

**BUILDING CODE ANALYSIS:**

BUILDING DESCRIPTION (GENERAL):  
 INDOOR POOL WITH SPECTATOR SEATING

CIVIC ADDRESS:  
 25 POSEIDON BAY  
 WINNIPEG, MANITOBA

BUILDING CLASSIFICATION (NBC 2010):  
 OCCUPANCY CLASSIFICATION: GROUP A, DIVISION 3

ANY HEIGHT, ANY AREA, SPRINKLERED  
 NON-COMBUSTIBLE CONSTRUCTION  
 FLOOR ASSEMBLIES: 2 HR F.R.R.  
 MEZZANINES: 1 HR. F.R.R.  
 LOAD BEARING ELEMENTS:  
 F.R.R. TO MATCH SUPPORTED ASSEMBLY

NBC CONSTRUCTION ARTICLE: 3.2.2.29

BUILDING AREA: 9,290 m<sup>2</sup>

NUMBER OF STOREYS: TWO

BASEMENT: YES

SPRINKLER: YES

CONSTRUCTION TYPE: NON-COMBUSTIBLE

NEW SERVICE ROOM PLATFORM CONSTRUCTION:  
 SERVICE ROOM AREA: 46 m<sup>2</sup>

CONSTRUCTION TYPE: NON-COMBUSTIBLE

STORY: NO - NBC 3.2.2.1.(6)  
 PLATFORM IS INTENDED ONLY FOR PERIODIC INSPECTION.

FLOOR ASSEMBLY F.R.R. NONE - NBC 3.2.2.1.(6)  
 FLOOR IS CONSIDERED A PLATFORM AND NOT A STOREY OR MEZZANINE.

FIRE SEPARATION: NO - NBC 3.8.2.1.(6)  
 ROOM CONTAINS LIMITED EQUIPMENT AND DOES A FIRE HAZARD AND IS NOT ESSENTIAL TO THE OPERATION OF THE FIRE SAFETY SYSTEMS IN THE BUILDING.

EGRESS STAIR: YES - NBC 3.3.1.14.(2)  
 STAIRWAY SERVING THE SERVICE ROOM DOES NOT NEED TO CONFORM TO EXIT STAIR REQUIREMENTS UNDER NBC 3.3.1.14.(2).

**DEMOLITION:**

- ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL PERTINENT BUILDING CODES, THE MANITOBA DEPARTMENT OF LABOUR, AND ANY OTHER PROVINCIAL AND LOCAL BY-LAWS, REGULATIONS AND ORDINANCES.
- DEMOLITION SHALL INCLUDE THE SAFE REMOVAL, HAULING AND DUMPING OF ALL DEBRIS, ETC. TO AN APPROVED SITE. ALL COSTS ASSOCIATED WITH THIS OPERATION, INCLUDING TRANSPORT, LICENSES AND FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COORDINATE THE MOVING AND STORAGE OF SALVAGED ITEMS, MATERIALS, EQUIPMENT, ETC. WITH THE CONTRACT ADMINISTRATOR.

**STEEL STUD FRAMING (NON-LOADBEARING):**

GENERAL

- THE THICKNESS SPECIFIED REFERS TO THE NOMINAL BASE STEEL THICKNESS EXCLUSIVE OF ANY COATINGS.
- INSTALL ALL FRAMING PLUMB, LEVEL, AND SQUARE.
- PROVIDE WOOD AND/OR METAL BLOCKING/BACKING AT ALL TOILET PARTITIONS, CABINETWORK, PLUMBING FIXTURES, LOCKERS, ETC., AND ANY LOCATION WHERE OTHER TRADES REQUIRE SOLID BACKING.
- INTERIOR WALL FRAMING
- INTERIOR WALL STEEL STUDS, TRACK, FURRING BARS, ETC. TO BE 0.455mm (25 GA.) SECTIONS ROLL FORMED FROM ZINC COATED SHEET STEEL TO ASTM C645-14. SEE DRAWINGS FOR SECTION SIZES AND SPACING.
- PROVIDE DOUBLE FULL HEIGHT 20 GA. STUDS AT ALL DOORS, AND OTHER OPENINGS REQUIRED A STUD TO BE INTERRUPTED. PROVIDE 20 GA. (1.0mm) THICK HEAD AND SILL FRAMING AT THESE OPENINGS.

**PATCHING - GENERAL:**

- PATCH EXISTING FLOOR, WALL, CEILING ASSEMBLIES, ETC. WHERE REQUIRED DUE TO DEMOLITION/RENOVATION WORK TO MATCH EXISTING CONSTRUCTION, MATERIALS, TEXTURES AND FINISHES UNLESS NOTED OR PERMITTED OTHERWISE.
- USE ONLY NEW MATERIALS TO BLEND WITH EXISTING EXCEPT WHERE THE USE OF SALVAGED EXISTING MATERIALS WOULD BE DESIRABLE AND IS PERMITTED BY THE CONTRACT ADMINISTRATOR.
- EXISTING ASSEMBLIES THAT ARE DAMAGED OR WEAKENED IN ANY WAY DUE TO DEMOLITION AND RENOVATION WORK SHALL BE RESTORED TO THEIR FORMER STATE BY REINFORCING, REBUILDING, OR REPLACEMENT, TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- PATCHED WALL AREAS SHALL BE PAINTED TO INCLUDE THE ENTIRE SURFACE PLANE TO THE NEAREST CORNERS AND WALL AND CEILING INTERFACES UNLESS PERMITTED OTHERWISE.

