

WORK NOTES:

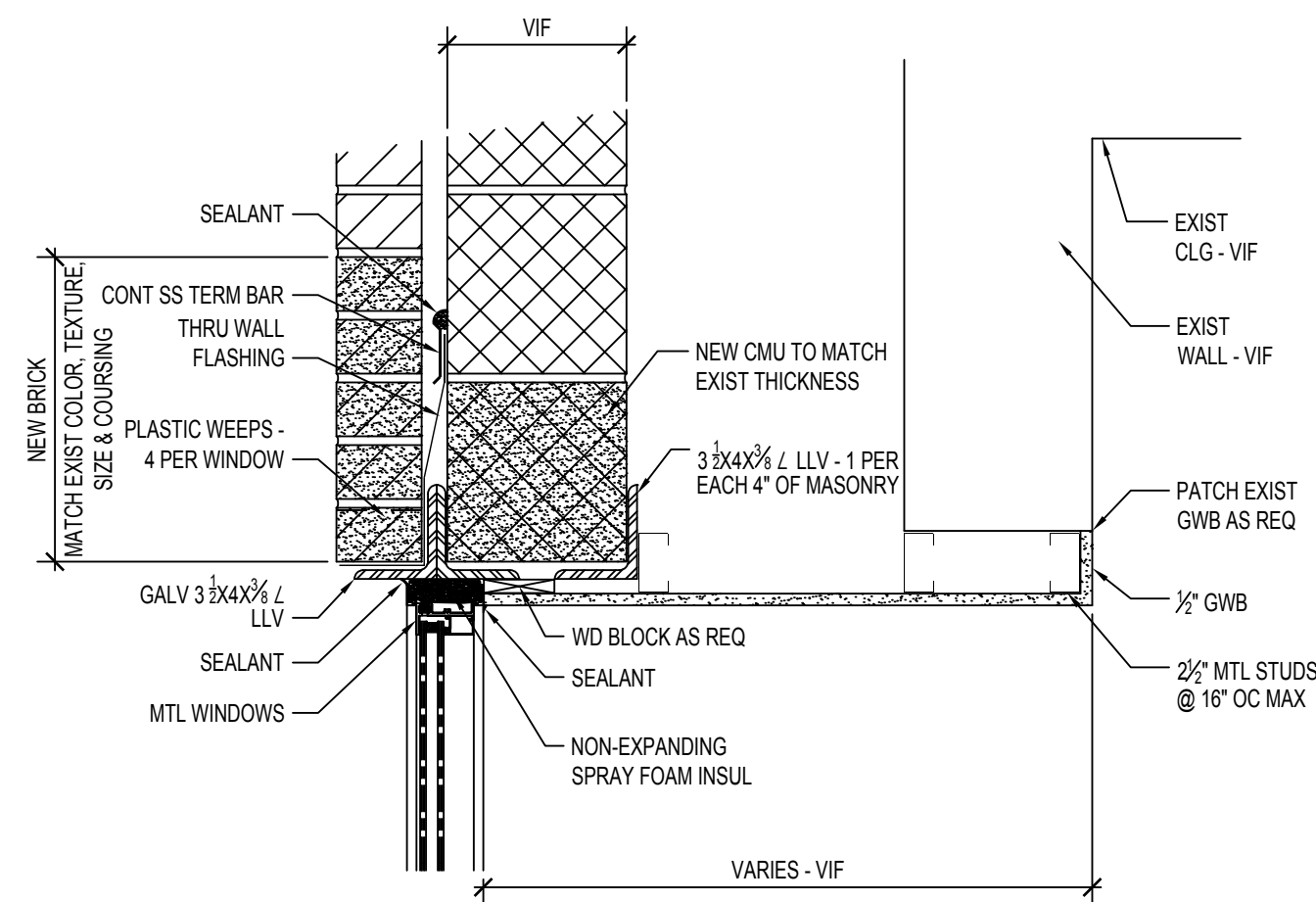
- ◇ REMOVE EXISTING WHITE BOARD AND TACK BOARD - TRANSFER TO OWNER. PATCH AND REPAIR EXISTING GWB AS REQUIRED & PAINT ENTIRE LENGTH OF WALL.
- ◇ REMOVE EXISTING BRICK & CMU BACK UP AS REQUIRED FOR INSTALLATION OF NEW WINDOWS. TOOTH-IN NEW BRICK TO REBUILD MASONRY OPENING TO DIMENSIONS AS REQUIRED BY WINDOW MANUFACTURER.
- ◇ REMOVE EXISTING INTERIOR WALLS AS REQUIRED FOR INSTALLATION OF NEW WINDOWS. INSTALL NEW GWB PARTITIONS AS INDICATED ON IN PLANS. PATCH AND REPAIR EXISTING GWB AS REQUIRED. COORDINATE REQUIRED DIMENSIONS WITH WINDOW MANUFACTURERS REQUIREMENTS.
- ◇ CUT DOWN THE EXISTING TREE & REMOVE STUMP.

GENERAL NOTES:

