



WEST TRANSCONA FIRE PARAMEDIC STATION 21 1446 REGENT AVENUE W.

PROJECT NUMBER 2004-058
 BID OPPORTUNITY NUMBER 379-2006
 JULY 2006



CITY OF WINNIPEG
 PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
 CIVIC ACCOMMODATIONS DIVISION
 300-65 GARRY STREET
 WINNIPEG, MANITOBA
 R3C 4K4

TOWER ENGINEERING GROUP INC.
 CIVIL & STRUCTURAL CONSULTANT
 208-897 CORYDON AVENUE
 WINNIPEG, MANITOBA
 R3M 0W7

BUILDING CODE DESIGN SUMMARY: DIVISION B PART 3

NATIONAL BUILDING CODE 2005

OVERALL BUILDING AREA - 688 SQ. M. (7398 SQ. FT.)
 MAIN FLOOR - 374 SQ. M. (4022 SQ. FT.)
 APPARATUS FLOOR - 314 SQ. M. (3376 SQ. FT.)
 MEZZANINE - 61 SQ. M. < THAN 40% OF OPEN SPACE OF 314 SQ. M.
 MEZZANINE ENCLOSED AREA - 26 SQ. M. < THAN 10% OF OPEN SPACE OF 314 SQ. M.

ONE STOREY - BASEMENT

FACING 3 STREETS OF FIRE FIGHTER ACCESS.

DESIGN OCCUPANT LOAD - ACTUAL OCCUPANT LOAD 8-10 PERSON MAXIMUM PER SHIFT.

SECTION 3.2 BUILDING FIRE SAFETY

3.2.2.55- GROUP D, UP TO 2 STOREYS

BUILDING DESIGN:

- PERMITTED TO BE OF COMBUSTIBLE CONSTRUCTION OR NONCOMBUSTIBLE CONSTRUCTION USED SINGLY OR IN COMBINATION, AND SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 45 MIN.
- LOADBEARING WALLS, COLUMNS AND ARCHES SUPPORTING AN ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 45 MIN. OR BE OF NONCOMBUSTIBLE CONSTRUCTION.

3.2.3. - SPATIAL SEPARATION AND EXPOSURE PROTECTION

3.2.3.1-TABLE 3.2.3.1 GROUP A AND F3 NOT SPRINKLERED - 100% AREA OF UNPROTECTED OPENING PERMITTED. COMBUSTIBLE CONSTRUCTION AND COMBUSTIBLE CLADDING ARE PERMITTED.
 NORTH WALL (REGENT AVE. W.) APPROX. 46M. TO CIL OF STREET.
 EAST WALL (STARLIGHT DRIVE) APPROX. 14M TO CIL OF STREET.
 SOUTH WALL (PANDORA AVE.) APPROX. 31M TO CIL OF STREET.
 WEST WALL APPROX. 14M TO THE PROPERTY LINE.

3.2.7 - EMERGENCY LIGHTING

3.2.7.3 - EMERGENCY LIGHTING IS PROVIDED.

3.3.5. - INDUSTRIAL OCCUPANCY

BUILDING CODE DESIGN SUMMARY: (CONT)

3.3.5.4. - A GARAGE SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION IN CONFORMANCE WITH THE REQUIREMENTS OF SUBSECTION 6.2.2. TO PREVENT EXCESSIVE ACCUMULATION OF CARBON MONOXIDE, EXHAUST FUMES OR FLAMMABLE AND TOXIC VAPOURS.
 3.3.5.6. - A STORAGE GARAGE SHALL BE SEPARATED FROM OTHER OCCUPANCIES BY A FIRE SEPARATION WITH A FIRE RESISTANCE RATING NOT LESS THAN 1.5H.

3.3. SAFETY WITHIN FLOOR AREAS

3.3.1.21. JANITOR'S ROOM SEPARATED FROM THE REMAINDER OF THE BUILDING BY A FIRE SEPARATION OF ¾ H.

3.4. EXITS

3.4.2.1 - TWO EXITS ARE REQUIRED.
 3.4.4. -EXIT ENCLOSURE SEPARATION HAVING A FIRE RESISTANCE RATING NOT LESS THAN THAT REQUIRED BY SUBSECTION 3.2.2. - ¾ H TO MATCH FLOOR ASSEMBLY.
 3.4.5.1 EXIT SIGNS NOT REQUIRED.

3.6.2. SERVICE ROOMS

3.6.2.1. - FUEL FIRED APPLIANCES INSTALLED IN SERVICE ROOMS SEPARATED FROM REMAINDER OF THE BUILDING BY FIRE SEPARATIONS HAVING A FIRE RESISTANCE RATING NOT LESS THAN 1H.

