

A-243 Solving Contamination Deficiencies CLP DOKDEN

Canada

National Défense Defence nationale

Date: 2025-03-05

300mm

SET NO SÉRIE NO.
LIST OF DRAWINGS - LISTE DES DESSINS
STRUCTURAL - STRUCTURE L-B147-9618-200 - GENERAL NOTES L-B147-9618-201 - TYPICAL DETAILS L-B147-9618-202 - TYPICAL & PROJECT DETAILS L-B147-9618-203 - FLOOR PLAN L-B147-9618-204 - MEZZANINE PLAN L-B147-9618-205 - ROOF PLAN L-B147-9618-206 - BUILDING SECTIONS ARCHITECTURAL - ARCHITECTURE L-B147-9618/12-300 - LEGEND, CONSTRUCTION ASSEMBLIES, FIRE, GENERAL NOTES & CODE I L-B147-9618/12-301 - FLOOR PLAN - DEMOLITION L-B147-9618/12-302 - GROUND FLOOR PLAN - NEW WORK & DETAILS L-B147-9618/12-303 - REFLECTED CEILING PLAN - NEW WORK & DETAILS L-B147-9618/12-304 - REFLECTED CEILING PLAN - NEW WORK & DETAILS L-B147-9618/12-305 - FINISH FLOOR PLAN L-B147-9618/12-306 - ROOF PLAN
L-B147-9618/12-307 - ROOF PLAN - NEW WORK & DETAILS L-B147-9618/12-308 - BUILDING SECTIONS & DETAILS
L-B147-9618/12-309 - ENLARGED PLANS & INTERIOR ELEVATIONS L-B147-9618/12-310 - GENDER NEUTRAL WASHROOM PLAN AND INTERIOR ELEVATIONS L-B147-9618/12-311 - MILLWORK DETAILS L-B147-9618/12-312 - DOOR SCHEDULE, DOOR & FRAME ELEVATIONS & JAMB DETAILS
MECHANICAL - MÉCANIQUE
L-B147-9618/12-400 - LEGENDS, DRAWING LIST AND CODE SYNOPSIS L-B147-9618/12-410 - GROUND FLOOR PLAN FIRE PROTECTION - DEMOLITION L-B147-9618/12-411 - GROUND FLOOR PLAN FIRE PROTECTION - NEW WORK L-B147-9618/12-420 - GROUND FLOOR PLAN PLUMBING - DEMOLITION L-B147-9618/12-421 - GROUND FLOOR PLAN PLUMBING - NEW WORK L-B147-9618/12-422 - ENLARGE GROUND FLOOR PART PLAN - PLUMBING & UTILITIES - NEW W L-B147-9618/12-430 - GROUND FLOOR PLAN HVAC - DEMOLITION L-B147-9618/12-431 - GROUND FLOOR PLAN HVAC - NEW WORK L-B147-9618/12-440 - ROOF PLAN - DEMOLITION L-B147-9618/12-440 - ROOF PLAN - DEMOLITION L-B147-9618/12-440 - ROOF PLAN - DEMOLITION L-B147-9618/12-440 - ROOF PLAN - NEW L-B147-9618/12-440 - MECHANICAL SYSTEM CONTROL DIAGRAMS L-B147-9618/12-460 - MECHANICAL SCHEDULES - SHEET 1 L-B147-9618/12-461 - MECHANICAL SCHEDULES - SHEET 2 L-B147-9618/12-471 - MECHANICAL DETAILS - SHEET 1 L-B147-9618/12-471 - MECHANICAL DETAILS - SHEET 2 L-B147-9618/12-471 - MECHANICAL DETAILS - SHEET 1 L-B147-9618/12-471 - MECHANICAL DETAILS - SHEET 2 ELECTRICAL - ÉLECTRIQUE L-B147-9618/12-500 - LEGENDS AND DRAWING LIST L-B147-9618/12-501 - GROUND FLOOR PLAN POWER AND FIRE ALARM - DEMOLITION
L-B147-9618/12-501 - GROUND FLOOR PLAN POWER AND FIRE ALARM - DEMOLITION L-B147-9618/12-502 - GROUND FLOOR PLAN LIGHTING - DEMOLITION L-B147-9618/12-503 - GROUND FLOOR PLAN POWER AND FIRE ALARM - NEW WORK L-B147-9618/12-504 - GROUND FLOOR PLAN LIGHTING - NEW WORK L-B147-9618/12-505 - SECOND FLOOR PLAN FIRE ALARM LAYOUT AND DIAGRAM L-B147-9618/12-540 - ROOF PLAN - DEMOLITION L-B147-9618/12-541 - ROOF PLAN - NEW WORK L-B147-9618/12-560 - SCHEDULES DCC NO CDC NO.
PROJECT NO PROJET NO. BN186586

L-B147-9618/12



<u>GE</u>	NERAL
1.	THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND
2.	ALL FORCES ARE IN METRIC UNITS. PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER DRAWINGS PROVIDED BY DCC REPRESENTATIVE. CONFIRM ALL DIMENSIONS, ELEVATIONS AND HEADROOM CLEARANCES, AND COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS
3.	REPORT ANY DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
4.	DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION
5.	FROM DCC REPRESENTATIVE. EXISTING STRUCTURAL INFORMATION IS BASED UPON AS BUILT DRAWINGS PREPARED BY DND CONSTRUCTION ENGINEERING DATED JANUARY 15, 1984, DRAWINGS PREPARED BY F.J. REINDERS AND ASSOCIATES CANADA LIMITED DATED JANUARY 14, 1994, AND DRAWINGS PREPARED BY STANTEC CONSULTING LTD. DATED JANUARY 31, 2011.
6. -	VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
7. 8.	USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION". DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
9.	DO NOT SCALE THESE DRAWINGS.
10.	UNLESS OTHERWISE NOTED ON DRAWINGS, FOLLOW TYPICAL DETAILS SHOWN ON THIS SERIES OF DRAWINGS. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL CONDITIONS FOR THIS PROJECT. IF A TYPICAL DETAIL INCLUDES A CROSS REFERENCE TO ANOTHER TYPICAL DETAIL WHICH IS NOT INCLUDED IN THE DRAWING SET, THE CROSS-REFERENCED DETAIL IS NOT APPLICABLE ON THIS PROJECT.
11.	ALL SECTIONS, DETAILS AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE / SIMILAR CONDITIONS IN THE STRUCTURE.
12.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FIRE RATING, SPRAYED FIREPROOFING, INTUMESCENT PAINTING AND ALL OTHER MEASURES REQUIRED TO ACHIEVE IT.
13. 14.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING, SEALERS, ETC. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT, INCLUDING TEMPORARY SHORING, BRACING, GUYS AND TIE DOWNS. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
15.	EXTENT OF ALL TEMPORARY SHORING FOR EXCAVATION WHICH MAY BE REQUIRED IS NOT
16.	DESIGN AND CONSTRUCTION REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A
17.	PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED. ANCHOR BOLTS AND OTHER EMBEDDED ITEMS ARE DESIGNED FOR LOADS ACTING ON THE
	COMPLETED STRUCTURE ONLY AND ARE NOT TO BE USED OR RELIED UPON FOR TEMPORARY SUPPORT OR BRACING DURING ERECTION UNLESS REVIEWED AND APPROVED BY THE CONTRACTOR'S ENGINEER RESPONSIBLE FOR THE ERECTION PROCEDURES.
18.	CONSTRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED ON DRAWINGS. FULL DESIGN LOADS MAY ONLY BE APPLIED AFTER THE CONCRETE REACHES ITS DESIGN STRENGTH.
19.	MAINTAIN A QUALITY CONTROL PLAN FOR STRUCTURAL WORK, AND MAKE IT AVAILABLE TO THE DCC REPRESENTATIVE UPON REQUEST. AT A MINIMUM, THE PLAN TO INCLUDE:
	 NAMES OF PERSONNEL RESPONSIBLE FOR EXECUTION OF THE PLAN. MEANS AND METHODS FOR CONFIRMING MATERIAL COMPLIANCE WITH SPECIFICATIONS AND ASSOCIATED DOCUMENTATION PROCEDURES.
	3. PROGRAM FOR CONFIRMING AND DOCUMENTING COMPLIANCE WITH REQUIRED SUB-TRADE QUALIFICATIONS AND QUALIFICATIONS OF THEIR INDIVIDUAL EMPLOYEES AND SUB-CONTRACTORS
	 PROCEDURES FOR REVIEWING FIELD COMPLIANCE WITH CONSTRUCTION DOCUMENTS, INCLUDING DOCUMENTATION OF LOCATIONS REVIEWED, PHOTOGRAPHS TAKEN AND TIMING OF REVIEW. THE CONTRACTOR'S REVIEW TO BE COMPLETED PRIOR TO REVIEW BY THE DCC REPRESENTATIVE.
	5. PROCEDURES FOR RECTIFYING DEFICIENCIES NOTED BY THE CONTRACTOR, SUB-CONTRACTORS, DCC REPRESENTATIVE AND INDEPENDENT INSPECTION AGENCIES.
20.	FOR INSPECTION AND TESTING REQUIREMENTS, REFER TO SPECIFICATIONS.
21.	IN CASE OF DISCREPANCY BETWEEN GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, COMPLY WITH THE MOST STRINGENT REQUIREMENTS. SIGN DATA
1.	STRUCTURAL UPGRADING OF THE EXISTING BUILDING IS TO THE GENERAL INTENT OF THE NATIONAL BUILDING CODE (NBC) 2020 SUPPLEMENTED BY THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES. THE UPGRADING IS LIMITED TO THE AREA(S) SHOWN ON THESE DRAWINGS. FOR THE REMAINDER OF THE EXISTING BUILDING, THE CURRENT PERFORMANCE LEVEL IS MAINTAINED AND SEISMIC OR OTHER STRUCTURAL EVALUATION AND UPGRADING (INCLUDING UPGRADING TO CARRY GRAVITY LOADS) IS NOT INCLUDED IN THE SCOPE OF THE PROJECT. WE ACCEPT NO RESPONSIBILITY FOR THE STRUCTURAL ADEQUACY OF THE REMAINDER OF THE EXISTING BUILDING (WHICH REMAINS THE RESPONSIBILITY OF THE ORIGINAL DESIGNERS), NOR FOR POSSIBLE DETRIMENTAL SEISMIC OR OTHER EFFECTS THE REMAINDER OF THE BUILDING MAY HAVE ON THE RENOVATED AREA(S).
2. 3.	CONCRETE ELEMENTS ARE DESIGNED PER CSA A23.3-19 - DESIGN OF CONCRETE STRUCTURES. STEEL ELEMENTS ARE DESIGNED PER CSA S16-19 - LIMIT STATE DESIGN OF STEEL STRUCTURES.
4.	MASONRY STRUCTURAL ELEMENTS ARE DESIGNED PER CSA S304 (R2019) - DESIGN OF MASONRY STRUCTURES
5. 6.	THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NBC FOR THE SPECIFIC LOCATION OF BORDEN. BASED ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A
7.	NORMAL IMPORTANCE CATEGORY. SUPERIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL TOPPINGS, FINISHES, PARTITIONS, ROOFING MATERIALS, SUSPENDED EQUIPMENT, PAVERS, SOIL,
8.	ETC. DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.
9. 10.	LIVE LOAD (LL) REDUCTION HAS NOT BEEN USED. UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN. THESE LOADS CAN BE REDUCED BY
11.	MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS Ix(SLS) / Ix(ULS) GIVEN BELOW. IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD.
12. 13.	FOR CONNECTION LOADS, "+" SIGN INDICATES TENSION AND "-" SIGN INDICATES COMPRESSION, EXCEPT FOR COLUMN LOADS WHERE "+" SIGN INDICATES COMPRESSION AND "-" SIGN INDICATES TENSION. SNOW:
14	Ss = 2.2 kPa Sr = 0.4 kPa Is (ULS) = 1.0 Is (SLS) = 0.9 MINIMUM UNFACTORED SNOW LOAD = 2.16 kPa x Is
15.	24 HOUR RAINFALL = 109 mm LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY SHEAR WALLS, AND BRACED FRAMES, AND
16.	ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW. WIND: q50 = 0.36 kPa Iw (ULS) = 1.0 Iw (SLS) = 0.75
	BUILDING IS: LOW RISE TERRAIN TYPE: OPEN INTERNAL PRESSURE CATEGORY: 2 Ce = 0.9
17.	SEISMIC:
	Sa(0.2, XD) = 0.251 PGA (XD)= 0.139 leFaSa(0.2) = 0.139 Sa(0.5, XD) = 0.262 Rd = 1.5 Sa(1.0, XD) = 0.160 Ro = 1.3 SITE CLASSIFICATION = DSa(2.0, XD) = 0.0773 le = 1.0 Sa(5.0, XD) = 0.0205
	Sa(10.0,XD) = 0.00649 SEISMIC FORCE RESISTING SYSTEM (SFRS): SHEAR WALL AND BRACED FRAMES

STRUCTURAL MOVEMENTS

18.

- UNLESS NOTED OTHERWISE, MAXIMUM EXPECTED MOVEMENT OF THE BUILDING STRUCTURE (AFTER INSTALLATION OF FINISHES) WILL BE AS FOLLOWS ("L" IS THE CLEAR SPAN OF THE SUPPORTING STRUCTURAL ELEMENT, "H" IS THE STOREY HEIGHT):
- VERTICAL DEFLECTION OF STEEL FRAMED FLOORS AND ROOFS: VERTICAL DEFLECTION OF CONCRETE FRAMED FLOORS AND ROOFS: VERTICAL DEFLECTIONS OF MEMBERS SUPPORTING CURTAINWALL:

EXISTING STRUCTURES

- EXISTING CONDITIONS ARE ASSUMED. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO DCC REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- DESIGN OF STRUCTURAL WORKS RELATED TO THE EXISTING BUILDING HAS BEEN CARRIED OUT AS FAR AS PRACTICAL, GIVEN LIMITED AVAILABILITY OF THE EXISTING DRAWINGS AND LIMITED RECORDS OF THE STRUCTURAL MODIFICATIONS LIKELY TO HAVE BEEN MADE THROUGH THE LIFE OF THE BUILDING. MODIFICATIONS TO THE PROPOSED STRUCTURAL FRAMING AND / OR DETAILS MAY BE REQUIRED IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE ASSUMED AND SHOWN ON DRAWINGS.
- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING STRUCTURES DURING DEMOLITION AND NEW CONSTRUCTION.
- DISCONNECT ALL SERVICES IN THE AREAS AFFECTED BY DEMOLITION AND NEW CONSTRUCTION. REROUTE SERVICES AS REQUIRED TO KEEP THE REMAINDER OF THE BUILDING OPERATIONAL.
- SAFELY STORE ALL STRUCTURAL ELEMENTS AND OTHER PRODUCTS WHICH ARE TO BE RE-USED. REMOVE FROM SITE ALL OTHER STRUCTURAL ELEMENTS AND PRODUCTS WHICH ARE NOT INDICATED TO BE HANDED OVER TO THE OWNER.
- SCHEDULE WORK TO MINIMIZE EFFECT ON THE EXISTING BUILDING OPERATION. USE EQUIPMENT AND PROCEDURES TO MINIMIZE NOISE, DUST AND VIBRATIONS. SUBMIT PROPOSED SCHEDULE FOR REVIEW BY THE CONSULTANT AND THE OWNER.
- ALL DEMOLITION, SHORING AND OTHER TEMPORARY WORKS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED. PREPARE DRAWINGS SIGNED AND SEALED BY THAT ENGINEER SHOWING DEMOLITION PROCEDURE AND SEQUENCE AND ALL THE NECESSARY SHORING. PROVIDE THESE DRAWINGS TO THE DCC REPRESENTATIVE FOR REVIEW.
- INSTALL AND AFTERWARDS REMOVE ALL TEMPORARY SHORING AND BRACING REQUIRED TO ENSURE
- THE INTEGRITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION. REFER TO TYPICAL DETAIL FOR CONCRETE SAWCUTTING PROCEDURE. 10.
- DO NOT ALTER MATERIAL PROPERTIES OF THE STRUCTURAL STEEL WHICH IS TO REMAIN BY CUTTING 11. AND DEMOLITION PROCEDURE.
- ASSESS CAPACITY OF THE EXISTING STRUCTURE AND CONSTRUCTION LOADS APPLIED TO IT. 12. PROVIDE ADEQUATE SHORING IF THE LOADS EXCEED THE EXISTING STRUCTURAL CAPACITY. 13.
- MAKE GOOD ALL EXISTING WORK DISTURBED BY THE SHORING OPERATIONS, DEMOLITION, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

EXCAVATION, BACKFILL AND COMPACTION

- VERIFY GEOTECHNICAL CONDITIONS ON SITE.
- PROVIDE BEARING CAPACITY OF SOIL AND CONFIRM SITE CLASSIFICATION PRIOR TO CONSTRUCTION AND ALSO PROVIDE COMPACTION TEST DURING CONSTRUCTION...
- PRIOR TO COMMENCING EXCAVATION, LOCATE AND IDENTIFY ALL EXISTING UNDERGROUND STRUCTURES AND SERVICES.
- ESTABLISH LINES OF EXCAVATION AS REQUIRED FOR CONSTRUCTION SAFETY, BUT DO NOT EXCEED 1:1 SLOPE. DO NOT UNDERMINE ADJACENT FOUNDATIONS, AND START SLOPE MINIMUM 300 FROM FACE OF FOUNDATION, REFER TO TYPICAL DETAIL TC-FDN-41.
- DESIGN AND PROVIDE SHORING AND BRACING FOR EXCAVATION WHERE NECESSARY. PROVIDE SHORING DESIGN FOR REVIEW AND APPROVAL PRIOR TO EXCAVATION.
- DIG TRENCHES FOR MECHANICAL AND ELECTRICAL SERVICES TO PROVIDE UNIFORM CONTINUOUS BEARING AND SUPPORT BEDDING MATERIAL ON UNDISTURBED SOIL. REFER TO MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS FOR TRENCH CONSTRUCTION DETAILS. AT A MINIMUM, FILL TRENCHES WITH SAND TO 300 ABOVE PIPES OR CONDUITS.
- LEGALLY DISPOSE OF ALL EXCAVATED MATERIALS, OR STORE ON SITE FOR BACKFILLING IF REQUIRED.
- PROTECT BOTTOM OF EXCAVATION FROM EXCESSIVE MOISTURE BY GRANULAR FILL OR LEAN CONCRETE (MUD SLAB). SLOPE FOR DRAINAGE. PROVIDE DRAINAGE TRENCHES AND PITS AND PUMP OUT WATER AS REQUIRED.
- BACKFILLING MATERIALS OTHER THAN LEAN CONCRETE, (IF REQUIRED) TO BE AS FOLLOWS: GRANULAR 'A" AS PER OPSS.PROV 1010.
- GRANULAR 'B' TYPE II AS PER OPSS.PROV 1010.

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- ALL BACKFILLING MATERIALS TO BE SOUND AND CLEAN, FREE FROM DEBRIS, ORGANIC AND FROZEN MATTER, WITH NO REACTIVE MINERALS NOR FRIABLE MATERIALS WITH SWELLING POTENTIAL.
- 11. PLACE BACKFILLING MATERIALS AS FOLLOWS: INFRASTRUCTURE (GRANULAR BASE): GRANULAR 'A' BACKFILL; MINIMUM THICKNESS: UNDER
- EXTERIOR SLAB ON GRADE 300.
- BACKFILL TO GRADES INDICATED IN LIFTS NOT EXCEEDING 300, EXCEPT THAT LIFTS FOR 12. INFRASTRUCTURE (GRANULAR BASE) SHOULD NOT EXCEED 200, USE MECHANICAL COMPACTION EQUIPMENT. DO NOT PLACE BACKFILL OVER FROZEN SOIL. 13.
- USE ONLY LIGHT, HAND-OPERATED EQUIPMENT FOR COMPACTION ADJACENT TO BASEMENT WALLS AND RETAINING WALLS.
- MAINTAIN MOISTURE CONTENT IN BACKFILLING MATERIAL (IF USED) AS REQUIRED TO ACHIEVE THE 14 SPECIFIED COMPACTION. PROTECT FROM EXCESSIVE MOISTURE DURING AND AFTER THE BACKFILLING OPERATION.
- COMPACT BACKFILL (IF USED) TO ACHIEVE THE FOLLOWING STANDARD PROCTOR MAXIMUM DRY 15. DENSITIES:
 - BELOW SLAB ON GRADE: MIN. 100%
 - BELOW PAVEMENT AND SIDEWALKS: MIN. 98%
 - BELOW LANDSCAPED AREAS: 95%
- INDEPENDENT INSPECTION AND TESTING AGENCY TO MONITOR COMPACTION AND CONDUCT DENSITY TESTING DURING INSTALLATION OF ALL GRANULAR MATERIALS, AND TO VERIFY THE ASSUMED SOIL BEARING CAPACITY. THE CONTRACTOR WILL RETAIN AND PAY THE TESTING AGENCY FOR THIS WORK.

CAST-IN-PLACE CONCRETE

- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 PERFORMANCE SPECIFICATION, AS OUTLINED IN CSA A23.1. THE CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- CONTRACTOR AND CONCRETE SUPPLIER TO ENSURE THAT PLASTIC AND HARDENED MIX PROPERTIES MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE SPECIFIED PERFORMANCE REQUIREMENTS.
- CONCRETE SUPPLIER TO BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO. CEMENT TO BE PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS.
- CONCRETE TO BE NORMAL DENSITY (MIN. 2300 kg/m3) UNLESS NOTED OTHERWISE.
- PROVIDE SUPPLEMENTARY CEMENTITIOUS MATERIALS AND PRODUCTS THAT CONTRIBUTE TO A 20% REDUCTION IN GLOBAL WARMING POTENTIAL (GWP) AGAINST THE LISTED INDUSTRY AVERAGE BENCHMARK GWP IDENTIFIED IN THE INDUSTRY WIDE ENVIRONMENTAL PRODUCTION DECLARATION (EPD). REFER TO THE SPECIFICATIONS FOR DETAILS.
- NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20 UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

L/360 u/n L/480 u/n 12 mm SLABS

10.

11.

12.

13.

15.

4.

7.

11.

COMPRESSIVE SPECIAL REQUIREMENTS & STRENGTH (MPa) EXPOSURE ELEMENT AT 28 DAYS (SEE CLASS REMARKS NOTE #3 BELOW) TS AND OTHER MISCELLANEOUS REINFORCED CONCRETE ELEMENTS IN VEHICLE ACCESSIBLE AREAS (BALUSTRADES, CURBS, ETC) FOR SLABS 125 AND THICKER NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE 40. SLAB-ON-GRADE (HEATED, INTERIOR N-CF CONCRETE COVER NOT TO BE LESS THAN 40 AT RESILIENT FINISHES, USE W/CM <0.45. FOR SLABS 125 AND THICKER, NOMINAL MAXIMUM SIZE OF SLAB-ON-GRADE SIDEWALKS, FROST COARSE AGGREGATE 40 C1 CONCRETE COVER NOT TO BE ESS THAN 60 NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE: 10 FOR NON-STRUCTURAL TOPPINGS, TOPPINGS BETWEEN 25 AND HOUSEKEEPING PADS, FLOATING SLABS 5 THICK, 14 FOR TOPPINGS BETWEEN 35 AND 60 THICK EAN CONCRETE, MUDSLABS

> ISHRINKABLE FILI NOTES:

> > 1. WHERE EXPOSURE CLASS IS NOTED "N / F2", USE "F-2" EXPOSURE CLASS FOR PERIMETER AND EXTERIOR NON-INSULATED ELEMENTS ABOVE THE FROST LINE, AND FOR ELEMENTS IN INTERIOR UNHEATED SPACES, WHICH ARE SUSCEPTIBLE TO FREEZING. USE "N" EXPOSURE CLASS FOR ELEMENTS PROTECTED FROM FREEZING.

0.4 MAX.

2. LIMIT NOMINAL MAXIMUM AGGREGATE SIZE TO 10 FOR COLUMNS WITH SMALLEST DIMENSION LESS THAN 300 AND FOR WALLS LESS THAN 200 THICK 3. WHERE HVSCM (AS DEFINED IN CSA A23.1) OR ANY CLASS "S" EXPOSURE CONCRETE IS USED,

SPECIFIED CONCRETE STRENGTH TO BE ATTAINED AT 56, RATHER THAN AT 28 DAY. MINIMUM DOSAGE OF CORROSION INHIBITOR IS 10L/m3 OF 30% SOLUTION OF CALCIUM NITRITE, AS PER CSA-S413.

REFER TO CSA A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, AIR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY AND ALTERNATE CEMENT TYPES TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS.

WHERE REQUIRED BY SPECIFICATIONS, PROVIDE MINIMUM AMOUNT OF SUPPLEMENTAL CEMENTING MATERIALS SPECIFIED FOR THE OVERALL PROJECT.

DO NOT ADD WATER TO CONCRETE ON SITE. CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5m. CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS.

PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE ALL CONCRETE.

PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING

METHODS IN ACCORDANCE WITH CSA-A23.1.

- DO NOT USE STEEL TROWEL TO FINISH AIR-ENTRAINED CONCRETE. PROVIDE MINIMUM 150 BEARING ON MASONRY WALLS. SUBMIT COMPOSITE LAYOUT DRAWINGS SHOWING SLEEVES AND OPENINGS REQUIRED BY
- ALL TRADES FOR REVIEW BY DCC REPRESENTATIVE. REFER TO TYPICAL DETAILS FOR PLACEMENT GUIDELINES. DO NOT INSTALL ANY SLEEVES OR OPENINGS WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS WITHOUT REVIEW AND ACCEPTANCE BY DCC REPRESENTATIVE 4.
- FOR SLABS TO RECEIVE RESILIENT FLOORING AND OTHER SENSITIVE FLOOR FINISHES, REFER TO SPECIFICATIONS FOR SPECIAL CURING REQUIREMENTS. MONITOR SLAB MOISTURE CONTENT AND DO NOT APPLY FINISHES BEFORE THE MOISTURE CONTENT IS FOUND TO BE WITHIN THE ACCEPTABLE RANGE.

CONCRETE REINFORCEMENT

REINFORCEMENT TO CONFORM TO THE FOLLOWING STANDARDS: DEFORMED BARS - CSA G30.18, GRADE 400R, STAINLESS STEEL BARS - ASTM A955/A955M, GRADE 60 (420 MPA), WELDED WIRE FABRIC - ASTM A1064/A1064M, YIELD STRENGTH 450 MPA, SUPPLIED IN FLAT SHEETS ONLY. ALL REINFORCING BAR SIZES ARE METRIC; "M" IS NOT NECESSARILY MARKED AFTER A BAR SIZE. FOR EXAMPLE, 10-15B NOTED ON PLAN INDICATES 10 BARS OF 15M DIAMETER, PLACED AT BOTTOM. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN TENSION. SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S TENSION LAP SPLICE, OR TO THE LARGER BAR'S TENSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER. WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN COMPRESSION, SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S COMPRESSION LAP SPLICE. OR TO THE LARGER BAR'S COMPRESSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER. LAP WELDED WIRE FABRIC SHEETS BY ONE SPACING OF CROSS WIRES + 50, MEASURED BETWEEN THE OUTERMOST CROSS WIRES IN EACH SHEET.

PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE.

PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER. PLACE WELDED WIRE FABRIC IN SLABS ON GRADE AT 1/3 SLAB THICKNESS BELOW TOP OF SLAB. PROVIDE ADEQUATE CHAIRS TO KEEP IN SPECIFIED POSITION. LIFTING WWF AFTER CONCRETE IS

POURED TO BRING IT IN POSITION IS NOT ACCEPTABLE. ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.

MINIMUM CLEAR SPACING BETWEEN ADJACENT BARS TO BE AT LEAST 1.4 TIMES THE BAR DIAMETER OR 1.4 TIMES THE NOMINAL MAXIMUM SIZE OF THE COARSE AGGREGATE, WHICHEVER IS MORE. NOTES:

"PROTECTED" MEANS IN INTERIOR, CONDITIONED SPACE.

"EXPOSED" MEANS IN UNHEATED SPACE AND/OR EXPOSED TO WATER, WEATHER OR SULPHATES (BUT NOT VEHICLE TRAFFIC). "EXPOSED TO VEHICLE TRAFFIC" MEANS LOCATED WITHIN 1200 FROM VEHICLE ACCESSIBLE 3.

AREAS. 4. COVERS SHOWN ABOVE MEET 2h FIRE RATING REQUIREMENTS; SEE ARCHITECTURAL DRAWINGS FOR AREAS WHICH REQUIRE 3 OR 4 HOUR FIRE RATING AND PROVIDE INCREASED

COVER AS INDICATED ON DRAWINGS. COVERS SHOWN ABOVE ASSUME 20 MAXIMUM NOMINAL SIZE OF CONCRETE AGGREGATE. REFER TO CONCRETE MIX DESIGN TABLE IN CAST-IN-PLACE CONCRETE NOTES FOR CONCRETE WITH LARGER AGGREGATE SIZE, AND INCREASE COVER TO REINFORCING CLOSEST TO THE SURFACE AS INDICATED.

