



**DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242**

ADDENDUM NO. 1 TO PROJECT NO. 45009

**CONSTRUCTION, HVAC, PLUMBING AND ELECTRICAL WORK
PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY**

February 9, 2016

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION SPECIFICATIONS:

1. Refer to Section 007306-H – Supplementary Conditions Warranty Extension:
 - a. Replace with new Section 007306-H, attached.
2. Refer to Section 007306-C - Supplementary Conditions Warranty Extension:
 - a. Replace with new Section 007306-C, attached.
3. Refer to Section 014100 – Regulatory Requirements:
 - a. Refer to Article 1.02.A. Revise Paragraph A to include the words “Part 1222 (Plumbing Code, Part 1223 (Mechanical Code))”.
4. Refer to Section 081102 – Steel Doors and Frames:
 - a. Replace with new Section 081102, attached.
5. Refer to Section 087100 – Finish Hardware:
 - a. Replace with new Section 087100, attached.

HVAC SPECIFICATIONS:

6. Refer to Section 237413 - Air Conditioners - Rooftop Heat Pump:
 - a. Refer to Article 2.01.L.2. Delete Item 2 in its entirety.

PLUMBING SPECIFICATIONS:

7. Refer to Section 221100 - Plumbing Piping:
 - a. Replace with new Section 221100, attached.
8. Refer to Section 224200 - Plumbing Fixtures:
 - a. Refer to Article 2.05.C. Delete Paragraph C in its entirety.

CONSTRUCTION DRAWINGS:

9. Refer to Drawing C-100 - Removal Plan:
 - a. Replace with new Drawing C-100, attached. Existing catch basins along gravel access drive no longer need to be adjusted.
10. Refer to Drawing C-120 - Drainage & Erosion & Sediment Control Plan:
 - a. Replace with new Drawing C-120, attached. Note referencing structural drawings for pipe penetration through the foundation at the 10-inch pipe beneath the building addition has been added.
11. Refer to Drawing C-510 - Site Details:
 - a. Replace with new Drawing C-510, attached.
 - 1) Detail 1/C-510 - References to "See Note 3" and "See Note 12" have been removed. Note 1 has been removed and replaced with "Refer to specification section 321300 - Concrete Walks, for materials and methods of construction".
 - 2) Detail 8/C-510 - Detail has been removed and replaced with flexible foot connection detail.
 - 3) Detail 9/C-510 - References to knockouts have been removed. Knockout and associated dimension have been removed. 2'x2' structure specification reference has been changed to 334913
12. Refer to Drawing D-100 - Removal Plan – Area A and Roof:
 - a. Replace with new Drawing D-100, attached.

13. Refer to Drawing S-001
 - a. Replace with new Drawing S-001, attached.
 - 1) General Notes – Design Criteria – Ground Snow Load and Flat Roof Snow Load have been changed to 56 psf and 43 psf, respectively.
14. Refer to Drawing S-100
 - a. Replace with new Drawing S-100, attached.
 - 1) Footing sizes along column line 2 have been altered.
15. Refer to Drawing S-101
 - a. Replace with new Drawing S-101, attached.
 - 1) Footing sizes have been altered.
 - 2) Callout added for T/Ftg to be -3'-0" at column line 1.
16. Refer to Drawing S-130
 - a. Replace with new Drawing S-100, attached.
 - 1) Lintels in east masonry bearing wall have been removed.
 - 2) Replace W14x30 beams at column line 2 with W16x50 beams.
17. Refer to Drawing S-131
 - a. Replace with new Drawing S-131, attached.
 - 1) Insert two C8x11 beams between fascia beam at column line A.
18. Refer to Drawing S-200
 - a. Replace with new Drawing S-200, attached.
 - 1) General – Footing sizes in various details have been altered to reflect sizes shown on S-100, S-101, and Detail 7.
 - 2) Detail 6 – Added additional ties in typical pier reinforcement.
 - 3) Detail 7, Footing Schedule – Footing sizes have been updated to match S-100 & S-101.