**GYPSUM BOARD:**

- GYPSUM BOARD IN ACCORDANCE WITH CANCSA-R2.27 (LATEST), BOARD TO BE STANDARD TYPE, REGULAR AND TYPE "X", EXTERIOR SHEATHING GRADE, AND SOFFIT GRADE AS NOTED. ALL PRODUCTS AS MANUFACTURED BY CGC, GP GYPSUM, CERTAINTED OR EQUAL. SEE DRAWINGS FOR TYPES AND THICKNESS. SHEETS TO BE OF LARGEST PRACTICAL SIZE WITH BEVELED EDGES FOR TAPING.
- INSTALL ALL GYPSUM BOARD SQUARE, PLUMB AND LEVEL, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE NATIONAL BUILDING CODE AND GOOD STANDARD PRACTICE.
- FASTEN BOARD TO STEEL FRAMING USING S-12 DRYWALL SCREWS. USE CORROSION RESISTANT SCREWS FOR ALL EXTERIOR OR WET AREA APPLICATIONS. ALL SCREWS MUST PROVIDE 15mm MINIMUM THREAD ENGAGEMENT IN STEEL FRAMING. SPACE FASTENERS FOR INTERIOR WORK AT 300mm O/C MAXIMUM ALONG ALL SUPPORTS FOR ALL LAYERS OR AS REQUIRED FOR TESTED ASSEMBLY. INSTALL ALL BOARD PARALLEL, OR PERPENDICULAR TO FRAMING, STAGGERING ALL JOINTS BY ONE FRAMING SPACE, MINIMUM.
- PROVIDE CORNER BEADS, FILL TYPE "J" TRIM (REGULAR AND SELF-MASKING) AND OTHER ACCESSORIES AS REQUIRED AND NOTED. FINISH ALL JOINTS WITH 3 COAT SYSTEM: TAPE EMBEDDED WITH JOINT COMPOUND, AND 2 COATS OF FINISHING COMPOUND, SAND SMOOTH. PROVIDE SKIM COAT OVER ENTIRE GYPSUM BOARD SURFACE AND SAND SMOOTH, READY TO RECEIVE FINISH.

**PAINTING:**

- ALL COMPONENTS FOR INDIVIDUAL PAINTING FORMULAE TO BE PRODUCTS OF A SINGLE MANUFACTURER AND SHALL BE COMPATIBLE WITH EACH OTHER. ALL MATERIALS TO BE PREMIUM GRADE. USE EXTERIOR GRADE FOR EXTERIOR SURFACES.
- STORE, HANDLE, AND APPLY ALL PAINTS AND ASSOCIATED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT DILUTE PAINT UNLESS RECOMMENDED BY MANUFACTURER OR OTHERWISE APPROVED OR NOTED. DISPOSE OF UNUSED PAINTING MATERIALS IN A SAFE MANNER AND IN ACCORDANCE WITH ALL PERTINENT GOVERNMENTAL REGULATIONS.
- IN GENERAL, PROTECT ALL ADJACENT AREAS, SURFACES, FIXTURES, EQUIPMENT, SERVICES, ETC. FROM OVERSPRAY, OVERLAP OR ANY OTHER CONTAMINATION RESULTING FROM PAINTING OPERATIONS. CONTRACTOR SHALL MASK, COVER, PROTECT AS APPROPRIATE. REMOVE COVER PLATES, SIGNAGE, HANGINGS, ETC. AS APPROPRIATE AND REPLACE AFTER PAINT IS CURED.
- CLEAN AND PREPARE ALL SUBSTRATES AS RECOMMENDED BY MANUFACTURER AND AS SPECIFIED BELOW TO PROVIDE FULL, UNINTERRUPTED BOND WITH PAINT SYSTEM. IN GENERAL, SAND LIGHTLY BUT THOROUGHLY BETWEEN ALL COATS. REMOVE ALL DUST AND OTHER CONTAMINANTS FROM SURFACES PRIOR TO PAINT APPLICATION, TO PRODUCE SMOOTH EVEN FINISH. NEATLY CUT OR MASK AS APPROPRIATE TO LEAVE FULL, NEAT, WELL DEFINED TERMINATIONS.
- PRIME ALL SURFACES WITH APPROPRIATE PRIMER TO SUIT SUBSTRATE AND FINISH COATS UNLESS SPECIFIED.
- FIELD TOUCH UP ALL SHOP PAINTED ITEMS AS REQUIRED TO PROVIDE COMPLETE PROTECTION AND SMOOTH FINISH.
- ALL COLOURS TO BE CONFIRMED BY CONTRACT ADMINISTRATOR.
- ACCEPTABLE PRODUCTS: BENJAMIN MOORE, INTERNATIONAL, PITTSBURGH PAINTS, PRATT & LAMBERT, DULUX, AND AS NOTED.