SLABS

UNLESS NOTED OTHERWISE, DO NOT ELIMINATE OR CUT REINFORCEMENT TO ACCOMMODATE MECHANICAL AND ELECTRICAL SLEEVES, OPENINGS OR HARDWARE. SPREAD REINFORCING AROUND SLEEVES.

STRUCTURAL STEEL

CONFORM TO CSA S16. MATERIALS: TO CSA G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES: W, WWF AND S SECTIONS, CHANNELS AND ANGLES: 350W, OR ASTM A992, GRADE 50 (345MPa). USE ONLY ASTM A992 WHERE SPECIFICALLY

	INDICATED ON DRAWINGS.
PLATES, BARS:	300W
HOLLOW STRUCTURAL SECTIONS:	350W (CLASS 'C" OR "H')
PIPE:	ASTM A53, 240W
BOLTS:	ASTM F3125 GRADE A325M, UNLESS NOTED
ANCHOR RODS:	ASTM F1554 GRADE 36

DETAILS ON STRUCTURAL DRAWINGS SHOW DESIGN INTENT. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN, DETAILING, FABRICATION, AND ERECTION REQUIREMENTS.

	CONNECT BEAMS FOR THE FORCE BEAMS FOR THE REACTION DUE TO BEAM IN BENDING, AND CONNECT DUE TO MAXIMUM UNIFORMLY DIS	ES SHOWN; IF NO FORCE IS INDICATED, CONNECT NON COMPOSITE O MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE COMPOSITE BEAMS FOR ONE AND A HALF TIMES THE REACTION TRIBUTED LOAD CAPACITY OF THE NON COMPOSITE SECTION IN		5. 6.	USE POLYPROPYLENE GROUT SCREENS BELOW BOND COURSES AND GROUTED BLOCKS TO ISOLATE GROUT FLOW IN DESIGNATED AREAS. DO NOT USE BUILDING PAPER. PREFILL VOIDS IN MASONRY UNITS RECEIVING POST INSTALLED ANCHORS WITH GROUT	*	Governme of Canada	nt Go du
	BENDING. DO NOT CUT HOLES OR OTHERWIS	SE MODIFY STRUCTURAL MEMBERS ON SITE.		7.	PREFILL VOIDS IN MASONRY UNITS WITH GROUT FOR A MINIMUM DEPTH OF 190 BELOW	LEVEL OF SECU	RITY NIVEAU DE SÉCU UNCLASS NC	JRITÉ DN CLASSIF
	CLEAN SURFACES DOWN TO BARE	E METAL AND APPLY TWO COATS OF ZINC-RICH TOUCH-UP PAINT TO HAS BEEN DAMAGED OR FIELD WELDED		8.	STEEL DECK SUPPORTS, AND 390 FORMED SLAB SUPPORTS.	This design is an instr instrument of service I	ument of service and is protected belongs to the consultant. Co	cted by copyright, co
	PROVIDE 40 MPa NON SHRINK GRO	OUT UNDER BASE PLATES. DO NOT APPLY ANY LOADS TO THE		9.	THICKER WALL. for n FULLY GROUT ALL WALL POCKETS AFTER INSTALLATION OF STEEL BEAMS OR JOISTS.	for the purpose intend not be offered for sale	ed and for a one-time use, on or transfer without the expres	the same site, and s written consent of
	DISTRIBUTE HANGER LOADS FROM FROM STEELWORK UNIFORMLY AL MEMBERS.	M MECHANICAL AND HEAVY ELECTRICAL SERVICES SUSPENDED ONG MEMBERS. ALTERNATE HANGER POSITION ON EITHER SIDE OF		10.	PRIOR TO CONSTRUCTION, PREPARE AND SUBMIT SHOP DRAWINGS FOR REINFORCEMENT IN MASONRY WALLS & LINTELS. INDICATE ALL BAR DIAMETERS, LENGTH, LOCATIONS, DOWELS, CORNER DETAILS, ANCHOR PLATES ETC.	Cette conception est u l'instrument de service y compris les exempla sur le même chantier le consentement écrit	In instrument de service proté de l'expert-conseil appartient ires électroniques, ne peuver et pour le même projet. Ils ne exprès de l'expert-conseil.	gé par le droit d'aut t à ce dernier. Les e nt servir qu'aux fins peuvent être offerts
	CONNECT HANGERS FOR MECHAN ELEMENTS NOT TO CAUSE TWISTIN	IICAL AND ELECTRICAL SERVICES AND OTHER NON STRUCTURAL NG OF STEEL MEMBERS OR EXCESSIVE BENDING OF MEMBER	20.	INSPEC	CTION AND TESTING: CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING AGENCY TO			
	FLANGES. DO NOT APPLY LATERAL LOADS TO	D MEMBERS UNLESS APPROVED BY THE DCC REPRESENTATIVE.			INSPECT MASONRY WORKS AND TO TEST MASONRY MATERIALS TO DETERMINE COMPRESSIVE STRENGTH OF GROUT AND MASONRY UNITS IN ACCORDANCE WITH			
S	ONRY			2.	CAN/CSA-A179. THE AGENCY WILL REVIEW MORTAR BATCHING PROCEDURE TO VERIFY ACCURATE VOLUME	ARC	HITE	
_	CONFORM TO CAN/CSA A371 AND	CSA S304.1.		3.	PROPORTION. THE AGENCY WILL REVIEW REINFORCING AND GROUTING PROCEDURE, INCLUDING LIFT			
	UNLESS OTHERWISE NOTED ON PI	LANS, MATERIALS TO BE:		Δ	HEIGHTS, POSITIONING AND LAPPING OF REINFORCEMENT.			
	HOLLOW BLOCK: CSA A1 MORTAR: CAN/CS	65.1 - H/15/A/M SA-A179 - TYPE S, PROPORTIONED BY VOLUME.		7.	MASONRY GROUT - ONE AT 7 DAYS AND TWO AT 28 DAYS. AT LEAST ONE SET OF CYLINDERS WILL BE MADE EACH DAY THE GROUT IS PLACED.			
	MASONRY GROUT: CAN/CS CEMEI PRF-R	SA-A179, PROPORTIONED BY VOLUME - COARSE GROUT, 1:3:2 - NT: SAND: MAX 9.5 AGGREGATE, OR FINE GROUT, OR APPROVED AGGED MATERIAL		5.	FOR WALLS WITH SPECIFIED COMPRESSIVE STRENGTH OF MASONRY UNITS LARGER THAN 15 MPa. AT LEAST THREE MASONRY UNITS WILL BE TESTED FOR EACH 500 SQUARE METERS			
	MASONRY TIES: HOT DI				OF WALL.			
	NON LOAD-BEARING MASONRY WA	AL AND ARCHITECTURAL) FOR BLOCK SIZES. ALLS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS,	RO		DECK			
	SEE ARCHITECTURAL DRAWINGS.		1. 2.	CONFO STEEL	RM TO CSA S136 FOR STEEL DECKING. DECK MATERIAL: TO ASTM A653/653M OR ASTM A792/792M. GRADE 230.			
	DO NOT USE MORTAR WHERE GRO	DUT IS SPECIFIED.	3.	REQUI	RED DECK DEPTH AND CORE NOMINAL THICKNESS TO MATCH EXISTING; PROVIDE DECK			
	PROVIDE HOT, COLD AND WET WE	ATHER PROTECTION AS REQUIRED BY CAN/CSA-A371.	4.	USE ON	NLY MECHANICAL ROOF DECK FASTENERS. DO NOT USE WELDING OR CLINCHING, EXCEPT IN			
	UNLESS OTHERWISE NOTED, PRO (TO SUIT THE WALL THICKNESS) PE FROM COURSE TO COURSE. CLIP (UNREINFORCED WALLS, IT IS ACCE REINFORCING	VIDE DEFORMED, LADDER TYPE HORIZONTAL JOINT REINFORCING ER ARCHITECTURAL SPECIFICATIONS. STAGGER LAPS MIN. 750 OFF CROSS RODS AT LAPS TO KEEP WIRES IN ONE PLANE. FOR EPTABLE TO USE TRUSS TYPE INSTEAD OF LADDER TYPE JOINT		PROTE	CTED ZONES WHERE ONLY 19 PUDDLE WELDS CAN BE USED.			
	PROVIDE HORIZONTAL JOINT REIN WALL OPENING AND EXTEND 600 E	IFORCING IN THE FIRST TWO BED JOINTS ABOVE AND BELOW EACH BEYOND EACH SIDE OF OPENING.						
	UNLESS OTHERWISE NOTED, USE CORNERS AND INTERSECTIONS.	CORNER TYPE LADDER REINFORCING AT MASONRY WALL						
	UNLESS OTHERWISE NOTED, INTER	RLOCK MASONRY COURSES AT WALL CORNERS.					A-253	
	TOOL JOINTS IN ALL WALLS SHOW FINISHED BUILDING) TO PROVIDE H	N ON STRUCTURAL DRAWINGS (WHETHER EXPOSED OR NOT IN THE HARD, DENSE JOINTS.						A-243
	PROVIDE LATERAL SUPPORT AT TO SRUCTURE, REFER TO TYPICAL DE SPECIFICATIONS. LOCATE MAX 300	OPS OF ALL WALLS WHICH EXTEND TO UNDERSIDE OF ROOF ETAILS TM-LATS-11, TM-LATS-12, AND ARCHITECTURAL) FROM WALL ENDS AND MOVEMENT JOINTS.					- LARDES	
	UNLESS OTHERWISE NOTED, PROV BEARING MASONRY WALLS.	VIDE MINIMUM 25 DEFLECTION GAP AT TOP OF ALL NON LOAD						IANGAR STREET
	PROVIDE TEMPORARY BRACING FO STRUCTURE, WHICH PROVIDES PE	OR LOAD BEARING MASONRY WALLS UNTIL THE SUPPORTED RMANENT BRACING, IS COMPLETED.				<u>SITE PLAN</u>		***/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	1. PROVIDE VERTICAL MOVI INDICATED ON PLANS. CA IMMEDIATELY BELOW FLC JOINTS (WHERE APPLICA HORIZONTAL JOINT REINI	EMENT JOINTS (MJ) IN LOAD BEARING WALLS AT LOCATIONS ARRY HORIZONTAL REINFORCING IN BOND BEAMS LOCATED DOR OR ROOF LEVELS CONTINUOUSLY THROUGH MOVEMENT BLE). DO NOT CARRY ANY OTHER WALL REINFORCING (INCLUDING FORCING) THROUGH MJ					OFESS	SIOAL
	2. PROVIDE VERTICAL MOV	EMENT JOINTS (MJ) IN NON LOAD BEARING MASONRY WALLS AS					SEP AWAY	AL FE
	- WHERE INDICATED C - BETWEEN MASONRY	ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. / WALLS AND ABUTTING COLUMNS OR CONCRETE WALLS.					A. K. (COX
	- AT MAX. 6000 O/C						10014	9981
	BEARING WALLS.	EMENT JOINTS DETWEEN ALL LOAD BEAKING AND NON LOAD					ROVING	CONTARIO
	 UNLESS OTHERWISE NO FILL ALL MOVEMENT JOIN 	TED ON PLANS, MOVEMENT JOINTS TO BE 12mm WIDE.					INCE O	FOR
R	DRAWINGS AND SPECIFIC	CATIONS FOR FIRE STOPPING REQUIREMENTS.						
EF M- EF C	FER TO ARCHITECTURAL DRAWIN -WALL- 14. THE OPENINGS ARE N FER TO ARCHITECTURAL, MECHA FILL MASONRY LINTELS.	NGS AND TYPICAL DETAILS TM-WALL-11, TM-WALL-12 AND IOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, ANICAL AND ELECTRICAL DRAWINGS. USE ONLY FINE GROUT						
EI	NFORCED MASONRY:							
	 SEE PLANS AND DETAILS FOR NON-LOAD BEARING 	FOR STRUCTURAL MASONRY REINFORCING.						
	SEISMIC MASONRY REINF							
	- WHERE 75% SOLID M FULLY GROUTED HO - WHERE ACCOUSTIC SOUND BLOCKS WHI	BLOCK WALLS ARE SHOWN ON ARCHITECTURAL DRAWINGS, USE DLOW MASONRY AS REQUIRED TO ACCOMMODATE REBAR. BLOCK WALLS ARE SHOWN ON ARCHITECTURAL DRAWINGS, USE ICH CAN ACCOMMODATE REBAR; INCREASE THE SPECIFIED WALL				1 2025/03/05		
	3. DO NOT PLACE CONDUIT	S IN, NOR ALLOW OVER-HANGING MORTAR OR DEBRIS INSIDE,				NO. DATE	REVISION	
	4. SPLICES FOR MASONRY	WALL REINFORCING TO BE:			S	SCALE ÉCHELL	= 1000 0 1000 :	2000 3000 4000
	WIRE REINFORCING 10M BARS	300 450				AS NOTED1:100		
	15M BARS 20M BARS	650 900				17 HANG	AR STREET.	• ,
	5. LOCATE VERTICAL BARS POSITION TOP AND BOTT	ACCURATELY WITHIN CELLS AS INDICATED ON DRAWINGS. HOLD IN OM. USE REBAR POSITIONERS AS REQUIRED.				CFB BOR	DEN	
	6. LOCATE TOP / BOTOM HO TOP / UNDERSIDE OF BEA	DRIZONTAL BARS IN MASONRY BEAMS AND LINTELS 50 CLEAR FROM AM.			(ONTARIC)	
	7. EXTEND ALL VERTICAL R	EINFORCING TO WITHIN 50 FROM TOP OF WALL.			F	PROJECT PROJ	ET	
	8. CARRY ALL VERTICAL RE MASONRY LINTELS.	INFORCING CONTINUOUSLY THROUGH BOND BEAMS AND					LVING CON	
	9. PROVIDE VERTICAL DOW UNLESS OTHERWISE NOT	/ELS AT BASE OF WALLS TO MATCH VERTICAL REINFORCING. TED ON DRAWINGS, EMBEDED INTO SLAB 100 MIN.				DEFIC		DUILUI
	10. REINFORCE SIDES OF AL 1-15 VERTICAL, CARRY FI	L WALL OPENINGS EXCEEDING 1000 IN WIDTH WITH ADDITIONAL JLL HEIGHT OF WALL. WHERE STEEL OR PRECAST CONCRETE			Т	TRADE MÉTIER		
	LINTELS ARE USED, OFFS	SET VERTICALS TO CLEAR LINTEL BEARINGS.				STRUCTU	RAL	
	MOVEMENT JOINTS.				S	SUBJECT SUJE	Γ	
	 THE ADDITIONAL REINFO PLANS. UNLESS OTHERWISE NOT 	RCING SPECIFIED IN THE CLAUSES ABOVE IS NOT NOTED ON TED, PROVIDE MIN. 190 DEEP BOND BEAMS AT TOPS OF ALL WALLS					GENERAI	LNOTE
	AND AT MAX. VERTICAL S MASONRY UNITS. REINFO	SPACING OF 2400. CONSTRUCT BOND BEAMS WITH LOW WEB DRCE WITH MIN. 1-15 TOP AND BOTTOM CONTINUOUS AND GROUT						
	14. UNLESS OTHERWISE NOT	TINFURGING AT MASUNRY CORNERS AND INTERSECTIONS. TED, REINFORCE ALL 190 MASONRY WITH 1-15 @ 1200 VERTICAL			F	PRODUCTION DESIGNED ÉTU	REVIEWED DIÉ XX XX	REVU
	2-4.8 DIAMETER WRES LA GROUTED MASONRY:	ADDER-TYPE HORIZONTAL REINFORCING AT 400 CENTRES.			A	A.K.C.	X.X.	
	1. UNLESS MASONRY WALL ONLY CELLS CONTAINING	S ARE NOTED AS "FULLY GROUTED" OR "GROUTED SOLID", GROUT				DRAVVN DESSIN N.C./M.K.		F)
	OR STRAPS, AND OTHER	AREAS SPECIFICALLY INDICATED ON DRAWINGS.				CHECKED VÉRI S.E.F.	FIÉ	
	2. USE 15 MPa MIX TO GROU SLUMP OF 250mm.	UT IN REINFURGED BLUCK CURES. USE 9.5mm AGGREGATE AND A						/ /
	 USE ONLY FINE GROUT T USE LOW LIFT GROUTING 	TO FILL BOND BEAMS.				A.K.U./S.E.F. WBS NO. NO. O		PF NO. NO. D
	DEPARTMENTAL REPRES TERMINATE EACH LIFT 40	ENTATIVE. PLACE GROUT IN LIFTS NOT EXCEEDING 1500 HEIGHT. DELOW TOP OF MASONRY UNIT.				N.700113.	18.05	BN18658
					מו	DWG, NO. I NO. E	ESSIN	

CONNE BEAMS BEAM II DUE TC BENDIN	T BEAMS FOR THE FORCES SHOWN; IF NO FORCE IS INDICATED, CONNECT NON COMPOSITE OR THE REACTION DUE TO MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BENDING, AND CONNECT COMPOSITE BEAMS FOR ONE AND A HALF TIMES THE REACTION MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE NON COMPOSITE SECTION IN 3.		5. 6.	USE POLYPROPYLENE GROUT SCREENS BELOW BOND COURSES AND GROUTED BLOCKS TO ISOLATE GROUT FLOW IN DESIGNATED AREAS. DO NOT USE BUILDING PAPER. PREFILL VOIDS IN MASONRY UNITS RECEIVING POST INSTALLED ANCHORS WITH GROUT EXTENDING MIN. 200 AROUND EACH ANCHOR.			Sovernme of Canada	ent Go a du
DO NO	CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.		7.	PREFILL VOIDS IN MASONRY UNITS WITH GROUT FOR A MINIMUM DEPTH OF 190 BELOW STEEL DECK SUPPORTS, AND 390 FORMED SLAB SUPPORTS.		U	NCLASS NO	ON CLASSIF
CLEAN ANY GA	SURFACES DOWN TO BARE METAL AND APPLY TWO COATS OF ZINC-RICH TOUCH-UP PAINT TO		8.	WHERE MASONRY WALL THICKNESS CHANGES, GROUT SOLID TOP COURSE OF THE	This design is ar instrument of ser	n instrument orvice belongs	of service and is prote to the consultant. Co	ected by copyright, co opies including electi
PROVIE	E 40 MPa NON SHRINK GROUT UNDER BASE PLATES. DO NOT APPLY ANY LOADS TO THE ORK BEFORE GROUT ACHIEVES SUFFICIENT STRENGTH		9.	THICKER WALL. FULLY GROUT ALL WALL POCKETS AFTER INSTALLATION OF STEEL BEAMS OR JOISTS.	not be offered fo	r sale or trans	sfer without the expre	n the same site, and ess written consent o
DISTRIE FROM S MEMBE	UTE HANGER LOADS FROM MECHANICAL AND HEAVY ELECTRICAL SERVICES SUSPENDED TEELWORK UNIFORMLY ALONG MEMBERS. ALTERNATE HANGER POSITION ON EITHER SIDE OF RS.		10.	PRIOR TO CONSTRUCTION, PREPARE AND SUBMIT SHOP DRAWINGS FOR REINFORCEMENT IN MASONRY WALLS & LINTELS. INDICATE ALL BAR DIAMETERS, LENGTH, LOCATIONS, DOWELS, CORNER DETAILS, ANCHOR PLATES ETC.	Cette conceptior l'instrument de s y compris les ex sur le même cha le consentement	n est un instru ervice de l'ex emplaires éle antier et pour : écrit exprès	ument de service prot pert-conseil appartier ectroniques, ne peuve le même projet. Ils ne de l'expert-conseil.	égé par le droit d'aut nt à ce dernier. Les e ent servir qu'aux fins e peuvent être offerts
CONNE ELEMEI	T HANGERS FOR MECHANICAL AND ELECTRICAL SERVICES AND OTHER NON STRUCTURAL TS NOT TO CAUSE TWISTING OF STEEL MEMBERS OR EXCESSIVE BENDING OF MEMBER	20.	INSI 1.	PECTION AND TESTING: CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING AGENCY TO				
DO NOT	5. APPLY LATERAL LOADS TO MEMBERS UNLESS APPROVED BY THE DCC REPRESENTATIVE.			INSPECT MASONRY WORKS AND TO TEST MASONRY MATERIALS TO DETERMINE COMPRESSIVE STRENGTH OF GROUT AND MASONRY UNITS IN ACCORDANCE WITH				
ASONF	Y		2.	THE AGENCY WILL REVIEW MORTAR BATCHING PROCEDURE TO VERIFY ACCURATE VOLUME		CH	IITF	сти
CONFO	TO CAN/CSA A371 AND CSA S304.1.		3.	PROPORTION. THE AGENCY WILL REVIEW REINFORCING AND GROUTING PROCEDURE, INCLUDING LIFT				
UNLES	OTHERWISE NOTED ON PLANS, MATERIALS TO BE:		1	HEIGHTS, POSITIONING AND LAPPING OF REINFORCEMENT.				
HOLLO MORTA	BLOCK: CSA A165.1 - H/15/A/M CAN/CSA-A179 - TYPE S, PROPORTIONED BY VOLUME.		4.	MASONRY GROUT - ONE AT 7 DAYS AND TWO AT 28 DAYS. AT LEAST ONE SET OF CYLINDERS	;			
MASON	Y GROUT: CAN/CSA-A179, PROPORTIONED BY VOLUME - COARSE GROUT, 1:3:2 - CEMENT: SAND: MAX 9.5 AGGREGATE, OR FINE GROUT, OR APPROVED		5.	FOR WALLS WITH SPECIFIED COMPRESSIVE STRENGTH OF MASONRY UNITS LARGER THAN				
MASON	PRE-BAGGED MATERIAL RY TIES: HOT DIP GALVANIZED			OF WALL.				
REFER	O DRAWINGS (STRUCTURAL AND ARCHITECTURAL) FOR BLOCK SIZES.	ROC	OF 8	& DECK				
SEE AR	CHITECTURAL DRAWINGS.	1.	CON	IFORM TO CSA S136 FOR STEEL DECKING.		_		
UNLES	NOTED OTHERWISE, LAY UNITS IN RUNNING BOND. ALL FACE SHELLS TO BE FULLY BEDDED.	2. 3.	REG	EL DECK MATERIAL: TO ASTM A653/653M OR ASTM A792/792M, GRADE 230. QUIRED DECK DEPTH AND CORE NOMINAL THICKNESS TO MATCH EXISTING; PROVIDE DECK				
PROVIE	E HOT, COLD AND WET WEATHER PROTECTION AS REQUIRED BY CAN/CSA-A371.	Δ	PRC	FILE TO MATCH EXISTING.				
UNLES (TO SUI FROM (UNREIN DEINEC	OTHERWISE NOTED, PROVIDE DEFORMED, LADDER TYPE HORIZONTAL JOINT REINFORCING THE WALL THICKNESS) PER ARCHITECTURAL SPECIFICATIONS. STAGGER LAPS MIN. 750 DURSE TO COURSE. CLIP OFF CROSS RODS AT LAPS TO KEEP WIRES IN ONE PLANE. FOR FORCED WALLS, IT IS ACCEPTABLE TO USE TRUSS TYPE INSTEAD OF LADDER TYPE JOINT	4.	PRC	TECTED ZONES WHERE ONLY 19 PUDDLE WELDS CAN BE USED.				
PROVIE WALL C	E HORIZONTAL JOINT REINFORCING IN THE FIRST TWO BED JOINTS ABOVE AND BELOW EACH PENING AND EXTEND 600 BEYOND EACH SIDE OF OPENING.							
UNLESS CORNE	OTHERWISE NOTED, USE CORNER TYPE LADDER REINFORCING AT MASONRY WALL IS AND INTERSECTIONS.							
	OTHERWISE NOTED, INTERLOCK MASONRY COURSES AT WALL CORNERS.						A-253	
FINISHE	D BUILDING) TO PROVIDE HARD, DENSE JOINTS.							
PROVIE SRUCTI SPECIE	E LATERAL SUPPORT AT TOPS OF ALL WALLS WHICH EXTEND TO UNDERSIDE OF ROOF RE, REFER TO TYPICAL DETAILS TM-LATS-11, TM-LATS-12, AND ARCHITECTURAL CATIONS LOCATE MAX 300 FROM WALL ENDS AND MOVEMENT JOINTS							
UNLES	OTHERWISE NOTED, PROVIDE MINIMUM 25 DEFLECTION GAP AT TOP OF ALL NON LOAD					1990	- ANE	TREET
PROVIE	E TEMPORARY WALLS.				SITE PLA	<u>AN</u>		HANGAR
STRUC MOVEN	URE, WHICH PROVIDES PERMANENT BRACING, IS COMPLETED.							
1.	PROVIDE VERTICAL MOVEMENT JOINTS (MJ) IN LOAD BEARING WALLS AT LOCATIONS							
	INDICATED ON PLANS. CARRY HORIZONTAL REINFORCING IN BOND BEAMS LOCATED IMMEDIATELY BELOW FLOOR OR ROOF LEVELS CONTINUOUSLY THROUGH MOVEMENT JOINTS (WHERE APPLICABLE). DO NOT CARRY ANY OTHER WALL REINFORCING (INCLUDING HORIZONTAL JOINT REINFORCING) THROUGH MJ.						PROFES	SIONAL
2.	PROVIDE VERTICAL MOVEMENT JOINTS (MJ) IN NON LOAD BEARING MASONRY WALLS AS FOLLOWS:						2 Ant	mp. Se
	 WHERE INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. BETWEEN MASONRY WALLS AND ABUTTING COLUMNS OR CONCRETE WALLS. 						A.K.	COX 19981
3.	PROVIDE VERTICAL MOVEMENT JOINTS BETWEEN ALL LOAD BEARING AND NON LOAD						2025-	03-04
4.	BEARING WALLS. UNLESS OTHERWISE NOTED ON PLANS, MOVEMENT JOINTS TO BE 12mm WIDE.						POVINCE	OF ONTARIE
5.	FILL ALL MOVEMENT JOINTS WITH COMPRESSIBLE MATERIAL; SEE ARCHITECTURAL							
PROVIDE S	ANDARD LINTELS OVER ALL OPENINGS IN NON-LOAD BEARING MASONRY WALLS,							
TM-WALL- 1	RCHITECTURAL DRAWINGS AND TYPICAL DETAILS TM-WALL-11, TM-WALL-12 AND 4. THE OPENINGS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS,							
TO FILL MA	SONRY LINTELS.							
REINFORCE) MASONRY: SEE PLANS AND DETAILS FOR STRUCTURAL MASONRY REINFORCING							
2.	FOR NON-LOAD BEARING MASONRY, SEE TYPICAL DETAIL TM-WALL-01 FOR MINIMUM							
	- WHERE 75% SOLID MASONRY WALLS ARE SHOWN ON ARCHITECTURAL DRAWINGS, USE							
	 FULLY GROUTED HOLLOW MASONRY AS REQUIRED TO ACCOMMODATE REBAR. WHERE ACCOUSTIC BLOCK WALLS ARE SHOWN ON ARCHITECTURAL DRAWINGS, USE 							
	SOUND BLOCKS WHICH CAN ACCOMMODATE REBAR; INCREASE THE SPECIFIED WALL THICKNESS IF REQUIRED.				1 2025/0	3/05 1	00% SUBMISSIC	ON - ISSUED FOR
3.	DO NOT PLACE CONDUITS IN, NOR ALLOW OVER-HANGING MORTAR OR DEBRIS INSIDE, MASONRY CELLS TO BE REINFORCED.				NO. DATE	F	REVISION	
4.	SPLICES FOR MASONRY WALL REINFORCING TO BE: WIRE REINFORCING 300				AS NOTED1:	100		2000 3000 400
	10M BARS 450 15M BARS 650				LOCATION I	EMPLACE		
5	20M BARS 900 LOCATE VERTICAL BARS ACCURATELY WITHIN CELLS AS INDICATED ON DRAWINGS HOLD IN						STREET	•,
0.	POSITION TOP AND BOTTOM. USE REBAR POSITIONERS AS REQUIRED.						IN	
б.	LOCATE TOP / BOTOM HORIZONTAL BARS IN MASONRY BEAMS AND LINTELS 50 CLEAR FROM TOP / UNDERSIDE OF BEAM.					ROJET		
7. 8.	EXTEND ALL VERTICAL REINFORCING TO WITHIN 50 FROM TOP OF WALL.							
۵	MASONRY LINTELS.						NCIES IN	
J.	UNLESS OTHERWISE NOTED ON DRAWINGS, EMBEDED INTO SLAB 100 MIN.					~ • ••• •		
10.	REINFORCE SIDES OF ALL WALL OPENINGS EXCEEDING 1000 IN WIDTH WITH ADDITIONAL 1-15 VERTICAL CARRY FULL HEIGHT OF WALL. WHERE STEEL OR PRECAST CONCRETE LINTELS ARE LISED OFFSET VERTICALS TO CLEAR LINTEL PEADINGS							
11.	UNLESS OTHERWISE NOTED, ADD 1-15 VERTICAL AT WALL ENDS, AND AT EACH SIDE OF				SUBJECTIO		-	
12.	MOVEMENT JOINTS. THE ADDITIONAL REINFORCING SPECIFIED IN THE CLAUSES ABOVE IS NOT NOTED ON							
13.	PLANS. UNLESS OTHERWISE NOTED, PROVIDE MIN. 190 DEEP BOND BEAMS AT TOPS OF ALL WALLS AND AT MAX, VERTICAL SPACING OF 2400, CONSTRUCT POND BEAMS MUTH LOW MED					C	JENERA	L NOTE
	MASONRY UNITS. REINFORCE WITH MIN. 1-15 TOP AND BOTTOM CONTINUOUS AND GROUT SOLID. BEND AND LAP REINFORCING AT MASONRY CORNERS AND INTERSECTIONS						 	
14.	UNLESS OTHERWISE NOTED, REINFORCE ALL 190 MASONRY WITH 1-15 @ 1200 VERTICAL 2-4 8 DIAMETER WRES LADDER-TYPE HORIZONTAL REINFORCING AT 400 CENTRES				PRODUCTIO	N ÉTUDIÉ	XX XX	
GROUT	D MASONRY:				A.K.C.	SSINÉ	X.X.	
1.	UNLESS MASONRY WALLS ARE NOTED AS "FULLY GROUTED" OR "GROUTED SOLID", GROUT ONLY CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCEMENT AND ANCHOR RODS				N.C./M.K.	_		
2	OR STRAPS, AND OTHER AREAS SPECIFICALLY INDICATED ON DRAWINGS.				CHECKED \ S.E.F.	/ERIFIÊ		
<u>.</u>	SLUMP OF 250mm.					ION		F
3. 4.	USE UNLT FINE GROUT TO FILL BOND BEAMS. USE LOW LIFT GROUTING PROCEDURE UNLESS OTHERWISE APPROVED IN WRITING BY THE				WBS NO. NO	D. OTP		PF NO. NO. D
	DEPARTMENTAL REPRESENTATIVE. PLACE GROUT IN LIFTS NOT EXCEEDING 1500 HEIGHT. TERMINATE EACH LIFT 40 BELOW TOP OF MASONRY UNIT.				N.70011	3.18.0	15	BN18658