19. Refer to Drawing S-201
 - a. Replace with new Drawing S-201, attached.
 - 1) General – Footing sizes in various details have been altered to reflect sizes shown on S-100, S-101, and 7/S-200.
 - 2) Duplicate details have been renamed & renumbered.
20. Refer to Drawing S-300
 - a. Replace with new Drawing S-300, attached.
 - 1) Details 1 & 6 – Proposed W14 beam callout altered to show Proposed W16 beam.
 - 2) Detail 4 – Truss loading snow load updated and unbalanced snow load added.
21. Refer to Drawing S-401
 - a. Replace with new Drawing S-401, attached.
 - 1) Created Detail 9 – Typical Footing Step Detail.
22. Refer to Drawing A-101 – Floor Plans – Area A:
 - a. Replace with new Drawing A-101, attached.
23. Refer to Drawing A-102 – Floor Plans – Area B & C:
 - a. Replace with new Drawing A-102, attached.
24. Refer to Drawing A-103 – Roof Plan:
 - a. Replace with new Drawing A-103, attached.
25. Refer to Drawing A-200 – Exterior Elevations:
 - a. Replace with new Drawing A-200, attached.
26. Refer to Drawing A-300 – Building Sections:
 - a. Replace with new Drawing A-300, attached.
27. Refer to Drawing A-301 – Wall Sections:
 - a. Replace with new Drawing A-301, attached.
28. Refer to Drawing A-500 – Construction Details:
 - a. Replace with new Drawing A-500, attached.
29. Refer to Drawing A-501 – Construction Details:

- a. Replace with new Drawing A-501, attached.
- 30. Refer to Drawing A-600 – Door Schedules, Door and Window Types, Wall Types and Details:
 - a. Replace with new Drawing A-600, attached.

HVAC DRAWINGS:

- 31. Refer to Drawing M-104 - Roof Plan - HVAC:
 - a. Replace with new Drawing M-104, attached. Exhaust fan locations and labeling has been adjusted.
- 32. Refer to Drawing M-600 - Schedules:
 - a. Refer to Packaged Rooftop Air Source Heat Pump Schedule. Delete Remark No. 2 for HP-1.

PLUMBING DRAWINGS:

- 33. Refer to Drawing P-102 - Floor Plan Area A & B - Plumbing:
 - a. Replace with new Drawing P-102, attached. Extend existing storm piping to 5 ft. outside the building.

ELECTRICAL DRAWINGS:

- 34. Refer to Drawing E-103 - Floor Plan - Power:
 - a. Replace with new Drawing E-103, attached. Rooftop motorized dampers have been added.
 - b.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 081102

STEEL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Steel doors and frames, including borrowed lites; sidelights; vision lites; glass moldings and stops; louvers; panels; hardware reinforcements; and accessories as shown in the contract documents.

1.02 REFERENCES

- A. ANSI- American National Standard Institute
 1. A240: Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications.
 2. A250.4-2001 Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcings.
- B. NAAMM National Association of Architectural Metal Manufacturers
 1. HMMA 830-1997 Hardware Preparations and Locations for Hollow Metal Doors and Frames.
 2. HMMA 831-1997 Recommended Hardware Locations for Hollow Metal Doors and Frames.
 3. HMMA 840-1999 Guide Specification for Installation and Storage of Hollow Metal Doors and Frames.
 4. HMMA 861-2000 Guide Specification for Commercial Hollow Metal Doors and Frames.
- C. NFPA National Fire Protection Association
 1. NFPA 80- 2010 Standard for Fire Doors and other Opening Protectives.

1.03 DEFINITIONS

- A. Steel Door and Frame Manufacturer: Manufacturer of steel doors and frames regularly engaged in the manufacturing of such products for use in commercial, institutional, educational and other similar applications.
- B. Company Field Advisor(s): An employee of the steel door and frame manufacturer who is certified in writing by the manufacturer to be technically qualified in design, installation, and servicing of products.
- C. Steel Door and Frame Distributor: Distribution Company who regularly engages in the distribution of steel doors and frames of the manufacturer whose doors and frames are submitted for this project.
- D. Certified Installation Supervisor: Designated supervisor/installer, who has a minimum three years experience in steel frame and door installation, and is certified in writing by the steel door and frame manufacturer as qualified and responsible to ensure approved steel frames and doors are installed, adjusted, and operate properly.