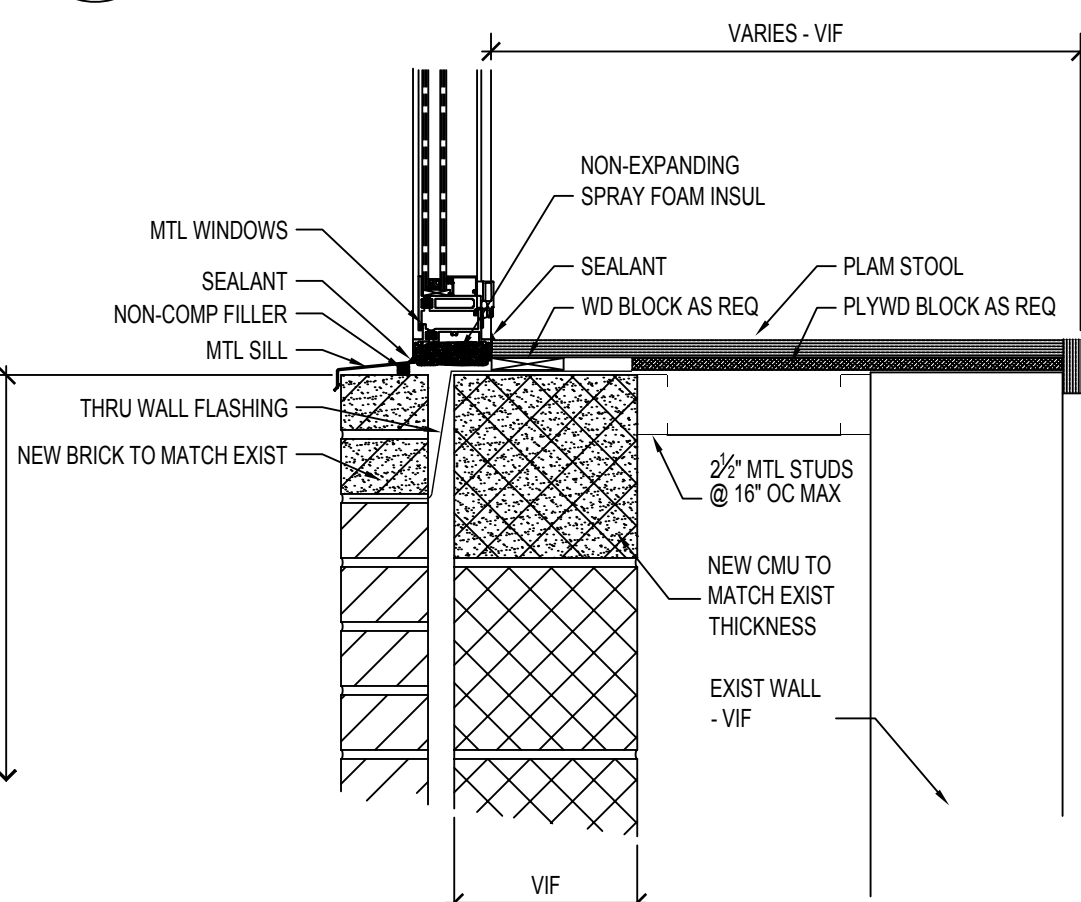
1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE W/ THE MA STATE BUILDING CODE 780 CMR - SEVENTH EDITION, LOCAL BYLAWS AND/OR ORDINANCES, MA ARCHITECTURAL ACCESS BOARD 521CMR AND THE AMERICAN DISABILITY ACT.
2. THE CONTRACT SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING WORK.
3. THE CONTRACT SHALL SECURE ALL NECESSARY PERMITS AND LICENSES AS REQUIRED BY CODE & LOCAL ORDINANCES.
4. THE CONTRACTOR SHALL WORK IN CLEAN, ORGANIZED AND PROFESSIONAL MANNER AND SHALL BE RESPONSIBLE FOR MAINTAINING THE SAFETY AND SECURITY OF THE SITE DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE ADVISED THAT THE OWNER WILL BE OCCUPYING PORTIONS OF THE BUILDING DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH THE OWNER WHEN PLANNED WORK MAY DISRUPT ON GOING OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE TO THE OWNER DOCUMENTATION THAT ALL MATERIAL HAS BEEN LEGALLY DISPOSED OF AS REQUIRED BY ALL GOVERNING CODES AND REGULATIONS.
7. REPAIR MATERIALS SHALL BE SIMILAR TO EXISTING MATERIALS. WHERE IDENTICAL MATERIALS ARE UNAVAILABLE OR CANNOT BE USED FOR EXPOSED SURFACES, USE MATERIALS THAT VISUALLY MATCH EXISTING ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE. USE ONLY MATERIALS WHOSE INSTALLED PERFORMANCE EQUAL OR SUPASSES THAT OF EXISTING MATERIALS.
8. SURVEY EXISTING CONDITIONS AND COORDINATE THE REQUIREMENTS INDICATED TO DETERMINED EXTENT OF SELECTIVE DEMOLITION REQUIRED.
9. VERIFY THAT UTILITIES IN WORK AREAS HAVE BE DISABLED, DISCONNECTED AND/OR CAPPED PER THE REQUIREMENTS OF THE CONTRACT.
10. SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING AN ELEMENT MIGHT RESULT IN AN UNSAFE CONDITION OR STRUCTURAL COLLAPSE. IMMEDIATELY REPORT FINDINGS TO OWNER'S REPRESENTATIVE.
11. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE WORK WITH THE LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS.
 - A. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAINING OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING.
 - B. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS DAILY. DO NOT ALLOW DEMOLISHED MATERIAL TO ACCUMULATE ON-SITE.
12. SWEEP THE WORK AREA BROOM CLEAN EACH DAY AND ON COMPLETION OF SELECTIVE DEMOLITION OPERATIONS, CHANGE FILTERS ON AIR-HANDLING EQUIPMENT IN AREAS AFFECTED BY WORK.

SELECTIVE DEMOLITION NOTES

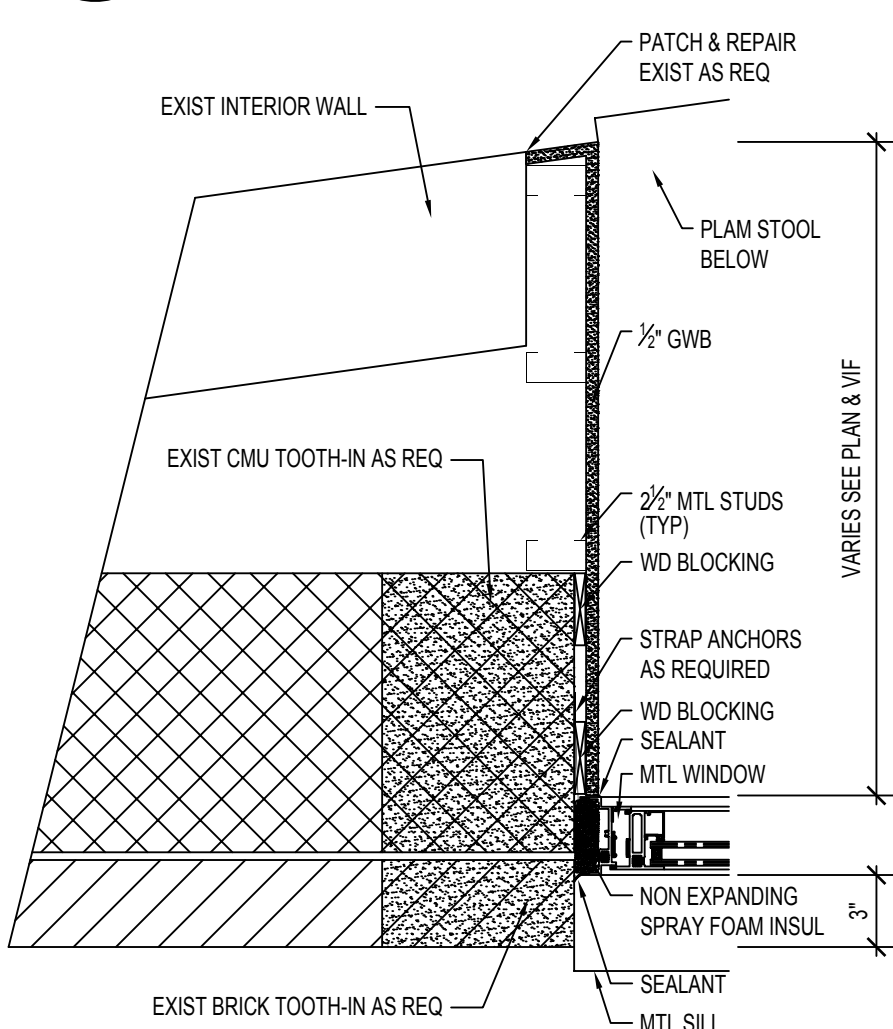
1. IN ADDITION TO THE WORK SPECIFICALLY SHOWN, CUT, MOVE OR REMOVE ITEMS AS NECESSARY TO PROVIDE ACCESS OR ALLOW ALTERATION AND NEW WORK TO PROCEED.
2. IN AREAS INCLUDED AS A PART OF THE CONTRACT, REPAIR OR REMOVE HAZARDOUS OR UNSANITARY CONDITIONS. REMOVE ABANDONED ITEMS SERVING NO USEFUL PURPOSE, SUCH AS ABANDONED PIPING, CONDUIT AND WIRING. REMOVE ALL ITEMS THAT PROTRUDE FROM WALL.
3. CLEAN AND REMOVE SURFACE FINISHES AS NEEDED TO INSTALL NEW WORK AND FINISHES AS INDICATED.
4. PATCH, REPAIR AND REFINISH EXISTING WALLS TO REMAIN TO CONDITION REQUIRED FOR EACH NEW MATERIAL, WITH A WORKMAN-LIKE TRANSITION BETWEEN ADJACENT MATERIALS AND CONSTRUCTION.
5. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE.