Canadä





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3. AT SLABS MINIMUM 125 THICK , 10M RDA EMBEDDED MIN 100 DEEP (WITH HOOK AT TOP) CAN BE USED INSTEAD OF

THE SPECIFIED DOWELS REINFORCING SHOWN IS THE MINIMUM REQUIREMENT; COORDINATE WITH SEISMIC RESTRAINT DESIGN AND INCREASE IF REQUIRE UNLESS THE PAD ITSELF IS SUFFICIENT TO RESIST ALL THE LOAD IMPOSED TO IT BY SEISMIC RESTRAINT ELEMENTS WITHOUT RELYING ON BASE SLAB, EXTEND ALL THE ANCHORAGE INTO THE BASE SLAB AND NEGLECT THE PORTION OF THE ANCHORS

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Canadä

LEGEND			
(A2)	GRID DESTINATION		EXISTING BULKHEAD BE DEMOLISHED
ROOM [XXX]	ROOM NAME ROOM NUMBER		EXISTING FLUORES LIGHT FIXTURE TO BE REMOVED*
D-XXX	D = DOOR (XX = DOOR NUMBER		EXISTING INCANDES
W-XXX — X	W = WINDOW XX = WINDOW NUMBER	لا کا لا کا	EXISTING AIR DIFFU TO BE REMOVED*
PX	PARTITION TYPE	$\langle \rangle$	EXISTING FAN TO BE REMOVED*
	BUILDING ELEVATION NUMBER		EXISTING AIR RETUR BE REMOVED*
		%	EXISTING SPRINKLE HEAD TO BE REMOV
	SHEET NUMBER	tf	
	DRAWING NUMBER SHEET NUMBER	۳ 	NEW PARTITION
C SIM.	TYPICAL/SIMILAR CONFIGURATION	D000	NEW DOOR AND FRA WITH DOOR NUMBER
G.B. X'-X"	CEILING FINISH CEILING HEIGHT	Ē	NEW SINK*
	ELEVATION		NEW TOILET*
1	DRAWING NUMBER	Ø	NEW URINAL*
4 AXXX 2 TYP	SHEET NUMBER TYPICAL/SIMILAR CONFIGURATION		NEW SHOWER*
	EXISTING AREA / CONSTRUCTION	66 T.P.D.	TOILET PAPER DISP
	EXISTING MAIN SANITARY LINE*	S.N.D.	SANITARY NAPKIN D
	EXISTING DOOR AND FRAME TO REMAIN.	P.T.D.	PAPER TOWEL DISP
	EXISTING TOILET TO BE REMAIN	MIR.	MIRROR
•	EXISTING SINK TO BE REMAIN	s.D.	SOAP DISPENSER
	EXISTING SURFACE MOUNTED	Č.H.	COAT HOOK
	FLUORESCENT LIGHT FIXTURE TO REMAIN*	T.B.	TOWEL BAR
	EXISTING AIR DIFFUSER TO REMAIN*	FD CO	FLOOR DRAIN CLEAN OUT
	EXISTING AIR RETURN TO REMAIN*		NEW GYPSUM BOAR CEILING
0	NEW SPRINKLER HEAD*		NEW LAY-IN CEILING
	EXISTING TO REMAIN*	AD.	ACCESS DOOR
	FRAME TO BE REMOVED. EXISTING PARTITION TO		NEW RECESSED FLU LIGHT FIXTURE*
	BE REMOVED.		
U) (Y)	DEMOLISHED*	$\boxtimes \bigotimes$	NEW AIR SUPPLY*
₽ ₽	DEMOLISHED*	$\square \bigcirc$	NEW AIR RETURN*
(ر) ه = م	TO BE DEMOLISHED*	_	NEW EXHAUST FAN*
		00	NEW POT LIGHT*
_ = = ≜	EXISTING EYE WASH STATION	●⊗⊂ (1)	NEW SPRINKLER HE
+ + + +	LAY-IN CEILING TO BE REMOVED	ب	MOVABLE FURNITUF

* REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON THESE ITEMS

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- CONTRACTOR CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK. REPORT TO CONSULTANT ANY DISCREPANCIES.
- REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE of Work. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, SUCH AS THE LATEST EDITIONS OF:
- .1 NATIONAL BUILDING CODE OF CANADA (NBCC);
- .2 NFPA 13 (FIRE PROTECTION SPRINKLERS)
- .3 TSSA (TECHNICAL STANDARDS AND SAFETY ASSOCIATION) .4 ULC & CSA/CAN INSTRUCTIONS & REQUIREMENT.
- CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY
- CODE AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF
- CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. THE WORD "PROVIDE" SHALL MEAN "SUPPLY & INSTALL". CONTRACTOR SHALL PROVIDE ALL •
- REQUIRED EQUIPMENT AND PARTS. • IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL RELEVANT DIMENSIONS AND MATERIALS ON SITE AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
- DO NOT SCALE DRAWINGS.
- THIS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INSPECTIONS AND
- APPROVALS AS WELL AS ASSOCIATED COSTS.
- CONTRACTORS SHALL PROVIDE SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATION SECTION 01 33 00.
- REFER TO DESIGNATED SUBSTANCE REPORTS FOR INFORMATION RELATED TO HAZARDOUS
- MATERIALS. PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE • INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS FIRE RATING AS PER FIRE RATING PLAN AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. REFER TO MECHANICAL AND ELECTRICAL.
- PATCH AND REFINISH ALL WALLS AND CEILINGS AFTER DEMOLISHING EXISTING MECHANICAL AND ELECTRICAL ITEMS. PAINT AFFECTED AREAS UP TO NEAREST WALL CORNER. REFER TO MECHANICAL AND ELECTRICAL. PAINT COLOURS ARE TO MATCH EXISTING ADJACENT COLOURS. OR TO BE SELECTED BY DCC REPRESENTATIVE.
- PAINT ALL NEW GYPSUM BOARD WALLS AND CEILINGS. PAINT COLOUR IS TO BE SELECTED BY DCC REPRESENTATIVE.

FIRE PLAN NOTES

- 1. 1 HR. FIRE RATED WALL
- 2. 2 HR. FIRE RATED WALL 3. 4 HR. FIRE RATED WALL/DOOR

		E1	\mathbf{r}	
	EXISTING FLUORESCENT LIGHT FIXTURE TO BE REMOVED*		50 240	
		INTERI	OR PAF	RTITIONS
	EXISTING AIR DIFFUSER TO BE REMOVED*	P1	124	
	EXISTING FAN TO BE REMOVED*			
	EXISTING AIR RETURN TO BE REMOVED*	P2	8	
	EXISTING SPRINKLER HEAD TO BE REMOVED*		*	
	EXISTING EMERGENCY LIGHTING TO BE REMOVED*	P3	8	
	WITH DOOR NUMBER	P4	108	
	NEW SINK*	DE	NC	T LISED
	NEW TOILET*	[23]		
	NEW URINAL*	P6	NC	T USED
	NEW SHOWER*		\$	
	TOILET PAPER DISPENSER	P13	184	
	SANITARY NAPKIN DISPOSAL	RATED	PARTIC	ONS
	PAPER TOWEL DISPENSER	P6A	\mathbf{r}	
	MIRROR	<u> </u>	190	
	SOAP DISPENSER		<u> </u>	
	COAT HOOK	P7		
	TOWEL BAR		356	
	FLOOR DRAIN		*	The Britshold Press, or Charles Service
	CLEAN OUT NEW GYPSUM BOARD	P8		
	CEILING		358	
	NEW LAY-IN CEILING		Ļ	
	ACCESS DOOR	P8A	ST	-
	NEW RECESSED FLUORESCENT			
	LIGHT FIXTURE [*]		168	
)	NEW AIR SUPPLY*	P9	184	- <u> </u>
)	NEW AIR RETURN*		` \ _	
	NEW EXHAUST FAN*			
	NEW POT LIGHT*			
	NEW SPRINKLER HEAD*	P10	ر يد ا	
	MOVABLE FURNITURE		ĬX,	_
	N.I.C.		320	ΓΓ
IT	EMS		*	
		P11		
D	IMENSIONS BEFORE		5	
F	DR COMPLETE SCOPE			
ΉE	E LATEST EDITIONS OF:	P11A	140	
			216	
IS			06	
IC S TO	HON. IN CASE OF SHALL APPLY. R SHALL PROVIDE ALL		čí L	
			┣	- ~~~~~~
טי		[[]	190	

WALL ASSEMBLIES

EXTERIOR PARTITIONS

EXISTING BULKHEAD TO

ASSEMBLIES		AcronymDe	efinition
RIOR PARTITIONS		A/C	Air Conditioning
<u> </u>		ACT	Acoustic Ceiling Tile
	140mm CONCRETE BLOCK	AD	Access Door
8 XXXXX		ADJ	Adjustable
	100mm SEMI-RIGID INSULATION	AFF	Above Finished Floor
	JUNIN FRE-FINISHED WE TAE SIDING	ALUM	Aluminum
•			Anodized
RIOR PARTITIONS			Approximate
			Architectural
	WALL FINISH		Air/vapour Barrier
	16mm MOISTURE RESISTANT GYP. BD.	BLDG	Building
`	92mm METAL STUDS @ 406mm O.C.	BLEG	Blocking
	16mm MOISTURE RESISTANT GYP. BD.	BLILK	Bulkhead
	WALL FINISH	C/C	Contractor Supplied, Contractor Installed,
	WALL FINISH	C/W	Complete With
	16mm GYPSUM BOARD	CBU	Cementitious Backer Unit
	64mm METAL STUDS @ 406mm O.C.	СН	Coat Hook
	16mm GYPSUM BOARD	CL	Centreline
	WALL FINISH	CLG	Ceiling
	WALL FINISH	CLR	Clear Finish
∞↓ L L	16mm GYPSUM BOARD	CLT	Closet
	64mm METAL STUDS @ 406mm O.C.	CMC	Calculation of Small Colour Differences for Acceptabi
		CMU	Concrete Masonry Unit
A manufacture for the state		CO	Clean Out
		COL	Column
`\	16mm MUISTURE RESISTANT GYP. BD.	CONC	Concrete
	9211111 METAL 310D3 @ 40011111 0.0.	CONT	Continuous
		CORR	Corridor
NOT USED		CT	Ceramic Tile
		CUPBD	Cupboard
		DEPI	Department
NOT USED			Detall
			Division
			Down
		DWG	Drawing
	16mm MOISTURE RESISTANT GYP. BD.	(F)	Existing
84	152mm METAL STUDS @ 406mm O.C.	(L) FLFC	Electric
	16mm MOISTURE RESISTANT GYP. BD.	FLEV	Elevation
· ·		EMERG	Emergency
D PARTIONS		EOUIP	Equipment
		EXIST	Existing
		EXT	Exterior
$\sum X X X X X X$	190 SPLIT FACE ARCHITECTURAL CONCRETE BLOCK	FD	Floor Drain
	UP TO 3000mm A.F.F. / PLAIN BLOCK ABOVE	FIN	Finished
	(1 HR. F.R.R.)	FIXT	Fixture
Ň		FL	Floor
		FRR	Fire Resistance Rating
$\mathbf{h} \sim \mathbf{h}$	190 CONCRETE BLOCK (PAINTED)	GB	Gypsum Board
	UP TO 3000mm A.F.F. / PLAIN BLOCK ABOVE	GL	Glass/Glazing
	152mm METAL STUDS @ 406mm O.C.	GRD	Ground
	16mm MOISTURE RESISTANT TYPE "X" GYP. BD.	НМ	Hollow Metal (Doors)
	WALL FINISH	HSD	Hand Sanitizer Dispenser
The second second second	(1 HR. F.R.R.)	HVAC	Heating, Ventilation, and Air Conditioning
		INCL	Including
\mathbf{h}	100 SPLIT FACE ARCHITECTURAL CONCRETE BLOCK	INS	Insulation
	LIP TO 3000mm & F.F. / PLAIN BLOCK ABOVE	INT	Interior
	152mm METAL STUDS @ 406mm O C	JAN	Janitor's Closet
	16mm MOISTURE RESISTANT TYPE "X" GYP_BD	LAV	Lavatory
	WALL FINISH	LH	Left Hand
	(1 HR, F.R.R.)	MAX	Maximum
		MECH	Mechanical
		MEZZ	Mezzanine
	EXISTING WALL CONSTRUCTION	MIN	Minimum
XIX	152mm METAL STUDS @ 406mm O.C.	MIR	Mirror
╨╅╴╶┍╴╴╴┍╴	16mm MOISTURE RESISTANT TYPE "X" GYP. BD.	ND	Napkin Disposal Unit
68	WALL FINISH	NIC	Not In Contract
	(1 HR. F.R.R.)	NO.	Number
		NTS	Not To Scale
•		0.C	On Centre
	16mm MOISTURE RESISTANT TYPE "X" GYP. BD.	O/C	On Centre
	152mm METAL STUDS @ 406mm O.C.	PLAM	Plastic Laminate
North Contraction Contraction	16mm MOISTURE RESISTANT TYPE "X" GYP. BD.	PLYWD	Plywood
	(1 HR. F.R.R.)	PREFAB	Prefabricated
		PREFIN	Prefinished
	NOTE: PARTITION TO BE INSTALLED FROM TOP OF	PI	Paint Danas Taural Diseasa
	CAISTING WALL/WEZZAININE FLOOK TO UNDERSIDE OF		raper rower Dispenser Resilient Pasa
			Roof Drain
			Revision
		RH	Right Hand
X	EAISTING WALL CONSTRUCTION 152mm MECHANICAL CHASE	RM	Room
	152mm METAL STLIDS @ 106mm 0 0	SAN	Sanitary
0	16mm MOISTURE RESISTANT GYP_BD	SC	Solid Core
		SCTR	Shower Track And Curtain
		SD	Soap Dispenser
A CONTRACTOR CONTRACTOR		SHV	Sheet Vinyl
		SIM	Similar
		SND	Sanitary Napkin Disposal
	290mm CONCRETE BLOCK (75% SOLID - PAINTED)	SPEC	Specification
	VERTICALLY REINFORCED WITH 15M @ 1200 O/C	SPR	Sprinkler
× × × × × × × × × × × × × × × × × × ×	(4 HR. F.R.R.)	SQ	Square
		SS	Stainless Steel
· · · · · · · · · · · · · · · · · · ·		ST	Street
		STL	Steel
	140MM CONCRETE BLOCK	STRUCT	Structural
ž XXXX	216MM AIR SPACE	SUSP	Suspended
$\mathbf{k} \times \times \times \times \times \times$	290mm CONCRETE BLOCK (75% SOLID - PAINTED)	TDL	Towel Disposal
216	VERTICALLY REINFORCED WITH 15M @ 1200 O/C	TEMP	Temporary
	(4 HR. F.R.R.) (TO MATCH EXISTING)	TTD	Toilet Tissue Dispenser
	. , , , , , , ,	TWB	Towel Bar
s XXXX		ТҮР	Typical
й XXXXX й		U/S	Underside
		UNO	Unless Noted Otherwise
· · · · · · · · · · · · · · · · · · ·		VB	Vapour Barrier
		VERT	Vertical
$\blacktriangleright \qquad \qquad$	190mm CONCRETE BLOCK (75% SOLID - PAINTED)	VEST	Vestibule
8 XXXX	VERTICALLY REINFORCED WITH 15M @ 1200 O/C	WC	Water Closet
	(1 HR. F.R.R.)	WD	Wood
$\mathbf{+} \mathbf{\times} \mathbf{\times} \mathbf{\times} \mathbf{\times} \mathbf{\times} \mathbf{\times} \mathbf{\times} \times$	······································	WHMIS	Workplace Hazardous Materials Information System
		WR	Washroom
$\mathbf{h}_{\mathbf{x} \times \mathbf{x} \times \mathbf{x} \times \mathbf{x}}$		WRC	Waste Receptacle
		-	
<u>→</u> → → × × ×			

FIRE RATING LEGEND

WALL.

P12A

C1

NOTES:

RATED CEILINGS

WHERE NOTED

ADDITIONAL INFORMATION.

****	1 HOUR RATED WALL
	2 HOUR RATED WALL

92mm CH STEEL STUD

16mm (X2) GYPSUM BOARD

150MM C-CHANNEL

2 HOUR RATED WALL
4 HOUR RATED WALL

REFER TO FINISH PLAN FOR WALL FINISHES

\triangle	
Ψ	

50mm MINERAL WOOL INSULATION 25mm GYPSUM BOARD LINER PANEL

(ASSEMBLY TO MEET ULC NO. 1515, MIN.1 HR. F.R.R.)

1. ALL PARTITION WALLS GO TO UNDER SIDE OF STRUCTURE DECK EXCEPT

3. ON WALLS WHERE CERAMIC TILE ARE TO BE INSTALLED. GYP. BD. IS TO BE REPLACED BY TILE BACKER BOARD. REFER TO SPECIFICATIONS FOR

4. ALL NOTED SHAFT PARTITIONS INDICATED IN ELEVATIONS AND SECTIONS TO BE FINISHED ON THE TOP WITH GYPSUM BOARD TO MATCH PARTITION CONSTRUCTION. GYPSUM BOARD AND STUD FRAMING TO TERMINATE AND

COVER SHAFT SPACING BACK TO CONCRETE BLOCK WALL OR EXTERIOR

	ONT NAT	TARIO TONAL	BUIL BUI	DIN LDIN	G CC IG C)DE ODE	/ E INI	=0	RI
	CERTIFIC	ATE OF PRACT	ICF NO ·	ţ	5312				
	02		CEB B(ΙΤΔΜΙΝΙΔ		DEEK
	NAME OF	PROJECT:							
	LOCATIO	N: 17	HANGAR	STREET, E	30RDEN, C	N.			
ITEM	0	NTARIO BUILDII	NG CODE			<u>3 & 9</u>			
1	Р	ROJECT DESCR	(IPTION:	AN	ID MECHAI	NICAL MOE	DIFICATI	ONS	
		NEW ADDITION ALTERATION			CHANGE	OF USE			
2	MAJOR OCC	UPANCY(S):		G	ROUP F3		GROUP	F1 - M	INOF
3A	BUILDING AF	REA		EXIST:	1,820 m ²	ľ	NEW:	NA	TO
4	GROSS ARE	A		EXIST:	1,985 m²	1	NEW:	NA	TO
5	NUMBER OF	STOREYS	2	ABOVE	GRADE:	2	2		BE
6	NUMBER OF	STREETS / FIRE	EFIGHTE	R ACCESS:			2		
/		ASSIFICATION:		3.2.2.23. 0	SROUP A2,	UP 1025			
0	PROPOS	ED						SEMEN LIEU OF T REQ	IT ON F RO UIRE
9	STANDPI	PE REQUIRED					YE:	3	
10	FIRE ALA	RM REQUIRED						3	
11	WATER S	SERVICE / SUPP	LY IS ADE	QUATE				3	
12									
10	ACTUAL	CONSTRUCTION	N		COMBUSTI	BLE		N-COM	IBSU
14	MEZZANINE	(S) AREA (m ²)		EXIS	TING: ()m²	NEW:	0)m²
15	OCCU	PANT LOAD BAS	SED ON	[∃ m²/PE	RSON	🛛 DE	SIGN (OF BI
	1st FL0 2nd FL	oor: Oor:		000 000	UPANCY UPANCY	A2 A2	LO/ LO/	4D 1 4D 1	95 7
16	BARRIEF	R-FREE DESIGN] YES		NO NO	(EXPL	AIN)
17	HAZARD		ES		YES				0TEE
18	REQUIRE	D FIRE		FRR (ZONTAL A: (HOURS)	SSEMBLIE: N/A	5	DE	ESCF
	(FRR)			FLOC	RS:	2 HRS.			
				ROOF ME77	-: 'ANINE'	0 MIN N/A			
				FRR	OF SUPPO	RTING		LIS	STED
				MEME FLOC	BERS DRS:	N/A		DE	ESCF
				ROOF	=:	N/A			
				MEZZ	ANINE:	N/A			
19	\\/ATT								<u>א R</u> W ח
	VVALL	EBF(m ²)	(m)	H/L	MAX OPE	(. % OF NINGS	% O	F F NINGS	8
REAR	NORTH		NO C	HANGE					
FRONT	SOUTH		NO C	HANGE					
STREET	EAST		NO C	HANGE					
SIDE YARD	WEST		NO C	HANGE					

2 CODE MATRIX 300 SCALE:

		A Olg	SSOCCA				
MATION	AUSTIN SCOTT DURBIN LICENCE A243 GOLUNN 67 CONTAMINATION						
	THE ARCHITECT & SE RESPONSIBLE CONTRO THE ARCHITECT'S SE	CAL IN THE DL WITH RI EAL NUMBE	TITLE BLOCK HA	S EXERCISED GN ACTIVITIES. FECT'S BCDN.			
	O.B.C REFERENCE		N.B.C. REFERENC	E			
	PART 3		PART 3				
	1.1.2.[A]		1.1.2.[A]				
ROCCUPANCY	3.1.2.1.(1)		3.1.2.1.(1)				
TAL: 1,820 m²	1.4.1.2.[A]		1.4.1.2.[A]				
TAL: 1,985 m²	1.4.1.2.[A]		1.4.1.2.[A]				
LOW GRADE: 0	1.4.1.2.[A] & 3.2.1.1.		1.4.1.2.[A] & 3.2	2.1.1.			
	3.2.2.62		3.2.2.61				
RED	3.2.2.72,		3.2.2.61				
ING	3.2.2.2083		3.2.2.2083				
NLY OF RATING D	3.2.1.5 3.2.2.17 INDEX		3.2.1.5 3.2.2.17 INDEX				
<u> </u>	3.2.9		3.2.5.8				
	3.2.4		3.2.4				
LI NO	3.2.5.7		3.2.5.7				
	3.2.6		3.2.6				
TIBLE UBOTH TIBLE DBOTH	3.2.2.2083		3.2.2.2083				
	3.2.1.1.(4)		3.2.1.1.(4)				
JILDING PERSONS PERSONS	3.1.17		3.1.17				
9.5.2.1(2)	3.8		3.8				
	3.3.1.2 & 3.3.1.19		3.3.1.2 & 3.3.1.	20			
) DESIGN No. OR RIPTION (SG-2)	3.2.2.2083 & 3.2.1.4 3.2.2.64		3.2.2.2083 & 3.2.1.4 3.2.2.64				
DESIGN No. OR RIPTION (SG-2)							
ALLS	3.2.3		3.2.3				
FRR (HOURS) LISTED DESIGN OR DESCRIPTION	NON COMB. CONST. NON COMB. CLADDING	NON (NON (CLAD	COMB. CONST. COMB. DING	NON-COMB. CONST.			
	1			1			

GENERAL DEMOLITION NOTES

REMOVE ENTIRE HEIGHT OF PARTITION WHERE DEMOLITION IS INDICATED. ADDITIONAL WORK NOT INDICATED ON THIS DRAWING MAY BE REQUIRED. COORDINATE ALL DEMOLITION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF WORK. (REMOVALS,

- REINSTATEMENT AND NEW WALLS). THOROUGHLY INSPECT ALL AREAS TO REMAIN. PATCH AND REPAIR ANY VISIBLE DAMAGE. NEW FINISH TO MATCH EXISTING ADJACENT SURFACE UNLESS NOTED OTHERWISE.
- PROTECT ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT TO REMAIN. ALL EXISTING FIRE SEPARATIONS TO BE MAINTAINED. INFILL NEW/EXISTING PENETRATIONS TO ACHIEVE CONTINUOUS RATING. CONTRACTOR TO INCLUDE A QUANTITY OF 1.5 SM. OF TOTAL AREA FOR PATCHING TO BE CONDUCTED IN 7 LOCATIONS. INCLUDE COST WITHIN CONSTRUCTION PRICE.
- ALL SLABS SHALL BE SCANNED PRIOR TO CUTTING, CORING & DETAILING. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL SWITCH AND OUTLETS LOCATION. PATCH AND REPAIR EXISTING WALL AFFECTED BY THE INSTALLATION OF OUTLETS AND SWITCHES. NEW SURFACE TO MATCH EXISTING ADJACENT SURFACES. PATCH AND REPAIR ALL SURFACES AFFECTED DURING DEMOLITION. NEW FINISH TO MATCH
- ADJACENT SURFACE 10. PAINT ALL EXISTING WALLS, DOORS & FRAMES TO REMAIN WITHIN THE SCOPE OF WORK TO MATCH EXISTING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING WALLS AND WINDOWS BEFORE PROCEEDING WITH ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO DCC REPRESENTATIVE. 12. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL REMOVED MATERIALS, UNLESS
- NOTED OTHERWISE. 13. CONTRACTOR TO PATCH WALLS AT ALL REMOVALS OF ANY ELECTRICAL/FIRE ALARM CONTROLS AND/OR PANELS. REPAIR TO MATCH EXISTING IUN TEXTURE, COLOUR AND FIRE RATING
- 14. UNLESS NOTED OTHERWISE, DEMOLITION OF WALLS TO EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE, APPROXIMATELY 6680MM HIGH.

