

BOILER

PLATE

10mmx100mmx1853mm

C200x17x1853mm LONG

25 CHAMFER TYP.

EXIST. T/FLOOR. SLAB

10M DOWELS @ 450 O/C

DRILL & EPOXY GROUT

SLAB USING HILTI HIT-HY200

EPOXY GROUTING SYSTEM

OR APPROVED EQUAL IN

ACCORDANCE WITH B7

75mm INTO EXISTING

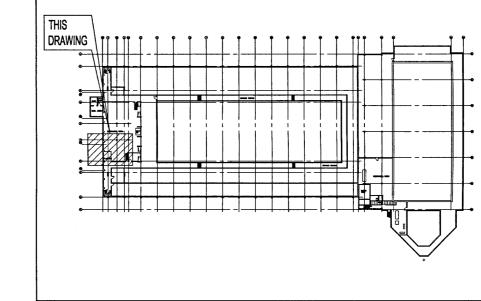
200 MIN.

COORDINATE

WITH MECH.

DETAIL

SCALE 1:5





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.
- PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
- 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.
- LOCATE AND FABRICATE ALL CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS AS DETAILED ON THE DRAWINGS. JOINTS NOT SHOWN SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO THE PLACEMENT OF CONCRETE.
- 10. ALL EXPOSED CORNERS TO HAVE 25mm CHAMFER FILLET UNLESS NOTED.
- CAST-IN-PLACE ANCHOR BOLTS SHALL MEET REQUIREMENTS OF ASTM A307-14.
- 12. EXPANSION ANCHORS SHALL BE HILTI KWIK-BOLTS OR APPROVED EQUAL IN ACCORDANCE WITH B7, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
- 13. ADHESIVE ANCHORS SHALL BE HILTI HY200 HAS RODS OR APPROVED EQUAL IN ACCORDANCE WITH B7, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
- 14. GROUT REINFORCING DOWELS WITH EPOXY GROUT HILTI HIT-HY200, OR APPROVED EQUAL IN ACCORDANCE WITH B7. GROUT BASE PLATES WITH NON-SHRINK GROUT SIKA M-BED STANDARD, OR APPROVED EQUAL. PLACE AND CURE ALL GROUT WITHIN TEMPERATURE RANGE RECOMMENDED BY MANUFACTURER.
- 15. BONDING AGENTS SHALL BE USED TO ADHERE NEW CONCRETE TO EXISTING CONCRETE OR STEEL, ACCEPTABLE PRODUCT: SIKADUR 32 HI-MOD (EPOXY) OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- 16. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
- 17. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.
- 18. PROVIDE 12mm FIBREBOARD ISOLATION JOINT BETWEEN CONCRETE SLAB ON GRADE AND STRUCTURAL COLUMNS, WALLS AND BEAMS.

CONCRETE MIX DESIGNS:

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

INTERIOR CONCRETE, ALL SLABS, WALLS, BEAMS & COLUMNS:

MAX. AGGREGATE SIZE

ENTRAINED AIR CONTENT

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

CONCRETE SURFACE REPAIR:

- SQUARE CUT PERIMETER OF LARGE REPAIR AREAS TO A MINIMUM 25mm DEPTH TO
- COMPLETELY EXPOSE ANY REINFORCING STEEL IF ENCOUNTERED DURING CONCRETE DEMOLITION TO ENSURE COMPLETE ENCAPSULATION WITH REPAIR
- REMOVE CORROSION FROM REINFORCING STEEL USING MECHANICAL ABRASION TECHNIQUES (WIRE BRUSH, BLASTING).
- SECTION LOSS.
- CLEAN THE ROUGHENED CONCRETE SURFACE OF DIRT, LOOSE CHIPS, DUST, OIL, ETC. BY PRESSURE WASH AND COMPRESSED AIR (CONTAIN ALL DEBRIS).
- 8. FORM VERTICAL SURFACES AS REQUIRED AND CHAMFER TO MATCH EXISTING.
- STRUCTURAL REPAIR MORTAR.
- SPECIFICATIONS (SMALL AREAS MAY BE APPLIED BY HAND TROWEL).
- TEMPERATURE OF 10 DEGREES CELSIUS OR UNTIL MINIMUM OF 40% OF THE COMPRESSIVE STRENGTH OF THE CONCRETE IS ATTAINED.