1.04 SUBMITTALS

- A. Waiver of Submittals: "Waiver of Certain Submittal Requirements" in Section 01330 does not apply to this Section.
- B. Submittals Packages
 - 1. Door and Frame Schedule and Shop Drawings Package: Submit as a complete package. Incomplete packages will be returned unreviewed.
 - a. Quality Assurance Submittal
 - 1) Certification of Compliance as described in the Quality Assurance Article.
 - 2) Company Field Advisor's Qualification Data
 - a) Name of Company Field Advisor and Employer's name, business address and telephone number and e-mail address.
 - b) Names and addresses of 3 similar projects Company Field Advisor has worked on during the past three years.
 - c) Written certification on steel door and frame manufacturer's letterhead that Company Field advisor is technically qualified in design, installation, and servicing of the products furnished for this Project.
 - 3) Certified Supervisor's and Installer's Qualification Data
 - a) Name of Supervisor and each Installer performing Work, and Employer's name, business address and telephone number.
 - b) Names and addresses of 3 similar projects Supervisor and each Installer has worked on during the past three years.
 - c) Written certification on steel door and frame manufacturer's letterhead that Supervisor/Installer is technically qualified to ensure approved steel frames and doors are installed, adjusted, and operate properly.
 - b. Door and Frame Schedule:
 - 1) Include a Cover Sheet that lists:
 - a) OGS project name, project number, and project address.
 - b) Manufacturer's name, address, and telephone number.
 - c) Distributor's name, address, and telephone number.
 - d) Shop drawing preparer's name, and telephone number and e-mail address.
 - e) Submission date.
 - 2) List by opening
 - a) Door and Frame number and location by building and room name. Use same reference numbers for openings and as those shown on Contract Drawings.
 - b) Door width, height, thickness, type, gage, and options
 - c) Frame type, width, height, jamb depth, gage, anchor type and options.
 - d) Door and frame elevations; head and jamb profiles and details; welding requirements; and reinforcements.
 - e) Fire Rating.

- f) Glass type.
 - g) Undercut.
 - h) Electric preparations, if any.
 - i) Hardware Set.
 - j) Show dimensioned elevations; construction details of each door including vertical and horizontal edge details; and frame details for each type, including dimensions profiles; locations for finish hardware, including cutouts and reinforcements; gage of reinforcements; details of connections; anchors and accessories; and details of conduit and preparations for electrified door hardware and controls.
- 3) Product Data: Manufacturer's catalog sheets, specifications, and detailed installation instructions. Highlight products and options pertaining to this Project. Cross out information irrelevant to this Project.
 - 4) Manufacturer's Written Certification of Compliance that their products conform to the requirements of the references named in the References Article of this specification section, and as modified by this specification.
 - 5) Samples:
 - a) Frames: Corner sample of each type, 18 x 18 inches, with mortises and reinforcements, factory primed or factory finished, as required.
 - b) Doors: Corner sample of each type construction, 18 x 18 inches, with mortises and reinforcements, factory primed or factory finished, as required.
- c. Closeout Submittals: Submit as a complete package.
 - a. Operation and Maintenance Manuals: Furnish 2 (two) hard cover three ring binders with project name and number prominently displayed on the front cover and the spine.
 - b. Listing of Manufacturer, address and contact information
 - c. Approved Door and Frame Submittal including shop drawings and product data sheets
 - d. Manufacturer's dated warranty for this specific project identified by Facility, OGS project number, and manufacturer's order number.
 - e. Certification: Written certification from the Company Field Advisor that their products are installed according to manufacturer's printed installation instructions, and are operating properly.

1.05 QUALITY ASSURANCE

- A. Uniformity and single source responsibility:
 - 1. Provide steel doors and frames from a single source manufacturer who specializes in this type of work.
- B. Certification of Compliance: A statement, written on steel door and frame manufacturer's letterhead, that certifies their products, submitted for this Project, have been tested and comply with references named in the References Article of this specification section, and as modified by other requirements this specification.

