

Masonry Shop Drawings Checklist

SUBMITTALS, MATERIALS

- CONCRETE MASONRY UNITS
 - STANDARD UNIT, TESTS ACCORDING TO ASTM C90
 - LINTEL UNIT, TESTS ACCORDING TO ASTM C90
- MORTAR, BASED ON ONE OF THE FOLLOWING (BOTH ARE NOT REQUIRED)
 - PROPORTIONS SPECIFICATION, ACCORDING TMS 602, TABLE SC-1 AND ASTM C270
 - PROPERTIES SPECIFICATION, ACCORDING TMS 602, TABLE SC-2 AND ASTM C270
- GROUT, ACCORDING TO ASTM C476
- BAR REINFORCEMENT, ASTM A615, GRADE 60
- SOLID ROUND GLASS FIBER POLYMER (GFRP) BAR REINFORCEMENT, ASTM D7957
- JOINT REINFORCEMENT, ASTM A951

DRAWINGS

- ELEVATION PLAN OF EACH WALL, SHOWING BLOCK LAYOUT AND PATTERNING
- OPENINGS IN MASONRY, DIMENSIONS (STATE AS ACTUAL OR NOMINAL)
- MOVEMENT JOINT LOCATIONS - EXACT LOCATIONS MUST BE DIMENSIONED
 - CONTROL JOINTS IN CONCRETE MASONRY
 - EXPANSION JOINTS IN CLAY MASONRY
- REINFORCEMENT
 - PLACEMENT OF BAR REINFORCEMENT
 - WALL VERTICAL AND HORIZONTAL REINFORCEMENT
 - INCLUDING BOND BEAM LOCATIONS
 - PARTITION WALL REINFORCEMENT , INCLUDING T/WALL CONNECTION
 - DOWELS TO FOUNDATION, WALL/SLAB BELOW, WALL/SLAB ABOVE

- BAR DETAILS INCLUDING LENGTHS, AND BENDS
- DEVELOPMENT LENGTHS USED, AND LAPS SHOWN
- REINFORCEMENT ACCESSORIES
 - COUPLERS (IF APPLICABLE) - THREADED COUPLERS OR MECHANICAL COUPLERS
 - JOINT REINFORCEMENT, SIZE AND LOCATION
 - BAR POSITIONERS (IF APPLICABLE), VENEER TIES, AND OTHER ACCESSORIES
- CONDUITS, PIPES, AND SLEEVES EMBEDDED IN MASONRY
- EMBED PLATES (LOCATION/ELEVATION)
- BEARING PLATES (LOCATION/ELEVATION)

PROCEDURES, ACCORDING TO TMS 602

- HOT OR COLD WEATHER REQUIREMENTS
- GROUT POURS AND GROUT LIFTS
- BRACING PLANS
- MASONRY CONSTRUCTION INSPECTION PLAN

SPECIAL INSPECTION

- SHOW COMPLIANCE

PREFABRICATED MASONRY COMPONENTS

- PREFABRICATED MASONRY LINTELS
 - LIFTING CALCULATIONS
 - CONNECTIONS
 - BETWEEN PREFABRICATED MASONRY LINTEL AND MASONRY WALL
- PREFABRICATED MASONRY PANELS
 - LIFTING CALCULATIONS
 - CONNECTIONS
 - BETWEEN PREFABRICATED MASONRY ELEMENTS
 - BETWEEN OTHER MATERIALS, INCLUDING FOUNDATIONS. AND FRAMING MEMBERS INCLUDING BEAMS, SLABS, COLUMNS AND WALLS

DIMENSIONAL TOLERANCES

- ENSURE DIMENSIONAL TOLERANCES FOR MASONRY ELEMENTS ARE SPECIFIED AND CHECKED ACCORDING TO TMS 602 OR PROJECT-SPECIFIC REQUIREMENTS.
 - THIS INCLUDES BLOCK DIMENSIONS, JOINT WIDTHS, AND PLACEMENT OF EMBEDDED ITEMS.

MASONRY ACCESSORIES AND HARDWARE

- INCLUDE VERIFICATION OF MASONRY ANCHORS, TIES FLASHING, AND WEEP HOLE LOCATIONS.
- SPECIFY DETAILS FOR ATTACHMENT METHODS AND CORROSION RESISTANCE.
- CHECK FOR ACCESSORIES RELATED TO FIRE-STOPPING MATERIALS AT PENETRATIONS AND OPENINGS.

WALL FINISHES AND TREATMENTS

- VERIFY ANY COATINGS, SEALANTS, OR SURFACE TREATMENTS SPECIFIED FOR MASONRY WALLS, INCLUDING ANTI-GRAFFITI COATINGS, WATERPROOFING, OR PARGING.

COMPATIBILITY WITH OTHER TRADES

- CROSS-CHECK THE INTEGRATION OF MASONRY WITH OTHER TRADES, SUCH AS CONNECTIONS TO STRUCTURAL STEEL, MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS.
- CONFIRM COORDINATION WITH ARCHITECTURAL FINISHES, SUCH AS BASEBOARDS OR PANELING THAT INTERFACE WITH MASONRY WALLS.

SPECIAL MASONRY UNITS

- ADDRESS REQUIREMENTS FOR SPECIAL UNITS SUCH AS LIGHTWEIGHT OR SOUND ABSORBING BLOCKS, SPLIT-FACE OR GLAZED MASONRY UNITS, OR ARCHITECTURAL BLOCK FINISHES.
- CHECK DETAILING FOR CURVED WALLS, PILASTERS, OR TAPERED BLOCK UNITS.

REINFORCEMENT AND MASONRY WALL CONFIGURATIONS

- VERIFY REINFORCEMENT FOR SPECIAL CONFIGURATIONS, SUCH AS PILASTERS, PIERS, OR LINTELS WITH HIGHER LOADING CONDITIONS.
- CONFIRM DETAILING FOR STEPPED WALLS, RETAINING WALLS, OR WALLS WITH VARYING THICKNESSES.

TEMPORARY CONDITIONS AND SAFETY

- PROVIDE DETAILS ON TEMPORARY BRACING OR SCAFFOLDING REQUIREMENTS DURING CONSTRUCTION, ESPECIALLY FOR TALL OR SLENDER WALLS.
- INCLUDE SAFETY MEASURES FOR HOT OR COLD WEATHER MASONRY CONSTRUCTION, AS WELL AS FALL PROTECTION REQUIREMENTS NEAR MASONRY OPENINGS.

STRUCTURAL LOAD TRANSFER CONSIDERATIONS

- CONFIRM THE LOCATIONS AND SPECIFICATIONS FOR LOAD-BEARING ELEMENTS, INCLUDING THE TRANSFER OF LOADS FROM LINTELS OR SHELF ANGLES INTO THE MASONRY.
- VERIFY DETAILS FOR GROUTING BENEATH BEARING PLATES AND AT DOWEL CONNECTIONS.

INSPECTION AND TESTING REQUIREMENTS

- ENSURE INSPECTION AND TESTING PLANS COMPLY WITH PROJECT REQUIREMENTS AND CODES, INCLUDING GROUT TESTING FREQUENCY, PULL TESTS FOR ANCHORS, AND MORTAR TESTING.