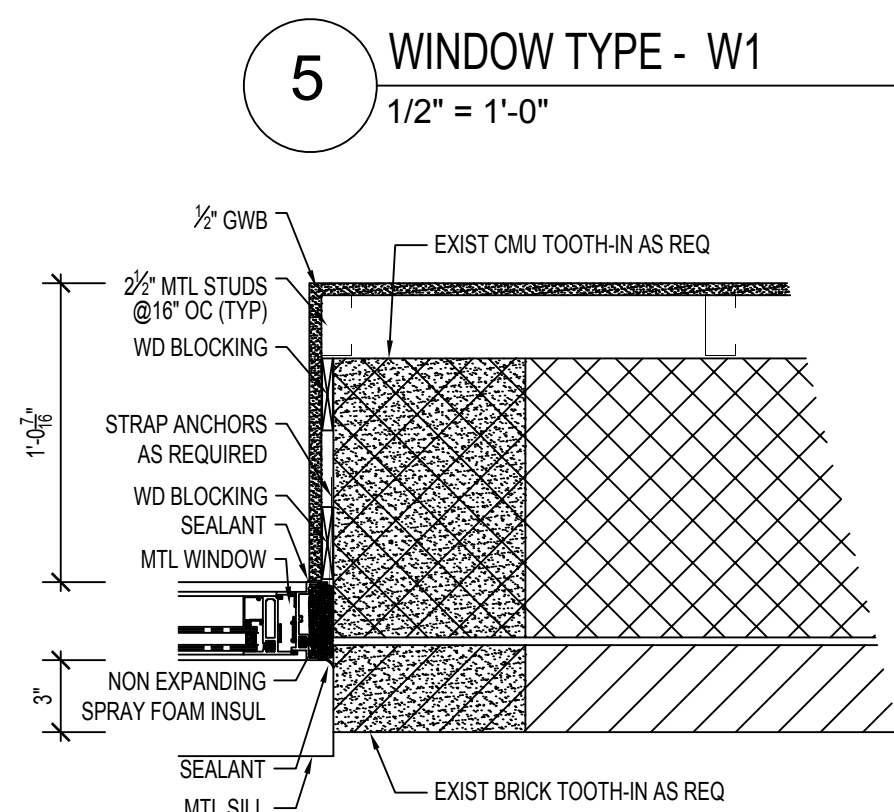
D HEAD JAMB DETAIL
1 1/2" = 1'-0"



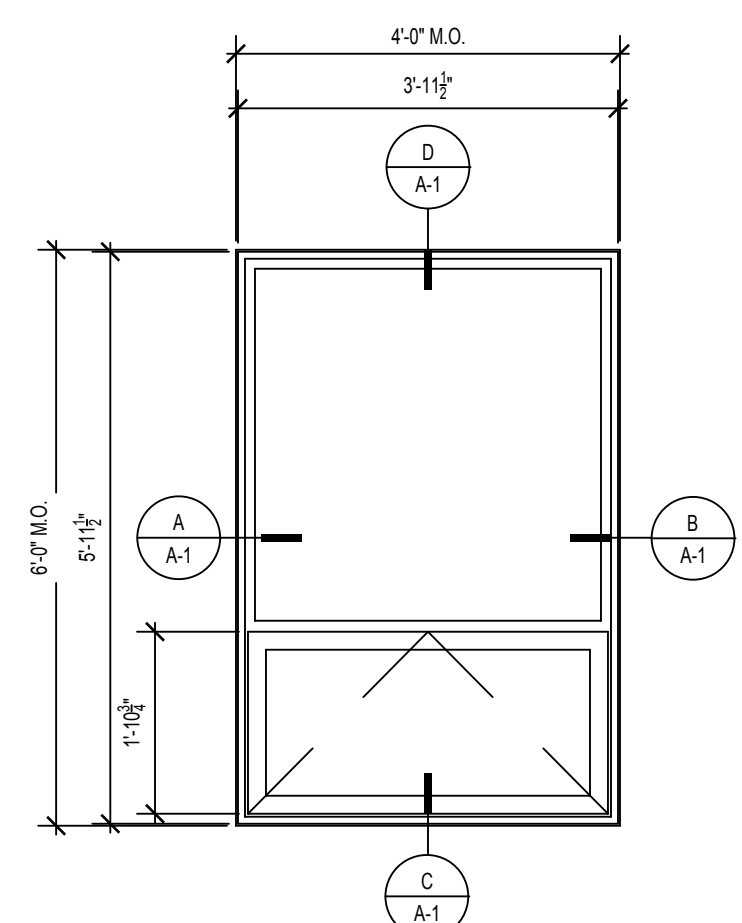
C WINDOW SILL DETAIL
1 1/2" = 1'-0"



