING FROM STRUCTURAL MEMBERS WITH CLIPS HANGERS AT ADEQUATE SPACING TO INSURE NO SAG OR FAILURE OF JOINTS. DO NOT USE PERFORATED BAND, WIRE CHAIN OR SOLID RING TYPE HANGERS. ISOLATE COPPER PIPE FROM HANGER OR OTHER PIPING WHERE ELECTROLYTIC ACTION CAN OCCUR. ABSOLUTELY BRACE PIPING AND ALLOW FOR EXPANSION OR CONTRACTION. PROVIDE EXPANSION LOOPS OR JOINTS SIZED TO COMPENSATE FOR CHANGES IN PIPE LENGTH CAUSED BY A TEMPERATURE DIFFERENTIAL OF 100°.
- SMOKE EATERS AND POWERED EXHAUST FANS TO BE USED DURING ALL BRAZING / WELDING / SOLDERING / CUTTING / GRINDING ACTIVITIES TO MINIMIZE CONTAMINATION AND ODOR TO ADJACENT AREAS. ALL BUILDING HVAC RETURN GRILLS WITHIN CONSTRUCTION AREA TO BE BLOCKED AT ALL TIMES.

IDENTIFICATION(S):

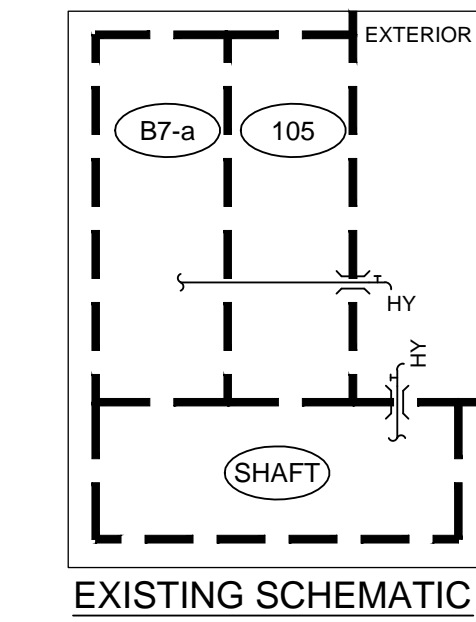
1. NITROGEN SYSTEM PIPING TO AND FROM NITROGEN PIPING BACKBOARD OR BUILDING TO BE DISCONNECTED AT THIS LOCATION AND TO BE REMOVED. NEW PIPING ALONG WITH NEW INSULATION TO BE INSTALLED AFTER ENVELOPE WORK IS COMPLETE AT BUILDING PENETRATION.
2. WALL.
3. 1500 HOLE THROUGH FLOOR FOR ELECTRICAL CONDUIT AND SUPPLY PIPING.
4. 305x305 METAL FLASHING FOR DOMESTIC WATER PIPING PENETRATION THROUGH WALL.
5. 750 INSULATED DOMESTIC WATER PIPING CONNECTED TO HOSE BIBB.
6. WALL-MOUNTED EXHAUST FAN. TEMPORARILY REMOVE AND REINSTALL WALL-MOUNT EXHAUST FAN ONCE ENVELOPE WORK IS COMPLETED.
7. 750 INSULATED NITROGEN PIPING IN FRONT OF STRUCTURAL SUPPORTS.
8. 65x400 INSULATED DUCT LABELLED "EF-NO. 2 EXHAUST" CONNECTED TO EXHAUST FAN C/W MOTORIZED DAMPER.
9. 510x510 DUCT LABELLED "EF-NO. 3 EXHAUST" CONNECTED TO EXHAUST FAN. C/W MOTORIZED DAMPER.
10. STRUCTURAL FRAMING.
11. STRUCTURAL SUPPORT FOR EXTERIOR WALL.
12. ELECTRICAL CONDUIT.
13. HOSE BIBB, WITH LOCK-KEY OPERATOR. REMOVE AND DISCARD C/W PIPING HOSE BIBB BACK TO INSIDE BUILDING AND CAP REMAINING PIPING. WALL PENETRATION INFILL BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWING.
14. HOSE BIBB, WITH LOCK-KEY OPERATOR AND WALL-MOUNTED ACCESS BOX. REMOVE AND REPLACE WITH NEW WALL HYDRANT.
15. EXISTING HEATING COIL TO BE REMOVED.
16. EXISTING PIPING TO BE CAPPED.



