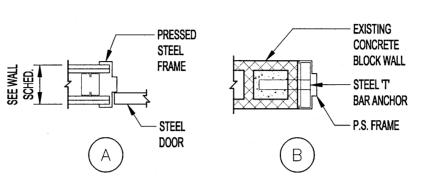


610 x 610 LOUVER (SEE MECH.) DOOR TYPES SCALE 1:50



FRAME TYPES

SCALE 1:15

ABBREVIATIONS:

- HOLLOW METAL INSUL INSULATION KHC KRAFT HONEYCOMB PRE-FINISHED PRESSED STEEL rbr Rubber STL STEEL
 - ______ U/S STEEL ROOF DECK EXISTING ROOF FRAMING -CONCRETE SLAB ON
 - 1. FIRE STOP ALL PENETRATIONS AROUND ALL EXISTING UTILITIES, PIPE, CONDUITS AND SERVICES IN THE SERVICE SHAFT THAT PASS THROUGH THE NEW FIRE SEPARATIONS. SITE VERIFY ALL
 - QUANTITIES AND FIRE STOP REQUIREMENTS ON SITE PRIOR TO SUBMITTING PRICING. 2. INSTALL FIRE DAMPERS IN ALL EXISTING DUCTWORK THAT PASSES THROUGH NEW FIRE SEPARATIONS. CONFIRM QUANTITIES AND SIZES ON SITE PRIOR TO

T/MAIN FLOOR SLAB

- SUBMITTING PRICING.
 - 10M (x500mm L) DOWELS @ 300 O/C (ALL AROUND), EPOXY GROUT 125mm INTO WALL -
 - **SCALE 1:25**

38mm - 20 GA. COMP.

STL DECKING -

10M @ 300 O/C

(WITHIN FLUTES) -

- L152x102x7.9mm ALL ARND

EPOXY ANCHORS @400mm

O/C (125mm EMBEDMENT)

1120 ± (CONFIRM ON SITE)

EXISTING STL STUD FRAMING

EXISTING FIRE

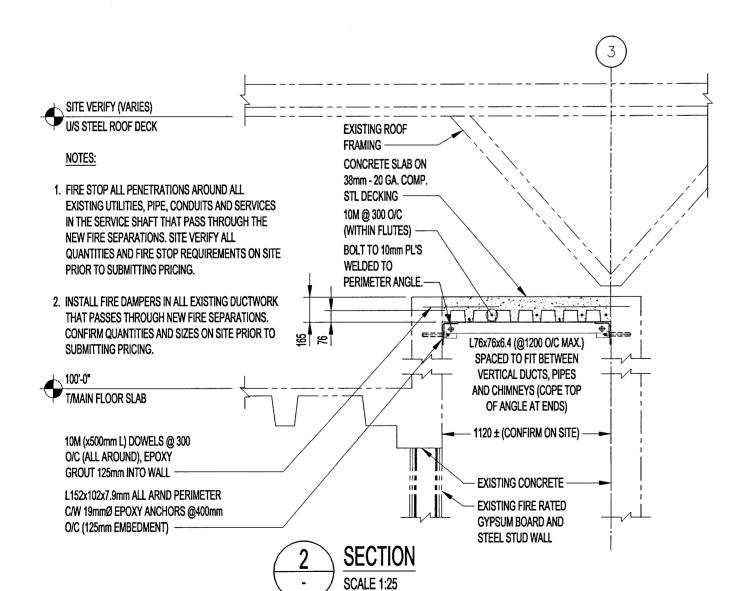
RATED CEILING

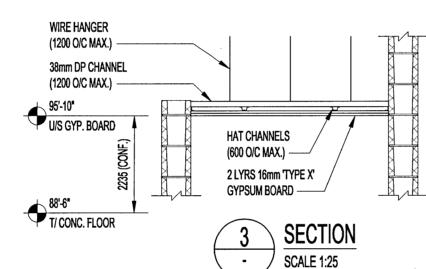
EXISTING

CONCRETE -

PERIMETER C/W 19mmØ









REINFORCING STEEL

- REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CSA G30.18-09 (R2014). GRADE TO BE 400 MPa.
- REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE
- TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
- 4. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
- STRUCTURAL SLAB (TOP & BOTTOM)

CONCRETE:

- CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1-09 (R2014). SEE BELOW FOR MIX REQUIREMENTS.
- ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE CONTRACT ADMINISTRATOR. CALCIUM CHLORIDE SHALL NOT BE USED.
- MIX WATER SHALL BE POTABLE.
- DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.3-M92 (R2013). ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
- CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
- FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON-STAINING AND NON-VOLATILE.
- 7. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE. CO-ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
- GROUT REINFORCING DOWELS WITH EPOXY GROUT HILTI HIT-HY200 MAX, OR APPROVED EQUAL IN ACCORDANCE WITH B7. PLACE AND CURE ALL GROUT WITHIN TEMPERATURE RANGE RECOMMENDED BY MANUFACTURER.
- BONDING AGENTS SHALL BE USED TO ADHERE NEW CONCRETE TO EXISTING CONCRETE OR STEEL. ACCEPTABLE PRODUCT: SIKADUR 32 HI-MOD OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- 10. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
- 11. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.

