



1. THE DRAWINGS DO NOT INDICATE ELEMENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY ELEMENTS RELATING TO THE PROJECT. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS "ISSUED FOR CONSTRUCTION" BY MALCOLM PINTO ENGINEERING LTD.
2. THE STRUCTURE HAS BEEN DESIGNED FOR LOADS IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, LATEST EDITION.
3. CONSTRUCTION SHALL CONFORM TO NBCC, LATEST EDITION, AND THE LATEST EDITIONS OF APPLICABLE CSA AND SAFETY STANDARDS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF WALLS DURING CONSTRUCTION.
5. ALL DRAWINGS AND RELATED DOCUMENTS AND DETAILS ARE THE COPYRIGHT OF MALCOLM PINTO ENGINEERING LIMITED AND MUST NOT BE USED OR REPRINTED WITHOUT CONSENT IN WRITING FROM MALCOLM PINTO ENGINEERING LIMITED.

1. ALL CONCRETE, CONCRETE MATERIALS, FORMS, PRACTICES, ETC. SHALL CONFORM TO CAN/CMAA-A23.1-14.
2. 28 DAY STRENGTH: 25 MPa
3. SLUMP AT TIME AND POINT OF DISCHARGE:
 1. ALL CONCRETE: 3"-4" (75mm - 100mm) OR AS PER CAN CMAA-A23.1-14
 - 2.
4. MAXIMUM AGGREGATE SIZE: 3/4" (20mm)
5. NOMINAL WATER-CEMENT RATIO: 0.45 OR AS PER CAN CMAA-A23.1 & 2
6. CONCRETE PROTECTIVE COVERING FOR REINFORCING STEEL:
 1. AGAINST FILL: 20mm
 2. EXPOSED TO EARTH OR WEATHER: 50mm
 3. COLUMN VERTICALS: 50mm
 4. BEAM REINFORCING: 35mm
 5. SLABS, WALL, INTERIOR FACE: 20mm
 6. INTERIOR WALLS & SLABS: 20mm
7. ALL REBAR SHALL HAVE MINIMUM YIELD STRENGTH OF 60 KSI AND SHALL CONFORM TO CAN/CMAA-A23.1-14

1. ALL STRUCTURAL STEEL SHALL BE NEW STOCK AND SHALL CONFORM TO CSA G40.21-04/G40.21-13 GRADE 350W FOR ROLLED SECTIONS, 300W FOR PLATE. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA-S16-14.
2. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH CSA W59-13 AND W55.3-08(2013) BY A FABRICATOR APPROVED UNDER CSA W47.1-09 DIV. 1 AND 2.
3. FABRICATOR MUST SUBMIT SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF NOVA SCOTIA PRIOR TO COMMENCEMENT OF FABRICATION.
4. THREADED RODS SHALL CONFORM TO CSA G40.20/G40.21, GRADE 300W.
5. ALL STEEL TO BE HOT DIPPED GALVANIZED.

1. ALL MASONRY MORTAR SHALL BE TYPE "S" TO CSA A179-04(2014).
2. ALL CONCRETE GROUT SHALL BE 4350 PSI TO CSA A179-04(2014).
3. ALL REINFORCING SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI, WITH A MINIMUM TENSILE STRENGTH OF 75,000 PSI. MINIMUM ALL CONCRETE BLOCK WALLS SHALL BE REINFORCED WITH LADDER TYPE HORIZONTAL BLOCK REINFORCEMENT MINIMUM EVERY THIRD COURSE TO CAN-S304-04 WITH 5/16" DIA. LONGITUDINAL AND TRANSVERSE IRON REINFORCED ANCHORED FABRICATION TO ASTM 153-82 457 qm/l2 LAP REINFORCEMENT 6" AT EACH SPLICE. ALL INTERSECTING BLOCK WALLS TO BE TIED WITH MANUFACTURED T-TYPE LADDER REINFORCEMENT EVERY SECOND BLOCK.

