



A. GENERAL NOTES

- 1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH, AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH, THE NATIONAL BUILDING CODE OF CANADA 2010 (NBCC 2010) AND THE MANITOBA BUILDING CODE 2011 (MBC 2011).
- 2 DESIGN LOADS ARE BASED ON JAYPRO SPORTS FBGP-920C SPEC ISSUED ON NOV 1, 2013.
- 3 DESIGN LIVE LOADS SHALL NOT BE EXCEEDED AT ANY TIME DURING CONSTRUCTION.
- 4 DO NOT SCALE DRAWINGS.
- 5 VERIFY ALL DIMENSIONS, ELEVATIONS, SLOPES, DETAILS, CONDITIONS, ETC., SHOWN ON THE DRAWINGS AND VERIFIED WITH SITE CONDITIONS, PRIOR TO CONSTRUCTION OR PREFABRICATION OF ANY BUILDING COMPONENT.
- 6 MODIFICATIONS, ALTERNATIONS, OR SUBSTITUTIONS MUST BE AUTHORIZED IN WRITING BY THE ENGINEER.
- 7 LOCATE ALL EXISTING SUBGRADE SERVICES PRIOR TO CONSTRUCTION.
- 8 DESIGN AND INSTALL ALL NECESSARY SHORING, BRACING AND FORMWORK. FORMWORK FOR CONSTRUCTION SHALL BE BRIDGED OVER EXISTING SERVICES. PROCEDURE MUST BE APPROVED BY THE ENGINEER.
- 9 CONSTRUCTION SAFETY REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10 DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST OR SCHEDULE DELAY TO THE CONTRACT.
- 11 WHERE THERE IS A DISCREPANCY BETWEEN DRAWINGS, SUBMIT A FORMAL RFI TO THE ENGINEER PRIOR TO MANUFACTURING OR INSTALLATION.
- 12 ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE ENGINEER.

B. CAST-IN-PLACE CONCRETE PILES

- 1 SHAFT AND BELL DIAMETERS ARE AS INDICATED ON THE DRAWINGS.
- 2 PILING CONTRACTOR TO SLEEVE HOLES DURING INSTALLATION OF CONCRETE AS REQUIRED.
- 3 INSTALL FOUNDATION VERTICALLY, NOT OUT OF PLUMB BY MORE THAN 2%; NOR OUT OF POSITION BY MORE THAN 50mm (2").
- 4 REFER TO "CAST-IN-PLACE CONCRETE" AND "REINFORCING STEEL" NOTES FOR MATERIAL SPECIFICATIONS AND REQUIREMENTS.
- 5 REFER TO TYPICAL PILE DETAIL FOR ADDITIONAL INFORMATION.
- 6 VIBRATE CONCRETE OF ALL CAST-IN-PLACE PILES.

C. CAST-IN-PLACE-CONCRETE

- 1 ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CSA A23.1-14/A23.2-14 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION / METHODS OF TEST AND STANDARD PRACTICES FOR CONCRETE.
- 2 CONCRETE SHALL BE DELIVERED UNDER THE (1) PERFORMANCE ALTERNATIVE.
- 3 SUPPLEMENTARY CEMENTITIOUS MATERIAL TO CSA A3000-18 CEMENTITIOUS MATERIALS COMPENDIUM.
- 4 CHEMICAL ADMIXTURES TO ASTM C494/C494M-17 AND ASTM C1017/C1017M-13e1.
- 5 GENERAL CONTRACTOR TO PROVIDE PROPRIETARY MIX DESIGN PERFORMANCE RECORD AS REQUIRED BY CONCRETE MANITOBA.
- 6 SUBMIT CONCRETE MIX DESIGN STATEMENTS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA, PRIOR TO CONSTRUCTION.
- 7 CONCRETE SPECIFICATIONS:

- 56 DAY STRENGTH OF 32MPa; 20mm MAX AGG SIZE; EXP CLASS S-2; AIR CONTENT 4-7%; CEMENT TYP HS/HSb
- 8 CONSTRUCT FORMWORK, SHORING, AND BRACING TO MEET DESIGN, CODE, AND CSA A23.1-14 REQUIREMENTS. CONSTRUCT ACCURATELY, SO THAT RESULTING FINISHED CONCRETE CONFORMS TO SHAPES, LINES, AND DIMENSIONS INDICATED ON THE DRAWINGS.
- 9 VIBRATE ALL CONCRETE WORK WITH APPROPRIATE INTERNAL VIBRATORS.
- 10 CONCRETE WORKING TIME, FROM BATCHING TO PLACEMENT AND CONSOLIDATION, SHALL NOT EXCEED 2.0 HOURS.
- 11 CONTRACTOR SHALL ACCURATELY PLACE AND SECURE ANCHOR BOLTS TO BE EMBEDDED IN THE CONCRETE TO GOAL POST MANUFACTURER REQUIREMENTS.
- 12 CLEAR CONCRETE COVER TO VERTICAL REINFORCING STEEL SHALL BE 75mm.
- 13 CONCRETE TESTING SHALL BE PERFORMED BY A CSA APPROVED TESTING COMPANY RETAINED BY THE CONTRACTOR. A MINIMUM OF THREE CONCRETE TEST CYLINDERS AND ONE SLUMP TEST SHALL BE TAKEN. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CSA A23.2-14, AND THE RESULTS SHALL BE FORWARDED TO THE ENGINEER.
- 14 ALL FORMWORK INCLUDING CARDBOARD "SONO-TUBES" TO BE REMOVED UPON COMPLETION.
- 15 UNDER IDEAL WEATHER CONDITIONS, ALLOW MINIMUM CURING TIME TO CSA A23.1-14.
- 16 FOR COLD WEATHER CONCRETE WORK, ALL ICE, SNOW, AND FROST SHALL BE REMOVED FROM FORMWORK AND THE TEMPERATURE OF ALL CONTACT SURFACES SHALL BE RAISED ABOVE 10C FOR 24 HOURS PRIOR TO PLACING CONCRETE. CONCRETE SHALL BE NOT LESS THAN 20C NOR MORE THAN 30C WHEN DEPOSITED. CONCRETE SHALL BE ENCLOSED AND THE SPACE SHALL HAVE A TEMPERATURE OF NOT LESS THAN 20C FOR THREE DAYS AND NOT LESS THAN 5C FOR AN ADDITIONAL FOUR DAYS.
- 17 NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ALL CONCRETE PLACEMENT TO ALLOW FOR SITE OBSERVATIONS.

F. REINFORCING STEEL

- 1 REINFORCING STEEL SHALL BE NEW BILLET, DEFORMED BARS, MINIMUM 400MPa TO CSA G30.18-09 (R2014).
- 2 REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST RSIC REINFORCING STEEL MANUAL OF STANDARD PRACTICE.
- 3 ALL REINFORCING TO BE HELD IN PLACE AND TIED BY THE USE OF PURPOSE MADE ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC.
- 4 SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, GRADE, SPACING, HOOKS, BENDS, SUPPORTING/SPACE DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION.
- 5 PRIOR TO PLACING CONCRETE, ENSURE THAT ALL REINFORCING STEEL IS CLEAN, FREE OF LOOSE SCALE, RUST, MUD, OIL, OR OTHER FOREIGN MATERIAL THAT WOULD REDUCE BOND.
- 6 HEATING, QUENCHING, AND BENDING OF REINFORCING STEEL ON THE SITE IS NOT PERMITTED.

1 TYP FOOTBALL POST FOUNDATION

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Notes



Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

Client/Project

CITY OF WINNIPEG

FOUNDATION FOR FIELD
GOAL POSTS

Project No.

115419029

Title

GENERAL NOTES AND
SECTION

ISSUED FOR
CONSTRUCTION

Reference Sheet

Date
2019.11.27

Figure No.

S-101