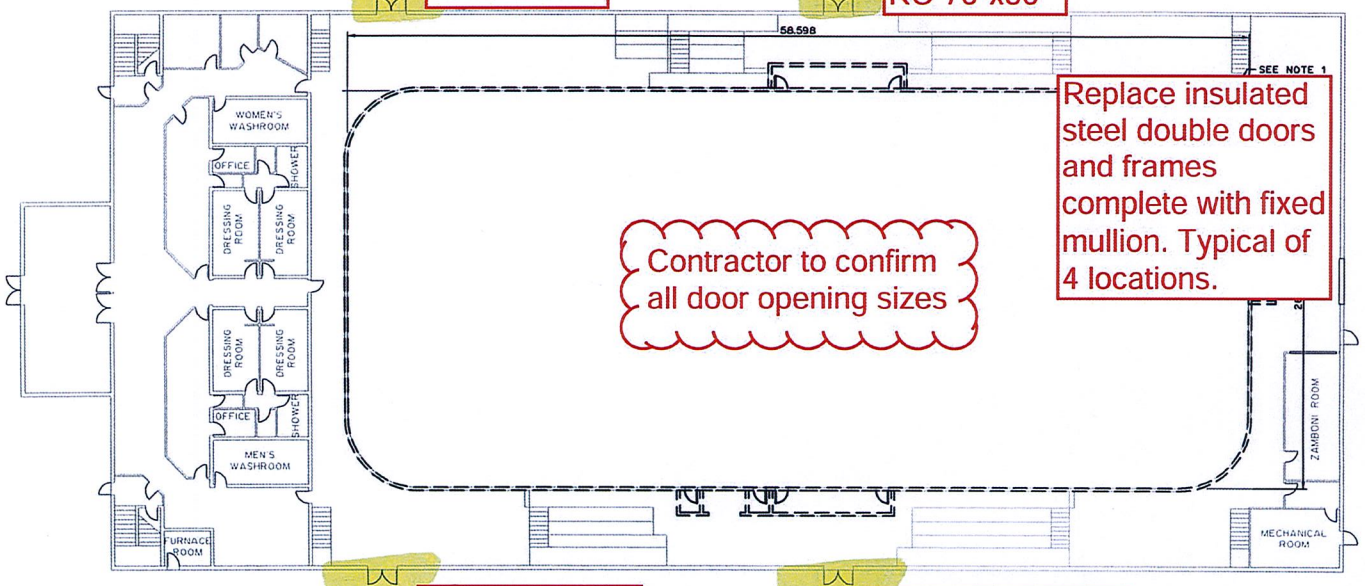

Doors are not required to be fire-rated

NOTES:

1. CONTRACTOR TO DEMOLISH EXISTING BOARD SYSTEM. EXISTING GLASS, STANCHIONS, AND CONCRETE CURBS TO BE SALVAGED AND RE-USED FOR NEW BOARD SYSTEM WHERE APPLICABLE.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. REMOVE FROM THE SITE ALL MATERIALS INDICATED TO BE REMOVED.
4. RESTORE TO IT'S ORIGINAL CONDITION ANY PORTION OF THE BUILDING DEMOLISHED UNNECESSARILY, AT NO EXPENSE TO OWNER.

THIS DRAWING MAY HAVE BEEN MODIFIED FROM ITS ORIGINAL SIZE. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS

2	17-03-29	FOR QUOTATION
1	17-03-17	PRELIMINARY
ISSUE	YY-MM-DD	REVISION

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
MPE Engineering Ltd.
Number C1334
Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
STRUCTURAL	34196	

MPE Engineering Ltd.

TOWN OF INDIAN HEAD

INDIAN HEAD ARENA IMPROVEMENTS
ARCHITECTURAL
DEMOLITION PLAN

DESIGNED	W.W.S.	JOB	7424-007-00
DRAWN	D.F.F.	SCALE	1:300
DATE	MARCH 2017	DRAWING	A1.0

1. GENERAL

1.1 RELATED SECTIONS

.1 Metal doors & panels: Section 08115.

