

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE 2010 NATIONAL BUILDING CODE AND THE MOST CURRENT VERSION OF THE APPLICABLE DESIGN STANDARDS.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LEGISLATION AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH CONSTRUCTION.
4. COORDINATE WITH ALL OTHER DISCIPLINES THE LOCATIONS OF ALL PENETRATIONS PASSING THROUGH WALLS AND/OR SLABS.

DESIGN DATA:

CLIMATIC DATA: ARGENTIA, NEWFOUNDLAND AND LABRADOR.
LOADING CRITERIA: NORMAL IMPORTANCE CATEGORY
SNOW: $S_s = 2.4 \text{ kPa}$; $S_r = 0.7 \text{ kPa}$
 $I_s = 1.0 \text{ (ULS)}$; 0.9 (SLS)
WIND $Q_{90} = 0.75 \text{ kPa}$; $Q_{10} = 0.58 \text{ kPa}$
 $I_w = 1.0 \text{ (ULS)}$; 0.75 (SLS)
SEISMIC: SITE CLASS 'D'
 $S_a(0.2) = 1.7$
 $S_a(0.5) = 0.12$
 $S_a(1.0) = 0.074$
 $S_a(2.0) = 0.024$
 $P_C = 0.06$
 $I_e = 1.0$

FOUNDATION NOTES:

1. ALL FOUNDATIONS SHALL BEAR ON WELL GRADED GRANULAR MATERIAL OR UNDISTURBED NATIVE ROCK HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa .
2. ALL EXCAVATIONS SHALL BE COMPLETELY DEWATERED DURING CONSTRUCTION. KEEP EXCAVATION DEWATERED TO, AT LEAST, 300 mm BELOW LOWEST ELEVATION OF EXCAVATION.
3. CONTINUOUSLY PROTECT THE BOTTOM OF THE EXCAVATION AND ALL FOUNDATIONS ON THE GROUND FROM DAMAGE DUE TO FROST AND GROUNDWATER PRESSURE.
4. ALL SUBGRADE TO BE INSPECTED BY A GEOTECHNICAL CONSULTANT PRIOR TO PLACING CONCRETE.
5. BACKFILL AGAINST THE FOUNDATION WALL IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 450 mm DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL
6. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR PENETRATIONS THROUGH ANY FOUNDATION WALLS.

CONCRETE NOTES:

1. PERFORM CONCRETE WORK IN ACCORDANCE WITH CSA A23.1 AND TESTING TO CSA 23.2.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH TO BE 30 MPa AT 28 DAYS.
3. AIR ENTRAIN ALL CONCRETE EXPOSED TO WEATHER 5% TO 8% AIR BY VOLUME.
4. CONCRETE FORMWORK AND FALSEWORK MATERIALS SHALL CONFORM TO CSA A23.1 AND CSA S269.1
5. REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18 GRADE 400. PERFORM REINFORCING WORK IN ACCORDANCE WITH CSA A23.1.
6. THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS:
CONCRETE CAST AGAINST EARTH 75 mm
CONCRETE SLABS 25 mm
ELEVATOR SHAFT ABOVE SLAB ON GRADE $= 20 \text{ mm}$
ELSEWHERE 50 mm
7. ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES.
8. REINFORCING IS TO BE GENERALLY DETAILED IN ACCORDANCE WITH R.S.I.C. MANUAL OF STANDARD PRACTICE (LATEST EDITION).
9. NO CUTTING OR DRILLING IN HARDENED CONCRETE IS PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENTAL REPRESENTATIVE.
10. GROUT UNDERSIDE OF BASE PLATES OF STEEL COLUMNS WITH NON-SHRINK GROUT TO MANUFACTURES INSTRUCTIONS. GROUTING SHALL BE COMPLETED PRIOR TO LIVE LOADING OF THE STRUCTURE.
11. FOR THICKNESS OF SLABS ON GRADE, SEE SLAB ON GRADE PLANS.
12. ALL REINFORCING STEEL IN PLACE TO BE INSPECTED BY DEPARTMENTAL REPRESENTAIVE BEFORE PLACING CONCRETE.
13. ISOLATION JOINT MATERIAL SHALL BE MIN 12 mm THICK ASPHALT IMPREGNATED FIBREBOARD, TO ASTM D1751.
14. PROVIDE A MINIMUM 1500 EARTH COVER U/N TO THE UNDERSIDE OF EXTERIOR CONCRETE WALLS AND FOOTINGS FOR FROST PROTECTION. PROTECT SOIL FROM FREEZING TO AND BELOW FOOTINGS.
15. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. FOR STEPPED FOOTINGS, USE STEPS NOT EXCEEDING 600 IN HEIGHT.
16. CONSTRUCT CONCRETE WALLS WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT AS INDICATED ON THE DRAWINGS.
17. ALL EXPOSED EDGES TO BE CHAMFERED 25 mm .
18. PLACE ALL CONCRETE IN THE DRY.
19. PROVIDE $2-15 \text{ M}$ EACH FACE AROUND ALL OPENINGS IN CONCRETE PROJECTING 600 mm PAST THE END OF THE OPENING U.N.O.
20. USE CLASS 'B' LAPS FOR REINFORCING BARS IN ACCORDANCE WITH CSA A23.3 U.N.O.