DEMOLITION NOTES

- REMOVE EXISTING SHOWER STALLS C/W PARTITIONS AND ACCESSORIES. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 2. REMOVE EXISTING WALL MOUNTED MILLWORK C/W ALL ASSOCIATED BASES & SUPPORT
- PATCH & PAINT ALL SURFACES TO REMAIN MATCH EXISTING ADJACENT ONES. REMOVE EXISTING SHOWER CURTAIN ROD
- REMOVE EXISTING VERTICAL BLINDS C/W MOUNTING TRACKS. REMOVE EXISTING FLOOR MOUNTED DOOR STOP. PATCH VOIDS W/ SELF LEVELING
- CEMENTITIOUS COMPOUND. PREP FOR NEW FLOOR FINISH AS PER MANUFACTURER'S RECOMMENDATIONS. EXISTING SHEET VINYL FLOORING AND BASE TO BE REMOVED. CHIP/GRIND SMOOTH SLAB & PATCH VOIDS W/ SELF LEVELING CEMENTITIOUS COMPOUND. PREP FOR NEW FLOOR
- FINISH AS PER MANUFACTURER'S RECOMMENDATIONS & REPAIR ADJACENT AFFECTED AREAS TO MATCH EXISTING. (APPROX. 57 M²). REFER TO FINISH PLAN. REMOVE ALL WALL MOUNTED ACCESSORIES (MIRRORS, SOAP DISPENSERS, HAND SANITIZER, PAPER TOWEL DISPENSER). PATCH & PAINT ALL SURFACES TO REMAIN MATCH
- FXISTING REMOVE EXISTING PRIVACY METAL DIVIDER. REMOVE EXISTING WALL HOOKS. PATCH & PAINT WALL TO REMAIN MATCH EXISTING
- ADJACENT SURFACE. 10. REMOVE PORTION OF CONCRETE MASONRY WALL SIMILAR TO P12 CONSTRUCTION UP TO +/-2200 mm. A.F.F. COORDINATE HEIGHT OF REMOVALS WITH NEW STRUCTURAL LINTEL & HEIGHT OF NEW AIR SHOWER TO BE INSTALLED. PATCH & PAINT TO MATCH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 11. NOT USED.
- 12. REMOVE EXISTING WASHROOM PARTITIONS. PATCH & PAINT WALLS TO REMAIN TO MATCH EXISTING ADJACENT WALLS. REMOVE EXISTING WALL MOUNTED FIRST AID KIT, FIRE EXTINGUISHER AND SIGNAGE AND RETURN TO DCC REPRESENTATIVE . PATCH & PAINT WALLS TO MATCH EXISTING
- ADJACENT WALLS. 14. REMOVE EXISTING WALL MOUNTED ACCESSORIES (IE. FOLDER HOLDER AND DISPENSERS) AND RETURN TO DCC REPRESENTATIVE. PATCH & PAINT WALLS TO MATCH EXISTING ADJACENT WALLS.
- 15. REMOVE EXISTING WALL MOUNTED FIRE EXTINGUISHER, SIGNAGE AND EYE WASHING STATION AND RETURN TO DCC REPRESENTATIVE. PATCH & PAINT WALLS TO MATCH EXISTING ADJACENT WALLS.
- 16. EXISTING WALL MOUNTED MILLWORK, BULLETIN BOARD AND DISPENSER TO REMAIN. 17. REMOVE EXISTING WOOD SHELVING C/W SUPPORTS, APPROX. 1220MM X 460MM X 1830MM. PATCH & PAINT WALLS TO MATCH EXISTING ADJACENT WALLS EXISTING FIRE DAMPERS AT MEZZANINE LEVEL TO BE REMOVED AS PER MECHANICAL
- DRAWINGS. CONTRACTOR TO INFILL WALL WITH APPROVED ULC SYSTEM TO MAINTAIN 1HR FIRE SEPARATION TO MATCH EXISTING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING SIZE OF DAMPER/DUCT. 19. REMOVE WALL MOUNTED SOAP DISPENSER.
- 20. REMOVE WALL MOUNTED TOWEL ROD.
- 21. EXISTING WALL MOUNTED FAN TO BE REPLACED. SEAL ALL JOINTS AFTER INSTALLATION OF NEW FAN. FOR FAN REMOVAL AT EXTERIOR WALL, PATCH AND REPAIR EXTERIOR METAL SIDING AS NOTED IN SPECIFICATIONS. FOR INTERIOR PARTITION, INFILL OPENING WITH CONCRETE BLOCK WALL AND GROUT TO MAINTAIN FIRE SEPARATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 22. REMOVE SIGNAGE ON BOTH SIDES OF DOOR. MAKE GOOD TO RECEIVE NEW FINISH AS PER
- DOOR SCHEDULE. 23. REMOVE EXISTING CERAMIC TILE FLOORING C/W CURB. CHIP/GRIND SMOOTH SLAB & PATCH VOIDS W/ SELF LEVELING CEMENTITIOUS COMPOUND, APPROX. 5.5M². PREP FOR NEW FLOOR FINISH AS PER MANUFACTURER'S RECOMMENDATIONS & REPAIR ADJACENT
- AFFECTED AREAS TO MATCH EXISTING. REFER TO FINISH SCHEDULE. 24. REMOVE PORTION OF EXISTING WALL C/W BASE SIMILAR TO E1 CONSTRUCTION WHERE APPLICABLE TO FIT NEW DOOR. MAINTAIN EXISTING FIRE RATING AS PER FIRE PLAN. PATCH & PAINT TO MATCH EXISTING ADJACENT WALL. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- 25. EXISTING DUCTWORK C/W SUPPORTS/HANGERS TO BE REMOVED. PATCH AND PAINT WALL TO MATCH EXISTING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 26. REMOVE EXISTING BULLETIN BOARD. PATCH AND PAINT WALL AS PER FINISH SCHEDULE. 27. REMOVE EXISTING ROLL-UP CANTEEN DOOR C/W FRAME, SILL AND MECHANICAL
- OPERATOR, APPROX. 1000MM X 2000MM. 28. REMOVE EXISTING RUBBER FLOORING C/W RUBBER BASE. CHIP/GRIND SMOOTH SLAB & PATCH VOIDS W/ SELF LEVELING CEMENTITIOUS COMPOUND. PREP FOR NEW FLOOR FINISH AS PER MANUFACTURER'S RECOMMENDATIONS & REPAIR ADJACENT AFFECTED
- AREAS TO MATCH EXISTING. (APPROX. 102 M²). REFER TO FINISH PLAN. 29. CHIP/GRIND SMOOTH EXISTING SLAB & PATCH VOIDS W/ SELF LEVELING CEMENTITIOUS COMPOUND TO RECEIVE NEW FINISH. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. REPAIR ADJACENT AFFECTED AREAS TO MATCH EXISTING. (APPROX.
- 139M².) REFER TO FINISH PLAN FOR ADDITIONAL INFORMATION. 30. SAW CUT EXISTING SLAB TO ALLOW INSTALLATION OF NEW PIPING. COORDINATE WITH MECHANICAL DRAWINGS AND WITH LOCATION OF EXISTING SANITARY LINE. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR
- TO SCAN SLAB PRIOR TO SAW CUTTING. DIMENSIONS ARE APPROXIMATE. 31. EXISTING POWER EQUIPMENT TO BE REMOVED AND STORED WITH CARE FOR FUTURE RELOCATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 32. REMOVE EXISTING DOORS & FRAME , STORE WITH CARE AND REINSTALL IN NEW CONSTRUCTION. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- 33. APPROXIMATE LOCATION OF EXISTING SANITARY LINE. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
- 34. EXISTING PAINT BOOTHS TO BE REMOVED, INCLUDING STEEL PLATED WALL AND SUPPORT STRUCTURE. REMOVE ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. 35. REMOVE EXISTING TOILET PAPER DISPENSER AND GRAB BAR. PATCH AND PAINT WALL TO
- MATCH EXISTING. 36. REMOVE EXITING URINALS C/W VALVES & STORE WITH CARE FOR FUTURE INSTALLATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 37. EXISTING FULL HEIGHT METAL LOCKERS TO BE REMOVED, STORED AND RELOCATED BY DCC REPRESENTATIVE, APPROX. 47 LOCKERS.
- 38. EXISTING DOUBLE STACKED METAL LOCKERS TO BE REMOVED, STORED AND RELOCATED APPROX. 21 LCOKERS. 39. REMOVE EXISTING PAVING FOR NEW CONCRETE PAD FOR NEW MECHANICAL UNIT, REFER
- TO MECHANICAL AND STRUCTURAL FOR DETAILS. 40. EXISTING HOSE BIB, PIPING & DUCTS TO BE REMOVED. PATCH AND PAINT WALL TO MATCH
- EXISTING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 41. EXTENT OF TRENCHING REQUIRED FOR NEW PAINT BOOTH HVAC AND PLUMBING SYSTEM.
- REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 42. EXISTING EYE WASH STATION TO BE RELOCATED. PATCH AND PAINT WALL TO MATCH EXISTING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 43. LOCATION OF EXISTING TRENCH AND GRATE TO BE REMOVED AND INFILLED. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 44. REPAIR EXISTING WALLS TO MATCH ADJACENT SURFACES AFTER REMOVALS OF THOUGH WALL DUCTWORK AT ALL LOCATIONS. CONTRACTOR TO MAINTAIN EXISTING FIRE SEPARATION WITH APPROVED ULC SYSTEM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 45. ELECTRICAL/FIRE ALARM PANEL BOXES TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON SCOPE RELATED TO PANEL. 46. CONTRACTOR TO REPAIR CONCRETE SLAB AT MEZZANINE AFTER REMOVALS OF
- MECHANICAL ITEMS. REFER TO SPECIFICATIONS AND MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION. 47. REMOVE EXISTING MEZZANINE ACCESS LADDER / RAIL.
- 48. REMOVE PORTION OF CONCRETE MASONRY WALL C/W BASE WHERE APPLICABLE TO FIT NEW DOOR. MAINTAIN EXISTING FIRE RATING AS PER FIRE PLAN. PATCH & PAINT TO MATCH EXISTING ADJACENT WALL. REFER TO STRUCTURAL AND ELECTRICAL DRAWINGS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- 49. EXISTING STEEL LADDER TO BE RELOCATED TO NEW LOCATION, SEE NEW FLOOR PLAN FOR NEW LOCATION, REMOVE FASTENERS FOR RELOCATION.

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- CONTRACTOR TO PATCH AND MAKE GOOD CONCRETE SLAB AFFECTED BY NEW WORK AS

- 2. NEW AIR SHOWER C/W SIDE FAN. SEAL ALL JOINTS BETWEEN UNIT AND WALL. CONTRACTOR TO COORDINATE DELIVERY AND INSTALLATION WITH MANUFACTURER / INSTALLER. a. AIR SHOWER #1: TYPE: 2 DOOR, 90" (2286mm) H, 70" (1778mm) W, 72" (1829mm) L REFER TO SPECIFICATION 13 21 15 - AIR SHOWERS FOR ADDITIONAL INFORMATION.
- 4. 31 NEW SAFETY EQUIPMENT OPEN LOCKERS. REFER TO SPECIFICATIONS FOR ADDITIONAL
- NEW PRE-MANUFACTURED BOOTS SHELVING. REFER TO INTERIOR ELEVATIONS 1/311 & 2/311
- 5. PROVIDE NEW WASHROOM ACCESSORIES. REFER TO ENLARGED PLANS 1/309 & 2/309 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PAPER TOWEL DISPENSER TO BE DND SUPPLIED, CONTRACTOR INSTALLED. INSTALL ALL ACCESSORIES AS INDICATED IN
- 7. INFILL EXISTING TRENCHES AS REQUIRED FOR NEW WORK. REFER TO MECHANICAL AND
- 8. PROVIDE TRENCH DRAINS FOR NEW PAINT BOOTH. REFER TO MECHANICAL DRAWINGS FOR
- 10. NEW SECURITY CHAIN LINK FENCE TO ENCLOSE NEW MECHANICAL EQUIPMENT. CHAIN LINK FENCE TO BE MIN. 2440mm HIGH. CHAIN LINK FENCE TO INCLUDE ACCESS GATES AS
- 12. 30 NEW FULL HEIGHT METAL LOCKERS TO BE PROVIDED, INCLUDING PLYWOOD BACK. REFER
- TO ELEVATIONS FOR PLYWOOD DIMENSIONS. FOR CONSTRUCTION AND ADDITIONAL
- 15. NEW COUNTER MOUNTED SINKS. REFER TO SHEETS 309 & 311 FOR INTERIOR ELEVATIONS &
- 17. NEW FULL HEIGHT METAL LOCKERS TO MATCH EXISTING IN MATERIAL AND SIZE. AMOUNT OF LOCKERS DEPENDENT OF SPACE AVAILABLE. CONTRACTOR TO ALLOW FOR 10 UNITS. REFER
- EXTEND TO U/S OF SLAB, OVERLAP WITH AIR SHOWER ENCLOSURE BY A MIN. OF 100mm AND
- 20. PATCH AND REPAIR EXISTING CONCRETE SLAB WITH SELF-LEVELING CEMENTITIOUS
- 21. CONTRACTOR TO REPAIR WALL OPENINGS AFTER MECHANICAL REMOVALS AT EXTERIOR WALLS. PROVIDE STEEL PLATE, FASTENED TO EXTERIOR METAL CLADDING AND PAINT TO MATCH EXISTING METAL CLADDING. SEAL ALL JOINTS. REFER TO MECHANICAL DRAWINGS
- DOOR & HARDWARE SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. 23. INSTALL NEW PICTOGRAM AT ALL WASHROOMS' AND LOCKERS' ENTRANCE DOORS
- 25. REINSTATE EXISTING DRY ERASE AND BULLETIN BOARD UPON COMPLETION OF NEW WORK. 26. INSTALL NON-SHRINK GROUT TO SEAL ALL ROOM PENETRATIONS, APPROX. 1M² FOR 200MM
- 27. PROVIDE RAISED CONCRETE PAD FOR HAZARDOUS WASTE STORAGE TANKS REFER TO
- 28. PROVIDE ACCESS HATCH TO PLUMBING VALVES. REFER TO MECHANICAL DRAWINGS FOR
- 29. AREA OF NEW UNDERGROUND STACK FOR NEW PAINT BOOTH. REFER TO MECHANICAL AND
- 30. NEW CONCRETE BLOCK WALL PARTITION (P12) TO EXTEND FROM FINISH FLOOR TO UNDER SIDE OF ROOF STRUCTURE INCLUDING MEZZANINE TO PROVIDE MIN. 1 HOUR FIRE SEPARATION BETWEEN MEZZANINE AND ROOM 121 NEW PARTITION TO FOLLOW AND ALIGN WITH EXISTING PARTITION/SLAB OF MEZZANINE. PARTITION TO PROVIDE OPENING TO ACCESS AIR SHOWER. OPENINGS TO SUITE SIZE OF DOOR OF AIR SHOWER AND ACCESS TO
- 31. LOCATION OF RELOCATED STEEL LADDER, SECURE TO EXISTING CONCRETE BLOCK WALL.
- MEZZANINE SLAB TO ALLOW FOR OPERATION OF ACCESS PANELS AND EQUIPMENT ABOVE AIR SHOWER. COORDINATE ACTUAL SIZE AND LOCATION OF OPENING WITH AIR SHOWER
- 2025/03/05 100% SUBMISSION ISSUE FOR TENDER NO. DATE REVISION SCALE | ÉCHELLE AS NOTED LOCATION | EMPLACEMENT 17 HANGAR STREET CFB BORDEN ONTARIO PROJECT | PROJET SOLVING CONTAMINATION DEFICIENCIES IN BUILDING A-243

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A243 GOLUNOT

TRADE | MÉTIER ARCHITECTURAL SUBJECT | SUJET

GROUND FLOOR PLAN - NEW WORK & DETAILS

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LOCATION | EMPLACEMENT 17 HANGAR STREET, CFB BORDEN

SOLVING CONTAMINATION DEFICIENCIES IN BUILDING A-243

REFLECTED CEILING PLAN - DEMOLITION

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FLOOR FINISH NOTES

- 1. CHIP/GRIND SMOOTH SLAB & PATCH VOIDS W/ SELF LEVELING CEMENTITIOUS COMPOUND.
- 2. NO NEW FLOORING IN THIS AREA.
- 3. NEW 305 x 610 SLIP RESISTANT CERAMIC TILE FLOORING (CT-1), APPROX. 125 SQ.M
- 4. NEW 305 x 610 CERAMIC WALL TILE (CT-2), APPROX. 190 SQ.M
- 5. NEW 51 x 102 MOSAIC WALL TILE (CT-3), APPROX. 70 SQ.M
- 6. NEW SHEET VINYL FLOORING AND COVE BASE, APPROX. 125 SQ.M OF FLOOR AREA.
- 7. EXISTING RUBBER FLOORING TO REMAIN.
- 8. NEW EPOXY FLOORING AND COVE BASE, APPROX. 325 SQ.M.
- 9. SEAL CONCRETE FLOOR, APPROX. 215 SQ. M.

NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

FINISHES ABBREVIATIONS

- C.T. = CERAMIC TILE WALL FINISH
- EPX = EPOXY P.T. = PAINT
- R.B. = RUBBER BASE SHV. = SHEET VINYL
- (E) = EXISTING TO REMAIN CONC. = CONCRETE

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- CEILING METAL LINER PANEL TO PROVIDE OPENINGS FOR NEW MECHANICAL UNITS DUCTWORK AND INSTALLATION OF PRE-MANUFACTURED CURBS SHOWN HATCHED. REFER TO MECHANICAL.

BUILDING SECTIONS NOTES

- 1. NEW PAINT BOOTH. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 2. NEW AIR SHOWER TYPE "A". REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. NEW AIR SHOWER TYPE "B". REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4. NEW ACOUSTIC TILE CEILING. REFER TO REFLECTED CEILING PLAN. 5. EXISTING ACOUSTIC TILE CEILING TO REMAIN.
- 6. NEW GYPSUM BOARD BULKHEAD. CONTRACTOR TO COORDINATE WITH WITH INSTALLATION OF NEW AIR SHOWER.
- 7. EXISTING OVERHEAD DOOR. 8. NEW MECHANICAL EQUIPMENT/DUCTWORK, REFER TO MECHANICAL DRAWINGS FOR
- ADDITIONAL INFORMATION.
- 9. NEW GYPSUM BOARD CEILING. REFER TO REFLECTED CEILING PLAN AND SPECIFICATIONS. 10. NEW METAL RAILING AND GATE WITH WIRE MESH AT MECHANICAL MEZZANINE. REFER TO
- SPECIFICATIONS. 11. NEW SINKS IN SOLID SURFACE COUNTERS. REFER TO INTERIOR ELEVATIONS AND
- SPECIFICATIONS FOR ADDITIONAL INFORMATION. 12. EXISTING/NEW FIRE RATED WALL. REFER TO FLOOR PLANS FOR EXTENT OF INFILL.
- 13. EXISTING CONCRETE SLAB. 14. EXISTING METAL RAIL AND ACCESS LADDER.

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WASHROOM ACCESSORIES LEGEND

ADH	ACCESSIBLE DOOR HARDWARE
ADO	AUTOMATIC DOOR OPERATOR
BS	BACK SUPPORT
СН	COAT HOOK
EM1	EMERGENCY CALL KIT INCLUDING PUSH BUTTON,
	TRANSFORMER, HORN/STROBE AND SIGNAGE
GB1	890mm x 760mm L-SHAPED GRAB BAR
GB2	600mm LONG GRAB BAR
GB3	1000mm LONG GRAB BAR
GB4	1000mm x 750mm L-SHAPED GRAB BAR
HS	450mm WIDE x 400mm DEEP HINGED SHOWER SEAT
MIR	MIRROR
P.T.D.	PAPER TOWEL DISPENSER
S.D.	SOAP DISPENSER
SH	SHELF
SND	SANITARY DISPOSAL
Т.В.	725mm LONG TOWEL BAR
TPD	TOILET PAPER DISPENSER
WRC	WASTE RECEPTACLE

WASHROOM CONSTRUCTION NOTES

- 1. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM BOARD ON WASHROOM SIDE OF PARTITIONS.
- 2. PROVIDE PLYWOOD BLOCKING AT ALL ACCESSORY AND/OR FIXTURES AT GYPSUM BOARD ASSEMBLIES.
- 3. PROVIDE PLYWOOD BACKING TO SUIT LOCKER INSTALLATION. 4. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR ALL ACCESSORIES.
- 5. POSITION FLUSH VALVE ON TRANSFER SIDE OF WATER CLOSET.

CONTRACTOR RESPONSIBLE FOR ENSURING THAT BARRIER FREE WASHROOM HARDWARE FUNCTIONS ACCORDING TO THE FOLLOWING DESCRIPTION:

- PROVIDE REQUIRED ELECTRIC STRIKE AND TRANSFORMER AS PER EMERGENCY
- KIT SPECIFICATIONS CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT UNIVERSAL WASHROOM
- HARDWARE FUNCTIONS ACCORDING TO THE FOLLOWING DESCRIPTION: A. STOREROOM FUNCTION LEVER HANDLE WITH KEYED ACCESS FROM OUTSIDE AND ALWAYS OPERABLE FROM THE INSIDE.
- B. PUSHED TO OPEN FROM THE OUTSIDE, AND OPEN FROM THE INSIDE USING THE LEVER HANDLE. THE "PUSH TO LOCK" BUTTON ACTIVATES AN ELECTRIC STRIKE WHICH LOCKS THE DOOR, AND ILLUMINATES AN "OCCUPIED WHEN LIT" ANNUNCIATOR ON THE OUTSIDE OF THE
- WASHROOM. C. WHEN THE ANNUNCIATOR IS ACTIVATED, THE EXTERIOR DOOR OPERATOR IS DISABLED WHILE THE INTERIOR OPERATOR REMAINS ACTIVE
- D. SYSTEM RESET VIA MAGNETIC DOOR CONTACTS THE "PUSH IN CASE OF EMERGENCY" BUTTON ACTIVATES A STROBE AND AUDIBLE ALARM, BOTH INSIDE AND OUTSIDE THE WASHROOM.
- SET THE ELECTRIC STRIKE TO "FAIL-SAFE"
- C/L OF ADO AND PUSH TO LOCK PADDLES MOUNTED AT 1050mm A.F.F. REFER TO ELECTRICAL DRAWINGS
- PROVIDE SIGNAGE IN BOTH FRENCH AND ENGLISH FOR THE OPERATIONS OF THE EMERGENCY BUTTON, DOOR OPERATOR AND DOOR LOCK. SIGNAGE TO BE LOCATED ABOVE DOOR HARDWARE.

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vbs no. no. otp 1.700113.18.05		PF NO. NO. I BN18658	ор 86
WG. NO. NO. DESSIN	L-E	3147-9618	3/1

NOTE: REFER TO SPECIFICATION 10 56 13 - METAL STORAGE SHELVING FOR ADDITIONAL INFORMATION

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HITECT	ŪR
H-12 HANGAR STR	H-13 243 STREET
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									D	OOR AND FR	AME SCHEDULE						
cr ۲	ROOM NAME &	NUMBER				DOOR	1					FRAME			A R E		
DOOI	ROOM NAME	ROOM NUMBER	MATERIAL	ELEVATION	FINISH	GLAZING	WIDTH	HEIGHT	THICKNESS	MATERIAL	ELEVATION	JAMB /HEAD DETAIL	FINISH	GLAZING	HARDW	FIRE RESIST/ E RATII LABE	NOTES
D-100b1	CORRIDOR	100b	IN-HM	DE-1	PT	-	910	2135	45	TB-HM	FE-2	J-3	PT	-	5	-	
D-100b2	CORRIDOR	100c	HM	DE-3	PT	-	810 X 810	2135	45	HM	FE-1	J-1	PT	-	6	-	
D-100b3	CORRIDOR	100C	EXIST	EXIST	EXIST	-	EXIST	EXIST	EXIST	EXIST	EXIST	EXIT	EXIT	-	EXIST	EXIST HA OF HA	XISTING ELECTRICAL DOOR HOLD OPEN HARDWARE TO BE ECOMMISSIONED FOR BOTH PANELS OF DOOR. REMOVE ASSOCIATED ARDWARE ON DOOR. DISCONNECT AND PULL WIRING POWERING HOLD PEN DEVICES. PROVIDE COVER PLATE FOR JUNCTION BOX ONCE ARDWARE AND ELECTRICAL WIRING IS REMOVED.
D-100C	CORRIDOR	100c	HM	DE-1	PT	-	910	2135	45	HM	FE-1	J-1	PT	-	8	45 MIN	
D-M-1F	MECH. ROOM	M-1F	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	3.1	45 MIN	
D-104A	MEN'S W.R. & LOCKER ROOM	104	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	2.1	-	
D-104B	MEN'S W.R. & LOCKER ROOM	104	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	3	-	
D-109A	WOMEN'S W.R. & LOCKER ROOM	109	HM	DE-1	PT	-	910	2135	45	HM	FE-1	J-1	PT	-	2	-	
D-109B	WOMEN'S W.R. & LOCKER ROOM	109	HM	DE-1	PT	-	910	2135	45	HM	FE-1	J-2	PT	-	4	-	
D-109C	WOMEN'S W.R. & LOCKER ROOM	109	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	3	-	
D-110	SUPPLY ROOM	110	EXIST	EXIST	PT	-	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST FR FIN	EUSE EXISTING DOOR BETWEEN ROOM 110 AND 113 INCLUDING DOOR RAME AND HARDWARE FOR NEW DOOR LOCATION. MAKE GOOD ANY NISHES AFFECTED BY NEW WORK
D-111	BARRIER-FREE WASHROOM	111	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	7	45 MIN	
D-121A	COMPOSITE DIRTY ROOM	121	НМ	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	3.1	45 MIN	
D-121B	COMPOSITE DIRTY ROOM	121	HM	DE-1	PT	-	910	2135	45	HM	FE-1	J-1	PT	-	3.1	45 MIN	
D-122A	COMPOSITE DIRTY ANNEX	122	IN-HM	DE-1	PT	-	910	2200	45	TB-HM	FE-2	J-3	PT	-	5	-	
D-122B	COMPOSITE DIRTY ANNEX	122	HM	DE-1	PT	-	910	2135	45	НМ	FE-1	J-1	PT	-	3.1	45 MIN	
D-123A	WASTE WATER STORAGE ROOM	123	IN-HM	DE-2	PT	-	910 X 910	2200	45	TB-HM	FE-2	J-3	PT	-	1	- 01	NE EXISTING DOOR, ONE NEW DOOR (TO MATCH EXISTING). NEW FRAME
D-123B	WASTE WATER STORAGE ROOM	123	IN-HM	DE-2	PT	-	910 X 910	2150	45	TB-HM	FE-2	J-3	PT	-	1	-	
D-124	STORAGE ROOM	124	EXIST	EXIST	PT	-	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	PT	-	EXIST	45 MIN	
GENERAL N 1. CONTRAC 2. CONTRAC	OTES: TOR TO REPAIR PERF	ORATIONS ON	I EXISTING DO	OR FRAMES TO	ACHIEVE FIR NORK	E RATING LIST	ED ON FIRE RE	ESISTANCE R	ATING PLATE OI	N DOOR. (TYF	PICAL ON ALL DO	OORS WITHIN	THE SCOPE C) DF WORK)		AE DE EX EX FE HN J PT	BBREVIATIONS: E DOOR ELEVATION IN INSULATED XIST. EXISTING TB THERMALLY BROKEN XT. EXTERIOR E FRAME ELEVATION M HOLLOW METAL JAMB T PAINT

EXISTING

EXISTING

WOOD

BLOCKING-

DRAWING LIST400LEGENDS, DRAWING LIST AND CODE SYNOPSIS410GROUND FLOOR PLAN FIRE PROTECTION - DEMOLITION (ROUND FLOOR PLAN FIRE PROTECTION - NEW WORK)420GROUND FLOOR PLAN FIRE PROTECTION - NEW WORK)421GROUND FLOOR PLAN PLUMBING - DEMOLITION (GROUND FLOOR PLAN PLUMBING - NEW WORK)422ENLARGE GROUND FLOOR PART PLAN - PLUMBING & UTILITIES - NEW WORK)430GROUND FLOOR PLAN HVAC - DEMOLITION (GROUND FLOOR PLAN HVAC - NEW WORK)440ROOF PLAN - DEMOLITION ROOF PLAN - NEW WORK)450MECHANICAL SYSTEM CONTROL DIAGRAMS)460MECHANICAL SCHEDULES - SHEET 1461MECHANICAL SCHEDULES - SHEET 2470MECHANICAL DETAILS - SHEET 1471MECHANICAL DETAILS - SHEET 2	-	
 400 LEGENDS, DRAWING LIST AND CODE SYNOPSIS 410 GROUND FLOOR PLAN FIRE PROTECTION - DEMOLITION GROUND FLOOR PLAN FIRE PROTECTION - NEW WORK 420 GROUND FLOOR PLAN PLUMBING - DEMOLITION GROUND FLOOR PLAN PLUMBING - NEW WORK 421 GROUND FLOOR PLAN PLUMBING - NEW WORK 430 GROUND FLOOR PLAN HVAC - DEMOLITION GROUND FLOOR PLAN HVAC - DEMOLITION GROUND FLOOR PLAN HVAC - NEW WORK 430 MECHANICAL SYSTEM CONTROL DIAGRAMS 440 MECHANICAL SCHEDULES - SHEET 1 441 MECHANICAL DETAILS - SHEET 1 442 MECHANICAL DETAILS - SHEET 1 443 MECHANICAL DETAILS - SHEET 1 444 MECHANICAL DETAILS - SHEET 1 		DRAWING LIST
 410 410 GROUND FLOOR PLAN FIRE PROTECTION - DEMOLITION GROUND FLOOR PLAN FIRE PROTECTION - NEW WORK 420 420 GROUND FLOOR PLAN PLUMBING - DEMOLITION GROUND FLOOR PLAN PLUMBING - NEW WORK 422 ENLARGE GROUND FLOOR PART PLAN - PLUMBING & UTILITIES - NEW WORK 430 GROUND FLOOR PLAN HVAC - DEMOLITION GROUND FLOOR PLAN HVAC - NEW WORK 440 ROOF PLAN - DEMOLITION ROOF PLAN - NEW WORK 450 MECHANICAL SYSTEM CONTROL DIAGRAMS 460 MECHANICAL SCHEDULES - SHEET 1 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	400	LEGENDS, DRAWING LIST AND CODE SYNOPSIS
 420 421 GROUND FLOOR PLAN PLUMBING - DEMOLITION GROUND FLOOR PLAN PLUMBING - NEW WORK ENLARGE GROUND FLOOR PART PLAN - PLUMBING & UTILITIES - NEW WORK 430 GROUND FLOOR PLAN HVAC - DEMOLITION GROUND FLOOR PLAN HVAC - NEW WORK 440 ROOF PLAN - DEMOLITION ROOF PLAN - NEW WORK 450 MECHANICAL SYSTEM CONTROL DIAGRAMS 460 MECHANICAL SCHEDULES - SHEET 1 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	410 411	GROUND FLOOR PLAN FIRE PROTECTION - DEMOLITION GROUND FLOOR PLAN FIRE PROTECTION - NEW WORK
 430 431 430 431 431 440 440 441 441 441 444 444	420 421 422	GROUND FLOOR PLAN PLUMBING - DEMOLITION GROUND FLOOR PLAN PLUMBING - NEW WORK ENLARGE GROUND FLOOR PART PLAN - PLUMBING & UTILITIES - NEW WORK
 440 441 ROOF PLAN - DEMOLITION ROOF PLAN - NEW WORK 450 MECHANICAL SYSTEM CONTROL DIAGRAMS 460 MECHANICAL SCHEDULES - SHEET 1 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	430 431	GROUND FLOOR PLAN HVAC - DEMOLITION GROUND FLOOR PLAN HVAC - NEW WORK
 450 MECHANICAL SYSTEM CONTROL DIAGRAMS 460 MECHANICAL SCHEDULES - SHEET 1 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	440 441	ROOF PLAN - DEMOLITION ROOF PLAN - NEW WORK
 460 MECHANICAL SCHEDULES - SHEET 1 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	450	MECHANICAL SYSTEM CONTROL DIAGRAMS
 461 MECHANICAL SCHEDULES - SHEET 2 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	460	MECHANICAL SCHEDULES - SHEET 1
 470 MECHANICAL DETAILS - SHEET 1 471 MECHANICAL DETAILS - SHEET 2 	461	MECHANICAL SCHEDULES - SHEET 2
471 MECHANICAL DETAILS - SHEET 2	470	MECHANICAL DETAILS - SHEET 1
	471	MECHANICAL DETAILS - SHEET 2

BUILDING CODE SYNOPSIS

COMPLIANCE WITH PART 3 OF THE CANADIAN NATIONAL BUILDING CODE (NBC) - 2020.

