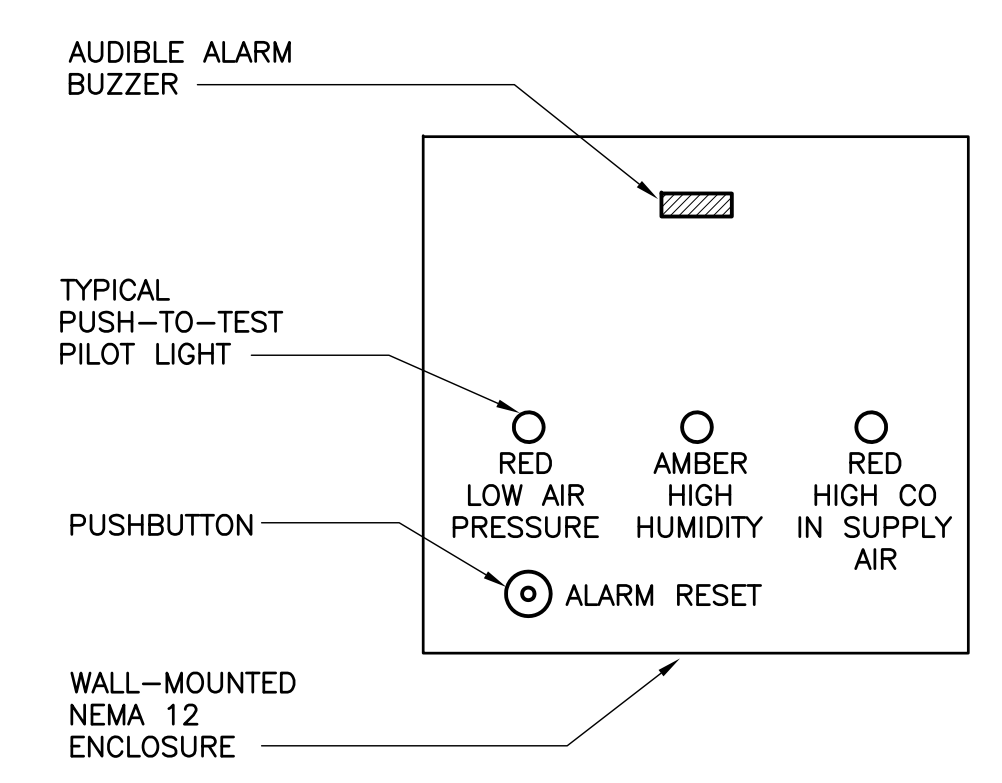


1 BREATHING AIR ALARM SYSTEM RISER DIAGRAM
N.T.S.

NOTES:

- PILOT LIGHTS ON THE ALARM PANEL TO INDICATE LOW AIR PRESSURE, HIGH AIR PRESSURE, AND HIGH CO IN SUPPLY AIR.
- THE FOLLOWING CONDITIONS TO INITIATE AUDIBLE ALARM ON THE PANEL AND AUDIBLE/VISUAL ALARMS IN PAINT BOOTHS:
 - HIGH AIR PRESSURE
 - LOW AIR PRESSURE
 - HIGH CO IN SUPPLY AIR
- ALARM RESET BUTTON IS TO SILENCE AUDIBLE ALARM ONLY.