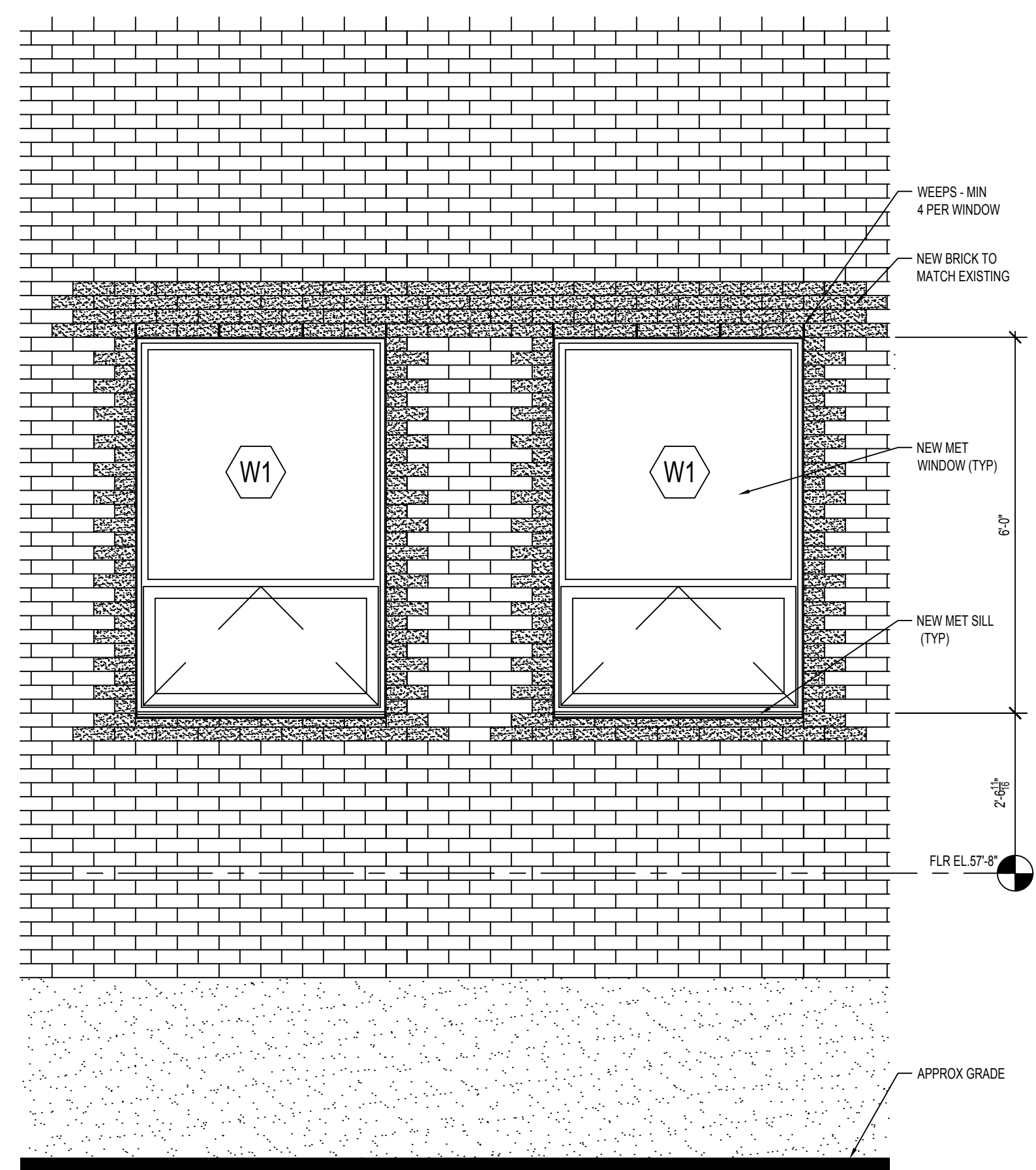
A WINDOW JAMB DETAIL
1 1/2" = 1'-0"



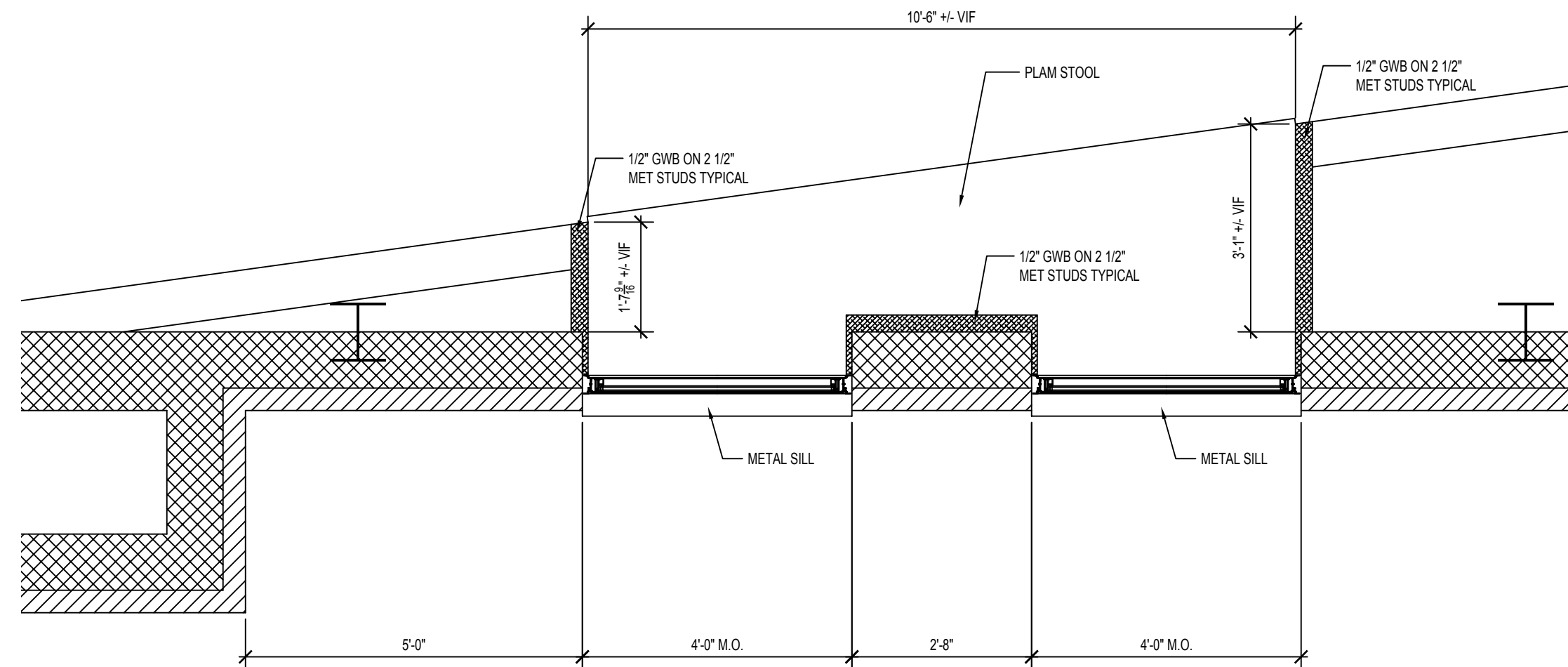
B WINDOW JAMB DETAIL
1 1/2" = 1'-0"