.2 Supply of door hardware templates: Section 08700.

1.2 QUALITY ASSURANCE

.1 Manufacture fire door and frame components and assemblies to ULC/ULI/WARNOCK HERSHEY/FACTORY MUTUAL requirements.

.2 Hollow Metal Trades Association - Canadian Manufacturing Standards for Metal Doors and Frames.

1.3 SHOP DRAWINGS

.1 Clearly indicate each type of frame, material, material thicknesses, mortises, reinforcements, anchors, finish, and special features.

.2 Reference frames to door schedule. Indicate door numbers and construction where applicable.

2. PRODUCTS

2.1 MATERIALS

.1 Frames: 1.2 mm for interior locations, 1.6 mm for exterior doors, commercial quality steel cold rolled to ASTM A526-80; zinc coated to ASTM A525M-80, Z275 coating designation for exterior frames, ZF075 for interior frames;

.2 Accessories: Glazing stops, floor anchors, channel spreaders, 1.6 mm tee anchors, 1.2 mm wall stud anchors, zinc coated to ASTM A525M-80, coating designation ZF075. Corrugate tee anchors for masonry bond.

.3 Guard Boxes: 0.50 mm steel, ZF075 coating designation zinc finish to ASTM A525M-80.

.4 Door Bumpers: black neoprene.

.5 Reinforcement for Hardware: carbon steel, prime painted, to the following thicknesses:

Hinge & Pivot reinforcements	30 mm x 250 mm x 3.5 mm
Strike reinforcements	1.6 mm
Flush Bolt reinforcements	1.6 mm
Closer reinforcements	2.5 mm
Surface hardware reinforcements	2.5 mm

.6 Door Jamb Reinforcement: 100 mm x 40 mm structural steel channel to CAN3-G40.21-M81.

.7 Primer: to CGSB 1-GP-178M, for touch-up.

.8 Paint: two coats to CGSB 1-GP-178M with color to be selected by owner.

2.2 FABRICATION

.1 Fabricate frames in accordance with details and approved shop drawings, to Underwriters requirements and provide Underwriters labels.

.2 Mortise, reinforce, drill and tap frames and reinforcements to receive hardware using templates provided. Locate mortising to National Builders Hardware Association Standards.

.3 Install 2 double stud bumpers on strike jamb of frame for each single door and 2 bumpers at head of double door frames.

.4 Protect strike, hinge and overhead concealed door closer reinforcement completely by guard boxes welded to frame.

.5 Weld in 50 mm channel spreaders to frame; ensure proper frame alignment.

.6 Where frames terminate at finished floor, provide floor plates for anchorage to structural slab.

.7 Cut mitres accurately and weld on inside of frame profile.

.8 Grind welded corners to a flat plane, fill with metallic paste filler and sand to a uniform smooth finish.

.9 Fill surface depressions and butted joints with metallic paste filler and sand to a uniform smooth finish.

.10 Touch-up frames by priming areas where galvanizing is damaged.

.11 Reinforce head of frames wider than 1200 mm with 2.5 mm formed steel channel welded in place, flush with top of frame.

.12 Provide 3 jamb anchors per jamb for frames up to 2130 mm high and 1 additional for each 600 mm over 2130 mm high.

.13 Minimum depth of stop: 15 mm miter joints, channel shape 15 mm wide with counter screws.

.14 Cut-off hospital stops at 45 deg. to height same as adjacent base finish; weld, fill, grind smooth and apply primer finish.

.15 Reinforce head section at junction with removable mullion.

.16 Reinforce both jambs where door openings occur in screens. Install reinforcing continuous structure to structure.

3. EXECUTION

3.1 INSTALLATION

.1 Set frames in plumb and square at correct elevation. Limit of acceptable frame distortion - 2 mm out of plumb measured on face of frame, maximum twist corner to corner of 3 mm.

