ADDRESS: PROJECT No: 07-232-01 DESCRIPTION: DATE: FILE NAME: 0723201.dwg

NOTES :

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
3. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY
FOR SAFETY DURING CONSTRUCTION. THE (GENERAL CONTRACTOR, CONTRACTOR, CONSTRUCTION MANAGER, PROJECT MANAGER) SHALL BE RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.

STRUCTURAL STEEL

1. THE STRUCTURAL STEEL FABRICATOR'S ENGINEER SHALL BE RESPONSIBLE FOR LOCATING AND DESIGNING PROVISIONS FOR ALL TEMPORARY FALL PROTECTION SYSTEMS REQUIRED DURING CONSTRUCTION TO MEET MANITOBA WORKPLACE HEALTH AND SAFETY REGULATIONS.
2. STRUCTURAL STEEL TO CONFORM TO CSA CAN-G40.21, "STRUCTURAL QUALITY STEELS" AND CSA G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
3. ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-50W. ALL HOLLOW STRUCTURAL SECTIONS TO BE G40.21-50W CLASS C. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-44W.
4. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CAN3-S16.1-M84, "STEEL STRUCTURES FOR BUILDINGS".
5. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W47.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
6. ALL BOLTED CONNECTIONS TO USE A325 HIGH STRENGTH BOLTS. MINIMUM CONNECTION SHALL CONSIST OF 2 BOLTS.
7. ALL STRUCTURAL STEEL IS TO RECEIVE ONE COAT OF CISC/CPMA 1-73a QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP2.
8. NO HOLES PERMITTED IN TOP FLANGE OF BEAMS AT COLUMNS WERE BEAMS ARE CONTINUOUS OVER COLUMNS.
9. ANCHOR BOLTS TO BE PROVIDED BY STEEL SUPPLIER AND SET BY THE GENERAL CONTRACTOR.
10. FABRICATOR TO NOTIFY CONTRACT ADMINISTRATOR OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
11. THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE CONTRACT ADMINISTRATOR.
12. THE STRUCTURAL STEEL ERECTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND ERECTING ALL TEMPORARY GUYING AND BRACING TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. THESE SHALL REMAIN IN PLACE UNTIL ALL STEEL DECKING IS ERECTED, WELDED IN PLACE AND ALL MASONRY WALLS CONSTRUCTED.
13. ALL DUCTS LARGER THAN 18 IN.X 18 IN. THROUGH ROOF DECK TO BE FRAMED WITH 3" X 3"X 1/4" ANGLES ALL AROUND, EXCEPT AS NOTED. SMALLER OPENINGS THROUGH STEEL DECK TO BE STIFFENED BY STEEL DECK SUPPLIER. WHERE STEEL DECK REVERSES ITS FRAMING DIRECTION, USE 2 1/2" X 2 1/2" X 1/4" ANGLE TO SUPPORT EDGE.
14. STRUCTURAL STEEL SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A REGISTERED ENGINEER COVERING THE DESIGN OF CONNECTIONS, TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION.

CAST-IN-PLACE CONCRETE

I CONCRETE

1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CAN/CSA-A23.1-04 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CAN/CSA-A23.2-04 "METHOD OF TEST FOR CONCRETE".
2. PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CAN/CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
3. PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CAN/CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
4. CONCRETE STRENGTHS AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INTERIOR PADS: 25 MPa MIN. AT 28 DAYS
CLASS OF EXPOSURE: N
ENTRAINED AIR/CATEGORY: NONE
AGGREGATE MAX. 20 mm
CURING TYPE: 2

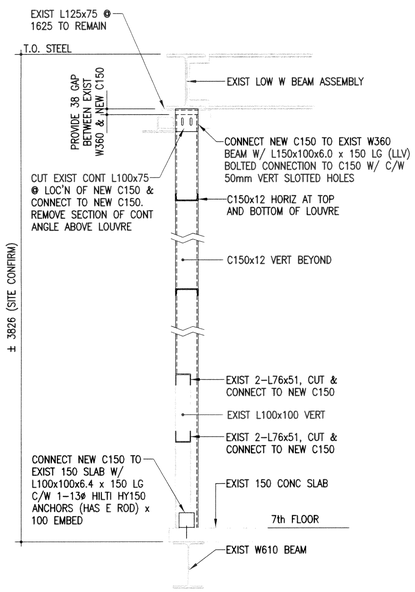
UNLESS INDICATED OTHERWISE THE GENERAL CONTRACTOR CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE GENERAL CONTRACTOR CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