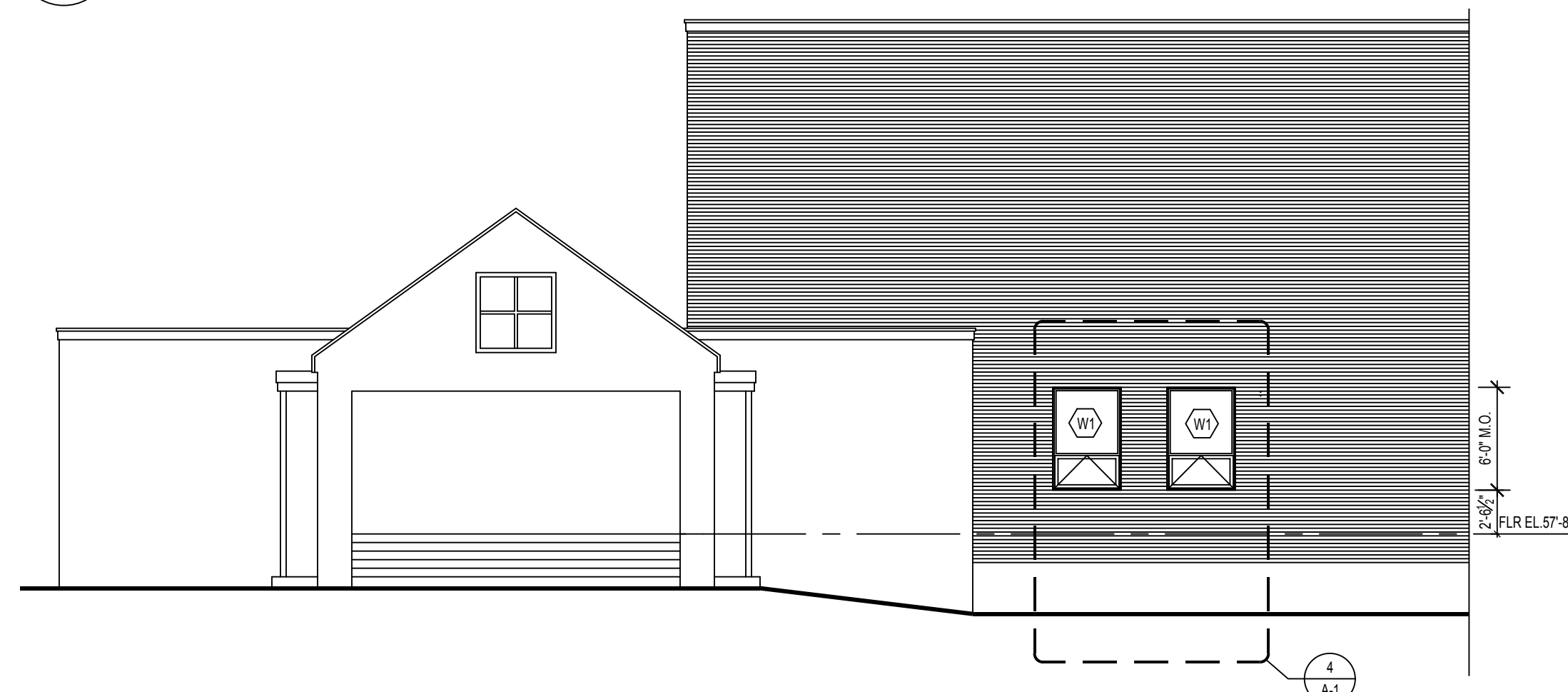
5 WINDOW TYPE - W1
1/2" = 1'-0"



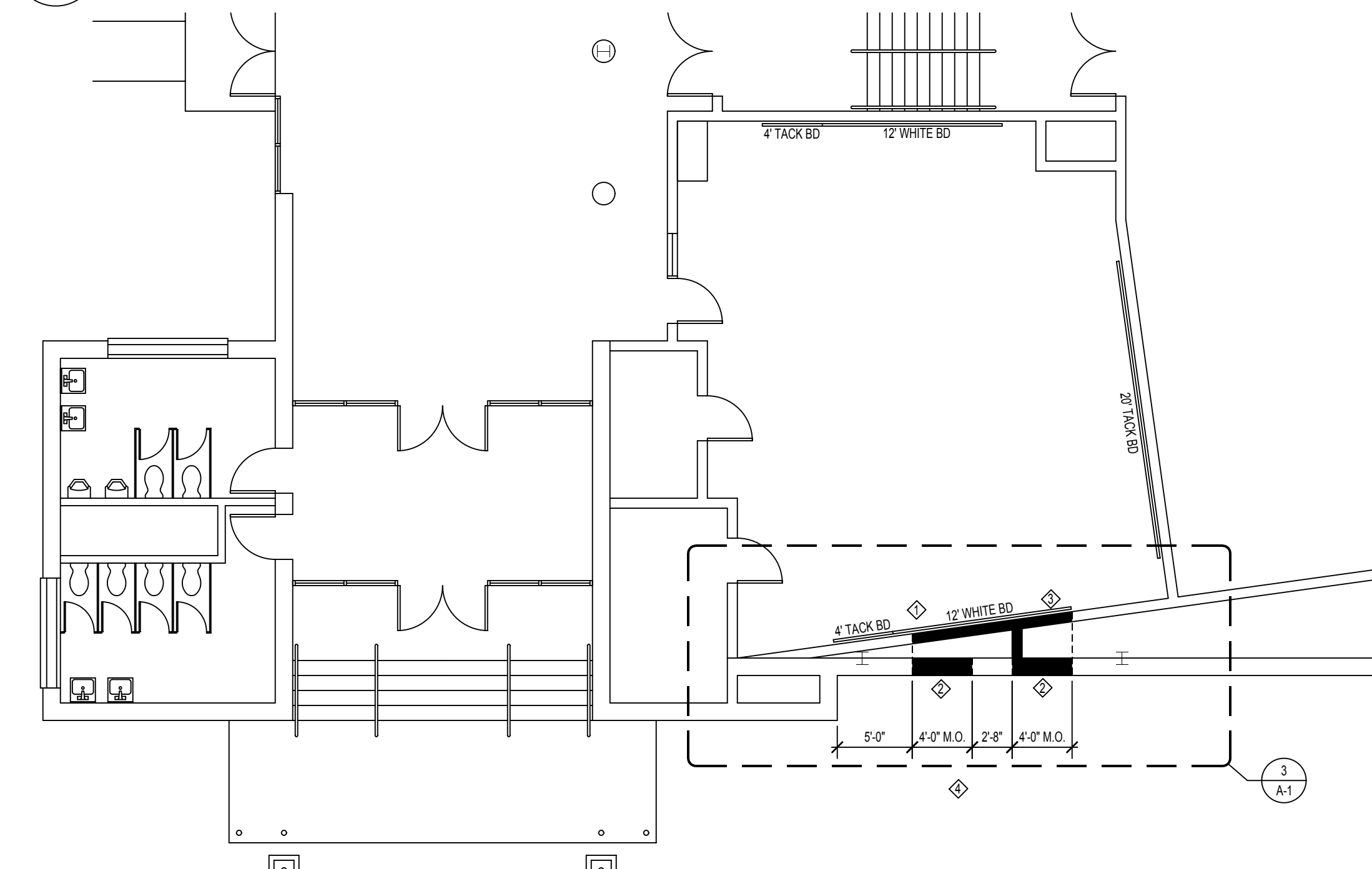
4 PARTIAL ELEVATION
1/2" = 1'-0"



3 PARTIAL PLAN
1/2" = 1'-0"



2 ELEVATION
1/8" = 1'-0"



1 FLOOR PLAN
1/8" = 1'-0"

No.	Date	Issue / Revision

The contractor shall be responsible for the coordination of all field conditions, dimensions and components of the existing base building elements with the work as contained herein.