- C. Construction Verification: In order to determine if the products furnished comply with the specifications, the Director may choose one or more doors and frames for examination. The examination may involve cutting doors to expose the internal construction to inspect reinforcements, cores, welds and other construction details.
- D. Field Measurements: Verify existing openings by field measurements before fabrication and indicate measurements on shop drawings.
- E. Pre-Submittal Conference: Pre-Submittal Conference: Before the steel door and frame submittals are written, the contractor, the steel door and frame distributor, the steel door and frame shop drawing preparer, and the steel door and frame designer shall attend a conference to discuss the contract requirements for the steel door and frame submittal package, including but not limited to, quality assurance items to be submitted, the cover sheet, index, page numbering, schedule formatting, product nomenclature, installation notes, preparations for electric hardware, and product data sheets.
- F. Pre-installation Conference: When steel frames are on site, and before steel frame installation begins, the Director's Representative shall call a conference at the site to review the approved Steel Door and Frame Submittal, approved Finish Hardware Submittals, and proper installation procedures for the Work as well as:
 - 1. Pre-installation inspection of Doors and Frames
 - a. Use and coordination of approved Steel Door and Frame submittals with approved Finish Hardware Submittals in the pre-installation inspection process
 - b. Reading and understanding manufacturer's Door and Frame tags
 - c. Inspection and verification of labeling and label placement
 - 1) Specified fire labels (attached metal labels) on doors and frames,
 - 2) Label locations
 - 3) Label legibility
 - d. Inspection and verification of proper welding of frames
 - e. Inspection and verification of hardware reinforcement and preparations in frame head and jambs.
 - f. Inspection and verification of required anchors and fasteners.
 - g. Inspection and verification of glass kit preparations in doors
 - h. Inspection and verification of Electric hardware preparation in frames and doors
 - 2. Review of maximum allowable clearances between frames and doors; doors and floor; and meeting stiles of doors, and verification methods.
 - 3. Verification of plumb, square and level frame installation with jamb rabbets parallel to one another.
 - 4. Review of proper frame installation tools.

The contractor, frame installers, certified Company Field Advisor, OGS designer; and OGS inspector shall attend the conference. Facility personnel may attend. The OGS designer will present installation information.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver doors and frames in heavy paper cartons or other protective packaging. Remove any plastic protective wrap from the package.
- B. Store doors and frames under cover, in a dry area, on raised platforms in vertical position with minimum 4 inch blocking between units to allow air circulation.

- C. Clearly label packaging, and doors and frames, for identification and installation location.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel, pickled and oiled, complying with ASTM A1011/A1011M-04a 2004.
- B. Cold-Rolled Steel Sheets: Commercial quality carbon steel complying with ASTM A1008/A1008M-04b 2004.
- C. Galvannealed Steel Sheets: Zinc Iron Alloy-Coated carbon steel sheets of commercial quality complying with ASTM A 653/653M, with A 60 zinc coating.
- D. Anchors and Supports: Fabricate of not less than 16 gage sheet steel unless otherwise indicated.
 - 1. Galvanized Units: Galvanize anchors and supports to be used with galvanized frames, complying with ASTM A 153, Class B.
- E. Anchorage Devices, Bolts, and Other Fasteners: Manufacturer's standard units unless otherwise indicated.
 - 1. Galvanized Units: Galvanize items and comply with ASTM A 153, Class C or D as applicable.
- F. Solid Block polyurethane core with minimum .07 U Factor.
- G. Polystyrene slab with a minimum .24 U factor.
- H. Extruded polystyrene rigid insulation.

2.02 DOORS

- A. General:
 - 1. Design and Thickness: 2 outer stretcher-leveled steel sheets not less than 14 gage, seamless, hollow construction, 1-3/4 inches thick.
 - 2. Construct doors with smooth flush surfaces without visible joints or seams on exposed faces or stile edges, except around glass and louver panels. Continuously MIG, ARC or laser weld vertical edges full height of door, grind smooth, and dress to achieve seamless edge. Tack welded, putty filled edges are not acceptable.
 - 3. Reinforce vertical edges by a continuous steel channel not less than 14ga extending the full height of door.
 - 4. Close top and bottom of horizontal edges with 14 gage steel channel spot welded to the inside of the face sheets a maximum of 4 inches on center.
 - 5. Continuously weld the closing end channels to the vertical edge reinforcing channel at all four corners producing a fully welded exterior.
 - 6. Provide minimum 16 gage flush steel top and bottoms caps, notched at both ends to fit hinge and lock channels, installed with a minimum of 6 welds per cap. Grind welds, body fill and finish smooth.
 - 7. Sound Deadening (ASTM E 90): Minimum Sound Transmission Class of 25.
 - 8. Door Edges: Bevel lock stile edge of single acting hinged doors 1/8 inch in 2 inches.