CANADIAN FORCES FIRE MARSHALL DIRECTIVE FMD 4003: FIRE PROTECTION ENGINEERING, FIRE PROTECTION AND LIFE SAFETY ENGINEERING DESIGN GUIDE, 2019.

CANADIAN FORCES FIRE MARSHALL DIRECTIVE FMD 4005: FIRE PROTECTION ENGINEERING, PARTIAL OCCUPANCY, SEPTEMBER 2009 V1.3. VENTILATION SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH PART 6, AND THE FOLLOWING RELATED CODES AND STANDARDS: ASHRAE STANDARD 62.1-2022 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY, ASHRAE 90.1-2019 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS AND CAN/CSA B149.1-2020 NATURAL GAS AND PROPANE INSTALLATION CODE.

PLUMBING SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH 3.1.5.16, 3.7, THE NATIONAL PLUMBING CODE 2020 AND CAN/CSA B149.1-2020 NATURAL GAS AND PROPANE INSTALLATION CODE.

COMPLIANCE WITH N.F.P.A. STANDARDS

NFPA 13-2022, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH N.F.P.A.-13-2022: HAZARD CLASSIFICATION AS INDICATED.

COMPLIANCE WITH ASHRAE/IE 90.1 - 2019.

ASHRAE 90.1 COMPLIANCE ACHIEVED BY APPLYING PRESCRIPTIVE METHOD FOR EQUIPMENT.

PAINT ROOM 125 SHALL BE COMPLIANT WITH THE FOLLOWING CODES AND STANDARDS:

DEPARTMENT OF NATIONAL DEFENCE STANDARD C-05-040-005/TS-001 PART 3, SECTION 2 DECONTAMINATION PROCEDURES, FACILITIES AND ZONES.

DEPARTMENT OF NATIONAL DEFENCE STANDARD C-05-040-005/TS-001 PART 4, SECTION 1 REFINISHING FACILITY.

DEPARTMENT OF NATIONAL DEFENCE STANDARD C-12-010-062/TP-000 PART 1, SECTION 3 FACILITIES, TOOLS AND EQUIPMENT.

CFB BORDEN SITE SPECIFIC DESIGN CRITERIA, 2021-04-29

NFPA 13-2022, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

NFPA 30-2021, FLAMMABLE AND COMBUSTIBLES LIQUID CODE.

NFPA 33-2021, STANDARD FOR SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIALS

NFPA 91-2020, STANDARD EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS, AND PARTICULATE SOLIDS

C22.1-2021 CANADIAN ELECTRICAL CODE, PART 1, SAFETY STANDARD FOR ELECTRICAL INSTALLATIONS (24TH EDITION)

GENERAL WORK LEGEND		
SYMBOL DESCRIPTION		
	NEW WORK	
	EXISTING TO BE REMOVED	

FIRE PROTECTION			
SYMBOL	DESCRIPTION		
	SPRINKLER PIPING CHROME PENDANT SPRINKLER HEAD BRASS UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD TEST & DRAIN VALVE FLOW SWITCH ELECTRICALLY SUPERVISED GATE VALVE CHECK VALVE ALARM VALVE PRESSURE GAUGE FLOW ALARM		

CONTROL	LEGEND

OUTDOOR AIR TEMPERATURE SENSOR

TEMPERATURE SENSOR FLOW SWITCH LOCAL STAND-ALONE CONTROLLER

PLUM	BING LEGEND
SYMBOL	DESCF
	DOMESTIC COLD WA
	DOMESTIC HOT WAT
CAN	BURIED/UNDER FLOO
— — 5AN — —	SANITARY
SAN	ABOVE GROUND/FLO
P-SAN	PUMPED SANITARY
V	PLUMBING VENT
G	NATURAL GAS
CA	COMPRESSED AIR PI
/ L	LOW PRESSURE STE
/// L	HIGH PRESSURE STE
⊅	REDUCER
0	PIPE DOWN
0	PIPE UP
]→	PIPE CAP
	UNION
——×——	GATE VALVE
(x()	GLOBE VALVE
Ň	CHECK VALVE
iбi	BALL VALVE
——	2 WAY CONTROL VAL
↓↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	PLUG VALVE
NĪ	DOUBLE CHECK VALV
(M)	WATER METER
GM	GAS METER
	STRAINER
BFP	
(
Ø FFD	FUNNEL FLOOR DRAI
Ø RD	ROOF DRAIN
⊕ HD	HUB DRAIN
— c.o.	CLEAN OUT
<u>(c.0</u>	CLEAN OUT - FLOOR
	STRAINER
Ý	PRESSURE GAUGE
\bigcirc	PUMP
**-	DRAIN VALVE
X	SOLENOID VALVE
函	LOCK SHIELD VALVE
\checkmark	CHECK VALVE
PRV	PRESSURE REDUCIN
R	CONTROL PNEUMATI
R	PRESSURE REGULAT
0	ELBOW RISE
Ø	ELBOW DROP
IÎI	TEE RISE
Ø	TEE DROP
VTR Ø	SANITARY TERMINAL
	CIRUIT BALANCING V
	ELECTRIC DUCT HEA
▶І ВА	BREATHING AIR OUIC
	COMPRESSED AIR O
r ·	FILTER
L. L	

GEND	H.V.A	A.C. LEGEND
DESCRIPTION	SYMBOL	DESCRIPTION
COLD WATER		DUCT SECTION POSITIVE
HOT WATER		DUCT SECTION NEGATIVE
HOT WATER RECIRCULATION		ACOUSTICALLY LINED DUCT
IDER FLOOR/ UNDER SLAB		THERMALLY INSULATED DUCT
OUND/FLOOR/SLAB SANITARY		FLEXIBLE CONNECTION
ANITARY		DUCT OFFSET
VENT		THERMALLY INSULATED SPIRAL OR FLEXIBL
GAS		DUCT
SED AIR PIPING		BALANCING DAMPER
SURE STEAM LINE	FD	FIRE DAMPER
SURE STEAM LINE	↓ ⊳ F	DUCT BRANCH (TAKE-OFF) WITH DAMPER
		ACCESS DOOR
I I I I I I I I I I I I I I I I I I I	AD	TRANSFER GRILLE
	B.G.C.	BY GENERAL CONTRACTOR
	A.D.	ACCESS DOOR
	OA	OUTSIDE AIR
Έ	SA	SUPPLY AIR
.VE	RA	RETURN AIR
.VE	EA	EXHAUST AIR
=	FD	
	RD	
	BD	
	MD	
	MV	
	N O	
Υ.	N.O.	
	N.C.	
PREVENTER		
	DG	
	EXH	
OOR DRAIN	FLOW	AIRFLOW
IN	SAT	
	TSP	
		AIR SUPPLY CEILING GRILLE / DIFFUSER
T - FLOOR TYPE		AIR SUPPLY CEILING DIFFUSER
GAUGE		AIR RETURN/EXHAUST CEILING DIFFUSER
	X	AIR RETURN/EXHAUST CEILING DIFFUSER
	∎ <i>⊸∕γ</i> -	EXHAUST OR RETURN AIR INLET
	▋╶∕┶━	AIR SUPPLY OUTLET
		UNIT HEATER
	╡	
	لك لك ش	
DED AIR QUICK CONNECT		
	[<u>P- XX]</u>	PUMP
	THROAT SIZE	DETAIL
J	FLOW (L/S)	

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LEVEL OF SECURIT	TY NIVEAU DE SÉCURITÉ UNCLASS NON CL	ASSIFIÉ
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sur le même chantier et le consentement écrit ex	pour le même projet. Ils ne peuven près de l'expert-conseil.	t être offerts er
ARC	HITECT	UR
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	H-12 HANGAR STRE	
\sim		243 THOM NO
	ANDY LANK NICAR	STREET
<u>SITE PLAN</u>	- HANU	
		SHID PRI
		A. A. F.
		UNING
1 2025/03/05	100% SUBMISSION - ISS	SUED FOR
NO. DATE SCALE ÉCHELLE	REVISION	
	R SIREEL., EN	
	-	
SOL DEFICII	VING CONTA ENCIES IN BU	.MINA JILDIN
TRADE MÉTIER	4L	
SUBJECT SUJET	ENDS, DRAWIN CODE SYNC	IG LIS PSIS
PRODUCTION DESIGNED ÉTUDIE	REVIEWED REVU É XX XX	DE
L.M. DRAWN DESSINÉ Q.G./A.L.	X.X.	X.> PR
CHECKED VÉRIFIE P.C.		
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	זדוט	

- 2-50MM) IN IT'S ENTIRETY INCLUDING ALL DEVICES, STOP THE DEMO AT THE EXISTING CHECK VALVE FOR FIRE DEPARTMENT CONNECTION.
- 2. REMOVE EXISTING SPRINKLERS PIPING AND HANGERS IN EXISTING PAINT BOOTH AREA. 3. REMOVE EXISTING SPRINKLERS CONSERVE PIPING.

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- SANITARY DRAINAGE, DOMESTIC COLD WATER AND VENT BRANCHES, VALVES, SUPPORTS ACCESSORIES. CAP AND SEAL SANITARY DRAIN BELOW FINISHED FLOOR. CAP & SEAL VEN
- SLAB SANITARY DRAINAGE, DOMESTIC HOT/COLD WATER AND VENT BRANCHES, VALVES, SUPPORTS AND ACCESSORIES TO FACILITATE NEW WORKS, AS SHOWN. CAP AND SEAL SA DRAIN BELOW FINISHED FLOOR. CAP & SEAL VENT PIPING AT SOURCE OR ROOF PENETRAT
- DOWNSPOUT, MIXING VALVE, ETC, ABOVE SLAB SANITARY, DOMESTIC HOT/COLD WATER AN BRANCHES, VALVES, SUPPORTS AND ACCESSORIES. CAP AND SEAL SANITARY DRAIN BELOW
- DOMESTIC COLD WATER AND VENT PIPING, VALVES, SUPPORTS AND ACCESSORIES. CAP AN SANITARY DRAIN BELOW FINISHED FLOOR. CAP & SEAL VENT PIPE BELOW ROOF PENETRATI

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	3	ARCHITECTURE 49
	2	
	0.9	H-12 $H-13$
LASSROOM	0.8	SITE PLAN
	0.7	
	0.6	Image:
A1 A2	0.5	1:100 LOCATION EMPLACEMENT 17 HANGAR STREET., CFB BORDEN ONTARIO PROJECT PROJET SOLVING CONTAMINATION DEFICIENCIES IN BUILDING 4-243
AWING NOTES 5. EXISTING EYEWASH AND ASSOCIATED MIXING VALVE TO BE RELOCATED. REFER TO NEW WORK		TRADE MÉTIER MECHANICAL SUBJECT SUJET GROUND FLOOR PLAN PLUMBING - DEMOLITION
ANDDWG 421 FOR NEW LOCATION.IT PIPING6.DISCONNECT AND REMOVE EXISTING COMPRESSED AIR PIPING, ASSOCIATED HOSE REEL, VALVES, AND FITTINGS.ABOVE7.DISCONNECT AND REMOVE EXISTING COMPRESSED AIR PIPING, ASSOCIATED VALVES, AND FITTINGS.NITARY TION.8.DISCONNECT AND REMOVE EXISTING COMPRESSED AIR PIPING, ASSOCIATED VALVES, AND FITTINGS.AD, ND VENT DW9.EXISTING DOMESTIC COLD WATER HOSE REEL AND ASSOCIATED PIPING TO BE REMOVED. CAP AND SEAL BRANCH PIPE AT SOURCE.DRAINAGE. ND SEAL TION.10.EXISTING EYE WASH/DRENCH SHOWER AND ASSOCIATED MIXING VALVE TO BE REMOVED, RETAIN FOR RE-INSTALLATION AS SHOWN ON "NEW WORK" PLAN. CUT BACK DOMESTIC HOT AND COLD WATER, CAP AT SOURCE. DISCONNECT SANITARY DRAIN, CAP AND SEAL BELOW FINISHED FLOOR		PRODUCTIONREVIEWED REVUDESIGNED ÉTUDIÉXX XXDES 0 AGENT CONCL.M.X.X.X.X.X.X.DRAWN DESSINÉPROJ MGR GEST PRO.Q.G./A.L.J.C.CHECKED VÉRIFIÉDES MGR GEST CONCP.C.X.X.COORDINATIONFIRE INCENDIEL.M./P.C.X.X.WBS NO. NO. OTPPF NO. NO. DPN.700113.18.05PRN186586
11. DISCONNECT AND REMOVE EXISTING COMPRESSED AIR PIPING AS INDICATED. EXTEND PIPING AS SHOWN ON NEW WORK PLAN.		DWG. NO. NO. DESSIN B147-9618/12-420 Canada Sheet 3 of

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DRAWING NOTES

- DESCRIPTION OF MECHANICAL WORK:
- PROVIDE INSULATED DOMESTIC COLD WATER PIPING AS INDICATED. MODIFY EXISTING PIPING AT BUILDING DOMESTIC WATER METER FOR NEW CONNECTION TO EXISTING PIPING.
- INSTALL NEW PLUMBING FIXTURE C/W ASSOCIATED TRIM, SUPPLIED BY DCC REPRESENTATIVE. PROVIDE NEW FLOOR MOUNTED WALL CARRIER FOR WATER CLOSETS AND WALL MOUNTED LAVATORIES. PROVIDE NEW DOMESTIC HOT, DOMESTIC COLD, SANITARY DRAIN, AND VENT PIPING. EXTEND NEW BRANCH PIPING TO NEW SERVICE MAINS.
- PROVIDE NEW FLOOR DRAIN C/W TRAP SEAL PRIMER. EXTEND NEW SANITARY DRAIN, VENT, AND DOMESTIC WATER PIPING TO EXISTING BUILDING SERVICES.
- INSTALL PROVIDE NEW URINAL C/W ASSOCIATED TRIM, SUPPLIED BY DCC REPRESENTATIVE. PROVIDE NEW FLOOR MOUNTED WALL CARRIER. PROVIDE NEW DOMESTIC COLD, SANITARY DRAIN, AND VENT PIPING. EXTEND NEW BRANCH PIPING TO NEW SERVICE MAINS. PROVIDE CLEANOUTS TO SERVE VERTICAL DRAINAGE PIPING FROM THE WALL HUNG URINAL EXTEND ABOVE THE FLOOR LEVEL RIM OF THE EACH URINAL.
- PROVIDE GAS FIRED DOMESTIC WATER HEATER C/W ASSOCIATED RECIRCULATION PUMP, EXPANSION TANK, DOMESTIC HOT, DOMESTIC COLD, AND GAS PIPING. EXTEND BRANCH PIPING TO NEW SERVICE MAINS. PROVIDE 20 DIA CONDENSATE DRAIN FROM DHWT VENT, EXTEND NEW PIPING THROUGH NEUTRALIZING TANK,
- DISCHARGE TO DRAIN.
- PROVIDE EYE WASH/DRENCH SHOWER ASSMBLY C/W ASSOCIATED MIXING VALVE, PIPE AND FITTINGS.

PLUMBING FIXTURE SERVICE CONNECTION SCHEDULE

FIXTURE TYPE	QUANTITY	SANITARY (mm)	VENT (mm)	COLD WATER (mm)	HOT WATER (mm)	
				-		
	1			25	-	
WATER CLOSET	2 TO 4	100	75	40	-	
	5 TO 12			50	-	
URINAL	1	50	40	25	-	
	2 TO 3	75	50	40	-	
LAVATORY	1	32	25	20	20	
	2 OR MORE	40	32	25	25	
SHOWER	1			12	12	
SHOWER	2 OR MORE	FD-3		20	25	
MV-1	1	-	-	25	25	
FLOOR DRAIN	1	75	50	10	-	
				TSP		

NOTES:

VENT SIZES INDICATED ARE MINIMUM. CONNECTED SIZE SHALL BE CALCULATED IN ACCORDANCE WITH CODE, BASED ON INSTALLATION.

MINIMUM SIZE OF BURIED SANITARY SHALL BE 75mm.

FOR PLUMBING FIXTURE CONNECTION SIZES NOT INDICATED, REFER TO PLUMBING FIXTURE SCHEDULE.

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MEZZANINE ABOVE MECH RM M-1E - PLUMBING NEW WORK

DRAWING NOTES

DESCRIPTION OF MECHANICAL WORK:

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- PROVIDE NEW COMPRESSED AIR SERVICE PIPE, EXTEND TO EXISTING BUILDING SERVICES.
- PROVIDE NEW WALL MOUNTED HOSE REEL ASSEMBLY C/W HVLP SPRAY GUN QUICK-CONNECT. EXTEND NEW COMPRESSED AIR BRANCH PIPE TO NEW SERVICE MAIN.
- PROVIDE NEW WALL MOUNTED HOSE REEL ASSEMBLY C/W 20 DIA. HOSE-BIBB CONNECTION. EXTEND NEW
- DOMESTIC COLD WATER BRANCH PIPE TO NEW SERVICE MAIN. RELOCATE EXISTING EYEWASH/SHOWER STATION AND ASSOCIATED MIXING VALVE AS SHOWN. EXTEND DOMESTIC
- HOT & COLD WATER AND SANITARY DRAIN PIPE TO EXISTING BUILDING SERVICES. PROVIDE 2-WAY COMPRESSED AIR SOLENOID VALVE INTERLOCKED WITH BOOTH VENTILATION SYSTEM.
- PROVIDE ROUGH-IN FOR BREATHING AIR DISTRIBUTION HEADER AND PANEL ASSEMBLY. EXTEND NEW BRANCH 6 PIPING TO QUICK-CONNECT WITHIN PAINTBOOTH ENCLOSURE.
- PROVIDE NEW SS TRENCH DRAIN. EXTEND BELOW SLAB SANITARY DRAIN PIPE TO NEW SUBMERSIBLE SUMP SP-IA & SP-1B
- PROVIDE LOW POINT DRAIN CONNECTION C/W ASSOCIATED SHUT-OFF VALVE FOR DUCT CLEANING MAINTENANCE. PROVIDE DUPLEX SUBMERSIBLE PUMP STATION C/W ASSOCIATED CONTROL PANEL AND ALARMS. EXTEND NEW
- PUMPED SANITARY TO HAZARDOUS WASTE HOLDING TANK. 10. PROIVDE 4500L HAZARDOUS WASTE HOLDING TANK (TYPICAL OF 2). PROIVDE NEW TANK VENT EXTENDED THROUGH ROOF TO ATMOSPHERE. PROIVDE VALVED & CAPPED DRAIN DOWN PUMPER CONNECTION.
- 11. PROVIDE NEW PUMPED WASTE CONNECTION AT TANK TOP. PROVIDE 100 DIA. EQUALIZING CONNECTION BETWEEN TANKS.
- 12. PROVIDE MASTER SHUT-OFF VALVE C/W REGULATOR AND OIL/WATER SEPARATOR. 13. PROVIDE FILTER/REGULATOR ASSEMBLY C/W MANIFOLD DISTRIBUTION PIPING AND ISOLATION VALVE. PROVIDE
- QUICK-CONNECTS C/W 1/4 IM FEMALE RECEIVER. 14. RELOCATE THE EXISTING EYEWASH AND ASSOCIATED MIXING VALVE S AS SHOWN. EXTEND DOMESTIC HOT & COLD WATER PIPING AND SANITARY DRAIN LINE TO EXISTING BUILDING SERVICES.
- 15. PROVIDE FILTER/REGULATOR C/W ASSOCIATED VALVES, FITTINGS, AND 3 X FEMALE QUICK CONNECTS. EXTEND TO NEW COMPRESSED AIR DISTRIBUTION PIPING.

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ENLARGE GROUND FLOOR PART PLAN -PLUMBING & UTILITIES - NEW WORK REVIEWED | REVU

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DES	SCRIPTION OF MECHANICAL DEMOLITION WORK	13.	D
1.	EXISTING FAN-COIL UNIT (FC-1) AND ALL DUCT DISTRIBUTION, SA DIFFUSERS AND RA GRILLES TO REMAIN.	14	F
2.	EXISTING MAKE-UP AIR UNIT (MUA-1) ON ROOF ABOVE TO REMAIN.	15	F
3.	EXISTING 640x350 SUPPLY AIR DUCT TO BE DEMOLISHED, COMPLETE WITH ALL DIFFUSERS (TYPICAL 5), DAMPERS DUCTWORK SUPPORTS AND ACCESSORIES.	16.	. D
4.	EXISTING 640x350 SUPPLY AIR DUCT AND ALL DIFFUSERS TO REMAIN, AS INDICATED. REBALANCE AS SHOWN ON NEW WORK PLANS.	17.	A
5.	EXISTING WALL MOUNTED EXHAUST FAN (EF-3) TO REMAIN.	18.	A
6.	EXISTING MAKE-UP AIR UNIT (MUA-2) ON ROOF ABOVE AND ALL DUCT DISTRIBUTION, DIFFUSERS TO REMAIN.	10	0
7.	EXISTING WALL MOUNTED EXHAUST FAN (EF-1) TO BE REPLACED WITH NEW EXHAUST FAN (EF-1). REFER TO MECHANICAL DRAWING 431 FOR DETAILS.	20	. D
8.	EXISTING EXHAUST FAN (EF-2) AND DUCTWORK TO REMAIN.	21	. D
9.	DISCONNECT AND REMOVE TWO EXISTING ROOF EXHAUST FANS (EF-8 & EF-9), COMPLETE WITH ALL ASSOCIATED DUCTWORK, GRILLES, GUY WIRES, EXHAUST STACK AND CONTROLS. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF REPAIR.	22	. E
10.	DISCONNECT AND REMOVE EXISTING ROOF MOUNTED MAKE-UP SYSTEM (SV-2) , COMPLETE WITH ALL ASSOCIATED DUCTWORK, SUPPLY AIR	23	. E)
	PLENUM, DIFFUSERS, AND CONTROLS.	24	. D
11.	EXISTING INDOOR MAKE-UP AIR UNIT (LOCATED IN EXISTING MEZZANINE MECHANICAL ROOM) TO BE DEMOLISHED IN FULL, COMPLETE WITH	25	E
	STEAM AND CONDENSATE PIPING SERVICES AT MAINS, AS INDICATED.	25.	. с, р
12.	DISCONNECT AND REMOVE EXISTING WALL MOUNTED EXHAUST FAN(FOR EXISTING MENS' WASHROOM (123) AND LOCKER ROOM (122)	20.	R
	EXHAUST), ASSOCIATED DUCTWORK, GRILLES, AND CONTROLS. ALL EXISTING OPENING IS TO BE PATCHED AND REPAIRED. REFER TO ARCH	28	

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DES	CRIPTION OF MECHANICAL WORK
1.	PROVIDE NEW GAS SUPPLY PIPING C/W ASSOCIATED PRE TO EXISTING BUILDING SERVICES.
2.	PROVIDE NEW GAS SUPPLY DOWN TO MECHANICAL ROOM
3.	EXISTING GAS PIPING TO REMAIN.
4.	PROVIDE GAS LINE DOWN TO MEZZANINE MECHANICAL RC
5.	PROVIDE x2 150Ø COMBUSTION AIR SUPPLY DUCTS TO DC BE TERMINATED WITHIN 300mm FROM FINISHED CEILING. 300mm FROM FINISHED FLOOR. PROVIDE 75Ø COMBUSTIO
6.	PROVIDE GAS FIRED MAKE-UP AIR UNIT COMPLETE WITH
7.	PROVIDE ROOF MOUNTED EXHAUST FAN COMPLETE WITH

"H ASSOCIATED ROOF CURB, SUPPORT AND CONTROLS.