**PAINTING:**

- FORMULAE:  
 GYPSUM BOARD  
 - 1 COAT PRIMER SEALER  
 2 COATS SEMI-GLOSS ACRYLIC LATEX  
 STEEL DOOR FRAMES (BOTH SIDES)  
 - 1 COAT UNIVERSAL METAL PRIMER  
 - 2 COATS SEMI-GLOSS ACRYLIC LATEX  
 MISCELLANEOUS STEEL AND FRAMING (SHOP PAINTED)  
 - 1 COAT UNIVERSAL METAL PRIMER  
 - 1 COAT SPOT PRIMER (APPLY TO ALL EXPOSED, DAMAGED, SCRATCHED OR RUSTED AREAS)  
 - 2 COATS SEMI-GLOSS ALKYD ENAMEL

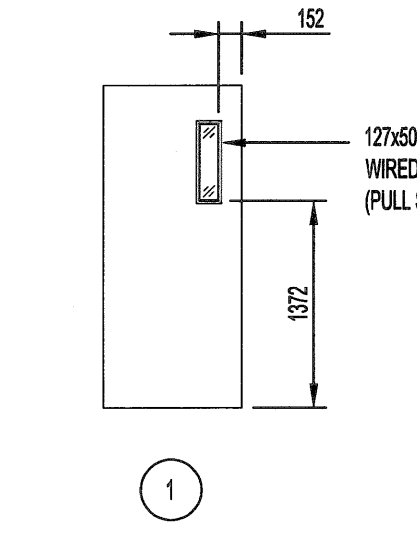
**HARDWARE:**

- HINGES TO BE STANDARD WEIGHT, FULL MORTISE, STAINLESS STEEL, BEARING HINGES. PROVIDE 1 1/2" PAIR MINIMUM PER STANDARD 914 x 2134 DOOR. PROVIDE ADDITIONAL HINGES AS REQUIRED FOR OVERSIZED DOORS.
- ALL EXIT DEVICES, LOCKSETS, CLOSURES, TRIMS AND FINISH TO MATCH EXISTING DOOR HARDWARE IN EXISTING BUILDING.
- KICKPLATES TO BE STANDARD METAL STAINLESS STEEL UNITS. SIZE TO SUIT REQUIREMENTS.

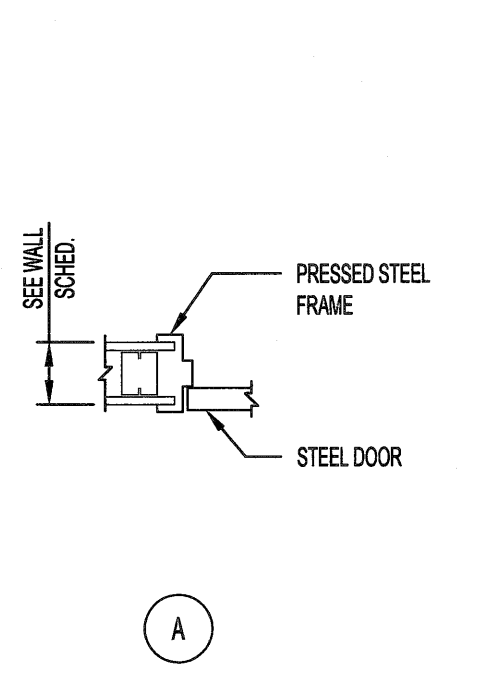
**PRE-FABRICATED STEEL PAN STAIRS AND LANDINGS:**

- FABRICATE STEEL STAIRS AND LANDINGS WITH CLOSED RISERS AND TREADS OF METAL PAN CONSTRUCTION, READY TO RECEIVE CONCRETE.
- FORM TREADS AND RISERS FROM MINIMUM 2MM THICK SHEET STEEL STOCK.
- SECURE REINFORCED TREAD PANS TO STRINGERS WITH CLIP ANGLES, WELD IN PLACE.
- FORM STRINGERS WITH ROLLED STEEL ANGLES.
- FORM INTERMEDIATE LANDING WITH MINIMUM 2MM THICK SHEET STEEL STOCK.
- FORM UPPER LANDING WITH CORRUGATED STEEL DECK INSTALLED WITH THE MECHANICAL PLATFORM FLOOR SYSTEM.
- CONTRACTOR TO SITE VERIFY FLOOR TO FLOOR HEIGHTS AND ASSOCIATED DIMENSIONS PRIOR TO PREPARATION OF SHOP DRAWINGS.
- REINFORCE UNDERSIDE OF LANDINGS WITH STEEL FRAMING AS REQUIRED TO ATTAIN DESIGN LOAD REQUIREMENTS.
- GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO SUPPORT THE LOADS REQUIRED BY THE 2011 NBC (NBC 2010) CLAUSE 4.1.5.14.
- STAIRS AND LANDING SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE STAIR ASSEMBLY INCLUDING CONCRETE PLUS A SPECIFIED UNIFORMLY DISTRIBUTED LOAD OF 4.8 kPa.
- PRELIMINARY MEMBERS SIZES SHOWN ON THE DRAWINGS AND SUBJECT TO REVIEW AND CHANGE BY STAIR DESIGNER.
- THE STAIR AND LANDING ASSEMBLY INCLUDING THE CONNECTIONS TO THE EXISTING STRUCTURE SHALL BE DESIGNED BY THE STAIR SUPPLIER. SUBMIT SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE LAYOUT PLAN, DESIGN LOADS, CONNECTION DETAILS AND ALL OTHER PERTINENT INFORMATION.
- STEEL STAIR AND GUARDRAIL DESIGNER SHALL PROVIDE A FINAL INSPECTION AND A LETTER SEALED BY THE ENGINEER RESPONSIBLE FOR THE STAIR AND GUARDRAIL DESIGN CERTIFYING THAT THE STAIRS AND GUARDRAILS ARE CONSTRUCTED AND INSTALLED AS PER DESIGN ASSUMPTIONS AND INSTALLATION REQUIREMENTS.
- STAIR, LANDINGS, GUARDRAILS AND HANDRAILS SHALL BE PRIME PAINTED WITH ONE COAT OF INTERZINC S2 ZINC-RICH EPOXY (2.5 MILS DFT).