2 BREATHING AIR ALARM PANEL ELEVATION
N.T.S.

ELECTRICAL SPECIFICATION

- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE, PROVINCIAL, MUNICIPAL AND OTHER CODES, RULES AND REGULATIONS.
- THE CONTRACT SHALL INCLUDE THE FURNISHING OF LABOUR, NEW MATERIAL, EQUIPMENT AND SERVICES NECESSARY AND REASONABLY IMPLIED AND/OR INCIDENTAL TO THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK AS SHOWN ON THE PLANS AND AS SPECIFIED. SUPPLY AND INSTALL ALL DEVICES REQUIRED FOR THE COMPLETE APPROVED SYSTEM, OPERATING TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- PREPARE AND SUBMIT TO THE PROPER AUTHORITIES ALL NECESSARY PERMIT APPLICATIONS AND PAY ALL FEES.
- UPON COMPLETION AND BEFORE FINAL PAYMENT IS MADE, PRESENT TO CONTRACT ADMINISTRATOR A CERTIFICATE OF APPROVAL FOR ALL ELECTRICAL WORK FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION.
- ELECTRICAL INSTALLATION INCLUDING ELECTRICAL EQUIPMENT SUPPLIED, INSTALLED OR CONNECTED SHALL BE TESTED IN THE PRESENCE OF THE CITY ON COMPLETION OF THE WORK.
- THE ELECTRICAL SUB-CONTRACTOR SHALL VISIT THE SITE AND ASCERTAIN THAT ALL WORK INDICATED CAN BE CARRIED OUT WITHOUT ADDITIONAL COST TO THE CITY.
- THE ELECTRICAL SUB-CONTRACTOR SHALL GUARANTEE THE SATISFACTORY OPERATION OF ALL WORK AND APPARATUS INCLUDED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATION FOR A PERIOD OF TWELVE (12) CALENDAR MONTHS AFTER THE FINAL ACCEPTANCE OF THE COMPLETE PROJECT.
- THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE CITY OR THEIR CONTRACTORS BY IMPROPERLY CARRYING OUT THIS CONTRACT.
- THE ELECTRICAL SUB-CONTRACTOR SHALL CAREFULLY EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THE WORK TO BE CERTAIN THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY CARRIED OUT AND, PRIOR TO THE SUBMISSION OF HIS OR HER BID, REPORT TO THE CONTRACT ADMINISTRATOR ANY DEFECT, DISCREPANCY, OMISSION OR INTERFERENCE AFFECTING THE WORK OF THIS SECTION OR THE GUARANTEE OF SAME.
- SUBMIT ONE SET OF CORRECTED "AS-BUILT" DRAWINGS TO THE CONTRACT ADMINISTRATOR.
- GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE.
- PANELBOARDS, MOTOR STARTERS, DISCONNECT SWITCHES, ETC., SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED LAMACOID NAMEPLATES.
- SUPPLY AND INSTALL ALL MOTOR CONTROLS UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF MOTORS AND MECHANICAL EQUIPMENT.
- UTILIZE TECK CABLE OR WIRE IN CONDUIT. CONDUITS SHALL BE EMT IN REGULAR AREAS OR RGS IN HAZARDOUS AREAS.
- OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED PRESSED STEEL OF SIZE AND TYPE TO SUIT THE REQUIREMENTS OF EACH OUTLET. OUTLET BOXES SHALL BE ACCESSIBLE.
- WIRE AND CABLE SHALL BE COPPER OF STANDARD AWG SIZES WITH 600V (90°C) INSULATION. INSULATION SHALL BE X-LINK POLYETHYLENE UNLESS OTHERWISE NOTED ON DRAWINGS OR PROHIBITED BY REGULATIONS. ALUMINUM CONDUCTORS WILL NOT BE ACCEPTED. MINIMUM WIRE SIZE SHALL BE #12 AWG.
- ANY CUTTING AND PATCHING IN EXISTING WALLS OR FLOORS REQUIRED FOR THE ADDITION OR RELOCATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUB-CONTRACTOR.
- THE ELECTRICAL SUB-CONTRACTOR MAY REUSE EXISTING CONDUITS, WIRE AND OUTLETS WHICH ARE IN GOOD REPAIR AND SIZED TO MEET ALL CODE REQUIREMENTS. ALL EQUIPMENT TO BE REUSED MUST BE APPROVED BY THE LOCAL INSPECTION DEPARTMENT AND THE CONTRACT ADMINISTRATOR.
- THE ELECTRICAL SUB-CONTRACTOR SHALL RELOCATE OUTLETS AT NO ADDITIONAL CHARGE IF REQUESTED PRIOR TO ROUGHING IN.
- EQUIPMENT AND MATERIAL SHALL BE INSTALLED AS SPECIFIED. ELECTRICAL SUB-CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT TO BE FLEXIBLE. OBTAIN AND REFER TO SHOP DRAWINGS OF MECHANICAL EQUIPMENT FOR CIRCUIT BREAKER AND WIRE SIZE. ADJUST CIRCUIT BREAKER AND WIRE SIZE WITHOUT ADDITIONAL COST TO THE CITY.

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NO.	DESCRIPTION	DATE	ISSUED BY

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CLIENT
**CITY OF WINNIPEG
 TRANSIT DEPARTMENT**



PROJECT NAME
**WINNIPEG TRANSIT - OSBORNE STREET GARAGE
 PAINT BOOTH BREATHING AIR SYSTEM UPGRADE**

DRAWING DESCRIPTION
ELECTRICAL SPECIFICATION



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	APPROVED BY:		
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