8. FLUE VENT FROM MUA-4 BELOW. TERMINATE VENT PIPE IN GOOSENECK 1.00M ABOVE ROOF LEVEL.

- 3. WHEN EF-1 AND EF-2 RUNS, MUA-2 SHALL BE STARTED, EF-15 SHALL BE OFF.
- 4. A LOCAL SWITCH SHALL ACTIVATE CANOPY HOOD EXHAUST FAN EF-2. WHEN DAMPER (MD-6) RELAY CLOSES, FAN EF-2 SHALL BE ON EXHAUST AND FAN EF-15 SHALL BE OFF, ASSOCIATED DAMPER (MD-7) SHALL BE CLOSED.
- 5. THE SUPPLY FAN OF MUA-2 SHALL RUN CONTINUALLY AT 3682 L/S (7800 CFM) IN WINTER (OAT <15 °C) DISCHARGE AIR TEMPERATURE SENSOR (T-1) TO MODULATE MUA-2 GAS FIRED BURNER THROUGH INTEGRAL UNIT CONTROLLER TO MAINTAIN ROOM TEMPERATURE SET POINT (22 °C, ADJUSTABLE). IN SUMMER (OAT ≥15.6 °C), ROOM THERMOSTAT (T-1) SHALL BE IGNORED. THE SUPPLY FAN OF MUA-2 SHALL KEEP ON RUNNING AT ITS FULL SPEED.
- 6. PROVIDE WIRE CONNECTION FROM FAN STARTERS TO MOTORIZED DAMPER SWITCHES. 7. PROVIDE THE FOLLOWING CONTROL / MONITOR POINTS IN THE NEW LOCAL STAND-ALONE CONTROLLER: 7.1 AIR FLOW SWITCH TO VERIFY EF-1, EF-2 AND EF-15 FLOW CONDITION 7.2 MOTORIZED DAMPER END SWITCH TO VERIFY DAMPER POSITION
- 7.3 FAN ON/OFF STATUS FOR EF-1, EF-2 AND EF-15 7.4 AUDIBLE ALARM AND VISUAL ALARM TO ANNUNCIATE FAILURE OF EF-1, EF-2, EF-15 AND COMMON MUA-2 CANOPY HOOD (EF-2) "OFF";
- 1. THE CONTROLS OF NEW EXHAUST FANS EF-15, EF-1 AND EXHAUST FAN EF-2 SHALL BE IMPLEMENTED BY A LOCAL STAND-ALONE CONTROLLER.
- 3. WHEN EF-1 AND EF-15 RUNS, MUA-2 SHALL BE STARTED, EF-2 SHALL BE OFF, ASSOCIATED DAMPER (MD-6) SHALL BE CLOSED.
- 4. THE SUPPLY FAN OF MUA-2 SHALL RUN CONTINUALLY AT 3682 L/S (7800 CFM) IN WINTER (OAT <15 °C) DISCHARGE AIR TEMPERATURE SENSOR (T-1) TO MODULATE MUA-2 GAS FIRED BURNER THROUGH INTEGRAL UNIT CONTROLLER TO MAINTAIN ROOM TEMPERATURE SET POINT (22 °C, ADJUSTABLE). IN SUMMER (OAT ≥15.6 °C), ROOM THERMOSTAT (T-1) SHALL BE IGNORED. THE SUPPLY FAN OF MUA-2 SHALL KEEP ON RUNNING AT ITS FULL SPEED.
- PROVIDE WIRE CONNECTION FROM FAN STARTERS TO MOTORIZED DAMPER SWITCHES. 6. PROVIDE THE FOLLOWING CONTROL / MONITOR POINTS IN THE NEW LOCAL STAND-ALONE CONTROLLER:
- 6.1 AIR FLOW SWITCH TO VERIFY EF-1, EF-2 AND EF-15 FLOW CONDITION 6.2 MOTORIZED DAMPER END SWITCH TO VERIFY DAMPER POSITION 6.3 FAN ON/OFF STATUS FOR EF-1, EF-2 AND EF-15 6.4 AUDIBLE ALARM AND VISUAL ALARM TO ANNUNCIATE FAILURE OF EF-1, EF-2, EF-15 AND COMMON MUA-2
- MEDIA BLASTING ROOM (116) OCCUPIED;
- 1. A LOCAL SWITCH SHALL ACTIVATE ROOM LIGHTS TO "ON" AND TURN AIR CURTAIN AC-1 ON.
- 2. WHEN LOCAL SWITCH IS SWITCHED TO "OFF" POSITION, LIGHT FIXTURES SHALL BE OFF AND AIR CURTAIN AC-1 SHALL CONTINUE TO OPERATE FOR 30 MINUTES (ADJUSTABLE)

SEQUENCE OF OPERATION:

- 1. THE CONTROLS OF NEW EXHAUST FANS EF-10, EF-11 AND EXISTING EXHAUST FAN EF-3 SHALL BE IMPLEMENTED BY A LOCAL STAND-ALONE CONTROLLER. SYSTEMS SHALL OPERATE IN ACCORDANCE WITH BUILDING OCCUPANCY SCHEDULE.
- 2. THE SUPPLY FAN OF EXISTING MAKE-UP AIR HANDLING UNIT MUA-1, AND ITS INLET DAMPER SHALL BE SET AND FIXED AT ITS FULL POSITION OF 2596 L/S(5500 CFM). EF-3, EF-10, AND EF-11 SHALL BE ENERGIZED BY THE NEW LOCAL STAND-ALONE CONTROLLER. PROVIDE NEW INTERLOCK FROM EF-3, EF-10, AND EF-11 TO A NEW LOCAL CONTROLLER
- 3. WHEN EF-3, EF-10, AND EF-11 RUN, MUA-1 SHALL BE STARTED.
- 4. WHEN SYSTEMS ARE "OFF", ASSOCIATED MOTORIZED DAMPER SHALL BE CLOSED EF-3; MD-10 EF-10; MD-9
- EF-11; MD-8

SCALE: N.T.S.

- 5. THE SUPPLY FAN OF MUA-2 SHALL RUN CONTINUALLY AT 2596 L/S (5500 CFM) IN WINTER (OAT <15 °C) DISCHARGE AIR TEMPERATURE SENSOR (T-1) TO MODULATE MUA-1 GAS FIRED BURNER THROUGH INTEGRAL UNIT CONTROLLER TO MAINTAIN ROOM TEMPERATURE SET POINT (22 °C, ADJUSTABLE). IN SUMMER (OAT ≥15.6 °C), ROOM THERMOSTAT (T-1) SHALL BE IGNORED. THE SUPPLY FAN OF MUA-1 SHALL KEEP ON RUNNING AT ITS FULL SPEED.
- 6. PROVIDE WIRE CONNECTION FROM FAN STARTERS TO MOTORIZED DAMPER SWITCHES.
- PROVIDE THE FOLLOWING CONTROL / MONITOR POINTS IN THE NEW LOCAL STAND-ALONE CONTROLLER: 7.1 AIR FLOW SWITCH TO VERIFY EF-3, EF-10 AND EF-11 FLOW CONDITION 7.2 MOTORIZED DAMPER END SWITCH TO VERIFY DAMPER POSITION 7.3 FAN ON/OFF STATUS FOR EF-3, EF-10 AND EF-11

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TEXTILE & STORAGE (RM 113 & 110) VENTILATION SYSTEM CONTROL

MECHANICAL VENTILATION EQUIPMENT SHALL HAVE DRY CONTACTS TO SHUT-DOWN THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.

7.4 AUDIBLE ALARM AND VISUAL ALARM TO ANNUNCIATE FAILURE OF EF-3, EF-10, EF-11 AND COMMON MUA-1

2. THE SUPPLY FAN OF EXISTING MAKE-UP AIR HANDLING UNIT MUA-2, AND ITS INLET DAMPER SHALL BE SET AND FIXED AT ITS FULL POSITION OF 3682 L/S(7800 CFM). EF-1, EF-2, AND EF-15 SHALL BE ENERGIZED BY THE NEW LOCAL STAND-ALONE CONTROLLER. PROVIDE NEW INTERLOCK FROM EF-1, EF-2, AND EF-15 TO A NEW LOCAL CONTROLLER.

EF-11 (NEVV) (DI, DO, AI, AO)

-0

SUPPLY ROOM 110

MD MD-8

(N.C)

EF-15 (NEW) (DI, DO, AI, AO)

−O

↔ MD MD-7

(N.C)

(EXISTING)

ROOF

С

MECHANICAL VENTILATION EQUIPMENT

SHUT-DOWN THROUGH BUILDING FIRE

ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.

SHALL HAVE DRY CONTACTS TO

EF-10 (NEW) (DI, DO)

(N.C)

MD-9

WOMEN'S W.R. & MEN'S W.R. & LOCKER ROOM LOCKER ROOM

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BARRIER-FR WASHROOM

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- GAS FIRED BURNER

Government

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ

le consentement écrit exprès de l'expert-conseil.

SITE PLAN

NO. DATE

NTS

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT

CFB BORDEN

ONTARIO

PROJECT | PROJET

TRADE | MÉTIER

SUBJECT | SUJET

PRODUCTION

DESIGNED | ÉTUDIÉ

DRAWN | DESSINÉ

CHECKED | VÉRIFIÉ

COORDINATION

WBS NO. | NO. OTP

N 700113 18 05

DWG. NO. | NO. DESSIN

LM/PC

Q.G./A.L.

P.C.

MECHANICAL

17 HANGAR STREET

REVISION

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АККЕ СОЧУ E.S.P. Pa FAN RPM 124 0.50 0.50 124 187 1270 0.75 1270 1270 1270 1270	REMARKS c/w 900MM MANUFACTURER'S ROOF CURB N/A N/A N/A N/A N/A N/A C/W 900MM MANUFACTURER'S ROOF CURB	кW (HP) 0.56 0.75 0.37 0.50	NO	VOLTAGE 575/3/60	EMCS	NOTES PROVIDE DRY CONTACT TO SHUDOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUDOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUDOWN MECHANICAL VENTILATION EQUIPMENT PROVIDE DRY CONTACT TO SHUDOWN MECHANICAL VENTILATION EQUIPMENT THEOLIGI DRY CONTACT TO SHUDOWN MECHANICAL VENTILATION EQUIPMENT
(in) RPM 124 770 0.50 770 0.50 100 187 1270 0.75 1270 0.75 1050 0.50 1050	C/W 900MM MANUFACTURER'S ROOF CURB N/A N/A	(HP) 0.56 0.75 0.75 0.37 0.50	NO	VOLTAGE 575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT
124 770 0.50 770 1050 1050 0.50 1050	C/W 900MM MANUFACTURER'S ROOF CURB N/A N/A	0.56	NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT
187 1270 0.75 1270 124 1050 0.50 1050	N/A N/A N/A C/W 900MM MANUFACTURER'S ROOF CURB	0.37				PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT
187 1270 0.75 1270 124 1050 0.50 1050	N/A c/w 900MM MANUFACTURER'S ROOF CURB	0.37				PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT
187 1270 0.75 1270 124 1050 0.50 1050	C/W 900MM MANUFACTURER'S ROOF CURB	0.37		I		SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
124 1050 0.50			NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
	WALL MOUNTING ADAPTER	0.37	NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
124 950 0.50	c/w 900MM MANUFACTURER'S ROOF CURB	0.37	NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
199 	SPARK RESISTANT CONSTRUCTION B c/w 900MM MANUFACTURER'S ROOF CURB	29.84 40.00	YES	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
124 720 0.50	c/w 900MM MANUFACTURER'S ROOF CURB	1.12	NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS.
87.094	C/W MANUFACTURER'S WALL TERMINATION KIT, MOUNTING BRACKETS, AND ACCESSORIES	2.238	NO	575/3/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS
124 	SPARK RESISTANT CONSTRUCTION B C/W 900MM MANUFACTURER'S ROOF CURB	0.19	NO	115/1/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS
124 1595 0.50	SPARK RESISTANT CONSTRUCTION B C/W 900MM MANUFACTURER'S ROOF CURB	0.19	NO	115/1/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS
75 1050 0.30	C/W 900MM MANUFACTURER'S ROOF CURB	0.13	NO	115/1/60	MANUAL	
249 1325 1.00	SPARK RESISTANT CONSTRUCTION C	0.37	NO	115/1/60	EMCS	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM AS PER CFB BORDEN SITE SPECIFIC REQUIREMENTS
0	2 @ 3 SPEED MOTORS	0.37	NO	115/1/60	DOOR SWITCH	C/W MOUNTING BRACKETS
	2 @ 3 SPEED MOTORS	0.37	NO	115/1/60	DOOR SWITCH	C/W MOUNTING BRACKETS
	0.50 75 1050 0.30 249 1325 1.00 0 0 0 0.00 0.00	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0.50 ROOF CURB 0.25 Image: constraint of the second	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

			GRILLE	S AND DIFFUS	ERS SCHEDULE						
TAG	SERVICE	DESCRIPTION	BASIC OF	DESIGN	ACCEPTABLE ALTERNATE						
			MANUFACTURER	MODEL No.	MANUFACTURER	MOUNTING	FINISH	NOTES			
	-										
S1	SUPPLY DIFFUSER	DOUBLE DEFLECTION	E.H. PRICE	520D	KRUEGER 800, METALAIRE 4000-AF	WALL OR DUCT	APPLIANCE WHITE	NOTE 1., 2, 3., 4.			
R1	RETURN GRILLE	"EGG-CRATE"	E.H. PRICE	80	KRUEGER EG5, METALAIRE CC	WALL	APPLIANCE WHITE	NOTE 1.,2., 3.			
E1	EXHAUST GRILLE	LOUVRED FACE	E.H. PRICE	530D	KRUEGER 800, METALAIRE 4000-AF	WALL OR DUCT	APPLIANCE WHITE	NOTE 1.,2., 3., 4.			
E2	EXHAUST GRILLE	"EGG-CRATE"	E.H. PRICE	80	KRUEGER EG5, METALAIRE CC	WALL OR DUCT	APPLIANCE WHITE	NOTE 1., 2., 3., 4.			
<u>NOTES</u>											
.1	METRIC DIMENSIONS A	ARE NOMINAL, GRILLE/DIFF	USER FACE TO SUIT AF	RCHITECTURAL CON	IPONENTS						
.2	.2 NECK SIZE AS INDICATED ON DRAWINGS										
.3	C/W FACE FRAME TO	SUIT APPLICATION									
.4	C/W OPPOSED BLADE	. DAMPER									

							AIRSIDE					
TAG	DESCRIPTION	LOCATION	AIRFLO W	MIN VELOCITY	DU	СТ			EAT DB	LAT DB	CAPACITY	NOTES
			L/S	M/S	WIDTH	HEIGHT	VELOCITY		C°	C°	KW	
			CFM	FPM	INCHES	INCHES	FPM	VOLTAGE	F°	F°	MBH	
EDH-1	HEATING COIL	SF-1	498	2.9	450.0	400.0			-26.1	23.3	30.0	
			1055	575.0	18.0	16.0	880.0	575/3/60	-15	74	102	EXPLOSION RATED, SCR CONTROLLER

<u>NOTES</u> .1

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Cette conception est un i l'instrument de service de y compris les exemplaire sur le même chantier et p le consentement écrit exp	nstrument de service protégé par e l'expert-conseil appartient à ce d s électroniques, ne peuvent servir pour le même projet. Ils ne peuven près de l'expert-conseil.	le droit d'auteu ernier. Les exe qu'aux fins pr t être offerts e

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		BASIC OF D	ESIGN	ACCEPTABLE ALTERNATE	PLU	JMBING C	ONNECTIO	NS								BASIC OF DESIGN	ACC AL	EPTABLE TERNATE	INPUT	CA	PACITY			UNIT		
TAG	FIXTURE TYPE	MANUFACTURER	MODEL No.	MANUFACTURER	D.H.W.	D.C.W.	WASTE	VENT	ACCESSORIES	NOTES			TAG DESC	RIPTION LOC	CATION	MANUFACTURER MOD	EL No. MANU	IFACTURER	Kw	STORAG LITRES	E TEMP RISE ° C	REMAR	KS	MAX FUSE		CONTROL TYPE
WC-1	WALL HUNG FLUSH VALVE	AMERICAN STANDARD	MADERA	N/A	<u>_</u>	MM 25	MIM 100	MM 40		FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL		-	GAS	FIRED MEC	H ROOM		RHEE	M PROP G50	(MBH) 22.3	(GAL) 189	(° F) 38.00	DIRECT	MC/ /ENT, ED	A SIZE	FLA VOLTAGE	INTEGRAL
WC-2	BARRIER FREE, WALL HUNG FLUSH VALVE	AMERICAN STANDARD	MADERA	N/A	-	25	100	40		CONTRACTOR FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR		=	DHWT-1 WATE	R HEATER	120b	A.O. SMITH BI.	X-80 BRADI LC2I	Ford White PV50H763N	76.0	50	100.00	- Combus Minimun Thermai	11ON, 95% EFF.	15.00	5.00 115/1	CONTROLLER
UR-1	WALL HUNG	AMERICAN STANDARD	WASHBROOK	N/A	_	20	50	40	-	FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR		<u>י</u>	<u>NOTES</u>													
UR-2	BARRIER FREE, WALL HUNG	AMERICAN STANDARD	WASHBROOK	N/A	-	20	50	40	-	FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR																
LAV-1	BARRIER FREE, COUNTER TOP	AMERICAN STANDARD	COLONY	N/A	12	12	32	32		FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR		Г														
LAV-2	BARRIER FREE, WALL HUNG	AMERICAN STANDARD	COLONY	N/A	12	12	32	32		FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR		-	TAO 055			BASIC OF	F DESIGN		CEPTABLE		MENSIONS	TAN	ACCEPT			
SH-1	SHOWER	MOEN	T3291	N/A	12	12	_	_		FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL		_	DOMES			MANUFACTURER	MODEL No	. MANU	UFACTURER	HEIGH ⁻ (mm)	DIAMETE	ER (litre	s) (litre			
SH-2	BARRIER FREE, SHOWER	MOEN	T3291	N/A	12	12	-	-		CONTRACTOR FIXTURE AND TRIM SUPPLIED BY DND, INSTALLED BY MECHANICAL CONTRACTOR			EI-1 WATE	R TANK		ATER AMTROL	S1-447C	EXTROL	LM, WESSEI NTA	5 1150	610	200	200	VER		
FD-1	FINISHED AREA FLOOR DRAIN	WATTS	FD 100	J.R. SMITH FIGURE 2010, ZURN Z415-BZ1-DP	-	-	SEE DWG.	-	-	ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY			NOTES .1													
FD-2	FUNNEL FLOOR DRAIN	WATTS	FD 100	J.R. SMITH FIGURE 2010, ZURN Z415-BZ1-DP	-	-	SEE DWG.	-	-	ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, OVAL NICKEL BRONZE FUNNEL 4" x 9" (10cm x 23cm)																
FD-3	SQUARE SHOWER DRAIN	WATTS	FD 203	J.R. SMITH FIGURE 2005, ZURN Z415S	-	-	SEE DWG.	-	-	EPOXY COATED CAST IRON WITH 4"x4" NICKEL BRONZE STRAINER																
FD-4	HUB DRAIN	WATTS	FD 200	J.R. SMITH FIGURE 2010 C/W 2646, ZURN Z415	-	-	SEE DWG.	-	-	ADJUSTABLE HUB FUNNEL ASSEMBLY							PUN		ULE							
				C/W 21030							TAG	DESCRIPTION	SERVICE	LOCATION	ı	BASIC OF DESIGN	ACC AL1	EPTABLE ERNATE	FLOW L/S	HEAD kPa		мото	R DATA		1	NOTES
TD-1	FINISHED AREA FLOOR DRAIN	BLUCHER	BHG	J.R. SMITH 9660, ZURN Z886-HDS	-	-	SEE DWG.	-	SEDIMENT BASKET	STAINLESS STEEL BODY & GRATE					MAN	UFACTURER MODEL	No. MANU	FACTURER	Usgpm	FT		KW V HP	D VOLTAGE			
NOTES											P-3	CIRCULATOR	DOMESTIC HOT WATER RECIRCULATION	Mechanical Ro (M-1F)	oom Al	ASTRO RMSTRONG 29055	O B & S GRL	& G E-60 JNDFOSS ALPHA	1.5 24	29.9 10	3300	0.2 N 0.3	o 120/1/60	MANUAL		
- - -	ALL SINK & LAVATORY DRILL PROVIDE TRAP SEAL PRIME PROVIDE C.P. FLEXIBLE SU	INGS TO MATCH SPECIFIED RS FOR ALL FLOOR DRAINS PPLIES WITH SCREWDRIVE) TRIM. R STOPS, C.P. OFFS	SET P-TRAPS, OPEN GRID ST	RAINERS F	For all L	AVATORIE	S.			SP-1A SP-1B	SUBMERSIBLE	BOOTH WASHDOV	N Paint Room (1	25)	ZOELLER 152	B &	& G 2WS AIR SPD50	1.9 30	74.7 25	3450	0.3	o 120/1/60	PANEL	C/W ALTERNATI AUDIBLE & VISU MOUNTING RAIL	ING CONTROL PANEL UAL ALARMS, L, LIFTING ROD.
	C.P CHROME PLATED										FP-1 NOTE:	BOOSTER	SPRINKLER PRESSURE	SPRINKLEI ROOM (M-1)	R A)	ALBANY CEP 9	93 ABSC	DLUTE AMT	1.5	115.0		0.3	lo 120/1/60	SWITCH		

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AG DESCRIPTION SERVICE LOCATION BASE OF DESIGN ACCEPTABLE (LOCATION) MANUFACTURER MAN MAX ES.P. (dm) MATERNATE (LOCATION) MANUFACTURER MAN MAX ES.P. (dm) MATERNATE (dm) MATERNATE (dm) MANUFACTURER MANUFACTURER MAN MAX ES.P. (dm) MANUFACTURER MANUFACTUR								MA	KE-UP		NIT SC	HEDUL	-E									
TAG DESCRIPTION SERVICE LOCATION ALLENATE MAX E.P. (dm) MMX E.P. (m) MMU (km) UNIT CARACITY MMU (km) UNIT Common (km) <					BAS	SIC OF DESIGN			O/A				HEATING	3			ELECTRIC		A		_	
TAGDESCRIPTIONSERVICELOCATIONMANUFACTURERMODEL No.MANUFACTURERMINMIR							ALIERNAIE	BAINI	BAAY	ESD	Τ			Y -							-	
	TAG	DESCRIPTION	SERVICE	LOCATION						E.3.P.		INPUT	OUPPUT	EFF	1.38/						CONTROL TYPE	NOTES
					WANUFACTURE		MANUFACTURER	L/5						%					FUSE			
MUA-1 ENSTING UNT TO REMAIN SEWING (113) TO REMAIN ROOF Engineered Air (125) HE-100-0 N/A 2505 2505 150 2 1								(cfm)	(cīm)	(in)	RPIN	(IMBH)			(HP)	VFD	VOLTAGE		SIZE	FLA		
Indext DEFINIS ICODE Lightest and and and an appendix ICODE S500 5500 0.80 Indext Indext REFERENCE ONLY: MUA-2 EXISTING UNIT TO REMAIN FIBREGLASS (114) TO REMAIN ROOF Engineered Air (129) DJ-100 N/A 3882 3982 198 Interviewed Air (129) Interviewed Air (129) Bigineered Air (129) DJ-100 N/A 3882 3982 198 Interviewed Air (129) Interviewed Air (129) Bigineered Air (129)	MILA 1	EXISTING UNIT	SEWING (113)	POOE	Engineered Air		N/A	2596	2596	199												EXISTING UNIT TO REMAIN, PERFORMANCE DATA FO
MUA-2 EXISTING UNIT TO REMAIN FIBREGLASS (114) TO REMAIN ROOF Engineered Air Engineered Air DJ-100 N/A 3882 7800 3682 199 7800 Auge	IVIOA-1	TO REMAIN		ROOF	Engineered All	HE-100-0		5500	5500	0.80												REFERENCE ONLY.
MuA2 EXISTING UNT TO REMAIN TO REMAIN PIBREGLASS (114) ROOF Engineered Air TO REMAIN MUA MUA MUA MUA																						
MUA-4 INDOOR MUA COMPOSITE CLEAN ROOM (121) SERVICE ROOM ROOM (121) RuppAir RuppAir Reference Air Legineered Air LEG 1416 1416 124 474 384 112.4 15.5 575/3/80 2.9 15.0 2.3 INTEGRAL UNIT CONTROLLER AD AIRFLOW PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EOUPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDE STIE SPECIFIC REQUIREMENTS. MUA-4 INDOOR MUA ROOM (121) COMPOSITE CLEAN ROOM (121) RuppAir RuppAir 1416 1416 124 474 384 12.0 575/3/80 2.9 15.0 2.3 INTEGRAL UNIT CONTROLLER AD AIRFLOW PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EOUPMENT THROUGH SUBJECT MUA-4 INDOOR MUA ROOM (121) COMPOSITE CLEAN ROOM (121) RuppAir Reference Air 1416 1416 124 474 384 12.0 575/3/80 2.9 15.0 2.3 INTEGRAL UNIT CONTROLLER TO MODULATE GAS HEAD ROOT CONTACT TO SHUT DOWN AIRFLOW	MUA-2	EXISTING UNIT	FIBREGLASS (114)	ROOF	Engineered Air	D.I-100	N/A	3682	3682	199												EXISTING UNIT TO REMAIN, PERFORMANCE DATA FO
MUA-3 SPRAY BOOTH (125) GRADE RuppAir RuppAir Engineered Air ICE 15104 30208 199 480 2344.4 2156.8 91.0 37.3 YES 575/3/60 59.70 100.00 46.80 INTEGRAL UNIT CONTROLLER AND MULDING FIRE ALARM SYSTEM AS PER C FB BORDE MUA-4 INDOOR MUA COMPOSITE CLEAN COMPOSITE DIRTY ROOM (121) RuppAir RuppAir Regineered Air ICE 1416 1416 124 138.8 112.4 115.0 2.9 15.0 2.9 15.0 2.3 INTEGRAL UNIT CONTROLLER AND AIRFLOW PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION E QUIPMENT THROUGH SITE SPECIFIC REQUIREMENTS. COORDINATE SYSTEM AS PER C FB BORDE MUA-4 INDOOR MUA COMPOSITE CLEAN COMPOSITE DIRTY ROOM (120) & CONTROLLER TO MODULATE GAS (MEZZANINE) RuppAir R2-IBT-600-300-300-20D Engineered Air ICE 1416 1416 124 138.8 112.4 15.0 2.9 15.0 2.3 INTEGRAL UNIT CONTROLLER TO MODULATE GAS HEAT AND AIRFLOW		TO REMAIN						7800	7800	0.80												REFERENCE ONLY.
Mua: SPRAY BOOTH (125) Applic Rappair Engineered Air (125) 15104 3020 199 480 234.4 2156.8 91.0 37.3 95.70 57.57/360 59.70 100.00 48.80 INTEGRAL UNT (NTRULER AND STE SPECIFIC REQUIREMENTS. PROVIDE DRY CONTACT TO SHUT DOWN MECHANINE SEISMIC CONTINUELLARIN SYSTEM REQUIREMENTS. Mua: INTEGRAL UNI (125) GRADE Ruppair Engineered Air (125) 15104 3020 64000 0.80 91.0 37.3 91.0 97.6 97.70 100.00 48.80 INTEGRAL UNI (NOTINUELLARIN SYSTEM REQUIREMENTS. CONTINUELLARIN SYSTEM REQUIREMENTS. 0000 0.80 91.0 37.3 91.0 10.00 48.80 INTEGRAL UNI (NOTINUELLARIN SYSTEM REQUIREMENTS. 00000 0.80 17.3 17.3 17.5 17.6				I																		
MUA-3 MUA (125) GHADE RuppAir RAM 230 RAM 230 All All 480 Pile 91.0 YES 5/5/3/60 59.70 100.00 46.80 MODULATE GAS HEAT AND AIRFLOW MODULATE GAS HEAT AND AIRFLOW			SPRAY BOOTH	00405		5444000	Engineered Air	15104	30208	199	100	2344.4	2156.8		37.3		575 (0/00				INTEGRAL UNIT CONTROLLER AND VFD TO	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEI
MUA-4 INDOOR MUA COMPOSITE CLEAN ROOM (120) & COMPOSITE DIRTY ROOM (121) ERVICE ROOM (MEZZANINE) Augustice (MEZZANINE) RuppAir Engineered Air (MEZANINE) 1416 1416 1416 124 138.8 112.4 1.5 1	MUA-3	MUA	(125)	GRADE	RuppAir	RAM 230	ICE	32000	64000	0.80	- 480	8001	7361	- 91.0	50.0	- YES	575/3/60	59.70	100.00 46.80 MODULATE GAS HEAT AND AIRFLOW		MODULATE GAS HEAT AND AIRFLOW	COORDINATE SYSTEM REQUIREMENTS. COORDINATE SYSTEM REQUIREMENTS WITH PAINT BOOTH MANUFACTURER. MOUNT ON 900mm SEISMIC RATED ROOF CURD SECURED TO CONCRETE SLAB.
Mua-4 Composite clean Room (120) & Composite DIRTY ROOM (121) Composite clean Room (121) Service Room (MEZZANINE) RuppAir Engineered Air 1416 14			1	1				1		1	1	1	1		1		1	1			1	
MUA-4 INDOOR MUA ROOM (121) COMPOSITE DIRTY ROOM (121) (MEZZANINE) R2-IB1-600-300-300-20D R2-IB1-600-300-300-20D 81.0 575/3/60 2.9 15.0 2.3 MODULATE GAS HEAT AND AIRFLOW BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDE			COMPOSITE CLEAN ROOM (120) &	I SERVICE ROOM			Engineered Air	1416	1416	124	1010	138.8	112.4		1.5		F7F (0/00)		45.0		INTEGRAL UNIT	PROVIDE DRY CONTACT TO SHUT DOWN MECHANICAL VENTILATION EQUIPMENT THROUGH
	MUA-4	INDOOR MUA	COMPOSITE DIRTY ROOM (121)	(MEZZANINE)	RuppAir	R2-IBT-600-300-300-20D	ICE	3000 3000	0.50	- 1240	474	384	- 81.0	2.0	- 575/3	575/3/60	2.9	15.0	2.3	MODULATE GAS HEAT AND AIRFLOW	BUILDING FIRE ALARM SYSTEM, AS PER CFB BORDEI SITE SPECIFIC REQUIREMENTS.	
	<u>NOTES</u>	1																				