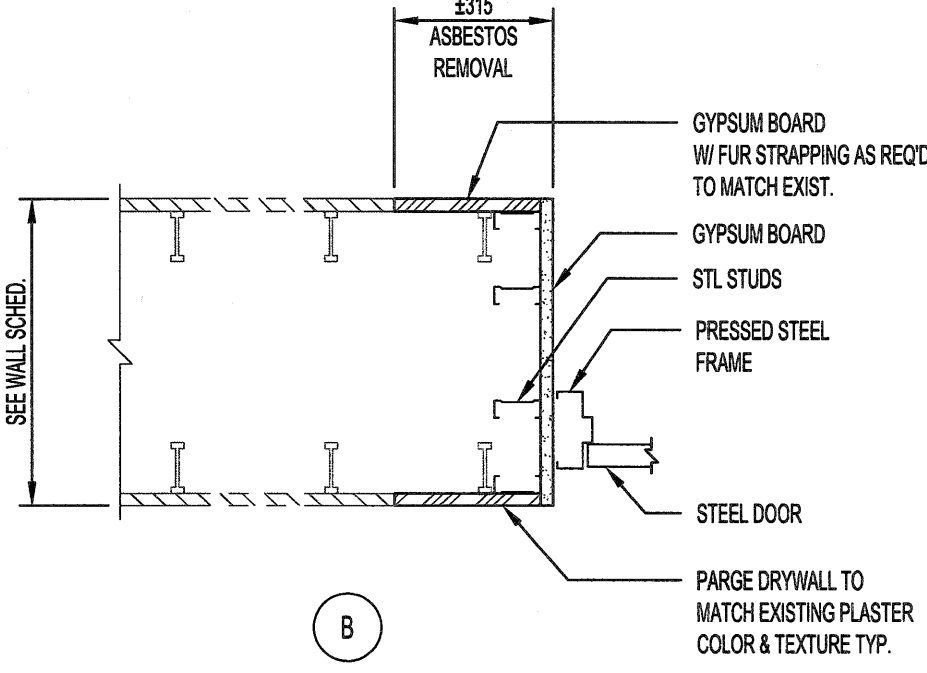
DOOR NO.	DOOR	FRAME					REMARKS	FIRE RATING (HOURS)	HARDWARE								
		SECT.	MATL.	FINISH	REMARKS	HINGES			LOCK SET	CLOSER	DOOR STOP	GLAZING	KICKPLATE	SIGN			
D101	900W x 2150H	1	HM	KHC	P	TO MATCH EXIST.	A	STL	P	TO MATCH EXIST.	-	●	●	●	●	●	●
D102	900W x 2150H	1	HM	KHC	P	TO MATCH EXIST.	B	STL	P	TO MATCH EXIST.	-	●	●	●	●	●	●