5. CONCRETE CURING TO CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1-04 AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   A) TYPE 1 - BASIC: 3 DAYS = 10°C OR FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
   B) TYPE 2 - ADDITIONAL: 7 DAYS = 10°C OR FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
   C) TYPE 3 - EXTENDED: 7 DAYS WET CURING = 10°C.
6. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C260-01 "STANDARD SPECIFICATION FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE". SUPERPLASTICIZING ADMIXTURES SHALL CONFORM TO ASTM C494/C494M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" OR ASTM C1017/C1017M "STANDARD SPECIFICATION
FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE" WHEN FLOWING CONCRETE IS APPLICABLE. AIR ENTRAINED ADMIXTURES TO HAVE A DURABILITY FACTOR GREATER THAN 75, WHEN TESTED TO ASTM STANDARDS C666/C666M PROCEDURE A. SPACING FACTOR FOR ANY AIR ENTRAINING ADMIXTURE MUST BE 0.17mm OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C457 "STANDARD TEST METHOD FOR MICROSCOPICAL DETERMINATION OF PARAMETERS OF THE AIR-VOID SYSTEM IN HARDENED CONCRETE".

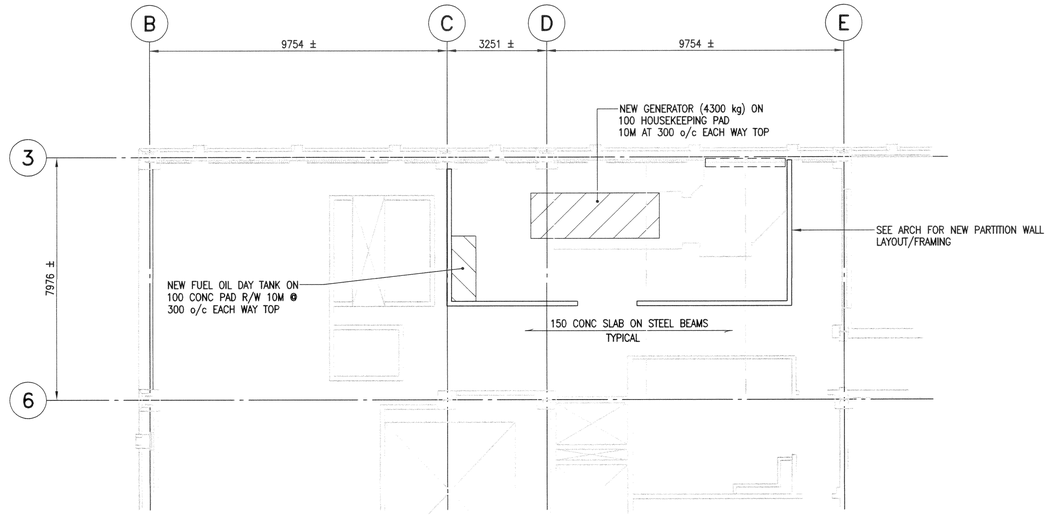
II REINFORCING STEEL

1. ALL REINFORCING STEEL TO BE CAN/CSA-G30.18M GRADE 400R DEFORMED BARS. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED.
2. REINFORCING STEEL COVER IS TO CONFORM TO CAN/CSA A23.3-04 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:

INTERIOR PADS:
EXPOSURE CLASS: N 40 mm 1 1/2 IN. TOP



1 / S1.0 SECTION
1:20
SITE CONFIRM EXIST CONSTRUCTION AND ALL DIMENSIONS

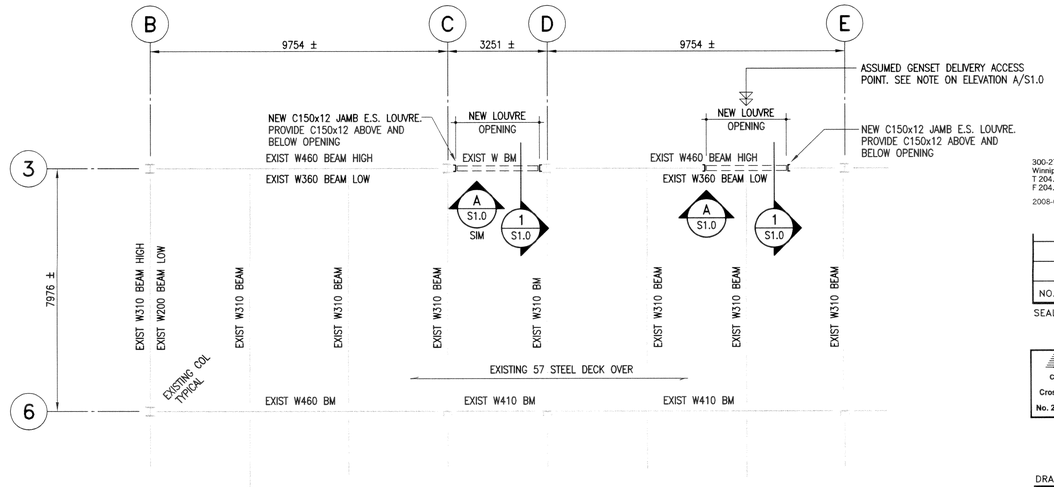


PARTIAL 7TH FLOOR PLAN
1:100

SUB-BASEMENT NOTE:

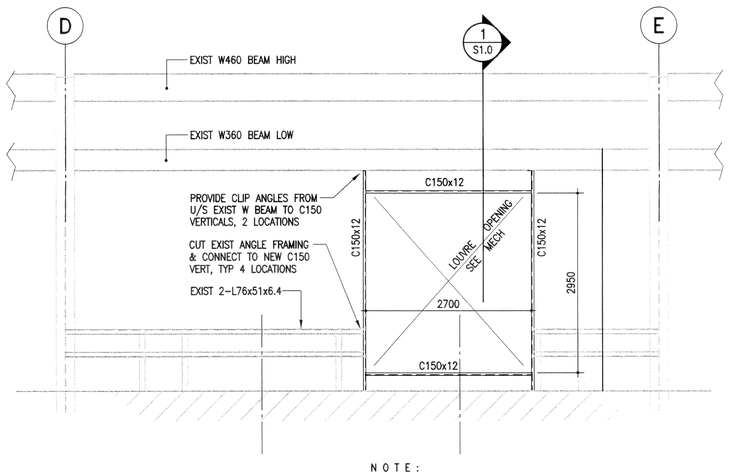
PROVIDE 175x150 CONCRETE CURB R/W 1-10M CONT AND 10M ⌈ DRILLED AND EPOXY GROUTED INTO EXISTING SLAB AT 400 o/c.

PROVIDE HOUSEKEEPING PAD FOR EQUIPMENT AS REQUIRED (100 PAD R/W 10M AT 300 o/c EACH WAY TOP.



PARTIAL ROOF FRAMING PLAN
1:100

* OPENING LOCATION & DIMENSIONS TO BE CONFIRMED BY MECHANICAL
* SITE CONFIRM ALL DIMENSIONS
* PROVIDE L102xL102x6.4 FRAMING BETWEEN JOISTS AND ALL AROUND AT ROOF DECK PENETRATIONS. SEE MECHANICAL FOR LOCATIONS.



A / S1.0 ELEVATION
1:50
SITE CONFIRM EXIST CONSTRUCTION

N O T E :

CONTRACTOR TO CO-ORDINATE DELIVERY OF GENSET UNIT AND ACCESS THRU NEW WALL OPENING (BY CRANE) WITH SUPPLIER. INSTALL UNIT FOLLOWING WALL DEMOLITION PRIOR TO INSTALLATION OF NEW STEEL FRAMING. CONFIRM PACKAGE SIZE WITH SUPPLIER PRIOR TO DELIVERY AND CONFIRM ANY REQUIREMENTS FOR ADDITIONAL DEMOLITION OF WALL FOR ACCESS PURPOSES WITH CONTRACT ADMINISTRATOR PRIOR TO INITIATION OF WORK.

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2008-0885

Crosier Kilgour & Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

NO.	REVISION/DESCRIPTION	BY	DATE
	ISSUED FOR BID OPPORTUNITY	RDM	09.06.19

SEALS

APEGM Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235 Date: June 19/09

PROVINCE OF MANITOBA
June 19/09
R.D. MORPHY
Member
20802
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY MB | CHECKED BY RDM | APPROVED RDM
DATE 2009.04.06 | USER APPROVAL

Winnipeg
CITY OF WINNIPEG
PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
CIVIC ACCOMMODATIONS DIVISION
300 - 65 GARRY ST. R3C 4K4

PROJECT
CITY OF WINNIPEG 510 MAIN ST.
EMERGENCY DISTRIBUTION UPGRADE
PHASE 1

SHEET TITLE
PARTIAL7th FLOOR FRAMING PLAN
PARTIAL ROOF FRAMING PLAN
DETAILS / NOTES

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	07-232-01	S1.0

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