9. Glazing Stops and Beads: Fixed steel stops, formed integral with door on non-threat side of doors. Removable steel beads, of not less than 14 gage formed steel sheet or solid bar stock, on other side of doors secured with torx head machine screws. Form corners with butted hairline joints. Coordinate width of rabbet between fixed stop and removable bead, and depth of rabbet, with type of glass and glazing required.
- B. Fire Rated Assemblies: Wherever a fire resistance classification is shown or scheduled for steel doors and frames; provide fire rated units that have been tested as fire door assemblies, and comply with National Fire Protection Association (NFPA) Standard No. 80 and these specifications.
1. Identify each door and frame with a factory applied metal UL, FM, or WHI label.
 2. Label shall remain legible, and shall not be obscured by prime painting or finish painting.
 3. Indicate the applicable fire rating on the door label.
 4. Locate labels on the hinge edge of door and jamb rabbet of frame.
 5. Where continuous hinges are specified, apply labels on the header rabbet of frame and on top exposed edge of door. Locate labels as close to hinge edge as possible.
 6. At the manufacturer's and/or contractor's expense, retain a third party inspector to recertify fire rated doors and frames, and to replace primed and finish painted labels.
- C. Interior Doors:
1. Fabricate doors with 2 outer stretcher-leveled, A60 galvanized steel sheets.
 2. Reinforce inside of doors with polystyrene slab with a minimum .24 U factor, permanently bonded to inside of each face sheet.

2.03 FRAMES

- A. General:
1. Furnish steel frames for doors, and other openings, as shown, of size and profile as indicated.
 2. Construction: Full welded unit construction, with corners mitered and continuously welded full depth and width of frame, unless otherwise specified or shown. Knock-down type frames will not be accepted.
 - a. Fixed Stops: Integral 5/8 inch stop unless otherwise shown.
 - b. Removable Beads: Removable steel beads secured with machine screws. Form corners with butted hairline joints.
 3. Weld steel shipping spreaders to the underside of the jamb legs, requiring removal of the spreaders prior to frame installation.
- B. Interior and Exterior Frames: Form of hot-rolled steel sheets, not less than 14 gage, zinc alloy iron coated A60 galvanized.
- C. Mullions and Transom Bars:
1. Furnish closed or tubular mullions and transom bars where shown. Fasten mullions and transom bars at crossings and to jambs by butt welding. Reinforce joints between frame members with concealed clip angles or sleeves of same metal and thickness as frame.
 2. Where installed in masonry, leave vertical mullions in frames open at the top so they can be filled with grout.

- D. Wall Anchors: Unless otherwise specified or shown, formed of not less than 16 gage galvanized steel.
1. Masonry Construction: Adjustable, strap and yoke with strap not less than 2 inches wide by 10 inches long.
Furnish at least 3 anchors per jamb up to 7'6" jamb height; 4 anchors per jamb up to 8 foot jamb height; one additional anchor per jamb for each 24 inches or fraction thereof over 8 feet high.
 2. Anchors for Completed Openings: Anchorage devices designed to secure frame to in-place concrete or in-place masonry construction, as applicable. Furnish at least 5 anchors per jamb up to 7'-6" jamb height; 6 anchors per jamb to 8 foot jamb height; one additional anchor per jamb for each 12 inches or fraction thereof over 8 feet high.
- E. Floor Anchors: Furnish floor anchor for each jamb and mullion which extends to floor, formed of not less than 16 gage steel, with 2 holes to receive fasteners, welded to bottom of jamb or mullion, and galvanized if used with galvanized frames