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POWER LOAD NET DIFFERENCES:	POWER	LOAD CONDITION BEFORE RENOVATION			DRAWING LIST		LIGH	TING
ON MAIN SERVICE PP-1: REMOVE PREVIOUS MUA (REPLACEMENT TAGGED MUA-4) = - 3.1KVA FROM ASSUMED 2HP, 2.7FLA-575V-3PH	ACTUAL PEA	K DEMAND FROM 2020-01-01 TO					MBOL DE 1x4 LIGHTING FIXTUF	RE, CEILING MOUNTED
ADD MUA-4 = 3.1KVA FROM ASSUMED 2HP, 2.7FLA-575V-3PH	EXISTIN	2023-02-08: NG PAD-MOUNT TRANSFORMER)1 GROUND FLOOR PLA)2 GROUND FLOOR PLA	AN POWER AND FIRE ALARM - DEMOL AN LIGHTING - DEMOLITION		2x4 LIGHTING FIXTUF	RE, CEILING MOUNTED
PANEL DP = - 60.5KVA		POWERING BUILDING A-243 IS: 500KVA	- 50	3 GROUND FLOOR PLA	AN POWER AND FIRE ALARM - NEW	Nork		RE, SURFACE MOUNTED
45KVA TRANSFORMER FEED TO PANEL B = 1.4KVA	ALLOWING FOR 90	0% MAX LOADING OF INCOMING TRANSFORMER: 450KVA USABLE	50	04 GROUND FLOOR PLA	AN LIGHTING - NEW WORK			WALL MOUNTED
45KVA TRANSFORMER FEED TO PANEL G = 1.1KVA	RE	MAINING USABLE CAPACITY ON RANSFORMER BASED ON PEAK 313KVA REMAINING USABLE CAPACITY	50	05 SECOND FLOOR PLA	N - FIRE ALARM LAYOUT AND DIAGRA	AM 🛛		NG FIXTURE, CEILING MOUNTED
NEW DP2 = 64.6KVA	ON TRANSFOR	MER (LOADED UP TO 90% MAX):				1		NG PACK, SINGLE WALL MOUNTED
NEW PAINTBOOTH WITHIN PAINTBOOTH 125: NEW MUA-3 (CCT FROM NEW PAINTBOOTH CONTROL PANEL) = 68.9KVA FROM 50HP - 46.8FLA-59.74MCA-575V-3PH	REMAINING USA	ABLE CAPACITY ON PP-1 BASED ON PEAK MAIN BREAKER, WITH 0.9 POWER FACTOR		60 SCHEDULES				
NEW EF-14 (CCT FROM NEW PAINTBOOTH CONTROL PANEL) = 47.3KVA FROM 40HP -41FLA-575V-3PH		ASSUMED)					WATTAGE CAPACITY	FOR 30 MINUTES
DIFFERENCE BETWEEN REMOVAL OF EXISTING LIGHTS, ADD OF NEW = NEGLIGABLE (CCT FROM NEW PAINTBOOTH CONTROL PANEL)							EXIT SIGN, DOUBLE F	FACE, W/ARROW, CEILING MOUNTED
SUBTOTAL = 126.6KVA NET DIFFERENCE		EMERGENCY LI		EXIT SIGN LOAD CALCUL	ΔΤΙΟΝ		EXIT SIGN, DOUBLE F	FACE, CEILING MOUNTED
REMOVING VF-2 = - 27.7KVA FROM ASSUMED 25HP, 24FLA-575V-3PH	EXISTIN	G BATTERY PACKS FOR EM-A, EM-B AND EM-D ARE EACH 2-12V, 12AH BATTER	RIES. 2 x 12V x 1	12AH = 288WH x 2(0.5 H) = 576W WATTAGE CAPA	ACITY MAXIMUM FOR 30 MINUTES FOR 12V EM HEADS AND EXIT SIC	NS.	EXIT SIGN, SINGLE F	
ON SPLITTER IN RM E-1A = - 38.2KVA	EXISTING EM	NEW EM BATTERY LOCATION OF # OF EXISTING EM W PER E		F NEW EM HEADS W PER NEW HEAD # OF	NEW LED EXIT W PER EXIT SIGN TOTAL WATTAGE		\$ LIGHTING SWITCH, SI \$ EXP LIGHTING SWITCH, F	INGLE POLE
30KVA TRANSFORMER TO LPA = 5.3KVA DIFFERENCE	EM-A	STAIRWELL 18 2	20	1 6	12 3 402	576	\$ ³ LIGHTING SWITCH, 3	WAY
SUBTOTAL = - 60.5KVA NET DIFFERENCE ON SPLITTER IN RM E-1A (ASSUMED CCT DP- 14/16/18, 70A-3P):	EM-B	SEWING RM 112 15 2	20	2 6	8 3 336	576	OCCUPANCY SENSO	R
REMOVING EF-8 = - 19.6KVA FROM ASSUMED 15HP, 17FLA-575V-3PH	EM-D	ELEC RM E-1A 5 2	20	11 6	11 3 199	576		
REMOVING EF-9 = - 19.6KVA FROM ASSUMED 15HP, 17FLA-575V-3PH		EM-C MENS LOCKER 0 2	20	5 6	1 3 33	108		
ADD EF-13 = 1.0KVA FROM 0.5HP -0.9FLA-575V-3PH		EM-E WOMENS LOCKER 0 2	20	7 6	1 3 43	108		
SUBIOIAL = - 38.2KVA NET DIFFERENCE PANEL D (NOW BY 75KVA TX ON NEW DP2):								
ADD BELT SANDER = 1.3KVA								
ADD P-3 = 1.0KVA FROM 0.3HP-120V-1PH	Γ]
ADD DHWT = 0.7KVA	E) (D) (C) (C1		81)	A	(A1)) (A2)
ADD RECEPTACLES = 0.3 KVA SUBTOTAL = 3.4KVA NET DIFFERENCE					т !		, i	
PANEL D2 (NOW BY 75KVA TX ON NEW DP2):								
ADD AIR SHOWER = 6.1KVA FROM 5HP-15.3FLA-208V-3PH								· _ · _ · _ · _ · _ · _ · _ · _ _ · · _ · _
ADD CADMIUM PLATING MACHINES (2 PER 6 TABLES = 12) = 8.7KVA		SPRINKLER ROOM	ZON	VE 2	COMPOSITE DIRTY ANNEX 122	ASTE WATER ORAGE ROOM [123]		
ADD SPRAT GON CLEANER - 1.7KVA ADD DRILL PRESS = 0.4KVA								
ADD BAND SAW = 1.8KVA FROM 2KW-208V-1PH								
ADD AIR CURTAIN = 1.1KVA			GROU					
ADD EF-17 = 0.8KVA FROM 0.25HP-5.8FLA-120V-1PH ADD EF-18 = 0.8KVA FROM 0.25HP-5.8FLA-120V-1PH				DN OR				
ADD EF-19 = 0.6KVA FROM 1/6HP - 4.4FLA-120-1PH	x x x							· _ · _ · _ · _ · _ · _ · _ · _ · _ · _
SF-1 = 1.3KVA FROM 0.5HP-9.8FLA-120V-1PH		ZONE 2						
SUBTOTAL = 23.2KVA NET DIFFERENCE			PAIN BOOT					
ADD EF-10 = 1.0KVA FROM 0.5HP-1.3FLA-600V-3PH		HAZARDOUS AREAS						
ADD EF-16 = 3.7KVA FROM 3HP-3.9FLA-600V-3PH		EXPLOSION OR FLAMMABLE						
ELECTRICAL DUCT HEATER FOR DIRTY COMPOSITE ANNEX = 33.3KVA FROM 30KW			ZON					
ADD 75KVA TX FOR PANEL 'D' AND PANEL 'D2 = 26.6KVA SUBTOTAL = 64.6KVA NET DIFFERENCE	x x		GROUE					
NET DIFFERENCE TO LOAD:			HAZARDOUS	S AREAS		*****	Ì	
THERE IS A CALCULATED NET INCREASE IN LOAD TO THE MAIN SERVICE SWITCHBOARD PP-1 OF: 126.6KVA REMAINING USABLE CAPACITY ON PP-1 BASED ON PEAK PER ABOVE: 312KVA			FLAMMA	BLE			Í	
THE REMAINING USABLE CAPACITY AFTER RENOVATION AT THE PAD- MOUNTED TRANSFORMER AND SWITCHBOARD PP-1 WOULD BE: 185KVA (ESTIMATED)					PLATING ROOM			
						VESTIBULE		
	!							
FLECTRICAL	<							
ROOM ROOM MOM					FD M-IF	MECH. ROOM M-1E		
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BOILER ROOM M-1C		SEWING ROOM	WOMEN'S	S W.R. &	LOCKER ROOM		CLASSROOM	
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COMPRESSOR								
					DRAFTING ROOM			
				SUPPI Y			CLASSROOM	
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(1) HAZARDOUS ZONING 500) SCALE: 1:100

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	POWER
SYMBOL	DESCRIPTION
⊕	SINGLE RECEPTACLE, 240V
Ф	DUPLEX RECEPTACLE, 120V 15A
CD	CONNECTION DIRECT TO EQUIPMENT
ڪ -	SPECIAL PURPOSE OUTLET
⊖= GF	15A DUPLEX RECEPTACLE WITH INTERNAL GROUND FAULT
GS	GAS SENSOR
Q	SINGLE PHASE MOTOR
Q	THREE PHASE MOTOR
	DISCONNECT SWITCH, NON_FUSED
Ľ,	DISCONNECT SWITCH, FUSED
С	CONTACTOR
J	JUNCTION BOX
	MOTOR STARTER, COMBINATION MAGNETIC
\boxtimes	MOTOR STARTER, MANUAL
\bigtriangledown	MOTOR STARTER, COMBINATION MANUAL
	MOTOR STARTER, MAGNETIC
٠	PUSH BUTTON, SINGLE
• •	MOTOR CONTROL BUTTONS, DOUBLE
•••	MOTOR CONTROL BUTTOMS, START-STOP
ß	BARRIER-FREE PUSH BUTTON
Ē	COMBINATION PUSHBUTTON & INDICATOR LIGHT
ÉQ.	COMBINATION BUZZER & DOME LIGHT
DC	DOOR CONTACT
+OL	OCCUPIED LIGHT
PL	PUSH TO LOCK PUSH BUTTON
	ELECTRIC STRIKE
CR	CONTROL RELAY
	ELECTRICAL PANEL (RECESSED MOUNTED)
	ELECTRICAL PANEL (SURFACE MOUNTED)
DO	ELECTRICAL DOOR OPENER
	BASEBOARD RADIATOR
	UNIT HEATER
	ELECTRIC HEATER
	ELECTRIC DUCT COIL
▼	PHONE OUTLET BOX, WALL MOUNTED
HS	PUBLIC ADDRESS SPEAKER, WALL MOUNTED.
	DISTRIBUTION PANEL
DVR	AIR SHOWER DOOR INTERLOCK CONTROL
VFD	VARIABLE FREQUENCY DRIVE
<u> </u>	GROUNDING
n tu	TRANSFORMER
Ŭ,	PAINT BOOTH MAN DOWN ALARM AUDIBLE/VISUAL ALARM DEVICE. REFER TO SPECIFICATION 23 45 00 PAINT SPRAY BOOTH SYSTEMS
<u> </u>	

SYMBOL	DESCRIPTION
	PULL STATION
	AUDIBLE DEVICE
X	WALL MOUNTED STROBE LIGHT
A A A	WALL MOUNTED COMBINATION AUDIBLE/STROBE
${ m O}$	SMOKE DETECTOR
∕∎s	SMOKE DETECTOR WITH RELAY BASE
٩	DUCT TYPE SMOKE DETECTOR
	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR. PROVIDE MONITORING OF DETECTOR THROUGH FIRE ALARM SYSTEM
(FDFD	FIRE DAMPER
СМ	CONTROL RELAY MODULE
MM	MONITORING MODULE
FS	FLOW SWITCH
PS	PRESSURE SWITCH
SS	TAMPER SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
<u> </u>	

	ABBREVIATIONS
SYMBOL	DESCRIPTION
Ν	NEW
E	EXISTING TO REMAIN
Х	TO BE REMOVED
R	EXISTING TO BE RELOCATED. EXTEND EXISTING CONDUIT & WIRING UNLESS NOTED OTHERWISE
EXP	EXPLOSION PROOF
WP	WEATHERPROOF
20A	PROVIDE RECEPTACLE WITH 5-20R CONFIGURATION IN LIEU OF 5-15R

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- SHOWN IN THICK DASHED LINES AND IS MARKED WITH THE LETTER 'R'.
- D. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN LIGHT/GREY SOLID LINES AND IDENTIFIED WITH "E".
- E. CIRCUIT NUMBERS NOTED ARE BASED ON PREVIOUS AS-BUILT DRAWINGS AND PANEL SCHEDULES. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING INSTALLATION ON SITE AND CONFIRM ALL EXISTING CIRCUIT TO BE DEMOLISHED AND/OR REUSE.
- F. UNLESS NOTED OTHERWISE, ITEMS INDICATED TO BE REMOVED ARE TO HAVE WIRING AND ANY SURFACE MOUNT BOXES AND CONDUIT (CONDUIT WHERE ACCESSIBLE) REMOVED BACK TO SOURCE.
- G. FOR FLUSH BACKBOXES ASSOCIATED WITH LIGHTING TOGGLE SWITCHES, RECEPTACLES OR COMMUNICATION JACKS, WHERE A NEW DEVICE IS NOT THEN INSTALLED IN THE SAME BACKBOXES. PROVIDE STAINLESS STEEL COVERPLATES TO COVER UNUSED BACKBOXES. EMPTY FLUSH BOXES TO BE FILLED WHERE WALL TILES ARE BEING INSTALLED ON EXISTING WALLS.
- H. SEAL ALL PENETRATION AFTER DEVICES AND CONDUIT ARE REMOVED.

- DISCONNECT AND REMOVE EXISTING RECEPTACLE. MODIFY EXISTING WIRING TO MAINTAIN POWER TO 4. EXISTING DEVICES TO REMAIN ON SAME CIRCUIT. TYPICAL.
- 5. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE.
- ELECTRICALLY DISCONNECT EXISTING EXHAUST FAN COMPLETE WITH ASSOCIATED DISCONNECT SWITCH. RETAIN ASSOCIATED WIRING, DISCONNECT SWITCH FOR RECONNECTION TO NEW FAN.
- REPLACE PANEL 'D' 225A-120/208V-3PH-4W, 42 CIRCUIT SURFACE MOUNT PANEL WITH 225A-120/208V-3PH-4W, MINIMUM 60 CIRCUIT PANEL. RECONNECT EXSITING CIRCUITS TO BREAKERS AND PROVIDE NEW BREAKERS & CIRCUITS AS INDICATED ON DRAWING 560.
- 8. ELECTRICALLY DISCONNECT EXISTING SPRAY BOOTH. REMOVE ASSOCIATED WIRING AND ACCESSIBLE/SURFACE CONDUIT, BOXES, ETC BACK TO PANEL LP-A. MARK BREAKER(S) AS SPARE.
- 9. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCH AND STARTER FOR SPRAY BOOTH EXHAUST FANS EF-8 AND EF-9. REMOVE ASSOCIATED CONDUIT AND WIRING UP TO FAN ON ROOF. REFER TO DRAWING 540 FOR LOCATION OF FANS.
- 10. DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM C/W CONTROL PANEL, ANNUNCIATOR PANEL, DEVICES AND WIRING. CONTRACTOR IS TO ADVISE DCC AT LEAST 8 WEEKS IN ADVANCE OF PLANNED OUTAGE OF FIRE ALARM SYSTEM. FIRE WATCH FOR DURATION OF PERIOD WHEN WORK IS TO BE COMPLETED IS TO BE PROVIDED BY DND .

11.	EXISTING PANEL BOARD WITH NO LABEL (TAG AS "D2") TO REMAIN.	
12.	REMOVE "PAINT BOOTH IN-USE" EXPLOSION PROOF INDICATOR LIGHT.	
13.	EXISTING DEVICES WERE ALREADY REMOVED. REMOVE ANY SURFACE MOUNTED CONDUIT & BOXES, PROVIDE STAINLESS STEEL COVERPLATES OVER RECESSED BACKBOXES.	5
14.	COMMS/PHONE BOXES TO BE REMOVED FROM ROOMS 111 AND 109 TO HAVE ANY COMMS WIRING REMOVED BY DND PRIOR TO CONTRACT AWARD. CONTRACTOR TO REMOVE ANY REMAINING JACKS/PULL BOXES AND REPAIR SURFACES TO MATCH EXISTING.	
15.	ELECTRICALLY DISCONNECT EXISTING EXHAUST FAN. REMOVE ASSOCIATED ELECTRICAL COMPONENTS, CONDUIT & WIRING BACK TO SOURCE. MARK BREAKER AS SPARE.	
16.	DISCONNECT AND REMOVE ANY WIRING BACK TO SOURCE AND REMOVE SURFACE MOUNTED JUNCTION BOX DIRECT CONNECTION POINT AT FLOOR. SUCH THAT FLOOR TO BE MADE SMOOTH (REFER TO ARCHITECTURAL DRAWINGS). REMOVE ANY ASSOCIATED REDUNDANT CONDUIT EXPOSED IN FLOOR WITHIN THE SLAB WHEN CUTTING FOR THE NEW SANITARY LINES. MARK BREAKER AS SPARE.	
17.	CONFIRM/TRACE EXISTING CIRCUIT. IF DESIGN CALLS FOR REUSING CIRCUIT FOR ANOTHER PURPOSE, CONNECT TO SPARE CIRCUIT IN PANEL (ASSUMED AS CIRCUIT D-19).	1
18.	DISCONNECT AND REMOVE WIRING AND ALL ACCESSIBLE/SURFACE MOUNT BOXES, CONDUIT , ETC FROM LIGHT BOX EXHAUST FAN. MARK BREAKER AS SPARE.	
19.	EXISTING SURFACE MOUNTED CONDUIT TO BE CONCEALED BEHIND NEW WALL FURR OUT. PROVIDE ACCESS COVERS TO ACCESS JUNCTION BOX AND LB.	1
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				17 HANGAR S CFB BORDEN	TREET.,	
				ON I ARIO PROJECT PROJET		
23	3. PROVIDE CONDUIT & WIRING FRO	OM COMPOSITE DIRTY ANNEX 122 CONTROL PAP	NEL TO CONTROL FUNCTION OF EF-17,		IG CONTA CIES IN BU	MINA JILDII
	EF-18 AND SF-1. REFER TO MECI BOX AND 120V CIRCUIT IN PROXI CONTROL PANEL AND HAZARDO SPECIFICATIONS.	HANICAL DRAWINGS AND SPECIFICATIONS FOR IMITY OF CONTROL PANEL FOR POWER AND ASS US GAS-DETECTION AND ALARM PANEL. REFER	EXTENT OF WORK. PROVIDE JUNCTION SOCIATED MECHANICAL CONTROLS FOR TO MECHANICAL DRAWINGS AND	TRADE MÉTIER		
24	 HAZARDOUS WASTE CONTROL P CONTROL PANEL/ALARM. CCT. LF TERMINATE 15A-120V CIRCUIT TO 	PANEL AND SUMP PUMPS SP-1A, SP-1B, EACH 0.4 PA-18.	HP, 8.5FLA, 120V PUMPS (LEAD LAG).			
26	 MOUNT AT 1200mm ABOVE FINISI PAINTBOOTH CONTROL PANEL. F PROVIDES POWER TO CONTROL 	HED FLOOR. REFER TO SPECIFICATION 23 45 00 PAINT SPRAY PANEL, PAINTBOOTH ELECTRICAL TRADE PROV	BOOTH SYSTEMS. THIS TRADE IDE POWER FROM CONTROL PANEL TO	FIRE	ALARM - NE	
	BOOTH ACCESSORIES, LIGHTING GND - 78mmC FROM PANEL PP-1 SHUTDOWN WIRING FOR MUA-3	G, MUA-3 AND EF-14. CONTROL PANEL TO BE ON TO PAINTBOOTH CONTROL PANEL. PROVIDE FIF AND EF-14 TO TERMINATE AT CONTROL PANEL.	CIRCUIT PP1-37.39,41. PROVIDE 4#2/0 + RE ALARM FAN MONITORING AND	DESIGNED ÉTUDIÉ N.M.	XEVIEWED REVU XX XX X.X.	
27	7. PROVIDE CONDUIT & WIRING FRO OR LOCATED AT PAINTBOOTH CO LIQUID-TIGHT FLEXIBLE METAL CO REFER TO SPECIFICATION 23 45 WIRING FOR MULL 2 TO TERMINED	UM MUA-3 PAINTBOOTH CONTROL PANEL AT RO ONTROL PANEL AND POWERED BY PAINTBOOTH CONDUIT C/W EXPLOSION PROOF CONNECTORS 00 PAINT SPRAY BOOTH SYSTEMS. FIRE ALARM	UM 125. VED FOR MUA-3 IS INTEGRAL CONTROL PANEL. PROVIDE FOR CONNECTION TO UNIT MOTORS. FAN MONITORING AND SHUTDOWN	Q.G. CHECKED VÉRIFIÉ		X
28	PROVIDE 3#4 + GND IN 35mmC. 8. PA CONDUIT & WIRING TO BE RE	ROUTED/EXTENDED PER DEMOLITION SPECIFIC	NOTE # 1 ON DRAWING 501.	N.M. COORDINATION X.X.		X. FI X
29 30	 PROVIDE DUCT DETECTORS AND PROVIDE CONDUIT, WIRING AND CONTROL PANEL, AUDIBLE. AND 	D CONTROL MODULES FOR MUA-3. COORDINATE BACKBOX FOR EXPLOSION RATED HAZARDOUS VISUAL ALARM PANEL. REFER TO MECHANICAL	E EXACT LOCATION ON SITE. GAS SENSOR C/W ASSOCIATED DRAWINGS AND SPECIFICATIONS.	WBS NO. NO. OTP N.700113.18.05 DWG. NO. NO. DESSIN	BN1	186586
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Sheet 5 of 9

		Government G
TES:	GENERAL NOTES:	
(REFER TO MECHANICAL DRAWING		UNCLASS NON CLASS
	 REPERTO DRAWING 500 FOR LEGEND. B. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHE SHOWN IN THICK DASHED LINES. 	D IS This design is an instrument of service and is protected by copyright instrument of service belongs to the consultant. Copies including e for the purpose intended and for a one-time use, on the same site, not be offered for sale or transfer without the express written conserved.
s, ETC.	C. EXCEPT AS NOTED OTHERWISE ALL EXISTING EQUIPMENT TO BE RELOCATED	IS Cette conception est un instrument de service protégé par le droit d l'instrument de service de l'expert-conseil appartient à ce dernier. L
DLS INDOOR FOR UNIT FIRE ALARM 13, EF-14, EF-15, HRV-1 ETC.).	 D. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHO THIN SOLID LINES. 	y compris les exemplaires électroniques, ne peuvent servir qu'aux sur le même chantier et pour le même projet. Ils ne peuvent être of le consentement écrit exprès de l'expert-conseil. WN IN
TIONS WITH WIRELESS FIRE HALL AND CAN BE BYPASSED.	E. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING INSTALLATION	ON ON
ECTRICAL SHOP WILL ASSIST IN		
	F. FROVIDE NEW WIRING AND CONDOIT (MIN. 2 IIIIII) FOR FIRE ALARM STSTEM.	
M M-1B. REFER TO NOTE 10 OF		
/IEZZANINE.		
ND REMOVE ALL WIRING AND	FIRE ALARM ZONE LIST:	
	FA ZONE 1 - GROUND FLOOR F/S FA ZONE 2 - COMPOSITE ROOM F/S 120,121	
	FA ZONE 3 - MEDIA BLASTING RM F/S 116 FA ZONE 4 - FIBRE GLASS RM F/S 114 FA ZONE 5 - TEXTU E/SEMING RM F/S 112.1	12
RTY ROOM 121. REFER TO S.	FA ZONE 5 - TOOL & STORAGE RM F/S 110 FA ZONE 7 - MEN'S W R & LOCKER ROOM 2	104 F/S
	FA ZONE 8 - BAL OF EXT. F/S FA ZONE 9 - STAFF MEZZ. F/S 201, 202	
	FA ZONE 10 - PAINTBOOTH F/S 125 FA ZONE 11 - PAINTBOOTH ALARM	
	FA ZONE 12 - RESERVED FA ZONE 13 - MAIN SPRK. F/S	
	FA ZONE 14 - SPRINKLER RM M-1A 1/S #1 FA ZONE 15 - SPRINKLER RM M-1A 1/S #2 FA ZONE 16 - GROUND ELOOR T/S	
	FA ZONE 13 - COMPOSITE RM T/S 120, 121 FA ZONE 18 - MEDIA BLASTING T/S 116	
	FA ZONE 19 - FIBRE GLASS RM T/S 114 FA ZONE 20 - TEXTILE/SEWING RM T/S 112, 1	113
	FA ZONE 21 - TOOL & STORAGE RM T/S 110 FA ZONE 22 - MEN'S W.R. & LOCKER ROOM 1	
G AND CONDUIT (MIN. 21mm) FOR FIRE ALARM S	(STEM. FA ZONE 23 - BAL OF EXT. 1/S FA ZONE 24 - STAFF MEZZ. T/S 201, 202 FA ZONE 25 - SPRINKLER RM 1A T/S #3	H-12 HANGAR STREET
EXACT NUMBER OF DEVICES.	FA ZONE 25 - SI KUKLER KM M-1A 1/S #3 FA ZONE 26 - SPRINKLER RM M-1A T/S #4 FA ZONE 27 - MAIN SPRINKLER SHUT-OFF	
G FIRE ALARM PANEL CIRCUIT, AND CONNECTION SUBSCRIBER/TRANSCRIBER, ALL FIRE ALARM D	N TO EVICES, FA ZONE 28 - RESERVED FA ZONE 29 - RESERVED	
R SPECIFICATION AND CFB BORDEN REQUIREME	A'FA ZONE 30 - PAINT RM STORAGE HEAT 127NTS.FA ZONE 31 - PAINT RM STORAGE PULL 127	
	FA ZONE 32 - MECH. MEZZ FA ZONE 32 - ELECT RM #1 HEAT M-1B	LANDY LAND
	FA ZONE 33 - ELECT RM #1 POLL M-1B FA ZONE 34 - TELEPHONE RM 128 FA ZONE 35 - ELECT RM #2 E-1A	SITE PLAN
	FA ZONE 33 - ELECTINM #2 E-1A FA ZONE 36 - BOILER RM M-1C FA ZONE 37 - COMPRESSOR RM M-1D	
	FA ZONE 38 - PLASTIC MEDIA RM 116 FA ZONE 39 - FIBER GLASS RM 114	OFESSION
	FA ZONE 40 - MAIN LOBBY EXT FA ZONE 41 - STAFF MEZZANINE 201, 202	9025-02-96
	FA ZONE 42 - CORRIDOR FA ZONE 43 - PAINT SPRAY RM 125 FA ZONE 44 - VESTIBULE EXIT 100	N.W.G. MURPHY
	FA ZONE 44 - VESTIBULE EXIT 100 FA ZONE 45 - MEN'S LOCKER RM 104 FA ZONE 46 - WOMEN'S LOCKER RM 109	100058960
	FA ZONE 47 - BARRIER-FREE WASHROOM 11 FA ZONE 48 - PAINT ROOM 119	
	FA ZONE 49 - COMPOSITE DIRTY RM 121 FA ZONE 50 - CADMIUM PLATING RM 120	CEOF CRIT
	FA ZONE 51 - COMPOSITE DIRTY ANNEX 122 FA ZONE 52 - WASTE WATER STORAGE RM	123
	FA ZONE 55 - STATE MEZZ STAIRS FA ZONE 54 - COMPRESSOR HEAT M-1D FA ZONE 55 - SYSTEM FIRE ALARM	
0	FA ZONE 56 - STAIRWELL 200 FA ZONE 57 - MUA-1	
	FA ZONE 58 - MUA-2 FA ZONE 59 - MUA-3	
	FA ZONE 60 - MUA-4 FA ZONE 61 - EF-1	
	FA ZONE 62 - EF-2 FA ZONE 63 - EF-3 FA ZONE 64 - EE-4	
	FA ZONE 65 - EF-10 FA ZONE 66 - EF-11	
	FA ZONE 67 - EF-13 FA ZONE 68 - EF-14	
	FA ZONE 69 - EF-15 FA ZONE 70 - EF-16	
EXPLOSIVE AREA CLASSIFICATION - ZONE 1 (I	SIDE PAINT BOOTH) FA ZONE 71 - EF-17 FA ZONE 72 - EF-18	
	FA ZUNE 73 - EF-19 FA ZONE 74 - SF-1 EA ZONE 75 - CARRON MONOVIDE - ROUED	1 2025/03/05 100% SUBMISSION - ISSUED
	FA ZONE 73 - CARBON MONOVIDE - BOILER FA ZONE 76 - CARBON MONOVIDE - CORRID FA ZONE 77 - CARBON MONOVIDE - MECH R	OR 100C NO. DATE REVISION
	FA ZONE 78 - CARBON MONOXIDE - MECH R	M M-1E SCALE ÉCHELLE 1 0 1 2 3

1. POWER SUPPLY TO BE MOUNTED IN THE CEILING WHERE POSSIBLE

2. ALL WALL MOUNTED MATERIAL IS TO HAVE WIRING BROUGHT BACK

3. LOW VOLTAGE AND HIGH VOLTAGE WIRING ARE NOT TO BE RAN

4. ONE 15A CIRCUIT IS NEEDED FOR THE POWER SUPPLY BOX.

5. BUTTON LOCATIONS ARE TO BE CENTERED 1100mm FROM FINISHED FLOOR LEVEL OR AS INDICATED ON ARCHITECTURAL

6. BACKBOXES, CONDUITS AND 120V CIRCUIT BY THIS TRADE. 7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND

8. ENSURE ENTRANCE DOOR CAN BE OVER RIDDEN FROM THE

9. LED COMBINATION DOME LIGHT AND SOUNDER. FOR USE OUTSIDE THE WASHROOM, WEATHER AND VANDAL RESISTANT, RED LED ILLUMINATION, 93DB PIEZO SOUNDER WITH VOLUME ADJUSTMENT.