CONCRETE MIX DESIGNS:

CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

MAX. AGGREGATE SIZE

ENTRAINED AIR CONTENT

INTERIOR CONCRETE SLABS:

EXPOSURE CLASS MIN. 28 DAY COMP. STRENGTH 30 MPa CEMENT TYPE GU MAX. W/C RATIO

FIRESTOPPING - PROPRIETARY SYSTEMS:

- CONTRACTOR TO REVIEW ALL EXISTING FIRE RATED WALLS AND FLOORS AND UPGRADE ALL EXISTING PENETRATIONS AND JOINTS WITH U.L.C. APPROVED FIRESTOPPING SYSTEMS.
- ALL FIRE SEPARATIONS NOTED AND DETAILED SHALL BE CONTINUOUS AND RESIST THE PASSAGE OF FIRE AND SMOKE ALONG ALL PERIMETERS AND AT ALL PENETRATIONS USING A TESTED AND APPROVED FIRESTOP SYSTEM TO PROVIDING THE SAME FIRE-RATING AS THE ASSEMBLY BEING SEALED.
- FIRESTOPPING SYSTEM(S) SHALL BE STORED, HANDLED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND REQUIREMENTS. ALL COMPONENTS OF A MULTI COMPONENT SYSTEM SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER OR SHALL HAVE BEEN TESTED AND APPROVED FOR USE TOGETHER.
- FLEXIBLE, PAINTABLE FIRE-RATED JOINT SEALANT, A/D FIREBARRIER SILICONE SEALANT OR EQUAL. INSTALL SEALANT ON BOTH SIDES OF THE JOINT OR PENETRATION.

PERIMETERS AND PENETRATIONS SHALL BE SEALED WITH A PERMANENT.

- PROVIDE A SEMI-RIGID MINERAL WOOL OR A/D FIREBARRIER MINERAL WOOL AS A BACKING/FILLER WHERE REQUIRED TO ACHIEVE THE FIRE-RATING OR TO PROVIDE SUPPORT FOR THE SEALANT.
- MINERAL WOOL SHALL BE SEMI-RIGID BUT BE COMPRESSIBLE ENOUGH TO ALLOW DEFLECTION OF HORIZONTAL ASSEMBLIES ABOVE (ROOF/FLOORS) WITHOUT TRANSFERRING LOAD TO THE WALLS BELOW.
- SUBMIT FIRESTOP INVENTORY AND SHOP DRAWINGS FOR EACH FIRESTOP SYSTEM TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO INSTALLATION.

STEEL DOORS AND FRAMES:

- 1. FABRICATE STEEL DOORS AND FRAMES IN ACCORDANCE WITH THE CANADIAN STEEL DOOR AND FRAME MANUFACTURER'S ASSOCIATION "CANADIAN MANUFACTURING SPECIFICATIONS FOR STEEL DOORS AND FRAMES (LATEST)".
- DOORS TO BE OF 1.02mm (18 GA.), ZINC WIPED SHEET STEEL, 44mm THICK, WELDED TYPE, REINFORCED FOR SPECIFIED HARDWARE. DOOR SIZE SHALL BE 915mm x 2134mm. INTERIOR DOOR CORES TO BE RESIN IMPREGNATED KRAFT HONEYCOMB (U/N). FIRE-RATED DOORS SHALL BEAR APPROPRIATE U.L.C. LABEL.
- FRAMES TO BE OF 1.29mm (16 GA.) ZINC WIPED SHEET STEEL, WELDED TYPE, REINFORCED FOR SPECIFIED HARDWARE AND CONFIGURATION. PROVIDE 3 NEOPRENE BUMPERS PER DOOR LEAF. FIRE-RATED FRAMES SHALL BEAR APPROPRIATE U.L.C. LABEL.
- INSTALL ALL FRAMES/DOORS PLUMB AND SQUARE. INSTALL ALL FIRE-RATED FRAMES/DOORS TO N.F.P.A. 80.
- SUBMIT SHOP DRAWINGS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO INSTALLATION.

STEEL DOOR HARDWARE:

- HINGES TO BE STANDARD WEIGHT, FULL MORTISE, STAINLESS STEEL, BEARING HINGES. PROVIDE 1 1/2 PAIR MINIMUM PER STANDARD 915x2134 DOOR. ACCEPTABLE PRODUCT: STANLEY FBB191 x 626 OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- EXIT DEVICES TO BE FURNISHED WITH LEVER HANDLE TRIM. ACCEPTABLE PRODUCT: VON DUPRIN 98L-F SERIES RIM x 626 OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- ALL LOCK AND PASSAGE SETS TO BE STANDARD DUTY, LEVERED HANDLE DESIGN. LOCKS TO SUIT OWNER'S MASTER KEYING SYSTEM. ACCEPTABLE PRODUCT: SCHLAGE AL SERIES x SAT x 626 OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- CLOSURE TO BE HEAVY DUTY CLOSURE, ACCEPTABLE PRODUCT: LCN 4040XP SERIES x 626 OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- KICK PLATES TO BE 250mm HIGH STAINLESS STEEL. ACCEPTABLE PRODUCT: STANDARD METAL K10B OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- 6. SUBMIT SHOP DRAWINGS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO INSTALLATION.