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 CONCRETE.
- WELDED STEEL WIRE FABRIC SHALL CONFORM TO A1064/A1064M-14. 400 MPa MINIMUM GRADE IN FLAT SHEETS ONLY UNLESS APPROVED OTHERWISE.
- SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH CSA A23,1-09 (R2014), CSA A23,3-14 AND ACI SP-66 (2004) UNLESS NOTED, LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED.
- 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.
- PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SLAB-ON-GRADE (TOP) SLAB-ON-GRADE (BOTTOM)

- REMOVE EXISTING FINISH AS REQUIRED BY SCRAPING, HIGH-PRESSURE WASH OR APPROVED ALTERNATE METHOD IN ACCORDANCE WITH B7.
- AVOID FEATHER EDGES.
- CHIP UNSOUND DETERIORATED CONCRETE TO A MINIMUM 25mm DEPTH.
- MORTAR.
- LAP OR REPLACE EXISTING REINFORCING THAT HAS EXPERIENCED SIGNIFICANT
- DAMPEN SUBSTRATE WITH WATER AND THEN PRIME WITH BRUSH COAT OF
- 10. CAST REPAIR AREA WITH STRUCTURAL REPAIR MORTAR AS PER MANUFACTURER'S
- 11. MOIST CURE REPAIR AREAS EXPOSED TO THE AIR FOR 3 DAYS AT A MINIMUM
 - STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FINISHED AS INDICATED BELOW, UNLESS OTHERWISE NOTED, OR APPROVED EQUAL IN ACCORDANCE WITH B7.:

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.

G40.20/G40.21 (LATEST)

ROLLED SHAPES & PLATES

BOLTS, NUTS, & WASHERS

WELDING ELECTRODES

ROLLED W-SHAPES

HSS SECTIONS

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

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

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

ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW

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

STRUCTURAL AND MISCELLANEOUS STEEL

SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (LATEST).

2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA

STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION

CSA G40.21-350W

CSA G40.21-300W

CSA G40.21-350W

CLASS C

ASTM A325

CSA W48

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

INTERIOR STEEL (INDUSTRIAL) - SURFACE PREP. TO SP6 (COMMERCIAL BLAST) - ONE PRIME COAT INTERZINC 52 ZINC-RICH EPOXY (2.5 MIL DFT.)

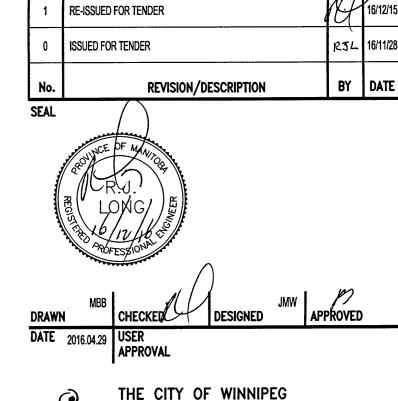
- ONE FINISH COAT INTERGARD 345 HIGH BUILD EPOXY (6.0 MIL DFT.)

WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (LATEST), BY

(LATEST). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.

WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1

- COLOUR OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE AS
- STRUCTURAL STEEL EPOXY PAINT-BLACK
- 6. FIELD TOUCH-UP PAINT TO CONNECTIONS, WELDS, BURNED OR DAMAGED SURFACES, AND UNFINISHED SURFACES AT COMPLETION OF ERECTION AND SHALL MATCH THICKNESS AS SPECIFIED.





25mm

25mm

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

REPLACEMENT OF DOMESTIC HOT WATER SYSTEM AT PAN AM POOL

25 POSEIDON BAY

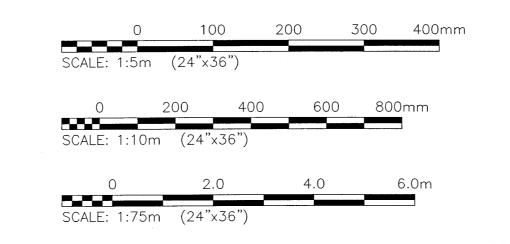
SHEET TITLE STRUCTURAL

GROUP

CONSULTING ENGINEERS

BOILER ROOM PLAN DEMOLITION / NEW CONCRETE PAD

16-0107-026 AS SHOWN



ZAPEGN Certificate of Authorization KGS Group No. 245

30 MPa

20mm

KGS GROUP FileName: P:\Projects\2016\16-0107-026\Dwg\Struct\1058-2016_DRAWING_S04.dwg - Tab: S04 Plotted By: dderoche 16/12/15 [Thu 1:01pm]

EXISTING

100mm THICK

CONC. SLAB

16mmØ HILTI HAS ROD C/W HY-200 ADHESIVE

(OR APPROVED EQUAL IN

ACCORDANCE WITH B7). 150 mm EMEBEDMENT

E.W. TOP 25mm COVER

(6 IN TOTAL)

TYPICAL ALL CONCRETE PADS

ROUGHEN

OF ± 3mm

EXISTING CONC.

TO AMPLITUDE

10M @ 450 O/C

BOILER / PAD

SEE PLAN

SECTION A-A

SEE PLAN FOR DIMS

NEW 12mm THK GROUT

SIKA TOP 123 PLUS

ROUGHEN EXISTING

AMPLITUDE OF ±3mm

SECTION B-B

CONC. TO AN

SCALE 1:10

SCALE 1:10

12mm DEEP

PERIMETER

SAWCUT AROUND