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Architect's Seal

Sheet Title
FLOOR PLANS,
DETAILS & NOTES

Project no. 1002	Scale AS NOTED
Date 7-26-10	Drawn by PMW
Checked by PMW	A-1

SECTION 01 1000 SUMMARY

PART 1 - GENERAL

- 1.1 SUMMARY
A. Section Includes:
1. Work covered by Contract Documents.
2. Access to site.
3. Coordination with occupants.
4. Work restrictions.
5. Specification and drawing conventions.
B. Related Requirements:
1. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
1. Installation of two (2) new aluminum windows in an existing wall, demolition, plastic laminate stools, masonry repairs, and GWB.

1.3 ACCESS TO SITE

- A. Contractor shall have limited use of Project site for construction.
B. Use of Site: Limit use of Project site to areas within the affected by the work of this Contract. Do not disturb portions of Project site beyond areas in which the Work is indicated.
C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

1.4 COORDINATION WITH OCCUPANTS

- A. Owner Occupancy: Owner will occupy the building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner's usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
1. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.5 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
B. Control Substances: Use of tobacco products and other controlled substances on Project site is not permitted.
1.6 SPECIFICATION AND DRAWING CONVENTIONS
A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

- 1. Imprecise mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
C. Drawing Conventions: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01 7300 EXECUTION

PART 1 - GENERAL

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
1. Construction layout.
2. Installation of the Work.
3. Cutting and patching.
4. Progress cleaning.
5. Starting and adjusting.
6. Coordination with the Work.

1.2 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.3 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
1. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.
B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
1. Written Reports: As there is a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
a. Description of the Work.
b. List of detrimental conditions, including substrates.
c. List of unacceptable installation tolerances.
d. Recommended corrections.

- 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or materials.
3. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
4. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
5. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication.
B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of the Contractor, submit a request for information to Architect according to requirements in Division 01 Section "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.
B. INSTALLATION
A. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
D. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and types required for load conditions.
1. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

15.3 CUTTING AND PATCHING

- A. Cutting and Patching: Generally, employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
1. Cut-in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
C. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements of

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.

- 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.
F. Cleaning, Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS CLEANING

- A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
B. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
C. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
D. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

3.7 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and reset.
B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
3.8 CORRECTION OF THE WORK
A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
B. Restore permanent facilities used during construction to their specified condition.
C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION

SECTION 01 7700 CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
1. Final cleaning.
1.2 LIST OF INCOMPLETE ITEMS (PUNCH LIST)
A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Include the following information at the top of each page:
a. Project name.
b. Date.
c. Name of Architect.
d. Name of Contractor.
e. Page number.
4. Submit list of incomplete items in the following format:
a. PDF electronic file.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
PART 3 - EXECUTION
3.1 FINAL CLEANING
A. Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antidiscrimination regulations.
B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition equivalent in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Complete the following cleaning operations before requesting inspection for certification of Substantial of Project:
a. Remove tools, construction equipment, machinery, and surplus material from Project site.
b. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition. Free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
c. Clean transparent materials, glass windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish glass, taking care not to scratch surfaces.
d. Remove labels that are not permanent.
e. Touch up and otherwise repair and restore matted, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
f. Leave Project clean and ready for occupancy.

END OF SECTION

SECTION 024119 SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Demolition and removal of selected portions of building.
1.2 DEFINITIONS
A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstated.
B. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstated.
1.3 LANDFILL RECORDS
A. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.
1.4 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6 and NFPA 241.
1.5 PROJECT CONDITIONS
A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition on Owner's operations will not be disrupted.
B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
A. Vertical and horizontal lines are to match existing.
3.4 MORTAR BEDDING AND JOINTING
A. Lay hollow masonry units as follows:
1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
2. Lay solid masonry units with completely filled bed and head joints, butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slash head joints.
C. Joint Size: Nominal 3/8 inch, or to match existing.
D. Tool exposed joints slightly concave when tumpbruff hard, using a jointer larger than the joint thickness.
3.5 ANCHORING MASONRY VENEERS
A. Anchor masonry veneers to wall framing and concrete and masonry backup with masonry-veneer anchors (masonry anchors) complying with the following requirements:
1. Fasten each anchor section to masonry backup with two metal fasteners of type indicated.

1. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces installation of new materials, to prevent water leakage and damage to structure and interior areas.

- 2. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
3. Cover and protect furniture, furnishings, and equipment that have not been removed.
3.3 SELECTIVE DEMOLITION, GENERAL
A. Work to be removed by selective demolition only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods less likely to damage construction or remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance by blasting methods.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Dispose of demolished items and materials promptly.
B. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.
3.4 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS
A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals, using power-driven saw, then remove concrete between saw cuts.
3.5 DISPOSAL OF DEMOLISHED MATERIALS
A. Remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
B. Disposal: Transport demolished materials of Owner's property and legally dispose of them.
3.6 CLEANING
A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.
END OF SECTION
SECTION 04 1001 MASONRY

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Face brick.
2. Mortar and grout.
3. Ties and anchors.
4. Embedded flashing.
5. Miscellaneous masonry accessories.
6. Cutting and patching to fit the several parts together and to integrate with other work.
B. PERFORMANCE REQUIREMENTS
A. Provide unit masonry that develops the following net-area compressive strengths (fm) at 28 days. Determine compressive strength of masonry per net-area compressive strengths of masonry units and mortar types according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
1. For Brick Unit Masonry: fm = 2500 psi (17.2 MPa).
1.3 QUALITY ASSURANCE
A. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, through one source from a single manufacturer for each product required.
B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from one manufacturer for each cementitious component and from one source or producer for each aggregate.
PART 2 - PRODUCTS

MASONRY UNITS, GENERAL

- A. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to exceed tolerances and to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects, including dimensions that vary from specified dimensions by more than stated tolerances, will be exposed in the completed Work or will impair the quality of completed masonry.
2.2 BRICK
A. Provide shapes indicated and as follows:
1. Provide units without cores or frogs and with exposed surfaces finished for ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces.
B. Face Brick: ASTM C 216, Grade SW, Type FBS.
1. Initial Rate of Absorption: Less than 30 g/30 sq. in. (or 319 g/34 sq. cm) per minute when tested per ASTM C 67.
2. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not efflorescing."
3. Size (Actual Dimensions): To match existing.
4. Application: Use where brick is exposed, unless otherwise indicated.
5. Product: To match existing.
2.3 MORTAR MATERIALS
A. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.
B. Hydrated Lime: ASTM C 207, Type S.
C. Aggregate for Mortar: ASTM C 144, except for joints less than 1/4 inch (6.5-mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.
1. White-Mortar Aggregates: Natural white sand or ground white stone.
D. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortar.
1. Colors: To match existing.
2. Products: Subject to compliance with requirements, provide one of the following or approved equal:
a. True Tone Mortar Colors; Davis Colors.
b. Centurion Pigments; Lafarge Corporation.
c. SGS Mortar Colors; Solomon Grind-Chem Services, Inc.
E. Water: Drinking water.