GROUP CONSULTING ENGINEERS

GYPSUM BOARD:

GYPSUM BOARD IN ACCORDANCE WITH CAN/CSA-82.27 (LATEST). BOARD TO BE STANDARD TYPE 'X'. ALL PRODUCTS AS MANUFACTURED BY CGC OR EQUAL IN ACCORDANCE WITH B7. SEE DRAWINGS FOR TYPES AND THICKNESS. SHEETS TO BE OF LARGEST PRACTICAL SIZE WITH BEVELED EDGES FOR TAPING.

NOTES:

THESE DRAWINGS SHALL NOT BE SCALED.

SHOWN ON DRAWINGS.

RENOVATION WORK.

AND DETAILED INFORMATION SHOWN ARE CORRECT.

MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.

ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM

THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL,

WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT

ALL OPENINGS THROUGH THE FIRE SEPARATIONS AS A RESULT OF THE WORK OF THIS

CONTRACT ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING

TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE AND SMOKE-TIGHT

ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH

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

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

WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE

WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO

ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS

- 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 13mm MINIMUM THREAD ENGAGEMENT IN STEEL FRAMING. SPACE FASTENERS AT 300mm O/C MAXIMUM ALONG ALL SUPPORTS FOR ALL LAYERS OR AS REQUIRED FOR TESTED ASSEMBLY. INSTALL BOARD PARALLEL OR PERPENDICULAR TO FRAMING, STAGGERING ALL JOINTS BY ONE FRAMING SPACE, MINIMUM.
- FIRE-RATED ASSEMBLIES SHALL BE CONTINUOUS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH NOTED GYPSUM ASSOCIATION FILE NO. REQUIREMENTS AND THE NATIONAL BUILDING CODE(LATEST).
- SOUND WALLS (WITH MINERAL FIBER SOUND BLANKETS) SHALL BE SEALED WITH ACOUSTICAL SEALANT ALL AROUND PERIMETER AND PENETRATIONS.
- 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.

WALL INSULATION:

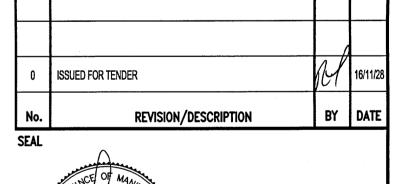
- WALL INSULATION TO BE SEMI-RIGID, UNFACED, STONE WOOL-BASED INSULATION MADE OF NATURAL STONE AND RECYCLED CONTENT.
- THICKNESS OF INSULATION TO SUIT STUD SIZE, STUD SPACING. THE INSULATION IS TO COMPLETELY FILL STUD SPACE.
- ACCEPTABLE PRODUCT: ROXUL SAFE 'N' SOUND OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- INSTALL ALL INSULATION AS PER MANUFACTURER'S WRITTEN SPECIFICATIONS

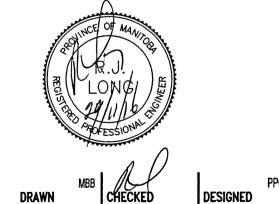
- ALL COMPONENTS FOR INDIVIDUAL PAINTING FORMULAE TO BE PRODUCTS OF A SINGLE MANUFACTURER AND SHALL BE COMPATIBLE WITH EACH OTHER. ALL MATERIALS TO BE PREMIUM GRADE. USE EXTERIOR GRADE FOR EXTERIOR SURFACES.
- STORE, HANDLE, AND APPLY ALL PAINTS AND ASSOCIATED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT DILUTÉ 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, PITTSBURGHPAINTS, PRATT & LAMBERT, OR APPROVED EQUAL IN ACCORDANCE WITH B7.

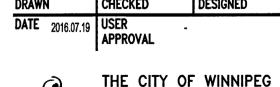
FORMULAE:

GYPSUM BOARD 1 COAT PRIMER SEALER 2 COATS FLAT LATEX

> STEEL DOORS/FRAMES (BOTH SIDES) 1 COAT VINYL WASH PRIMER 1 COAT ENAMEL UNDERCOAT 2 COATS SEMI-GLOSS ALKYD ENAMEL









MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4 PROJECT

PLANNING, PROPERTY AND

DEVELOPMENT DEPARTMENT

APPROVED

REPLACEMENT OF DOMESTIC HOT WATER SYSTEM AT PAN AM POOL

25 POSEIDON BAY SHEET TITLE

STRUCTURAL **MECHANICAL ROOM DETAILS AND NOTES**

AS SHOWN

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1

APEGIN Certificate of Authorization KGS Group No. 245