**DOOR ELEVATIONS**  
SCALE 1:50



**FRAME SECTIONS**  
SCALE 1:15



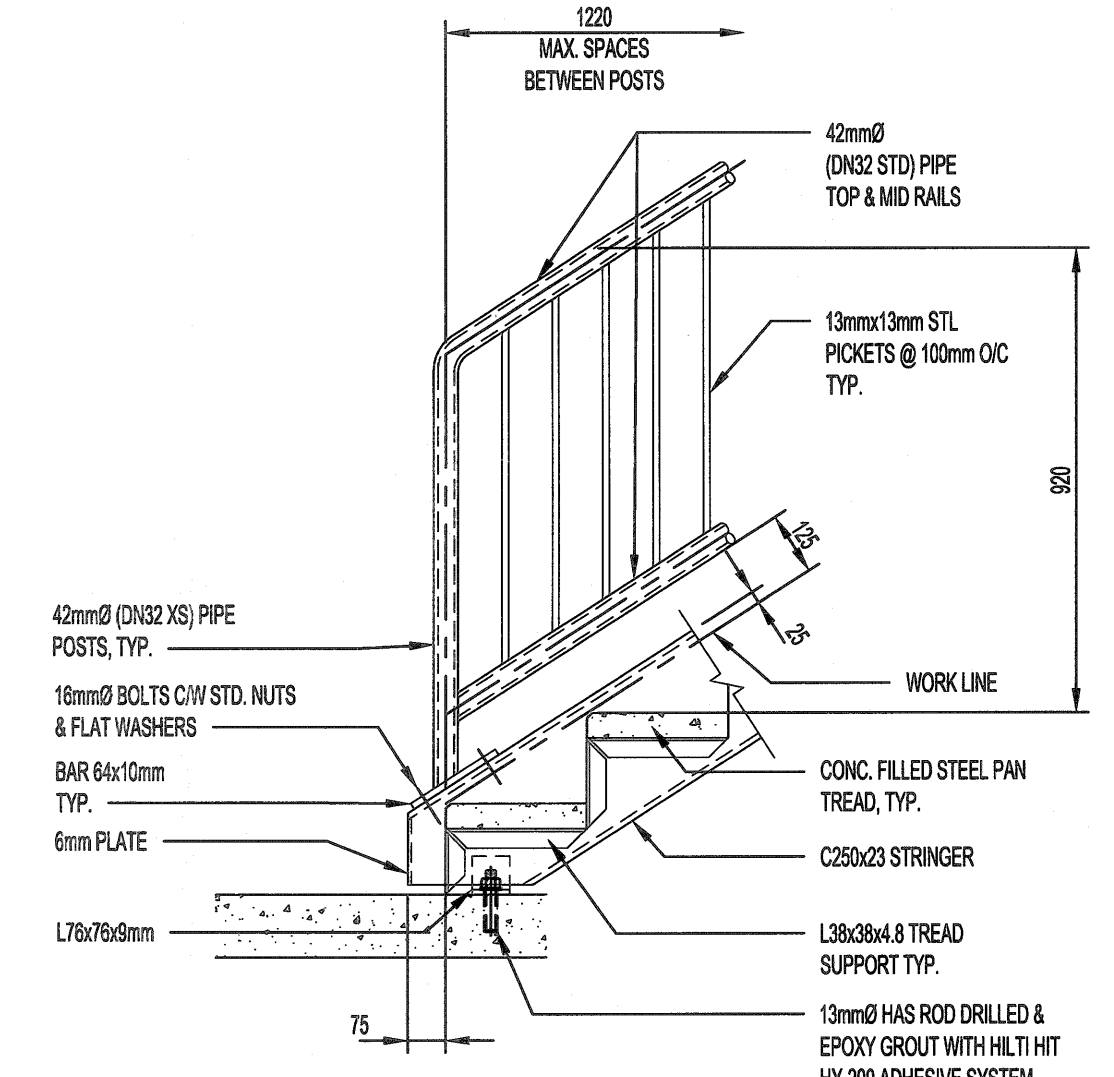
**SIGN NOTE:**

- DOOR SIGN TO INCLUDE ROOM NAME AND NUMBER TO BE COORDINATED WITH CONTRACT ADMINISTRATOR

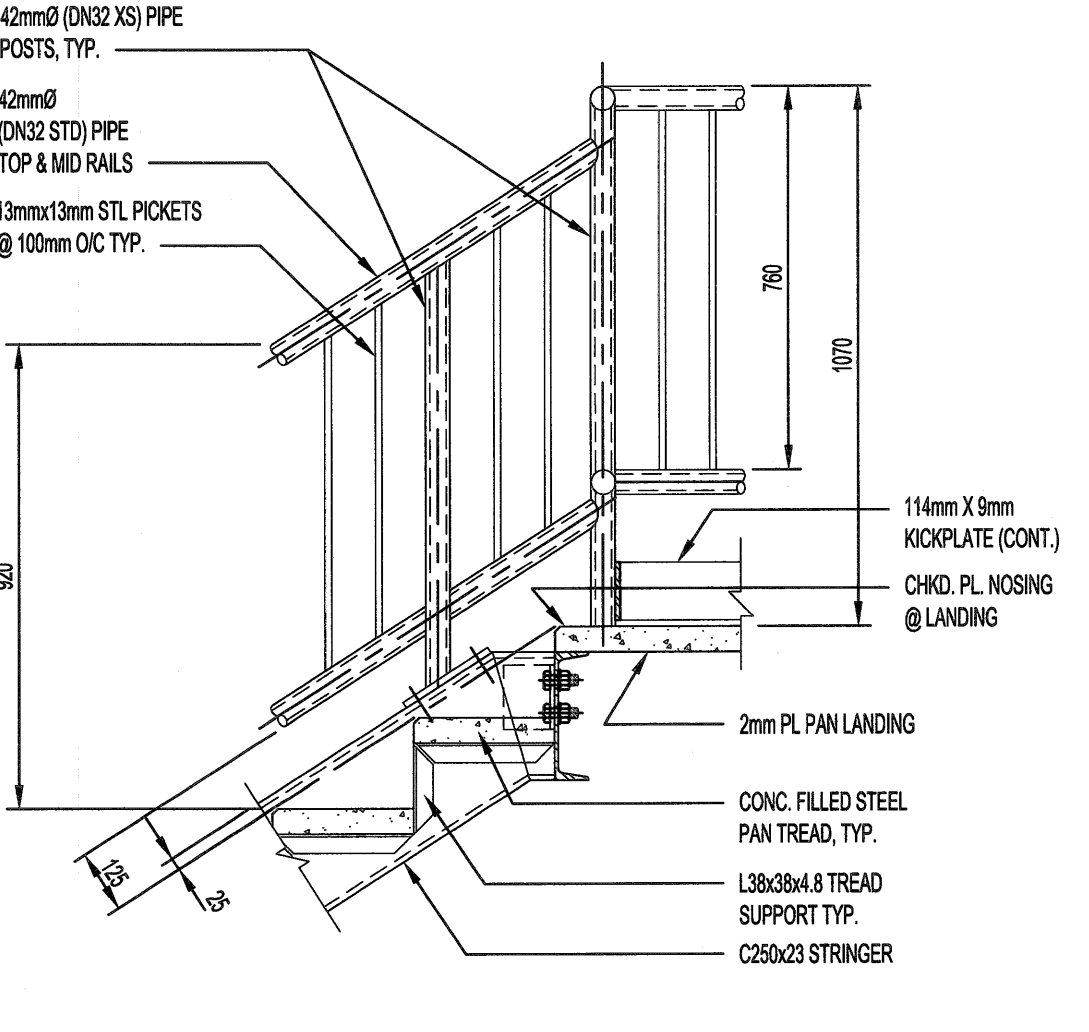
**ABBREVIATIONS:**

HM	HOLLOW METAL
INSUL	INSULATION
KHC	KRAFT MONEYCOMB
P	PAINT
PF	PRE-FINISHED
PS	PRESSED STEEL
RBR	RUBBER
STL	STEEL

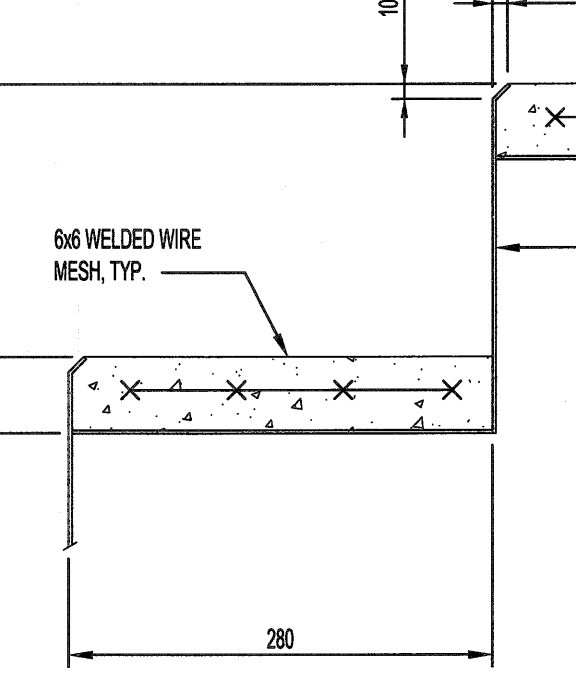
THESE DRAWINGS SHALL NOT BE SCALED.  
 THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.  
 THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.  
 ALL OPENINGS THROUGH THE FIRE SEPARATIONS AS A RESULT OF THE WORK OF THIS CONTRACTOR ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE AN SMOKE-TIGHT BARRIER.  
 ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.  
 THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.  
 WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.  
 WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.