.2 Secure anchorages and connections to adjacent construction. Anchor door jamb reinforcement securely to structure.

.3 Brace frames solidly to maintain in position while being built-in. Erect knocked down frames in accordance with fabricators instructions.

.4 Install a temporary horizontal wood spreader at mid-height of door opening to maintain frame width until building work completed.

.5 For frames over 1200 mm in width, provide vertical support at the centre of head.

.6 Remove temporary spreaders only after completion of adjacent work.

.7 Co-ordinate grouting of all frames solid to adjacent construction.

.8 Provide formed metal drip section full width of frame opening for exterior doors.

END OF SECTION

1. GENERAL

1.1 RELATED SECTIONS

.1 Hollow metal frames: Section 08111.

.2 Supply of hardware and weatherstripping: Section 08700.

1.2 REFERENCE DOCUMENTS

.1 Except as otherwise specified, comply with requirements of Canadian Manufacturing Standards for Steel Doors and Frames published by the Canadian Steel Door and Manufacturers' Association.

1.3 FIRE RATED DOORS

.1 Provide doors produced under label service program of a testing agency acceptable to authorities having jurisdiction.

.2 Doors shall bear testing agency label indicating following:

.1 At standard size openings: fire endurance rating.

1.4 SHOP DRAWINGS

.1 Submit shop drawings in accordance with Division 1.

.2 Clearly indicate each type of door, material, metal thicknesses, mortises, reinforcements, location of exposed fasteners and special features.

.3 Reference door types to door schedule. Indicate door numbers where applicable.

2. PRODUCTS

2.1 MATERIALS

.1 Sheet Steel: to ASTM A653M-96 commercial quality steel, cold rolled, zinc coated to ZF075 coating designation.

.2 Honeycomb core material: rigid pre-expanded resin impregnated kraft paper having maximum 25 mm hexagonal shaped cells.

.3 Reinforcement for Hardware: carbon steel, welded in place, prime painted, to the following thicknesses:

.1	Hinge, pivot and panic bar reinforcements:	3.5 mm
.2	Lock face, flush bolts, concealed bolts:	2.5 mm
.3	Concealed or surface closer reinforcements:	2.5 mm

.4 Other surface hardware reinforcements: 2.5 mm

.4 Glazing stops: 1.0 mm steel, primed, miter joints, counter sink for screws.

2.2 FABRICATION

.1 Hollow metal doors shall be of seamless construction with no visible seams or joints on faces at vertical edges.

.2 Steel face sheet thickness:

.1 Exterior doors: 1.6 mm.

.3 Core Construction shall be one of the following:

.1 Internally steel stiffened with continuous vertical steel stiffeners at 150 mm O.C. spot welded to both face sheets; fill voids with glass fibre insulation.

.2 Composite construction consisting of honeycomb core with steel face sheets pressure laminated to core.

.4 Mortise, reinforce, drill and tap doors and reinforcements to receive hardware using templates provided.

.5 Join door faces at intersecting edges with continuous welds, fill and grind smooth. Finish door faces flush without visible joints or distortion.

.6 Close top and bottom edges of door with recessed 1.2 mm steel channel, full width welded.

.7 Touch-up doors by priming areas where zinc coating is damaged.

.8 Provide astragals for pairs of doors in accordance with Underwriters requirements.

.9 Profile edge of doors as follows: Single acting swing doors - Bevel 3 mm in 50 mm Double acting swing doors - Radius of 54 mm.

3. EXECUTION

3.1 INSTALLATION

.1 Install doors and hardware in accordance with templates and manufacturer's instructions. Maximum permissible warp of 3 mm measured diagonally across door.

.2 Adjust operable parts for correct function.

.3 Apply hardware to Class 'A' fire rated doors prior to delivery.

END OF SECTION

1. GENERAL

1.1 RELATED SECTIONS

.1 Hollow Metal Frames: Section 08111.

.2 Hollow Metal Doors: Section 08115.