INTERIOR PHOTO

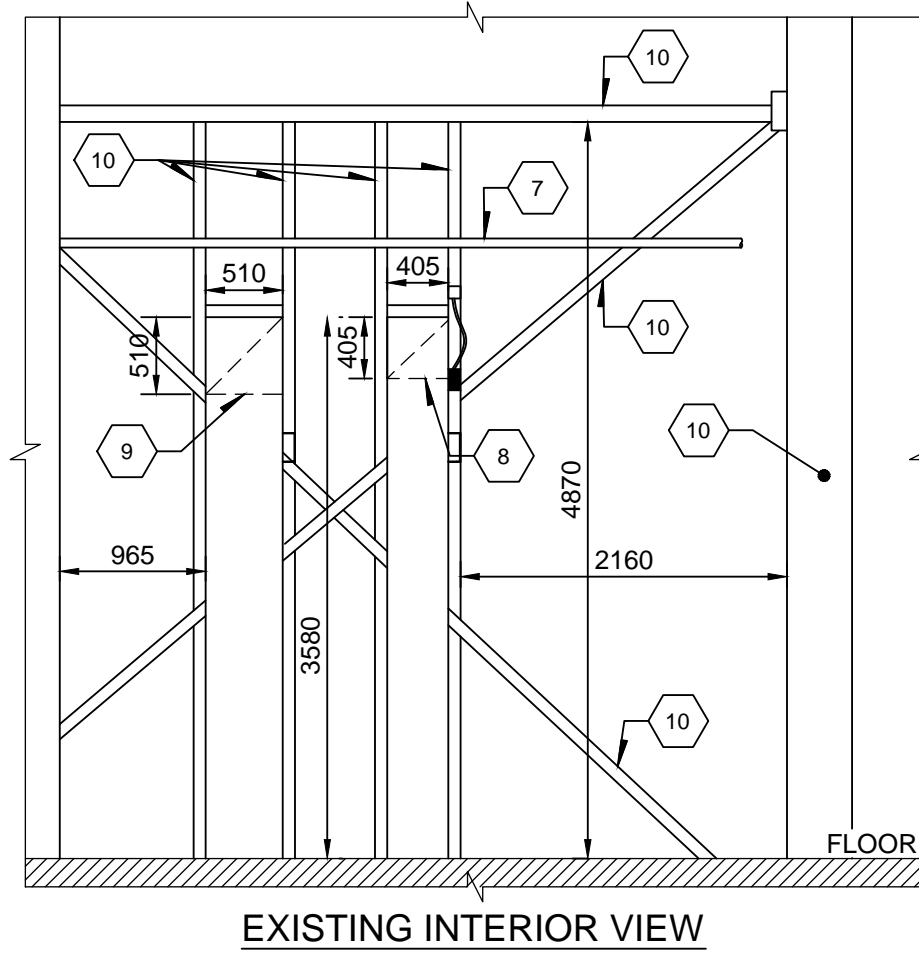


EXTERIOR PHOTO



EXISTING SCHEMATIC

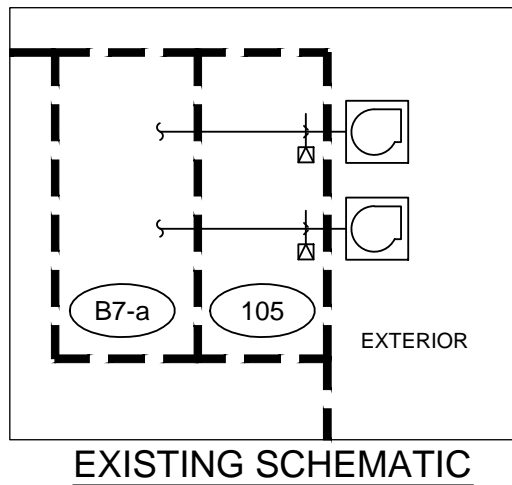
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INTERIOR PHOTO