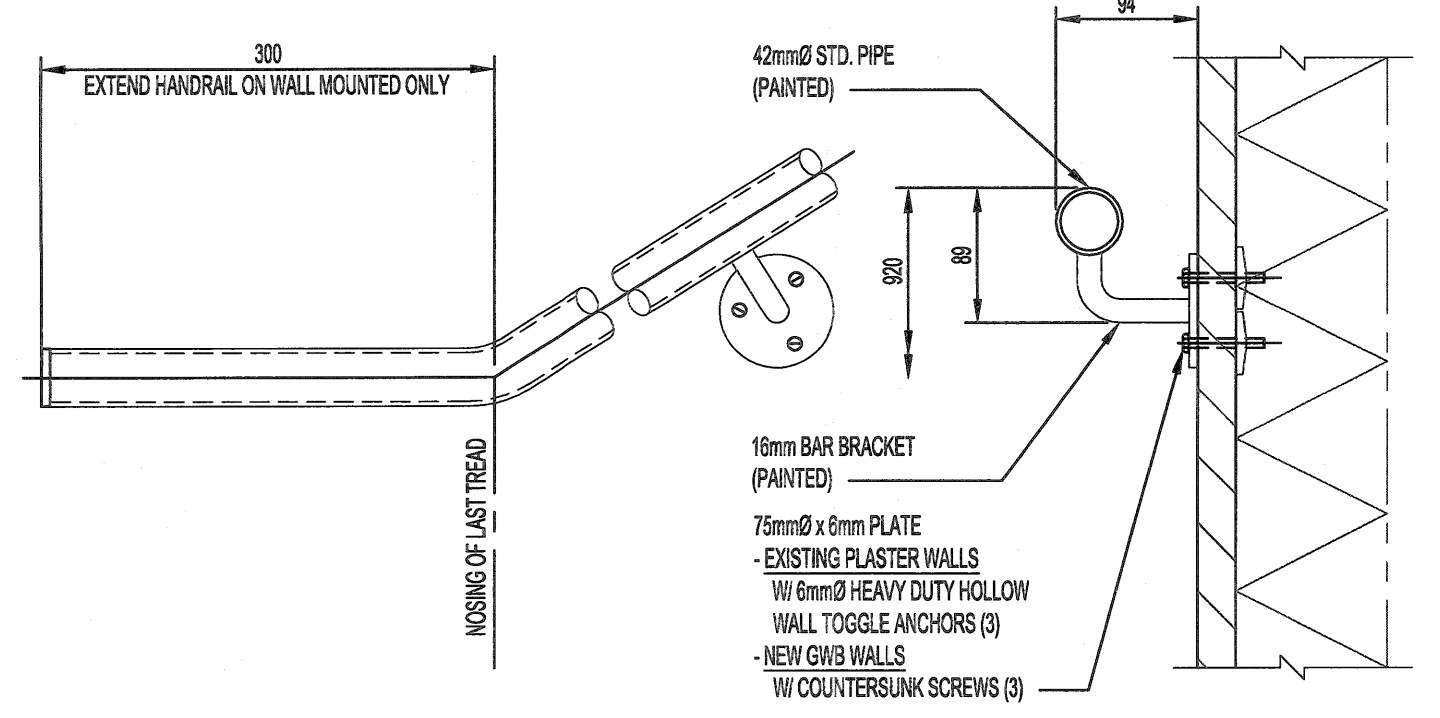
**2 SECTION**  
SCALE 1:15



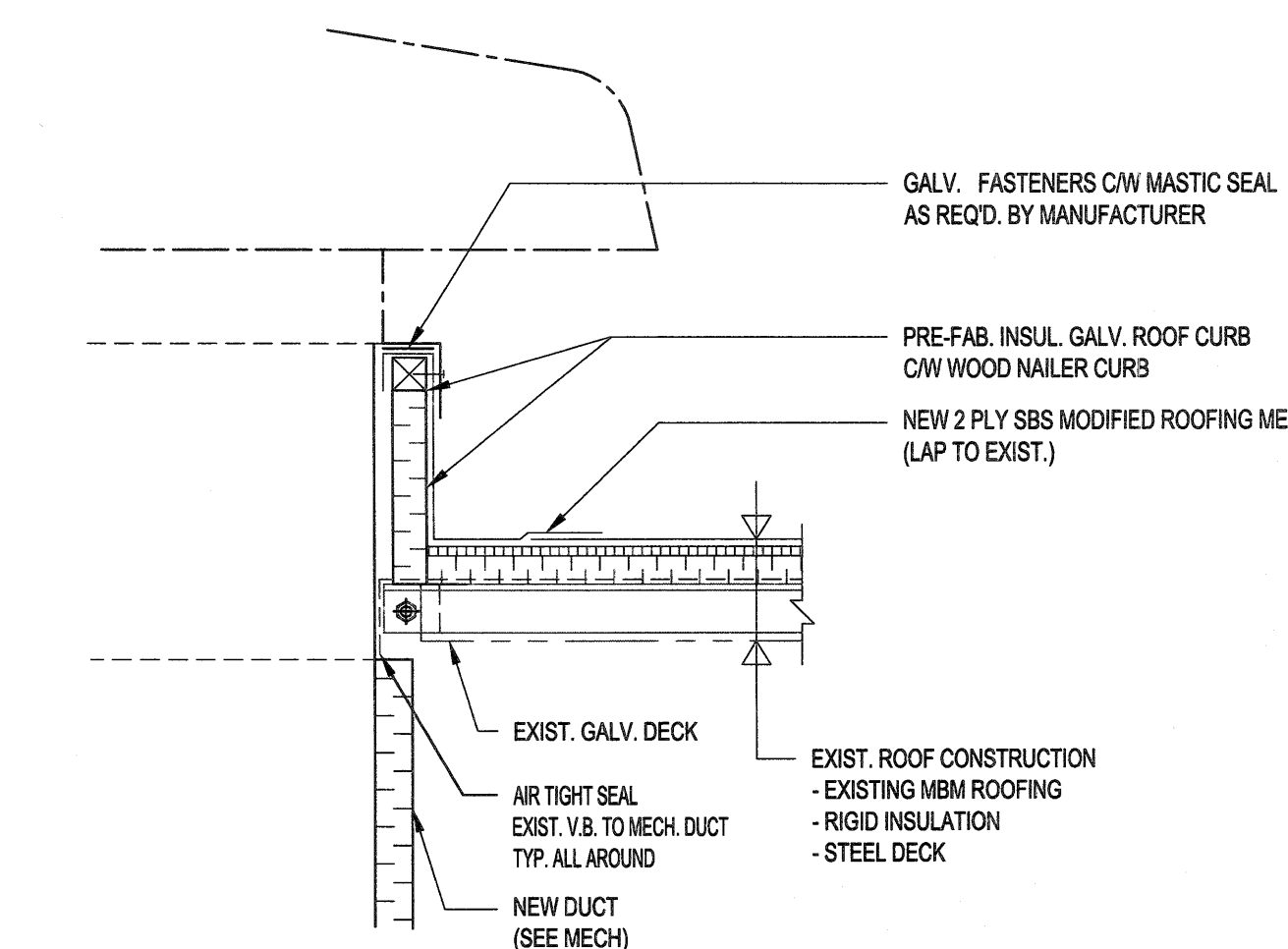
**3 SECTION**  
SCALE 1:15



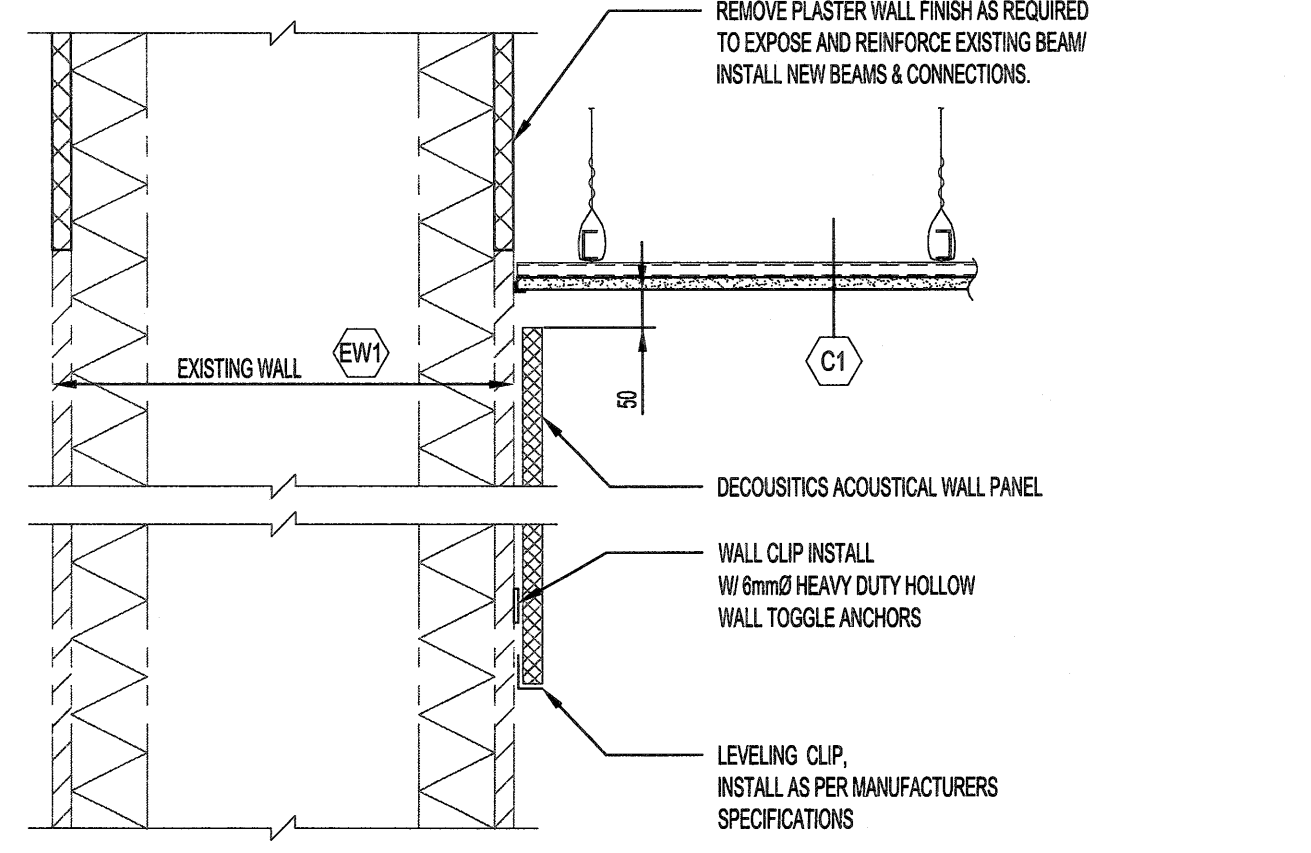
**4 CONCRETE PAN TREAD DETAIL**  
SCALE 1:5



**5 WALL MOUNTED HANDRAIL DETAIL**  
SCALE 1:5



**6 SECTION**  
SCALE 1:10



**7 SECTION**  
SCALE 1:10

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	RG	18.08.21

SEAL

2018-08-21

JAR CHECKED PPG DESIGNED APPROVED  
 DATE 2018.05.16 USER APPROVAL

THE CITY OF WINNIPEG  
 PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT  
 MUNICIPAL ACCOMMODATIONS DIVISION  
 3-65 GARRY STREET, R3C 4K4

PROJECT  
 BOILER ROOM  
 COMBUSTION AIR UPGRADE  
 AT PAN AM POOL  
 25 POSEIDON BAY

SHEET TITLE

BUILDING  
 MECHANICAL EQUIPMENT SUPPORT  
 DOOR SCHEDULE, SECTIONS & NOTES

SCALE AS SHOWN	PROJECT No: 18-0107-006	SHEET No: B02
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ENGINEERS  
 GEOSCIENTISTS  
 MANITOBA  
 Certificate of Authorization  
 KGS Group  
 No. 245

**KGS GROUP**  
 CONSULTING ENGINEERS