STRUCTURAL STEEL NOTES:

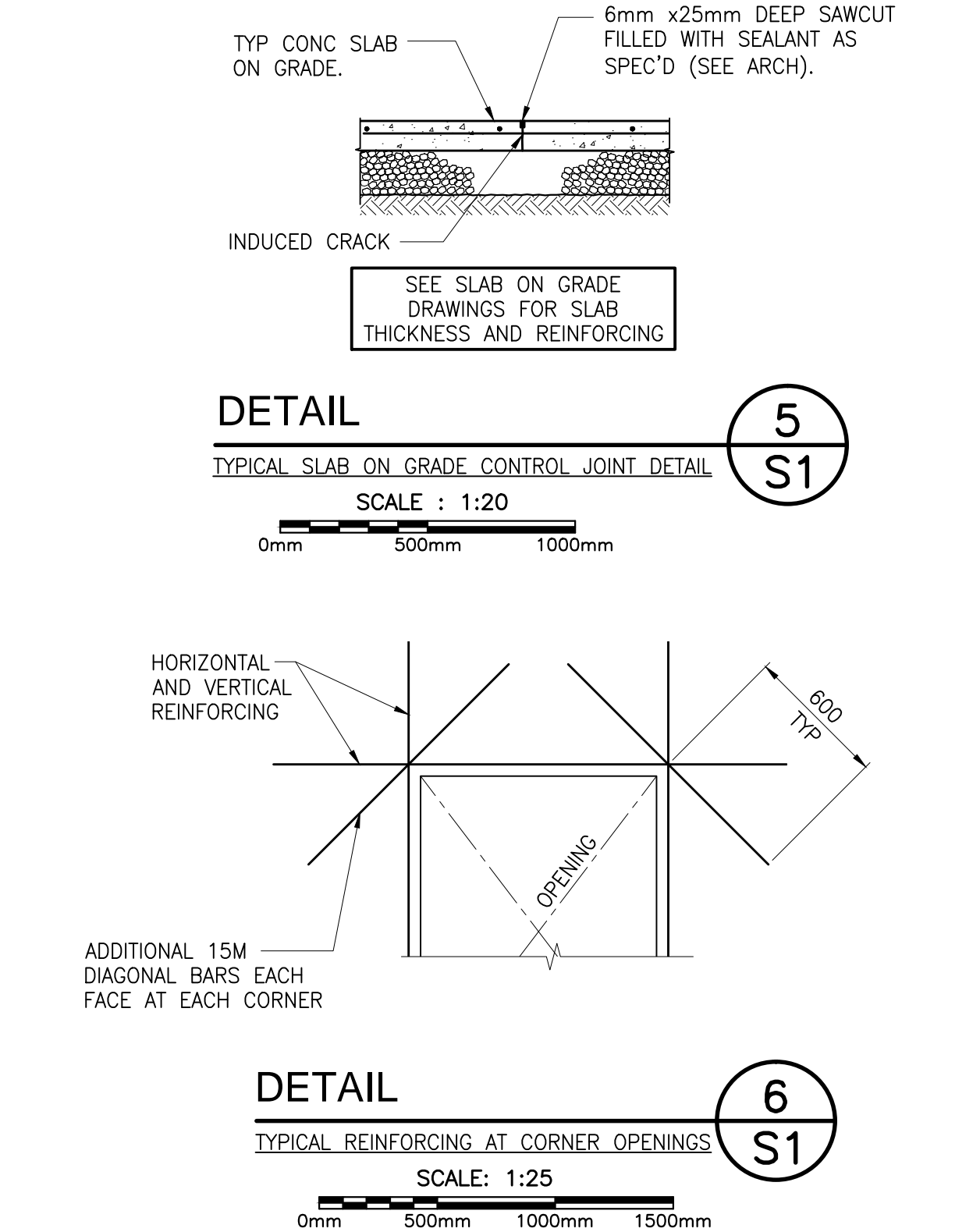
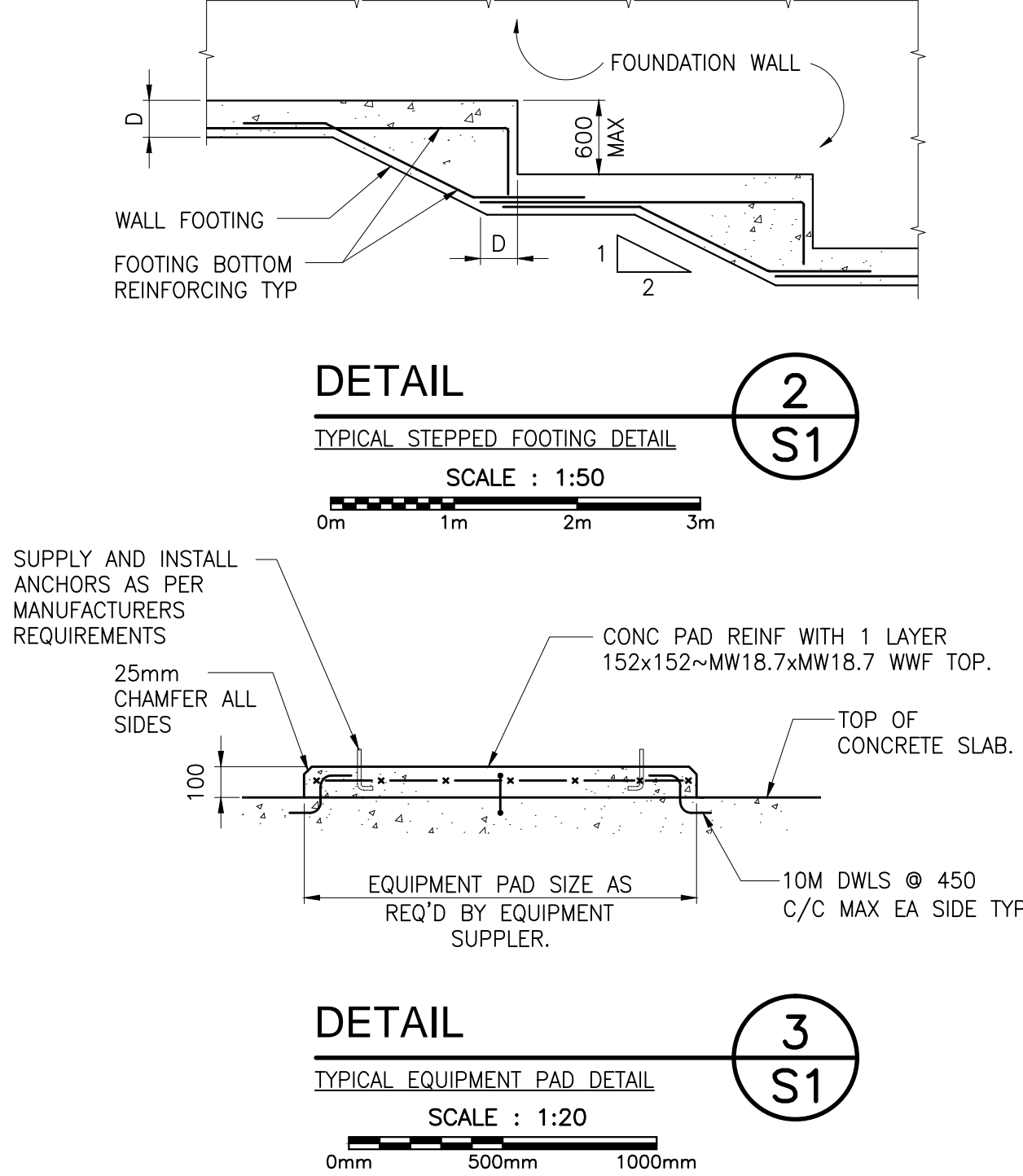
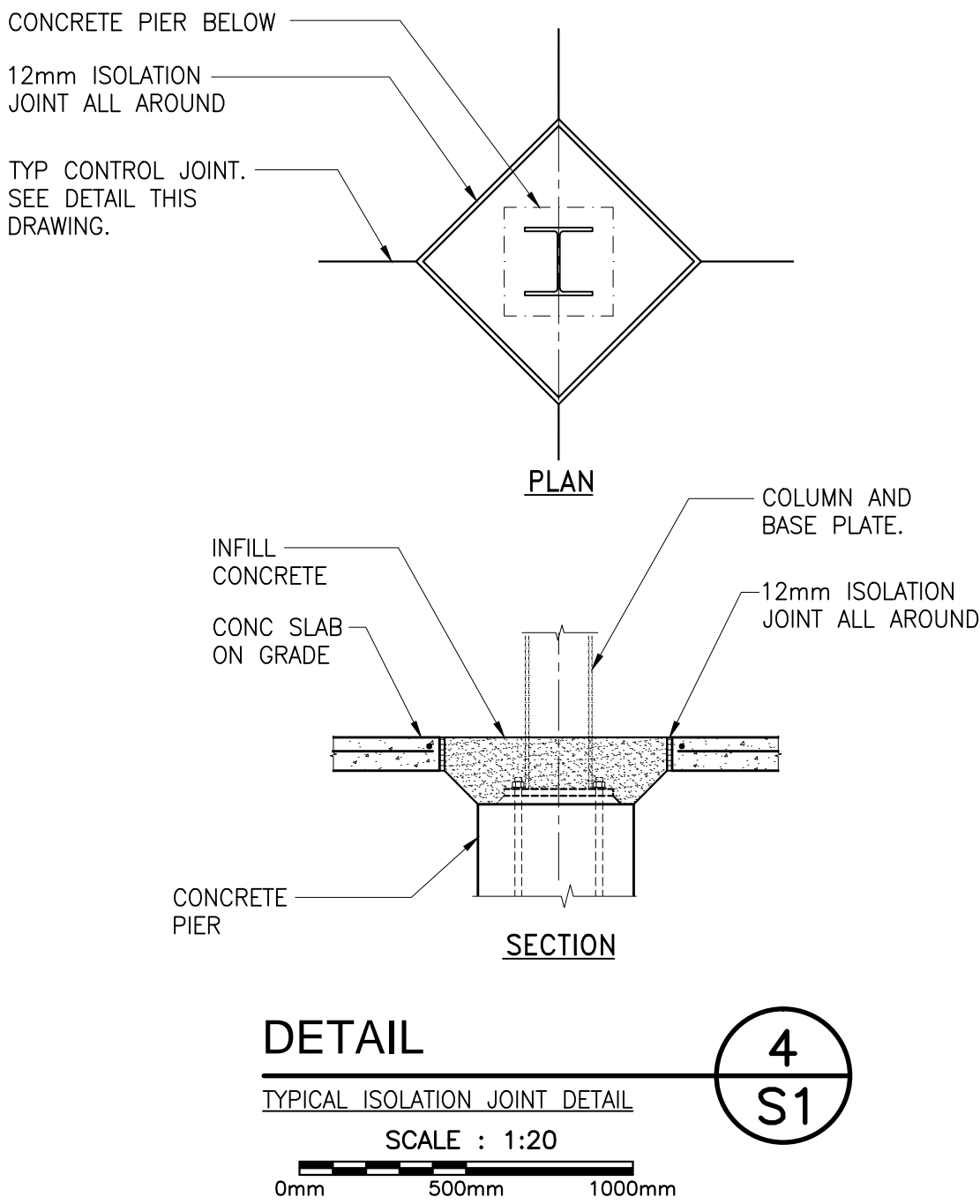
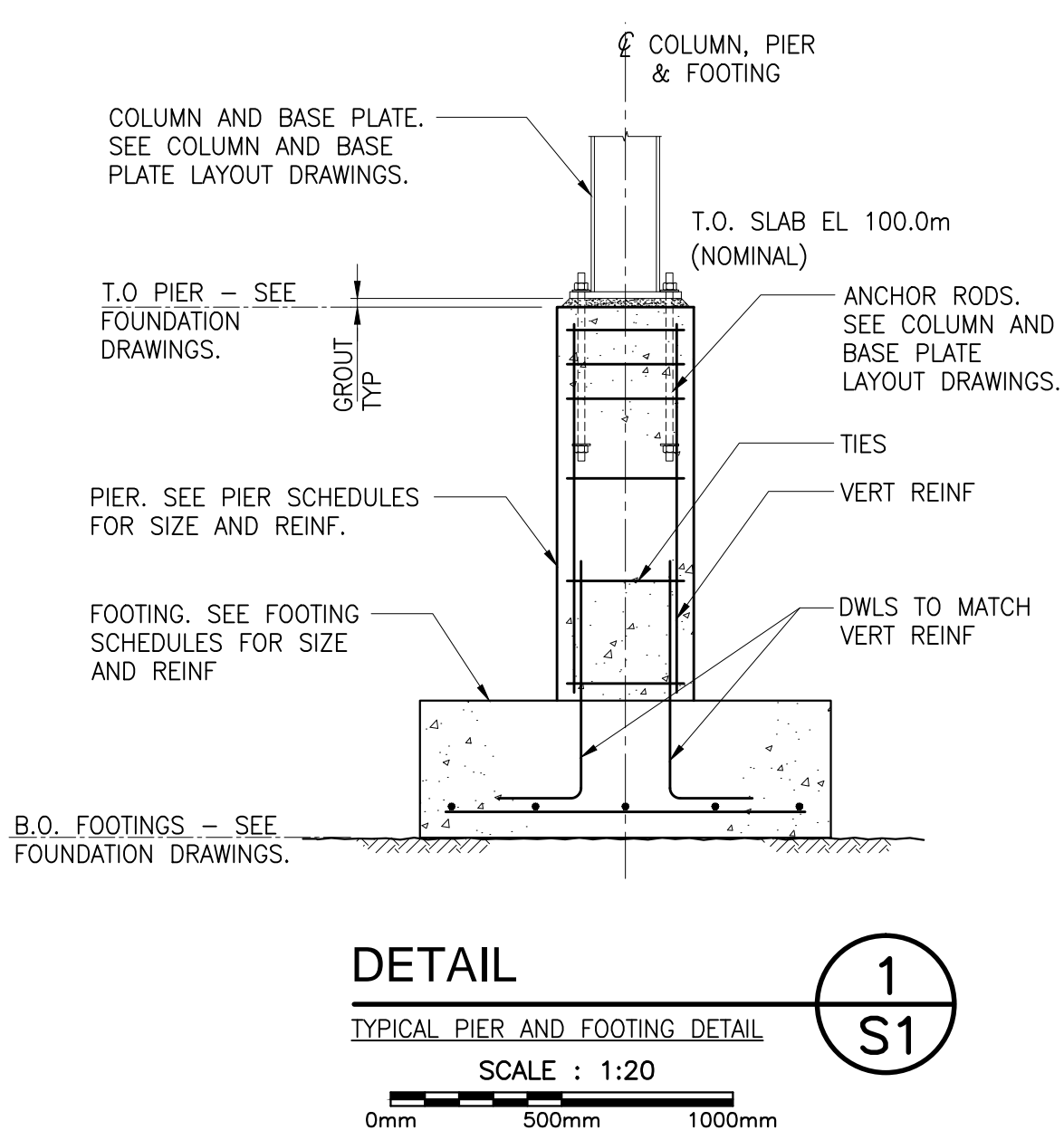
1. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.20/G40.21 GRADE 350W FOR W SECTIONS AND CHANNELS. GRADE 300W