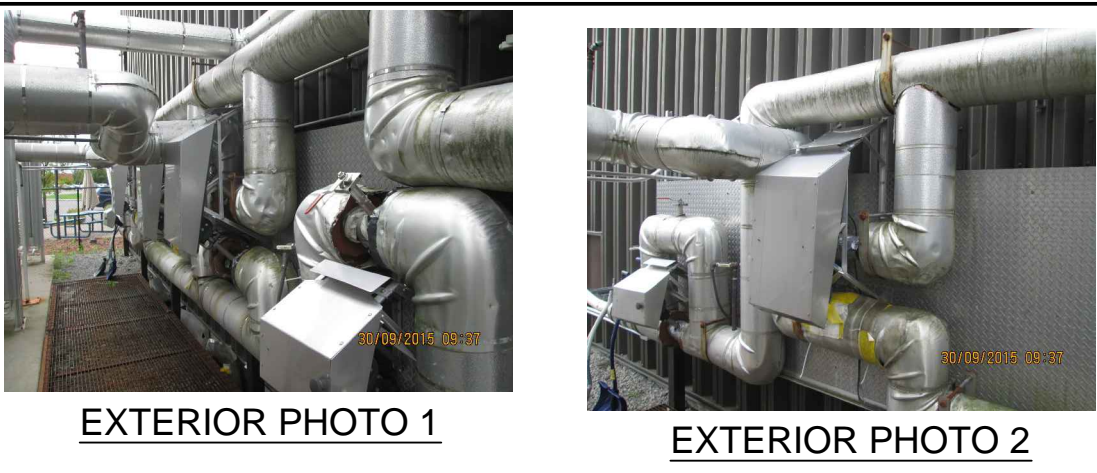


EXTERIOR PHOTO



EXISTING SCHEMATIC

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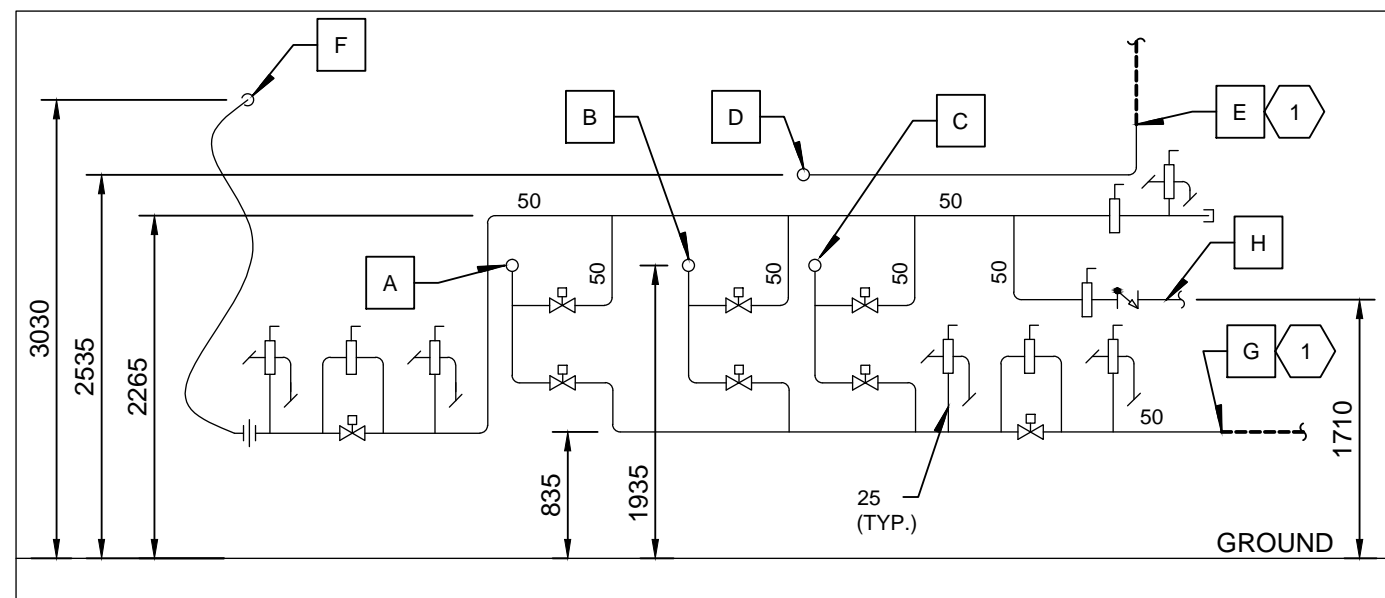