1.2 PRODUCT DATA

.1 Comply with requirements of Division 1.

.2 Hardware Schedule: Submit a detailed hardware schedule indicating the following:

.1 Door and frame types, sizes, door swings.

.2 Type, style, function, size and finish of each hardware item.

.3 Mounting heights, fastenings and other pertinent information.

.4 Name and manufacturer of each item.

.5 Location of all hardware items cross-referenced to door numbers indicated on floor plans and in door and frame schedule.

.6 Explanation of all abbreviations, symbols and codes contained in schedule.

.3 Keying Schedule: not applicable.

1.3 CERTIFICATES

.1 After completion of all construction work, certify on an approved form, that all items of finish hardware have been adjusted and are working properly and that all hardware on fire rated (labeled) doors conforms to the requirements of (ULC) Underwriters Laboratories of Canada.

1.4 OPERATION AND MAINTENANCE DATA

.1 Provide the following:

.2 One copy of manufacturer's key bitting list. Forward by hand, together with keys.

.3 Manufacturer's maintenance instructions.

.4 Complete parts lists.

.5 Manufacturer's installation and operation instructions for all operable hardware.

1.5 PACKING AND SHIPPING

.1 Include with each item of hardware the following:

.1 Screws, bolts and fastenings necessary for installation.

.2 Installation instructions.

.3 Special tools required for installation.

.2 Deliver finish hardware with all items in individual packages, legibly marked and adequately labeled indicating the part of the work for which it is intended.

1.6 STORAGE AND PROTECTION

.1 Protect knobs, handles, push plates and pulls with adhesive release paper, of type which is easily removed without marring finish.

1.7 SEQUENCING AND SCHEDULING

.1 Deliver hardware required for shop application in ample time so as not to impede the progress of the Work.

1.8 SPARE PARTS AND MAINTENANCE MATERIALS

.1 Provide two sets of wrenches for door closers, lock and latch sets and exit devices.

.2 Spare Hardware: Not applicable.

1.9 ACCEPTANCE OF KEYS

.1 For security reasons, forward all keys by hand to the Owner.

2. PRODUCTS

2.1 HARDWARE PRODUCTS

.1 Refer to Hardware Schedule for product specifications.

2.2 KEYING

.1 All locks shall be keyed alike to match the existing master key. Coordinate with Owner.

.2 Determine detailed requirements for master keying system upon consultation with the Owner, prior to finalizing keying schedule.

.3 Form keys from nickel silver.

.4 Furnish two change keys for each lock except where otherwise required. Furnish all other keys as required to meet keying system requirements.

.5 Furnish 3 master keys, 6 construction keys and 1 extractor key.

2.3 KEY CONTROL SYSTEM

.1 Not applicable.

3. EXECUTION

3.1 INSTALLATION

.1 Install all hardware items to manufacturer's instructions and recommendations.

.2 Where hardware items are required to be installed onto or into surfaces that are to be later painted or finished, install hardware completely to ensure proper fit, remove and store until finishing is complete, and then re-install.

.3 Drill and countersink units which are pre-prepared for anchorage of fasteners. Space fasteners and anchors to manufacturer's recommendations.

.4 Install hardware to heights and centres as indicated in reviewed hardware schedule.

.5 Protect doors and frames from damage due to installation of hardware.

3.2 INSTRUCTION

.1 Instruct user's personnel in:

.1 Proper care, cleaning and general maintenance of hardware.

3.3 HARDWARE SCHEDULE

Set #001: Doors: 101, 102, 103 and 104 (complete with fixed mullion)

6	Hinges	FBB199 114 X 114 NRP	32D	CST
2	Fire Exit Device	98L-F x EO	US26D, US32D	CVO
2	Kick Plate	GSH 80A 254 x 864	C32D	CGA
2	Weatherstrip	319 CR 3684		CPE
2	Door Bottom	315 CN 914		CPE
2	Threshold	171 A 914		CPE
2	Hold Chain			

END OF SECTION