FOR ANGLES AND PLATES. HSS TO ASTM A500 GRADE C (345 MPa) IS ACCEPTABLE FOR THIS WORK. ALL STEEL SHALL BE SHOP PRIMED AND PAINTED WITH FIELD TOUCH-UP AS REQUIRED. NEW MATERIAL ONLY SHALL BE USED.
2. STRUCTURAL BOLTS TO ASTM F3125, GRADE A325. ANCHOR RODS TO F1554, GRADE 36.
3. FABRICATION & ERECTION TO CONFORM TO CAN/CSA-S16 (LATEST EDITION).
4. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL STEEL CONNECTIONS UNLESS NOTED OTHERWISE. SUBMIT PROPOSED CONNECTIONS ON SHOP DRAWINGS
5. PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION UNTIL ALL STRUCTURAL MEMBERS ARE IN PLACE, CONNECTED AND TIGHTENED.
6. CARRY OUT ALL WELDING IN ACCORDANCE WITH CSA STANDARD W59. THE FABRICATOR SHALL BE FULLY APPROVED BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH THE CSA STANDARD W47.1. ELECTRODES TO BE E49XX U.N.O.
7. CAMBER BEAMS PARALLEL TO JOISTS TO ENSURE CONTINUOUS STEEL DECK BEARING AS REQUIRED.