3.7. WASHROOMS

REGULAR MAXIMUM OCCUPANT OF FIRE PARAMEDIC STATION IS 8 TO 10 PERSON.
 MORE MALE FIRE FIGHTER THAN FEMALE. THE RATIO IS MORE THAN 20 TO 1.
 TABLE 3.7.22. B - GROUP D - 1-25 REQUIRED ONE FOR EACH SEX.
 TABLE 3.7.22.C - GROUP F3 - 1-10 REQUIRED ONE FOR EACH SEX
 PROVIDE IN THIS STATION -
 MALE - 3 WC 1 URINAL
 FEMALE - 2 WC

3.8. BARRIER-FREE DESIGN

3.8.2.3 - PROVIDED ONE UNISEX BARRIER FREE WASHROOM FOR PUBLIC USE.
 3.8.3.3 - PUBLIC ENTRANCE DOORS EQUIPPED WITH POWER DOOR OPERATORS.

LEGAL DESCRIPTION

PLAN DEPOSIT #720 /2006

DRAWING LIST

COVER SHEET

CS DRAWING LIST, BUILDING CODE DESIGN SUMMARY & LEGAL DESCRIPTION

CIVIL

C1 GEODETIC SITE PLAN & DETAILS
 C2 SITE PLAN -MECHANICAL SERVICES & DETAILS

ARCHITECTURAL

L1 SITE PLAN -LANDSCAPING
 L2 LANDSCAPING SECTIONS
 A1 CRAWL SPACE FLOOR PLAN
 A2 BASEMENT FLOOR PLAN
 A3 MAIN & MEZZANINE FLOOR PLANS - WALL TYPES
 A4 BASEMENT FLOOR PLAN - REFLECTED CEILING
 A5 MAIN & MEZZANINE FLOOR PLANS - REFLECTED CEILING
 A6 DOOR SCHEDULE - DETAILS
 A7 ROOM FINISH SCHEDULE - WINDOW DETAILS
 A8 BUILDING ELEVATIONS - SECTIONS & DETAILS
 A9 BUILDING SECTIONS
 A10 BUILDING SECTIONS & CANOPY SECTIONS
 A11 WALL SECTIONS - DETAILS
 A12 WALL SECTIONS - DETAILS
 A13 STAIR PLANS - SECTIONS
 A14 STAIR SECTIONS - ELEVATIONS
 A15 STAIR SECTIONS - ELEVATIONS & DETAILS
 A16 ENLARGED WASHROOM PLANS - ELEVATIONS & SECTIONS
 A17 MAIN FLOOR PLAN - FURNITURE & MILLWORK
 A18 MILLWORK ELEVATIONS
 A19 MILLWORK SECTIONS
 A20 MILLWORK SECTIONS

STRUCTURAL

S1.0 GENERAL NOTES
 S2.0 FOUNDATION PLAN /BASEMENT SLAB PLAN
 S3.0 MAIN FLOOR /MEZZANINE FLOOR FRAMING PLAN
 S4.0 ROOF FRAMING PLAN
 S5.0 FOUNDATION /MAIN FLOOR SECTIONS
 S5.1 MAIN FLOOR SECTIONS
 S6.0 MEZZANINE /ROOF SECTIONS

MECHANICAL

M1 SITE PLAN -MECHANICAL
 M2 CRAWLSPACE FLOOR PLAN -PLUMBING & SCHEDULE
 M3 BASEMENT FLOOR PLAN -PLUMBING
 M4 MAIN & MEZZANINE FLOOR PLAN -PLUMBING
 M5 CRAWLSPACE FLOOR PLAN -MECHANICAL & SCHEDULE
 M6 BASEMENT FLOOR PLAN -MECHANICAL-SECTION & DETAIL
 M7 MAIN & MEZZANINE FLOOR PLAN -MECHANICAL -ELEVATION, SECTION & DETAIL

ELECTRICAL

E1 SITE PLAN -ELECTRICAL
 E2 CRAWL SPACE FLOOR PLAN -ELECTRICAL & LIGHTING
 E3 BASEMENT FLOOR PLAN -ELECTRICAL POWER & LIGHTING
 E4 MAIN & MEZZANINE FLOOR PLANS -ELECTRICAL POWER
 E5 MAIN & MEZZANINE FLOOR PLANS -ELECTRICAL LIGHTING & SCHEDULE
 E6 PLAN, ELEVATION, ELECTRICAL DETAILS & PANEL LISTS

VOICE, DATA & COMMUNICATIONS

T1 BASEMENT & MAIN FLOOR PLANS -VOICE, DATA & COMMUNICATIONS, SCHEMATICS & SCHEDULES
 T2 ELEVATION, SECTION & DETAIL -VOICE, DATA & COMMUNICATIONS