10. COMBINATION EMERGENCY PUSHBUTTON AND INDICATOR LIGHT/BUZZER RED, PUSH-PULL-MUSHROOM BUTTON WITH STAINLESS STEEL FACEPLATE. BILINGUAL LETTERING.

11. LED ASSISTANCE REQUESTED ANNUNCIATOR WITH SOUNDER AND STAINLESS STEEL FACEPLATE. BILINGUAL LETTERING.

FA ZONE 80 - FIRE ALARM STROBES

- 12. STEEL ILLUMINATED PUSHPLATE STYLE PUSHBUTTONS WITH UNIVERSAL SYMBOLS FOR "PUSH-TO-OPEN" AND "PUSH-TO-LOCK" DEVICES. RED ILLUMINATION TO INDICATE LOCKED/IN-USE AND GREEN ILLUMINATION TO INDICATE UNLOCKED/VACENT. BILIGUAL SIGNS TO EXPLAIN ILLUMINATION.
- 13. SIGN WITH 25mm HIGH LETTERS WITH A 5mm STROKE READIING "IN THE EVENT OF AN EMERGENCY, PUSH BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE." SIGN SHALL BE BILINGUAL AND ENGRAVED AND MOUNTED ABOVE THE EMERGENCY BUTTON.
- 14. ADVANCED LOGIC RELAY CONTROLLER. MINIMUM 5 INPUTS INCLUDING A 'WET' INPUT, CAN BE USED WITH NORMALLY LOCKED OR UNLOCKED WASHROOMS TO CONTROL DOOR OPENER AND ELECTRIC STRIKE, ETC.
- 15. POWER SUPPLY 12-24VDC/1.0A POWER SUPPLY C/W BUILT-IN GELL CELL BATTERY CHARGER, AUTOMATIC SWITCHOVER TO STANDBY BATTERY IN CASE OF AC POWER FAILURE & JUNCTION BOX.
- 16. TRANSFORMER 120/16VAC 40VA.
- 17. OCCUPIED LIGHT. INCORPORATED INTO OUTSIDE DOOR OPERATOR (STEEL PLANT WITH GREEN/RED ILLUMINATION AROUND IT).
- 18. MAGNETIC DOOR CONTACT.
- 19. UNIVERSAL ELECTRIC STRIKE.

SECOND FLOOR PLAN FIRE ALARM LAYOUT AND DIAGRAM REVIEWED | REVU PRODUCTION XX | XX DESIGNED | ÉTUDIÉ I N.M. DRAWN | DESSINÉ CHECKED | VÉRIFIÉ N.M. COORDINATION XX. X.X. PF NO. | NO. DP BN186586 WBS NO. | NO. OTP N.700113.18.05 DWG. NO. | NO. DESSIN B147-9618/12-505

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17 HANGAR STREET.

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CFB BORDEN

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SUBJECT | SUJET

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VIT & W PAINT PROOI IITORIN DE 3#6 ND-27m ED. PF TACLE HAVE HAVE HAVE SND -211 NR LOC	IRIN(BOO) F CO NG AI + GN mmC F ROVIE MIN IN-U 33 FO THIS mmC ATIO QUID	G FR TH C NNE ND S ID IN FROM DE LI 750 SE V R CI S DR/ S FRO S FRO FRO -TIG	OM ON CTC HU 27r A VI QU WEA RCI AWI DM E S ⁻	EF TRC DRS TDC ENT ID-1 AB THI JITI NG VEN FAR EXH	-14 DL F S FC DWI C. TILA TIGI SOV ERF NG AR NTIL RTEI	TO PAN DR (N W ATIC HT E T PRC RE LAT R. F SLE	PA VEL CON VIRII DN U FLE OP OOF QU IEW FAN ME	ID F ECT FC T T BLE RC DVE EME ND NIT DE		H C VEF N T(EF-1 COM ETA TYF S C BE SCC UID	ON 2 0 0 4 1 10 0 10	NT DEJNI JNI CO DRI AL FA ST IGI FO	FRC BY IIT D TI ATI DNE CDIN AN TAL EC1 iHT ST, DR (OL MC ER ION DUI NA EF LLE T S CO	PAI AIN OTC MIN N S IT C .TE ED. SWIT LEX RTE DNN	NE ITB(ORS NA TAI C/W INS PO RE TCI IEC	EL A OO S. TE VE STA STA OWE ECE H T LE I N E CTIC	ROC CO FEF PAI LOS ATIO ACL ASS TAL CTF TO F	DM 1 DNTF R TC INTE MEZ GION ON FROI LES GOCI _ CO RICA FAN	I25 ROL D S BOC ZZAI I PF WIT M S TO IAT I DND	BE PPE OTH NINROO TH I SPL D BE ED DUIT ROO OTC	LO ANE CIF H C DF ME ME ITT E CO ST T FO OM	W EL ON COI CH/ CH/ CAR CAR	VF PFATIC TR CHNN AN IN PLI TEI CC	ETI	FO VIE 123 . PA DOI CTC AL 	R M DE L 45 ANE M (I DR F TRA 1-1E WI ER	IUA IQU 001 EL. F OPET FOR ADE 3 TH " CTF DN TO	-3 A JID- PAI RC AIL CC S. 'IN-' RIC/ TO DR	ANE TIG NT DM I ALL ALL ALL FAI AW	D VF SPF SO5) NEC - PF E" V ROCO N M	ED F FLE RAY NTB ANI TIO ROV VEA	OR I EXIB BO OOT D FF N TC IDEL IDEL M-1E DR. 3 FO	EF-11 LE M OTH TH CO ROM D FAI D EX RPR B. RE	3 AF IET/ SYS ONT STAN M TER	RE AL 0 STE TRO ART IOT RIOI	INTI CON EMS DL F FER OR. R	EGR NDU 3. FI 'ANE TO ER	

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	DESCRIPTION	CATALOGUE NUMBER	LAMPS PER FIXTURE						ΤΟΤΑΙ			
TYPE			NO.	TYPE	WATTS	COLOUR	LUMENS	VOLIS	WATTS	MOUNTING	REMARKS	
A1	LUMINGEN TECHNOLOGIES	FAL-EX-0072-120-4K070120SPCL	1	LED	72	4000K	9828	120	72	SUSPENDED TO	LINEAR EXPLOSION PROOF FIXTURE	
	HOLOPHANE	HEXSL4MV4KT4MCL-HEXSIBC	1	LED	80	4000K	9560	120	80	MOUNTING	CLASSIFICATION ZONE 2 GROUP IIA	
	HAZLUX	LI1-8-1-K4-W-TG-chain mount-G	1	LED	80	4000K	9600	120	80	HEIGHT 2750mm		
A2	LITHONIA	CSVTL486000LMMVOLT40K80CRICSVTRMBU	1	LED	49	4000K	6213	120	49		150X1200mm FIXTURE WHITE	
	COOPER METALUX	4VT3LD56G120VL840CD1U-VT3-SS-VBK	1	LED	51	4000K	6033	120	51	MOUNTING	HOUSING, DIFFUSE ACRYLIC	
	DAY-BRITE CFI	DWAE(6000lm)L840-4-UNV-TBK-FKR-126	1	LED	55	4000K	6000	120	55	HEIGHT 2750mm	LENS. SEALED INDUSTRIAL.	
P 1	SIGNIFY/DAY-BRITE	1TG32L8404FS02F347DIM	1	LED	30	4000K	3200	347	30	RECESSED MOUNTING	RECESSED 300X1200mm, WHITE HOUSING/TRIM, FROSTED	
	COOPER METALUX	14GRLD536F1347L840CD1	1	LED	35	4000K	3600	347	35	1		
	LITHONIA	GTL433L347EZ1	1	LED	29	4000K	3465	347	29		ACRYLIC LENS	
B2		OWI 440I 840347DIM	1	I ED	37	4000K	3033	347	37	SURFACE MOUNT	1200mm SURFACE WRAP .	
	COOPER METALUX	4WNLED-LD4-40SL-F-347-L840-CD1U	1	LED	30	4000K	4000	347	30		WHITE HOUSING, FROSTED ACRYLIC LENS.	
	LITHONIA	LBL44000LM80CRI40KMIN1GZT347	1	LED	32	4000K	4000	347	32	-		
C2		ZL1DL48SMR3000LMFST34740K80CRIWH	1	LED	30	4000K	3880	347	30		1200mm STRIP FIXTURE , WHITE HOUSING, FROSTED ACRYLIC ROUND LENS.	
	COOPER METALUX	4SNX37SLLW347L840CD1	1	LED	24	4000K	3545	347	24	MOUNTING		
	DAY-BRITE CFI	FSS440L840347DIM	1	LED	30	4000K	4000	347	30	HEIGHT 2750mm		
C3	LITHONIA	ZL1DL48SMR3000LMFST12040K80CRIWH	1	LED	30	4000K	3880	120	30	SURFACE MOUNT IN	1200mm STRIP FIXTURE , WHITE HOUSING, FROSTED ACRYLIC ROUND LENS.	
	COOPER METALUX	4SNX37SLLWUNVL840CD1	1	LED	24	4000K	3545	120	24	STORAGE ROOM 124, OTHERWISE SUSPENDED TO		
	DAY-BRITE CFI	FSS440L840120DIM	1	LED	30	4000K	4000	120	30	MOUNTING HEIGHT 2750mm		
4.0			1		47	4000K	5000	120				
A3	VISCOR/CERTOLUX				47	4000K	5200	120	47		600X1200mm FIXTURE , WHITE HOUSING, DIFFUSE ACRYLIC LENS. CLASSIFICATION CLASS I, ZONE2, GROUPS IIC, IIB +H2, IIA	
	KURIZON	TLX12-S-1-2X4-2LEDR-840-120V-P12ACR	1	LED	55	4000K	6/18	120	55	SURFACE MOUNT		
	KENALL	HSESO2460L40KDCC1202F2HSYM	1	LED	68	4000K	/895	120	68			
A4	LITHONIA	CSVTL485000LMMVOLT40K80CRICSVTRMBU	1	LED	42	4000K	4946	120	42	SUSPENDED TO	150X1200mm FIXTURE, WHITE	
	COOPER METALUX	4VT3LD55G120VL840CD1U-VT3-SS-VBK	1	LED	44	4000K	5405	120	44	MOUNTING HEIGHT 2750mm	LENS. CLASSIFICATION	
	DAY-BRITE CFI	DWAE51L840-4-UNV-TBK-FKR-126	1	LED	46	4000K	5129	120	46		IP65 RATED	
F1	SIGNIFY/LIGHTOLIER	4RN-CAL15940MZ103-C4RSLWH	1	LED	16	4000K	1500	347	16	RECESSED LENS POT LIGHT WITH LOC/	LENSED 100mm POTLIGHT	
	COOPER HALO COMMERCIAL	HC415D010347-HM40525840-41MDW	1	LED	14.5	4000K	1500	347	14.5		WITH WHITE TRIM, WET LOCATION LISTED	
	CURRENT	LFR-4RD(SH)-15L8WDDM134-LFR-4RD-T-SH-WTAML	1		12	4000K	1500	347	12	1		

* = PROVIDE NEW BREAKER CONNECTED LOAD AS NOTED ON PANEL SCHEDULE: 20.6KW ESTIMATED DIVERSITY: 0.7 LOAD WITH DIVERSITY: 14.5KW

HOT WATER 3000W 20 29 30 20 1500W ELEC BASEBOARD H UNLESS OTHERWISE INDICATED, ALL BREAKERS SHOWN ARE EXISTING

* = PROVIDE NEW BREAKER

CONNECTED LOAD AS NOTED ON PANEL SCHEDULE: 47.7KW ESTIMATED DIVERSITY: 0.7 LOAD WITH DIVERSITY: 33.4KW

PANEL "DP2" (NEW)

347/600 VOLT, 3PH, 4W

ESTIMATED DIVERSITY: 1.0 LOAD WITH DIVERSITY: 90KW \oplus

			120/208 225 SURF/ (FED FF (EATO	VOLT AMP I ACE M ROM P N PRL	, 3PH, 4W MAINS OUNTED ANEL "B") -1a 10kA)		
114-1 2 2		_ 380W	1 [N. 2 (45)	_380W	
UH 4 5 6 7		380W			4 (15)	380W	
UH-8 9		380W	15 5		6 15	380W	SEWING MACHINE
01-0,9		380W	15 7		8 15	380W	SEWING MACHINE
	SEWING MACHINE	380W	15 9		10 15	380W	SEWING MACHINE
:TI	SEWING MACHINE	380W	15 11		12 15	380W	SEWING MACHINE
CONTROLS	RECEPTACIES	600W	15 13		14 15	200W	RECEPTACI ES RM 112 114
BOOSTER PUMP	RM 114 RECEPTACLES	600W	15 15	_	16 15	750W	RECEPTACLES RM 112.114
TROLS	RM 116,117 RECEPTACLES	450W	15 17		18 15	200W	BLASTER
	COLLECTOR	500W	15 19		20 15	300W	CEILING FAN
	SEWING MACHINE	380W	15 21		22 15	500W	PROJECTOR
	SEWING MACHINE	380W	15 23		24 15	380W	SEWING MACHINE
LUG	SEWING MACHINE	380W	15 25		26		
	SEWING MACHINE	380W	15 27		28 15	1000W	
) HTR	SEWING MACHINE	380W	15 29		30 15	380W	SEWING MACHINE
	RECEPTACLE	380W	15 31		32 15	380W	SEWING MACHINE
	RECEPTACLE	380W	15 33		34 15	380W	SEWING MACHINE
	SEWING MACHINE	380W	15 35		36 15	380W	SEWING MACHINE
			37		38		
	MEDIA BLASTER #1	2000W			40	2000W	MEDIA BLASTER #2
	Ĺ		15 41		42 15		
			45	+			
					50		
			51		52		
			53	•	54		
			55		56		
			57		58		
			59	•	60		
		UN BR *=	LESS OTHE EAKERS SH PROVIDE N	RWISE OWN / EW BF	E INDICATEI ARE EXISTIN REAKER), ALL NG	
	CONNE ESTIM/ LOAD	ECTED ATED D WITH D	LOAD AS NO IVERSITY: 0 IVERSITY: 1	DTED .7 3.0KW	ON PANEL S	SCHEDU	LE: 18.6KW
- 3#3 & 1#8BD IN 35mmC	C 50MCM &1#4BD IN 78mmC 4-350MCM & PANEL D FEED THROUGH ROVIDE FUSED DISCONNECT SWIT #6GD TO BUILDING GROUND	1#4BD I IEL 2 ICH MIN	IN 78mmC NIMUM 200A/	F200A			
L NEW TRANSFOR 75kVA-600/120/2	RMER "TX-D" 208V-3PH	$\left(\right)$			GENF	RAI	NOTES:
			A. ALL	NEW P	ANEL SCHE	DULES	AND EQUIPMENT LABFI S

		"PP-1"			PANEL	_ "LPA"		Gc	overnment Go	
1200 AMP MAINS (600A-3P MAIN BREAKER) SURFACE MOUNTED				225 AM SURFACE	P MAINS MOUNTED					
(CUTLE	FED FROM 500kVA-12) R-HAMMER WESTINGHO	kV/347/600V, 3PH TX) DUSE SWITCHGEAR U	JNIT 25kA)	(F	ED FROM DP TO BREA (TWO TUB SQUARE	KER THROUGH 30kVA D NQOB QBL30 10kA)	TX)		ZEAU DE SECURITE	
	S.		45kVA	PAINT BOOTH RM 125 LTG	<u>1900W * 20 1</u>	N. 2 15 1000W	PURGE AIR FANS	This design is an instrument of s instrument of service belongs to	ervice and is protected by copyright, the consultant. Copies including electron	
AIR COMPRESSOR AC-1 150A, 600V 3Ø	63000W 3 (ASSUMED) 150 5	4 22600W	TRANSFORMER FEED PANEL B	FUTURE BREATHING AIR DIST. PANEL	100W * 15 3 100W * 15 5	4 15 8W 6 15 0W	EXIT LIGHT (SPRAY) (LOAD REC. (SPRAY AREA) ASSUMED	not be offered for sale or transfer	a one-time use, on the same site, an without the express written consent of	
AIR COMPRESSOR AC-2	63000W	8 8000W	60A, 600V	LOBBY HEATERS	2000W (7) 9	8 15 0W	VENT CON. PNL PWR IN DEMO)	l'instrument de service de l'exper y compris les exemplaires électr	t-conseil appartient à ce dernier. Les pniques, ne peuvent servir qu'aux fins	
150A, 600V 3Ø	(ASSUMED) 150 11		SPLITTER	LOBBY HEATERS		12 15 10W	MUA-3 GECI REC FOR CAB HEATER SPRAY SOLINOID	le consentement écrit exprès de	l'expert-conseil.	
RELABEL AS SPARE		14 16 14500W	PANEL AA	LIGHTING 123		14 15 0W 16 15 0W	UNIT HTRS (SPRAY) DRY CHEM. SYSTEM (LOAD ASSUMED REMOVED IN DEMO)			
		18 60 20			2000W 20 17 100W * 20 19	18 40 * 2300W	HAZARDOUS WASTE PUMPS CTRL PANEL			
P-1 & P-2 20A, 600V 3Ø	12500W 21	22 11500W	MUA-2	RECEPTACLES	20 200W 15 21	22 2500W	PAINT BOOTH O/H DOOR	ARCH	ITECTU	
	(ASSUMED) 20 23	24_/ 15 (ASSUMED)))	CLASSROOM LIGHTING F/A PANEL ALARM	1000W 15 23 1000W 20 25	24 15 26 20 * 100W	MUA-3 MAINTENANCE REC.			
REFRIGERATED AIR DRYER 15A, 600V 3Ø	7300W 27 (ASSUMED) 15 29	28 11500W 30 (ASSUMED)	MUA-1		500W 15 27 100W 15 29	28 15 100W 30 15 100W				
		32	45kVA	RECEPTACLE	100W 15 31	32				
RELABEL AS SPARE		34 6860W 36 40	TRANSFORMER FEED PANEL G		15 33	34 4000W	BELT SANDER			
PAINT BOOTH	90000W 39	38 40 2800W	MUA-4		<u>15</u> 37	<u>38</u> 20 2000W 40	HEATER ELEC. RM			
CONTROL PANEL	* 125 41	42 15 *		REC. ROOM 120	100W 15 41	42 20 <u>3000W</u>	HOT WATER TANK			
PANEL 'DP2'	<u>43</u> <u>88300W</u> <u>45</u>	44	SPACE	REC. NORTH WALL RM 120 CLASSROOM HEATERS	1000W 15 43	44 20 2000W 46 30 1000W	UNIT HEATER FRIDGE RECEPTACLE			
	* 225 47	48		CLASSROOM HEATERS	1000W 15 47	48 15 1000W 50 15 1000W	FREEZER			
SPACE	51	52	SPACE	SPLIT REC. NORTH WALL RM 120	200W 20 51	52 20 4000M	WELZZ & STOR, ETG	-		
)	EXCESS PRESSURE PUMP FP-1 RECEPTACLE	<u>864W</u> 15 53 100W 15 55	54 20 1000W 56 15 100W	EXHAUST FAN RECEPTACLE			
SPACE	57	<u>58</u> 60	SPACE	HEATERS ELEC RM	2000W (15) 59	58 20 60 20 1500W				
		••••••••••••••••••••••••••••••••••••••	2				UNIT HEATER			
	UNLESS OTHERWISE INDICATED, ALL BREAKERS SHOWN ARE EXISTING * = PROVIDE NEW BREAKER CONNECTED LOAD AS NOTED ON PANEL SCHEDULE: 402.1KW ESTIMATED DIVERSITY: 1.0 LOAD WITH DIVERSITY: 402.1KW ACTUAL MEASURED PEAK DEMAND OVER 12 MONTHS, PRIOR TO PROPOSED RENOVATION = 137KVA				BREAKERS SHOW			H-12 H-13		
				CONNECTED LOAD AS NOTED ON PANEL SCHEDULE: 36.1KW						
					LOAD WITH DIVERSITY: 25.	3KW				
	PANE				PANE	L "D2"		- LUDDEL LA		
	120/208 VOL I, 3PH, 4W 225 AMP MAINS SURFACE MOUNTED				225 AM SURFACE	P MAINS MOUNTED		SITE PLAN	HANGAR STREE	
	(FED FROM ADJA) (10k	CENT 75kVA TX) A)			(FED FRON (EATON F	1 PANEL "D") 'RL-1 10kA)				
EXISTING CIRCUIT	S. 1500W 20 1	N.	RECEPTACLE 103		S.	N.)	80FEB810	may	
EXISTING CIRCUIT		4 15 600W	RECEPTACLES	CORD DROPPED REC ROOM 121	<u>5600W</u> 3	4 <u>5600W</u>	CORD DROPPED REC ROOM 121	2025-02-26	18	
ROOF TOP RECEPTACLE	100W 20 7	8 15 600W	RECEPTACLES RECEPTACLES	ĺ		8		N.W.G. MUR	PHY B	
EXISTING CIRCUIT	9 3000W 00 11	10 15 200W 12 15 200W	RECEPTACLES	CORD DROPPED REC ROOM 121	<u>5600W</u> 9	10 5600W	CORD DROPPED REC ROOM 121	1000588	50	
EXISTING CIRCUIT		14 15 200W	RECEPTACLES			14 15 * 696W	EF-17	30	TARIO	
BELT SANDER	<u>4500W</u> <u>30</u> <u>15</u> <u>1200W</u> <u>15</u> <u>17</u>	16 15 200W 18 15 200W	RECEPTACLES RECEPTACLES	SPARE		16 15 * 696W 18 25 * 1176W	EF-18 SF-1	THE OF U	Also.	
EXISTING CIRCUIT	300W 15 19	20 15 400W	POWER POLES 103	[20 * 4500	REC. NORTH WALL			
EXISTING CIRCUIT EXISTING CIRCUIT	200W 15 21 200W 15 23	22 15 100W 24 15 600W	REC. WOMEN W/R 109 POWER POLES 103	AIR SHOWER	<u> </u>		REC. NORTH WALL			
EXISTING CIRCUIT	100W 15 25 600W 15 27	26 15 100W 28 15 200W	EXISTING CIRCUIT	REC. WEST WALL RM 120	<u>1560W</u> * 20 25	26 20 * 1500W	RM 121 (SANDER)			
EXISTING CIRCUIT	100W 15 29	30 15 100W	EXISTING CIRCUIT	REC. WEST WALL RM 120	1560W * 20 29	30 20 * 1500W	REC. NORTH WALL RM 121 (SANDER)			
RECEPTACLE 105 RECEPTACLE 105	600W 15 31 600W 15 33	32 15 400W 34 15 400W	POWER POLES 103 POWER POLES 103	BAND SAW	<u>1600W</u> * 20 33	32 34 20 * 1500W	REC. NORTH WALL RM 121 (SANDER)			
RECEPTACLE 105	600W 15 35	36 15 400W	POWER POLES 103	SPRAY GUN CLEANER RM 122	<u>1500W</u> <u>20</u> <u>35</u>	36 15 350W	RECEPTACLE RM 121			
EXISTING CIRCUIT	4500W 30 39	40 15 100W	EXISTING CIRCUIT	REC. ROOM 120 CAD STN REC. SOUTH WALL RM 120	1560W * 20 39	40 15 50W	AIR CURTAIN EF-19			
P-3	860W 15 41	42 15 300W	RECEPTACLES. RM M-1F, M-1E	REC. EAST WALL RM 120	1560W * 20 41	42 15 100W	DIRTY COMPOSITE ANNEX 122 CONTROL PANEL AND MECHANICAL CONTROL CIRCUIT			
SPARE			SPARE		UNLESS OTHERW BREAKERS SHOW	ISE INDICATED, ALL N ARE EXISTING				
		48 15)		* = PROVIDE NEW	BREAKER		1 2025/03/05 100		
	51	52		ESTI L OAF	NECTED LOAD AS NOT MATED DIVERSITY: 0.7) WITH DIVERSITY: 35.7	ED ON PANEL SCHEDU KW	JLE: 50.9KW	NO. DATE RE'	/ISION	
SPACE		56	SPACE		WITT DIVERSITT: 35.7			SCALE ÉCHELLE		
	57									
REPL	ACE EXISTING 42 CCT PA	T ANEL WITH NEW 60C	<pre>/ CT PANEL AND TRANSFER</pre>					17 HANGAR S		
EXIST	TING CIRCUITS TO NEW F	PANEL. PROVIDE NE	W CIRCUITS AS INDICATED		120/208 VC	LT, 3PH, 4W		CFB BORDEN	· · · · · · · · · · · · · · · · · · ·	
CON ESTI	INECTED LOAD AS NOTEI MATED DIVERSITY: 0.7	D ON PANEL SCHED	JLE: 25.8KW		225 AM RECESSEI (EED ERO	P MAINS D MOUNTED		ONTARIO		
	D WITH DIVERSITY: 18.1K	W			(EATON POW	R-LINE 1 10kA)		PROJECT PROJET		
	PANEI	L "G"		EXIT LTS & EBU A	100W 15 1	2 15 750W	RECEPTACLES LOBBY	SOLVI	IG CONTAMIN	
	120/208 VOL 100 AMP	T, 3PH, 4W MAINS		EXIT LTS & EBU B LOBBY 101 LIGHTING	200W 15 5	6 15 100W	RECEPTACLES 101 RECEPTACLES 101		CIES IN BUILD	
	SURFACE M (FED FROM ADJA)	/OUNTED CENT 45kVA TX)			100W 15 7	8 15 750W	RECEPTACLES RM 102,103			
	(SQUARE D QE	BL 430 10kA)		FAN COIL FC-1 VENTILATOR V-1	150W 15 11	12 15 900W	RECEPTACLES RM 102,103 RECEPTACLES RM 105			
SPLIT RECEPTCLE		<u>2</u> <u>4</u> <u>20</u> <u>400W</u>	SPLIT RECEPTCLE	VENTILATOR V-2	375W 15 13	14 15 900W 16 15 750W	RECEPTACLES RM105 RECEPTACLES RM 201	SUBJECT SUJET		
SPLIT RECEPTACLE	5	6 400W	SPLIT RECEPTACLE	HWT-1	2250W 15 17	18 15 750W	RECEPTACLES RM201		SCHEDULES	
RECEPTACLE	600W 15 9			SPLIT RECEPTACLE	400W 15 21	20 15 B 100W 22 15 A 200W 15 B 300W	REC. MEN W/R & LOCKER104 REC. WOMEN W/R & L CKER 109		OULDOLLO	
		12 20 400W 14 30 1000W		SPLIT RECEPTACLE	400W 15 25	24 15 100W 26 15 100W	EXISTING CIRCUIT	PRODUCTION	REVIEWED REVU	
	20 15		NLULF IAULE	SPLIT PEC 202			SPLIT REC 202	DESIGNED ÉTUDIÉ	XX XX	
	15 17 15 19	18 30 20 30			400W 15 29 100W 15 31	30 15 400W 32		DRAWN DESSINÉ	<u>л.л.</u>	
		22 5000141	PAINT SHED	BARRIER-FREE W/R GFCI REC.	100W * 15 33	34 20 1500W	A/C RM 103	Q.G. CHECKED VÉRIFIÉ	┨─────┤	
AIR CURTAIN	1000W * 15 25	26 20 * 100W	RTU MAINTENANCE RECEPTACL	EM LIGHT BATTERY EM-C & EM-E E HALL WAY LIGHTS	15 35 100W 15 37	38 20 1500W	A/C	N.M.	ļ	
MECHANICAL CONTROLS	100W * 15 27	28			500W 15 39 400W 15 41	40 15 A 15 B 42 15 100W	PIT ALARM 125	X.X.		
	UNLESS OTHERWIS	E INDICATED, ALL		FOWER FOLE RM201			, II / LE (INVI 120	WBS NO. NO. OTP	PF NO. NO. [RN1965	
	BREAKERS SHOWN *= PROVIDE NEW B	ARE EXISTING			BREAKERS SHOW *= PROVIDE NEW	N ARE EXISTING BREAKER		DWG. NO. NO. DESSIN		
CONN		ON PANEL SCHEDU	LE: 9.8KW	CONN	ECTED LOAD AS NOTE		L-B147-9618			
LOAD	NATED DIVERSITY: 0.7 WITH DIVERSITY: 6.9KW			ESTIM LOAD	ATED DIVERSITY: 0.7 WITH DIVERSITY: 12.3P	Ŵ			Canada	
								<u> </u>		

SHALL BE SUPPLIED WITH NEW ROOM NUMBERS AND

VERIFIED FOR ACCURACY