2.04 FABRICATION

- A. Fabricate steel door and frame units to be rigid, neat in appearance, and free from warp, buckle and defects. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To assure proper assembly at Project site, clearly identify items that cannot be permanently factory-assembled before shipment.
- B. Exposed Fasteners: Countersunk flat, or oval head torx center pin screws and bolts. Unless otherwise indicated, locate fasteners 2 inches from ends of members and not more than 12 inches apart.
- C. Finish Hardware Reinforcements:
1. Minimum 10 gage continuous reinforcement for continuous hinges.
 2. Install 7 gage reinforcement for butt hinges, or hinge reinforcement in door edge may be one piece 12 gage channel full door height with extruded hinge screw holes having an average minimum thread pull-out strength of 1600 pounds per hole.
 3. Minimum 12 gage reinforcement for other hardware.
 4. Weld 14 gage steel tongues, 1-1/2 inches high, inside lock mortise to keep lock body centered in door.
 5. Closer reinforce doors and provide full profile closer reinforcement in frames for full width of opening, whether or not closers are specified.
- D. Finish Hardware Preparation:
1. Factory prepare doors and frames to receive mortised and concealed hardware, including cutouts; reinforcing; drilling and tapping, in accordance with approved Finish Hardware Schedule and templates furnished by hardware manufacturers.
 2. Factory reinforced doors and frames to receive surface applied hardware. Drill and tap for surface applied hardware at project site.
- E. Finish Hardware Locations: Locate hardware reinforcements and mortises so hardware locations comply with requirements of HMMA 831, "Recommended Hardware Locations for Custom Hollow Metal Doors and Frames", and as follows:
1. Knobs, Levers, Crescents : Centerline 3'2" from finished floor.

2. Mortise Deadlocks: Centerline not to exceed 48" above finished floor.
- F. Clearances: Fabricate doors for their respective frames within the following clearances:
1. Jamb and Head: 3/32 to 1/8 inch.
 2. Meeting Edges of Pairs: 1/8 to 3/16 inch.
 3. Bottom (no threshold): 3/4 inch, maximum to finished surface.
 4. Bottom (at threshold): 3/8 inch, maximum to top of threshold or carpet.
 5. Fire Rated Doors: Comply with clearances specified in NFPA Standard No.80.
 6. Measure door clearances from stile edge to jamb.
- G. Factory Prefinish Painting:
1. Chemically wash, rinse, and dry exposed and concealed surfaces of fabricated units.
 2. Apply one coat of primer with vinyl binder to surfaces and oven-bake units.
 3. Units shall be capable of passing the following tests:
 - a. Salt Spray Test complying with ASTM B 117-97 for 120 continuous hours.
 - b. Water Fog Test complying with ASTM D 1735-97 for 240 continuous hours.
 4. Factory pre-finish doors and frames where indicated on the Door Schedule.
 - a. Provide custom color(s) as selected by the Director's Representative.
 - b. Provide 3 (three) touch-up paint kits for field repair. Turn over remaining paint to the Facility.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Examine substrates, areas and conditions, with installer present under which frames are to be installed for defects that will adversely affect execution and quality of Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 PREPARATION

- A. Prior to installation adjust and securely brace door frames for squareness, alignment, twist, and plumb to the following tolerances:
1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 2. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 3. Twist: Plus or minus 1/16", measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 4. Plumbness: Plus or minus 1/16 inch, measured at jamb face on a perpendicular line from head to floor.
- B. Drill and tap doors and frames to receive non-templated mortised and surface mounted hardware.

3.03 INSTALLATION

- A. General: Install steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
 - 1. Frames: Install frame of size and profile indicated. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set.
 - a) Remove temporary braces necessary for installation only after frames have been properly set and secured.
 - b) Check plumb, squareness, and twist of frames as walls are constructed. Adjust as necessary to comply with installation tolerances.
 - 2. Installation Tolerances: Adjust door frames for squareness, alignment, twist, and plumb to the following tolerances:
 - a) Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b) Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - c) Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - d) Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
- B. Doors: Fit non-fire-rated doors accurately in frames with the following clearances:
 - 1. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - 2. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - 3. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

3.04 ADJUSTING AND CLEANING

- A. Final Adjustments:
 - 1. Check and readjust operating hardware items immediately before final inspection.
 - 2. Leave work in complete and proper operating condition.
 - 3. Remove and replace defective work including doors or frames that are warped, bowed, or otherwise unacceptable.
- B. Clean foreign materials off steel doors and frames immediately after installation.

3.05 FINAL INSPECTION

- A. Upon completion of the project, the Director's representative will schedule a final inspection to verify doors and frames are properly installed and adjusted. The contractor, door and frame installer, and design representative will attend.
- B. Upon verification, the design representative will certify in writing components are properly installed and adjusted within referenced tolerances in accordance with this specification. Include this certification in the Close-out Submittals.