STEEL DECK NOTES:

1. FOR OPENINGS SMALLER THAN 300 mm , DECK SUPPLIER TO PROVIDE DECK SUPPORTS. AT LARGER OPENINGS, PROVIDE $L76 \times 76 \times 6.4$ SPANNING TO STRUCTURAL SUPPORTS U.N.O.
2. STEEL DECK SHALL BE INSTALLED IN ACCORDANCE WITH CSSBI 12M AND CSA S136.
3. PROTECT STEEL DECK FROM DAMAGE DURING SHIPPING, STORAGE AND ERECTION IN ACCORDANCE WITH CSSBI STANDARDS.
4. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.
5. FASTEN DECK TO STRUCTURAL STEEL WITH HILTI X-HSN24 $36/4$ PATTERN, OR APPROVED ALTERNATIVE. FASTEN SIDE LAPS WITH $\#10$ SCREWS AT 600 mm C/C.

OPEN WEB STEEL JOIST NOTES:

1. ALL OWSJ SHOES 100 mm DEEP U.N.O.
2. CAMBER OWSJ IN ACCORDANCE WITH CLAUSE 16 OF CAN/CSA S16. CAMBER ALL OWSJ FOR $\frac{1}{2}$ THE DEAD LOAD. MINIMUM CAMBER 0.002 SPAN.
3. MAXIMUM LIVE LOAD DEFLECTION - ROOFS = $L/300$, FLOORS = $L/360$.
4. BRIDGING DESIGN BY SUPPLIER TO SUIT JOIST DESIGN REQUIREMENTS.
5. DEPTH AND SPACING OF OWSJ AS SHOWN ON DRAWINGS.
6. DESIGN JOISTS FOR SUPERIMPOSED DEAD AND LIVE LOADS AND NET FACTORED UPLIFT AS SHOWN ON THE DRAWING, PLUS A CONCURRENT LIVE LOAD OF 1.0 kN LOCATED AT ALL BOTTOM CHORD PANEL POINTS TO ALLOW FOR SUSPENDED MECHANICAL LOADS.
7. 'T.J.' DENOTES TIE JOIST. EXTEND BOTTOM CHORD MEMBER TO CONNECT TO BUILDING COLUMN.



C	ISSUED FOR TENDER	JUN 28 2017
B	ISSUED FOR 99% REVIEW	MAY 25 2017
A	ISSUED FOR CLIENT REVIEW	APR 24 2017
revisions		date

project

MCTS CENTRE AND
C&P BUILDING

PLACENTIA

drawing

dessin

NOTES AND TYPICAL
DETAILS

designed *RJ* conçu

date JUN.28,2017

drawn *sjp* dessiné

date JUN.28,2017

approved *JB* approuvé

date JUN.28,2017

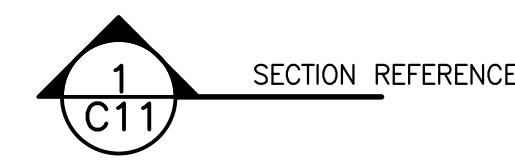
Tender *Gary Macgillivray June 30/17* Submission

PWGC Project Manager *Adrienne* de projets TPSOC

project number *R.081781.004* no. du projet

drawing no. *S1* no. du dessin

LEGEND :



REFERENCE BUBBLE:

- A - PLAN, SECTION, ELEVATION, OR DETAIL NUMBER
B - NUMBER OF THE DRAWING WHERE THE ABOVE IS DRAWN