

PART 1 GENERAL

1.1 RELATED SECTIONS

- .1 Division 1.
- .2 02 41 16 Selective Demolition.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CAN3 A165 Series-94 (R2000), CSA Standards on Concrete Masonry Units covers: A165.1, A165.2, A165.3.
 - .2 CSA A179-94 (R1999), Mortar and Grout for Unit Masonry.
 - .3 CSA-A370-94 (C1999), Connectors for Masonry.
 - .4 CSA-A371-94 (R1999), Masonry Construction for Buildings.
 - .5 CSA-S304.1-94 (R2001), Masonry Design for Buildings.

1.3 SUBMITTALS

- .1 Product data: Submit manufacturer's printed product literature, specifications and data sheet in accordance with Division 1.

1.4 QUALITY ASSURANCE

- .1 Work involves tying into existing imperial size masonry. Review proposed tie in methods and masonry coursing with Departmental Representative prior to commencing work.
- .2 Work under this section shall be conducted by a fully licensed masonry company. Masons to have certificates of qualification and at least 5 years of experience.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

- .1 Deliver and store masonry units, palletized, level and under protective covering. Do not overload structure.
- .2 Protect materials and products from deterioration by weather, mechanical damage and other causes, and from soiling.
- .3 Keep masonry materials and products completely free from frost, snow and ice.
- .4 Handle masonry units in compliance with manufacturer's printed instructions.

PART 2 PRODUCTS

2.1 MASONRY UNITS

- .1 Standard concrete block units: to CAN3-A165 Series (CAN3-A165.1).
- .2 Classification: H/15/A/M.
- .3 Size: modular.
 - .1 Special shapes: Provide purpose-made shapes for lintels and bond beams. Provide additional special shapes as indicated.
 - .2 Width: to suit existing masonry walls.

2.2 REINFORCEMENT AND CONNECTORS

- .1 Bar reinforcement: to CSA-A371 and CAN/CSA G30.18, Grade 400.
- .2 Masonry to concrete anchors: L-shaped corrugated buck anchor with 9/32" fastening hole, 14 gauge steel, hot dipped galvanized per ASTM A153 (1.5 oz/ft²).
 - .1 Width 50mm (2").
 - .2 Length 140mm (5.5")

2.3 MORTAR AND GROUT

- .1 Mortar: to CSA A179.
 - .1 Use aggregate passing 1.18mm sieve where 6mm thick joints are indicated.
 - .2 Color: natural.
- .2 Mortar Type: S based on property specifications.
 - .1 Grout: to CSA A179, Table 3.

2.4 ACCESSORIES

- .1 Receive materials for building such as door frames, steel lintels, and access panels from the respective trades.

PART 3 EXECUTION

3.1 INSTALLATION

- .1 Do masonry work in accordance with CSA-A371 except where specified otherwise.
 - .1 Bond: Running bond.
 - .2 Coursing height: match existing imperial coursing.
 - .3 Jointing: concave.
 - .4 Remove chipped, cracked, and otherwise damaged units, in exposed masonry and replace with undamaged units.
 - .5 Cut out for electrical switches, outlet boxes, and other recessed or built-in objects. Make cuts straight, clean and free from uneven edges.
- .2 Build masonry plumb, level, and true to line, with vertical joints in alignment.
- .3 Lay out coursing and bond to achieve correct coursing heights, and continuity of bond above and below openings, with minimum of cutting.

3.2 SMALL INFILLS

- .1 Knock out masonry pieces of existing as required to make a neat, straight repair that blends into existing.
- .2 Infill opening with new concrete block units to match existing wall thickness and coursing. Strike joints concave.
- .3 For miscellaneous piping and conduit holes left by service removals, fill hole with non-shrink grout.

3.3 LINTELS

- .1 Knock out pieces of existing masonry as required to make a neat, straight repair that blends into existing.
- .2 Install steel lintels with minimum 200mm end bearing. Where opening exceeds 1000 mm width, reinforce jambs with 1- 15M rebar in fully grouted core.

3.4 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.5 PROTECTION

- .1 Protect masonry and other work from marking and other damage. Protect completed work from mortar droppings. Use non-staining coverings.

END OF SECTION