2.4 EMBEDDED FLASHING MATERIALS

- A. Concealed Flashing: For flashing partly exposed to the exterior, use metal flashing specified above. For flashing not exposed to the exterior, use the following, unless otherwise indicated:
1. Copper-Laminated Flashing: Laminated flashing consisting of 5-oz./sq. ft. (1.5-kg/sq. m) sheet copper bonded with asphalt between 2 layers of glass-fiber cloth. Use only where flashing is fully concealed in masonry.
B. Adhesive Sealants, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by the flashing manufacturer for bonding flashing sheets to each other and to substrates.
2.5 MISCELLANEOUS MASONRY ACCESSORIES
A. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
B. Breaker Strips: Plastic Weep/Vent Tubing. Clear butyrate, 3/8 by 1-1/2 by 3-1/2 inches (9 by 38 by 89-mm).
2.6 MASONRY CLEANERS
A. Job-Mixed Detergent Solution: Solution of 1/2-cup (0.14-L) dry measure tetrasodium polyphosphate and 1/2-cup (0.14-L) dry measure laundry detergent dissolved in 1 gal. (4 L) of water.
2.7 MORTAR MIXES
A. Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures, unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
B. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification, except limit materials to those specified herein, and limit cement/lime ratio (by volume) as follows:
1. For exterior, above-grade, load-bearing and non-load-bearing walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N mortar, minimum 150 psi at 28 days. Mortar proportions by volume shall be 1 part Portland Cement, 1 part hydrated lime, and 5 parts aggregate.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to Substantial Completion.
2. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 INSTALLATION, GENERAL
A. Thickness: To match existing.
B. Cut masonry units with motor-driven saws to provide clean, sharp, unchipped edges. Cut units as required to provide a continuous pattern and to fit adjoining construction. Where possible, use full-size units without cutting. Install cut units with cut surfaces and, where possible, cut edges concealed.
C. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures.
3.3 CONSTRUCTION TOLERANCES
A. Vertical and horizontal lines are to match existing.
3.4 MORTAR BEDDING AND JOINTING
A. Lay hollow masonry units as follows:
1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
2. Lay solid masonry units with completely filled bed and head joints, butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slash head joints.
C. Joint Size: Nominal 3/8 inch, or to match existing.
D. Tool exposed joints slightly concave when tumpbruff hard, using a jointer larger than the joint thickness.
3.5 ANCHORING MASONRY VENEERS
A. Anchor masonry veneers to wall framing and concrete and masonry backup with masonry-veneer anchors (masonry anchors) complying with the following requirements:
1. Fasten each anchor section to masonry backup with two metal fasteners of type indicated.

2. Locate anchor sections to allow maximum vertical differential movement of ties up and down.

- 3. Space anchors as indicated, but not more than 16 inches (406-mm) o.c. vertically and 16 inches (406-mm) o.c. horizontally. Install additional anchors within 12 inches (305-mm) of openings and at intervals, not exceeding 8 inches (203-mm), around the perimeter.
3.6 LINTELS
A. Install steel lintels furnished under the Work of Section 05 1001, where indicated.
B. Provide minimum bearing of 3 inches (76-mm) at each joint, unless otherwise indicated.
3.7 FLASHING, WEEP HOLES, AND VENTS
A. Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.
B. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Unless otherwise indicated, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
C. Install flashing as follows:
1. At multivue masonry walls, including cavity walls, extend flashing from exterior face of outer wythe of masonry, through outer wythe, turned up a minimum of 8 inches (200-mm), and through inner wythe to within 1/2 inch (13-mm) of the interior face of the wall in exposed masonry. Where interior surface of inner wythe is concealed by furring, carry flashing completely through inner wythe and turn flashing up approximately 2 inches (50-mm), unless otherwise indicated.
2. At lintels, extend flashing a minimum of 4 inches (100-mm) into masonry at each end. At heads and sills, extend flashing 4 inches (100-mm) at ends and turn flashing up not less than 2 inches (50-mm) to form a pan. At sills, extend flashing over backup wall to back leg of window and jamba and turn up not less than 1/2 inch (13-mm) to form pan.
3. Extend sheet metal flashing 1/2 inch (13-mm) beyond face of masonry at exterior and turn flashing down to form a drip.
4. Install metal drip edge beneath flashing at exterior face of wall. Stop flashing 1/2 inch (13-mm) back from outside face of wall and adhere flashing to top of metal drip edge.
5. Install metal flashing termination beneath flashing at exterior face of wall. Stop flashing 1/2 inch (13-mm) back from outside face of wall and adhere flashing to top of metal flashing termination.
D. Install weep holes in the head joints in exterior wythes of the first course of masonry immediately above embedded weep holes and as follows:
1. Use rectangular plastic tubing to form weep holes.
2. Space weep holes formed from plastic tubing 16 inches (400-mm) o.c.
3. Place cavity drainage material immediately above flashing in cavities.
3.8 REPAIRING, POINTING, AND CLEANING
A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.
B. Pointing: During the pointing jobs, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application.
C. In-Progress Cleaning: Clean unit masonry as work progresses and apply dry brushing to remove mortar fins and smears before toiling joints.
D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoses or chains.
2. Clean concrete masonry by cleaning method indicated in NEMA TEK 8.2 applicable to type of stain on exposed surfaces.
E. Protection: The General Contractor shall provide final protection and maintain conditions which ensure unit masonry work being without damage and deterioration at time of Substantial Completion.
3.9 MASONRY WASTE DISPOSAL
A. Excess Masonry Waste: Remove excess, clean masonry waste that cannot be used as fuel, as described above, and other masonry waste, and legally dispose of off Owner's property.
END OF SECTION
SECTION 05 1001 MISCELLANEOUS IRON

