

The Executed Agreement including General Conditions and supplementary conditions, Division 01, applicable drawings and amendments are part of and are to be read in conjunction with this Section.

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described, but not restricted to:
 - .1 To provide re-facing of the existing stonework of one penthouse.

1.2 RELATED SECTIONS AFFECTING THIS SECTION

- .1 Refer to Demolition Section 02 41 19 for removal and salvage of existing stonework of the two penthouses.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA):
 - .1 CSA A371-14, Masonry Construction for Buildings

1.4 SUBMITTALS

- .1 Refer to submittal requirements in individual technical Masonry sections.

1.5 ENVIRONMENTAL REQUIREMENTS

- .1 Cold Weather:
 - .1 Provide a heated staging enclosure as per Section 01 50 00 Temporary Facilities.
 - .2 Supplement Clause 5.15.2 of CSA A371 with following requirements:
 - .1 Maintain temperature of mortar between 5°C and 50°C until used.
 - .2 Prepare mortar by heating sand slowly and evenly. Do not use scorched sand in mortar.
 - .3 Prepare mortar with heated water to 70°C max. 20°C min.
 - .4 Do not wet masonry.
 - .5 When air temperature is below -4°C maintain air temperature above 0°C on both sides of walls during operation and for a period of 24 hours after. Erect wind-breaks to prevent differential freezing of walls.
 - .6 Heated temporary enclosure to be supplied during the installation and for a defined period as per the above standard after the Work is completed.
- .2 Hot Weather:
 - .1 Protect freshly laid masonry from drying too rapidly, by means of waterproof, non-staining coverings.

1.6 WASTE MANAGEMENT

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 Construction / Demolition Waste Management and Disposal.

1.7 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 As per the documents, the extra stone is to be removed from the building, marked and packaged on a pallet and transported to grade, to a dry, out of weather area.
- .2 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .3 Maintain temperature of sand and water for use in mortar between 5°C and 50°C until used.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Masonry materials, mortar, grout, reinforcing and accessories are specified in related Sections.
- .2 Existing stonework, removal noted under Section 02 41 19, stored and ready for install as summarized in this Section.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Prior to proceeding with installation of concrete masonry, Contractor to review the existing substrate. Report any differences to the Consultant. Do not commence Work until any remedial Work is completed.

3.2 PREPARATION OF SITE

- .1 Provide temporary bracing of masonry work during and after erection until permanent lateral support is in place.

3.3 INSTALLATION

- .1 Do stonework in accordance with CSA A371 except where specified otherwise.
 - .1 Site tolerances as noted in CSA A371.

- .2 Build masonry plumb, level, and true to line, with vertical joints in alignment.
 - .3 Layout coursing and bond to achieve correct coursing heights, and continuity of bond above and below openings, with minimum of cutting.
 - .4 Jointing:
 - .1 Allow joints to set just enough to remove excess water, then tool with round jointer to provide smooth, joints true to line, compressed use, uniformly concave joints unless otherwise noted.
 - .5 Cutting:
 - .1 Cut out for electrical switches, outlet boxes, and other recessed or built-in objects.
 - .2 Make cuts straight, clean, and free from uneven edges.
 - .6 Building-In:
 - .1 Build in items including pressed steel frames required to be built in to masonry.
 - .2 Prevent displacement of built-in items during construction. Check plumb, location and alignment frequently, as work progresses.
 - .3 Brace door jambs to maintain plumb. Fill spaces between jambs and masonry with mortar.
 - .7 Provision for movement:
 - .1 Leave 3 mm space below shelf areas.
 - .2 Leave 6 mm space between top of non-load bearing walls and partitions and structural elements. Do not use wedges.
 - .3 Built masonry to tie in with stabilizers, with provision for vertical movement.
 - .8 Steel Lintels:
 - .1 Provide all loose steel lintels centered over opening with 6" bearing each side.
 - .2 All loose lintels hot dipped galvanized.
 - .9 Control joints:
 - .1 Provide continuous control joints as indicated.
 - .2 Incorporate vertical shrinkage control joints in walls of which concrete masonry units are a part.
 - .3 Install control joints on line of door opening jambs from head to top of wall. Cut false joints in concrete and block lintels exposed to view, to line up with control joints.
 - .4 Install control joints at junctions of walls and columns and wherever indicated on drawings. Carry joints full of height of walls.
 - .5 Ensure complete vertical separation through walls incorporating control joints. Make control joint 1/2" wide, rake back 3/4" at junctures with concrete, and leave joints free and wide clear for caulking, as specified in Section 07 92 00 Joint Sealants.
 - .10 Coursing:
 - .1 Provide common bond coursing to match original construction.
-

- .11 Masonry Flashing:
 - .1 Apply through wall flashing and damp proofing coursing membrane in accordance with CSA A371.
 - .2 Install flashing under exterior masonry bearing on foundation walls, slabs, shelf angles, and steel angles over openings. Install flashing under weep hole courses. Secure to air vapour barrier at walls.
 - .3 Cavity wall applications to form a continuous flashing membrane. Carry flashing from front edge of masonry, under outer wythe, then up backing, not less than 8" (200 mm).
 - .4 At the end of each day's Work, seal the top edge of the membrane where it meets the substrate using liquid air seal mastic. Trowel apply a feathered edge to seal termination and shed water.
 - .5 Through wall flashing membrane to extend fully to the exterior face of the interior wythe or substrate face. At locations where flashing terminates or intersects wall openings including door frames, "end dam" flashing to protect openings and redirect water out.

3.4 WEEP HOLES AND CELL VENTS

- .1 Install weeps in vertical joints immediately over flashing, in exterior wythes of cavity wall construction.
- .2 Maximum horizontal spacing of 24" o.c.
- .3 Set weep hole to drain at bed level and at third level.
- .4 Weep holes to be clear of mortar and free flowing.
- .5 Install cavity vents at top of each cavity space

3.5 COMPRESSIBLE JOINT FILLER

- .1 Follow manufacturer's written instructions for installation.

3.6 MORTAR CONTROL

- .1 Install mortar dropping collection mesh to manufacturer's written instructions.

3.7 PROTECTION

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

3.8 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.

END OF SECTION