EXTERIOR PHOTO 1

EXTERIOR PHOTO 2

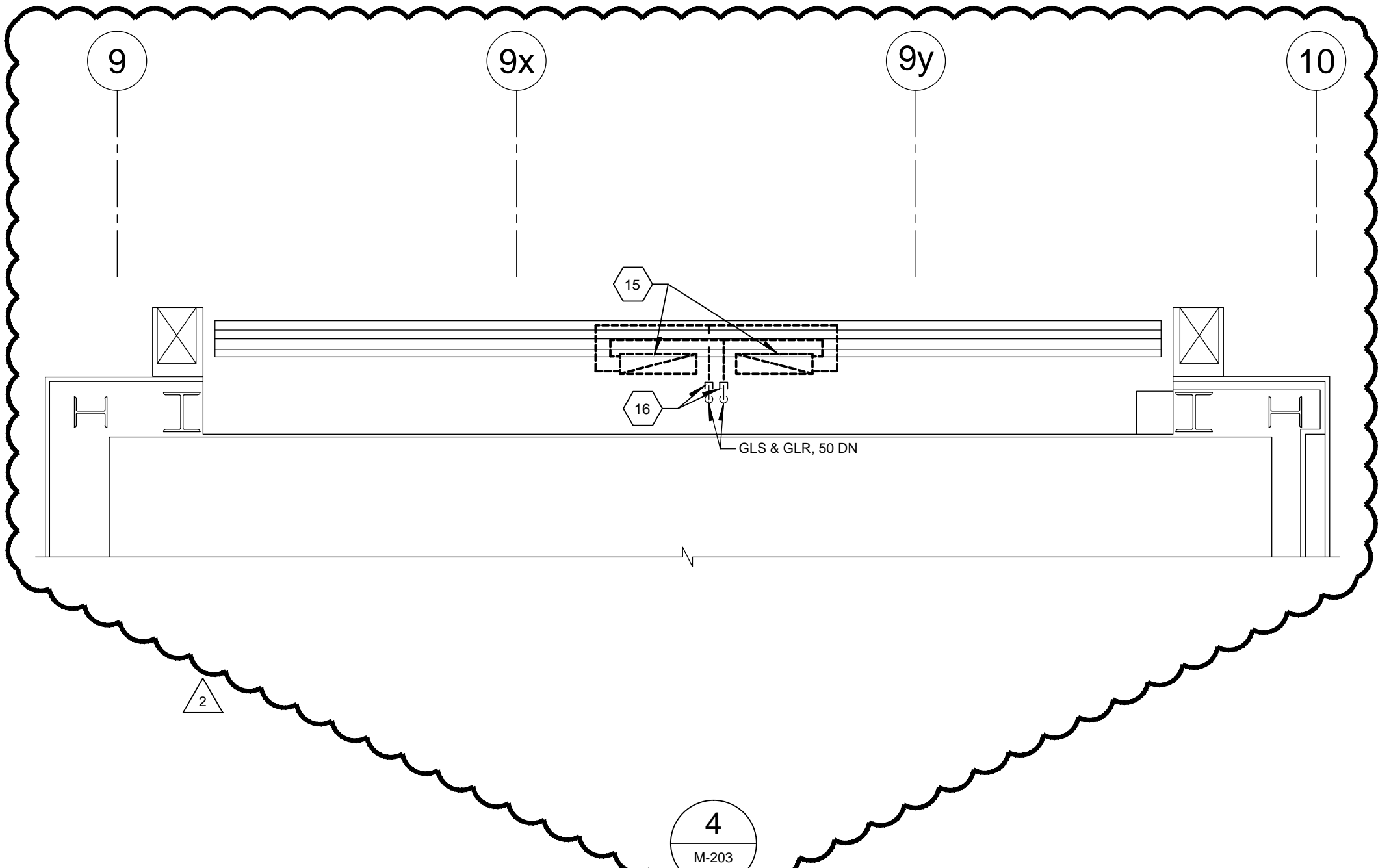
GENERAL NOTE (S):