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Steel angle lintels.
2. Galvanized steel angle lintels.
B. Items to be Furnished Only: Furnish the following items to be installed under the designated Sections:
1. Section 04 1001 - Masonry
a. Loose steel lintels to be built into masonry.
PART 2 - PRODUCTS
2.1 FERROUS METALS
A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
2.2 PAINT
A. Shop Primer for Ferrous Metal: Organic zinc-rich primer, complying with SSPC-Paint 20 and compatible with topcoat.
1. Products: Subject to compliance with requirements, provide one of the following or equal:
a. Carboline 621; Carboline Company.
b. Aquapon Zinc-Rich Primer 97-670; PPG Industries, Inc.
c. Tremec-Zinc 90-97; Tremec Company, Inc.
B. Galvanizing Repair Paint: High-zinc-iodide-content paint for regalanizing welds in steel, complying with SSPC-Paint 20.
C. Bituminous Paint: Cold-applied asphalt mastic complying with SSPC-Paint 12, except containing no asbestos fibers, or cold-applied asphalt emulsion complying with ASTM D 1187.
2.3 GROUT
A. Nonshrink, Nonmetallic Grout: Factory-guaranteed, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.
2.4 FABRICATION, GENERAL
A. Shear metals cleanly and accurately. Remove burrs.
2.5 LOOSE STEEL LINTELS
A. Fabricate loose structural-steel lintels from steel angles and shapes of size indicated on the drawings for openings in masonry walls at locations indicated.
B. Size loose lintels to provide bearing length at each side of openings equal to one-tenth of clear span, but not less than 8 inches (200 mm), unless otherwise indicated.
C. Galvanize loose steel lintels located in exterior walls.
2.6 STEEL AND IRON FINISHES
A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designing finishes.
B. Galvanizing: Hot-dip galvanize all ferrous metal items exposed to the weather or on the exterior of the building using an enhanced galvanizing process including state-of-the-art Quality Assurance/Quality Control methods. The hot-dip galvanized coating shall consist of zinc and other metals. Use the "dry kettle" process to prevent flux inclusions or entrapment. Use of a flux blanket on the surface of the galvanizing bath is not acceptable. Provide hot-dip galvanized coating for those items indicated or specified to be galvanized, as follows:
1. ASTM A153 for Galvanizing Iron And Steel Hardware.
2. ASTM A182 for Galvanizing Annealed and Unannealed Iron And Steel Products Made Of Uncoated Rolled, Pressed, And Forged Shapes, Plates, Bars, And Strip 0.0299 Inch Thick And Heavier.
3. ASTM A384 for Standard Practice for Safeguarding Against Warp and Distortion During Hot-Dip Galvanizing of Steel Assemblies.
4. ASTM A385 for Standard Practice for Providing High Quality Zinc Coatings (Hot-dip).
5. ASTM A386 for Galvanizing Assembled Steel Products.
C. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with minimum requirements indicated below for SSPC surface-preparation specifications and environmental exposure conditions of installed metal fabrications:
1. Exterior (SSPC Zone 1B): SSPC-SP 6/NACE Class 3, "Commercial Blast Cleaning."
2. Interior (SSPC Zone 1A): SSPC-SP 3, "Power Tool Cleaning."
D. Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes and those to be embedded in concrete, sprayed on fireproofing, or masonry, unless otherwise indicated. Comply with SSPC-PA 1, "Paint Application Specification No. 1," for shop priming.
1. Strip paint corners, crevices, bolts, welds, and sharp edges.
PART 3 - EXECUTION
3.1 ADJUSTING AND CLEANING
A. Galvanized Surfaces: Clean abraded areas and repair galvanizing to comply with ASTM A 780.
END OF SECTION
SECTION 06 1000 ROUGH CARPENTRY

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the General And Supplemental Conditions of the Contract and all Sections within Division 1 - General Requirements which are hereby made a part of this Section of the Specifications.
1.2 SUMMARY
A. Section Includes:
1. Urethane joint sealants.
2. Latex joint sealants.
3. Factory glazing of windows.
1.3 PROJECT CONDITIONS
A. Do not proceed with installation of joint sealants under the following conditions:
1. When joint substrates are wet.
2. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
3. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.
PART 2 - PRODUCTS
2.1 MATERIALS, GENERAL
A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
B. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
2.2 URETHANE JOINT SEALANTS
A. Single-Component, Nonseal; Urethane Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following or equal:
a. Pecora Corporation; Dynatrol iXL.
b. Sika Corporation, Construction Products Division; Sikaflex i-a.
c. Tremco International; Dymonic.
2.3 LATEX JOINT SEALANTS
A. Latex Joint Sealant: Acrylic latex or silicone/acrylic latex, ASTM C 834, Type OP, Grade NF.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following or equal:
a. Bostik, Inc.; Chem-Calk 600.
b. Pecora Corporation; AC-20.
c. Tremco International; Tremflex 834.
2.4 JOINT SEALANT BACKING
A. Provide sealed backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for backing sealing operations and for preventing resin or sealant from adhering to joint surfaces at back of joint.
2.5 MISCELLANEOUS MATERIALS
A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backings materials. Free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles from joint substrates by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
a. Concrete.
3. Remove laitance and form-release agents from concrete.
4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
a. Metal.
b. Glass.
c. Glazed surfaces of ceramic tile.
D. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant application, do not allow spillage or migration onto adjoining surfaces.
C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after toiling without disturbing joint seal.
3.3 INSTALLATION OF JOINT SEALANTS
A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
B. Sealant Installation: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

B. Wood Products: Comply with the following:
1. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
C. High-Pressure Decorative Laminate: NEMA L23, grades as indicated or, if not indicated, as required by woodwork quality standard.
2.2 MISCELLANEOUS MATERIALS
A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
B. Adhesive for Bonding Plastic Laminate: Contact cement.
2.3 FABRICATION, GENERAL
A. Fabricate woodwork to dimensions, profiles, and details indicated.
B. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for sizing, trimming, and fitting.
C. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
1. As selected by Architect from laminate manufacturer's full range in the following categories:
a. Solid colors, matte finish.
b. Patterns, matte finish.
2.6 PLASTIC-LAMINATE WINDOW STOOLS
A. High-Pressure Decorative Laminate Grade: HGS.
B. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
1. As selected by Architect from manufacturer's full range in the following categories:
a. Solid colors, matte finish.
b. Patterns, matte finish.
C. Edge Treatment: Same as laminate cladding on horizontal surfaces.
D. Cornerboard: Medium-density fiberboard made with exterior glue or exterior-grade plywood.
E. Backer Sheet: Provide plastic-laminate backer sheet, Grade BK, on underside of window stool substrate.
PART 3 - EXECUTION
3.1 PREPARATION
A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.
B. Before installing architectural woodwork, examine shop-fabricated work for completion and complete work as indicated, including removal of packing and backspacing.
3.2 INSTALLATION
A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
B. Assemble woodwork and complete fabrication at Project site to comply with requirements for fabrication in Part 2, to extent that it was not completed in the shop.
C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm).
D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
H. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.
3.3 ADJUSTING AND CLEANING
A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
END OF SECTION
SECTION 07 9

