

INSULATION

UNDER SLAB AREA

PERIMETER AREA (VERTICAL OR HORIZONTAL)

FIXING WIRING-

CONCRETE

BARRIER FOIL

DAMAGED TUBING

HEATED TO 275°F (CLEAR AMORPHOUS STATE)

COOLED TO ROOM TEMPERATURE (OPAQUE CRYSTALLINE STATE)

FULLY RESTORED

REPAIRING KINKS

CONCRETE SLAB

4'-0 OR BY LOCAL

2 LAYER REBAR CONCRETE SLAB WITH WIRSBO hePEX

VALVE HEAD -

TruFLOW END CAP WITH VENT & DRAIN

BASIC END CAP

R20 OUTLET -

ASSEMBLY

31 213

32 199

1.2

3.0

1.0

3.6 18.1

4.6

3.2 12.1

8.3 4.0

3.2 8.1 14.5

(1"Ø)

(3/4"Ø)

(3/4"Ø)

(3/4"Ø)

TOTAL | 46 | 9,652 | 8 | 11 | 32.1 | - | 137.9 | 34.5 | 172.4

10 11 10

N/A

11 N/A N/A

N/A

5.8

15.1

5.0

33 193

34 241 35 242

36 179

38 173

40 278 41 278

42 N/A

43 304

44 N/A

45 N/A

46 N/A

NOTES: THIS DRAWING MUST NOT BE SCALED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO THE CONTRACT ADMINSTRATOR BEFORE PROCEEDING. VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NUMBER TEN ARCHITECTURAL GROUP AND THE COPYRIGHT IN THE SAME BEING RESERVED TO THEM. IT MAY BE REPRODUCED ONLY WITH THE PERMISSION OF THE CITY OF WINNIPEG.

GENERAL NOTES (CONTINUED):

15) HANDLING GUIDELINES:

- A) DO NOT USE WIRSBO PEX TUBING WHERE
- B) DO NOT USE OR STORE WIRSBO PEX TUBING WHERE IT WILL BE EXPOSED TO DIRECT SUNLIGHT FOR MORE
- C) DO NOT WELD, GLUE OR USE ADHESIVES OR ADHESIVE TAPES WITH WIRSBO PEX TUBING.
- D) DO NOT APPLY OPEN FLAME TO WIRSBO PEX TUBING.
- E) DO NOT SOLDER WITHIN 18" OF ANY WIRSBO PEX
- F) DO NOT INSTALL WIRSBO PEX TUBING WITHIN 6" OF ANY GAS APPLIANCE VENTS, WITH THE EXCEPTION OF DOUBLE-WALL B-VENTS WHICH HAVE A MINIMUM
- G) DO NOT INSTALL WIRSBO PEX WITHIN 12" OF ANY RECESSED LIGHT FIXTURES, UNLESS THE PEX LINE IS
- H) DO NOT SPRAY ON OR ALLOW ORGANIC CHEMICALS, PESTICIDES, STRONG ACIDS OR STRONG BASES TO
- COME INTO CONTACT WITH WIRSBO PEX TUBING.
- I) DO NOT USE PETROLEUM OR SOLVENT-BASED PAINTS ON WIRSBO PEX TUBING.
- J) USE ONLY APPROVED AND APPROPRIATE FIRESTOP MATERIALS WITH WIRSBO PEX TUBING.

DRAWING NOTES:

ELECTRIC HEAT BY THE ELECTRICAL SUBCONTRACTOR.

MEASURING PORTS WITH SHUT-OFF CAPABILITY.

PIPE THE DISCHARGE OF ALL RELIEF VALVES TO THE NEAREST SUITABLY SIZED FLOOR DRAIN (TYPICAL).

4 ARMSTRONG FLOW TREX VALVE (TYPICAL).

PIPING TO RISE UP IN WALL. COORDINATE EXACT LOCATION WITH ARCHITECTURAL. REFER TO MEZZANINE PLAN FOR CONTINUATION.

LOCATION WITH ARCHITECTURAL. REFER TO MAIN PLAN FOR CONTINUATION.

PIPING TO DROP DOWN AND RUN IN LOWER CEILING SPACE. CONTRACTOR TO VERIFY ROUTING ON SITE PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES. REFER TO MAIN PLAN FOR CONTINUATION.

PIPING TO RISE UP AND RUN IN LOWER CEILING SPACE CONTRACTOR TO VERIFY ROUTING ON SITE PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES. REFER TO MEZZANINE PLAN FOR CONTINUATION.

9 REFER TO FLOW SCHEMATIC FOR CONTINUATION.

CONNECT TO INFLOOR MANIFOLD/HEADER. EXACT

LOCATION OF MANIFOLD/HEADER TO BE DETERMINED ON

SITE WITH THE CONTRACT ADMINISTRATOR. (TYPICAL)

11 PUMP INSTALLED AT CEILING LEVEL.

TOWER PROJECT NO.: 6150 TOWER ENGINEERING GROUP : (204) 925-1150 EMAIL: towereng@towereng.ca WEB: `www.towereng.ca

architectural group

architecture = interior design = graphic design REVISED/ ISSUED/ PLOTTED

DESIGN DEVELOPMENT SUBMISSION ISSUED FOR 40% REVIEW ISSUED FOR 80% REVIEW ISSUED FOR 100% REVIEW

> REVISION/DESCRIPTION **APEGIN** Certificate of Authorization **Tower Engineering Group** No. 1918 Expiry: April 30, 2008

LJR CHECKED BY LJR APPROVED

R32 x 3/4" CU ADAPTE (1" CU FITTING ADAPTER), R32 x 1" CU ADAPTER

MANIFOLD BUSHING

R32 x ¾" Q&E MANIFOLD ADAPTER __ ELBOW, R32 x 1" Q&E

- TruFLOW SUPPLY VALVE

- TruFLOW SUPPLY MANIFOLD

--- TruFLOW MANIFOLD BRACKET

BALANCING HEAD

UPONOR TruFLOW MANIFOLD

2007.11.12 USER APPROVAL

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

PROJECT BRONX PARK COMMUNITY CENTRE HOME OF

GOOD NEIGHBOURS SENIOR CENTRE WINNIPEG, MB.

MAIN FLOOR PLAN

IN-FLOOR HEATING LAYOUT

PP&D 2006-065 AS SHOWN DRAWING SHEET SIZE: ARCH E1 (42" x 30") PLOT 1:1