- NITROGEN SYSTEM MAIN PIPING BACKBOARD, MOUNTED ON STEEL BEAMS AGAINST BUILDING WALL TO REMAIN. DRAIN EXISTING NITROGEN SYSTEM BACK TO NITROGEN STORAGE TANKS. ISOLATE TANKS FROM NITROGEN DISTRIBUTION SYSTEM. RECOVER REMAINING NITROGEN IN THE PIPING. UPON COMPLETION OF ENVELOPE WORK, COMMISSION SYSTEM. DISCONNECT POINTS E AND G. CLEAN AND PRESSURE TEST NITROGEN SYSTEM UPON COMPLETION OF ENVELOPE WORK. CONTRACTOR IS TO REPAIR ANY DAMAGE TO NITROGEN PIPING DURING CONSTRUCTION.

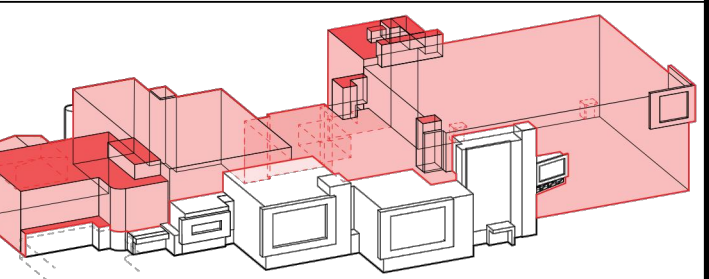


EXISTING EXTERIOR SCHEMATIC (BACKBOARD HEADER)

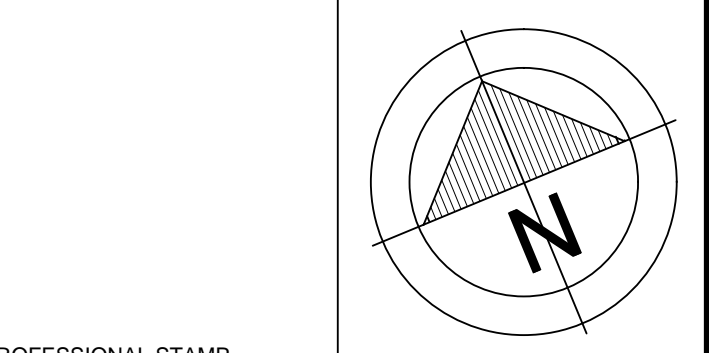
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2.	ADDENDUM No 1	2016.07.28
1.	ISSUED FOR TENDER	2016.06.01
No.	Revision	Date



A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project
DAVID FLORIDA LABORATORY
BUILDING No. 65, SHIRLEY'S BAY, ONTARIO
BUILDING ENVELOPE REFIT
PROJECT- CSA15-G1

drawing
dessin

MECHANICAL DETAILS AND SCHEDULES

designed	S. JOANISSE / Z. FETTAKA	conçu
date	2016.04.07	
drawn	D. VÉZINA	dessiné
date	2016.04.07	
reviewed	F. DIONNE	examiné
date	2016.04.07	
approved	F. DIONNE	approuvé
date	2016.04.07	
scale		

project no.
no. du projet
CSA15-G1
drawing no.
no. du dessin
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