END OF SECTION

SECTION 087100
FINISH HARDWARE

PART 1 GENERAL

1.01 REFERENCES

- A. NFPA 80 Fire Doors and Windows (2007).
- B. NFPA 101 Life Safety Code (2006).
- C. Building Code of New York State (2010).
- D. ICC/ANSI A117.1-2003 Accessible and Usable Buildings and Facilities.
- E. ANSI/BHMA Standard A156.1 Butts and Hinges (2006).
- F. ANSI/BHMA Standard A156.4 Door Controls – Closers (2008).
- G. ANSI/BHMA Standard A156.6 Architectural Door Trim (2005).
- H. ANSI/BHMA Standard A156.7 Template Hinge Dimensions (2009).
- I. ANSI/BHMA Standard A156.8 Door Controls – Overhead Stops and Holders (2005).
- J. ANSI/BHMA Standard A156.13 Mortise Locks and Latches Series 1000 (2005).
- K. ANSI/BHMA Standard A156.16 Auxiliary Hardware (2008).
- L. ANSI/BHMA Standard A156.18 Materials and Finishes (2006).
- M. ANSI/BHMA Standard A156.22 Door Gasketing Systems (2005).
- N. ANSI/BHMA Standard A156.26 Continuous Hinges (2006).
- O. DHI - Door and Hardware Institute.
- P. NAAM Standard HMMA 800-96- Hollow Metal Manufacturers Association.
- Q. NAAM Standard HMMA 831-97 Recommended Hardware Locations for Custom Hollow Metal Doors and Frames.
- R. 2010 Standards for State and Local Government Facilities: Title II.

1.02 DEFINITIONS

- A. Architectural Hardware Consultant (AHC): A Door and Hardware Institute certified expert in complex architectural openings requiring advanced knowledge of model building codes and safety standards, ADA requirements, access control knowledge and installation expertise.
- B. Architectural Hardware Distributor: A company that regularly purchases architectural hardware from manufacturers and specializes in the sale, service and support of that hardware to contractors and/or end users.
- C. Company Field Advisor(s): Hardware manufacturers' representatives who are certified in writing by manufacturer to be technically qualified in design, installation, and servicing of products.
- D. Installation Supervisor: Designated supervisor/installer, who has a minimum three years experience in finish hardware installation, and is qualified and responsible to ensure approved finish hardware is installed, adjusted, and operates properly.
- E. Benchmark: Finish hardware installed on full size door and frame assembly that is constructed on-site. Benchmarks are constructed to verify qualities of materials and execution; to review coordination between frames, doors, and architectural hardware; to show interface between partitions and frames; and to demonstrate compliance with specified installation tolerances. Benchmarks are not samples. Unless otherwise indicated, approved benchmarks establish the standard by which the Work will be judged. The approved benchmark may be incorporated into the work of this section.

1.03 SUBMITTALS

- A. Waiver of Submittals: The Waiver of Certain Submittal Requirements in Section 013300 does not apply to this Section.
- B. Re-Evaluation Fee: In accordance with the General Conditions 07213 Article 4.7.
- C. Submittal Package Cover Sheets: The Hardware Distributor shall provide a cover sheet, which identifies each package by:
 - 1. OGS project number.
 - 2. Project name.
 - 3. Facility name and location.
 - 4. Submittal Package name.
 - 5. Specification section name and number.
 - 6. Construction Contractor's company name, address, e-mail address, and telephone number.
 - 7. Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
 - 8. Certified Architectural Hardware Consultant's name, company name, address, e-mail address, and telephone number.
 - 9. Submittal Date.
- D. Submittal Packages

1. Quality Control Package: Do not submit balance of packages until this package is approved.
 - a. Architectural Hardware Consultant Data:
 - 1) Provide name, business address, and telephone number of DHI certified Architectural Hardware Consultant.
 - 2) Submit photocopy of Door and Hardware Institute's certificate demonstrating individual is an Architectural Hardware Consultant.
 - b. Company Field Advisor Data:
 - 1) Provide name, business address, and telephone number of Company Field Advisor(s) for continuous hinges, door bolts, locksets, overhead stops, door closers, and gaskets.
 - 2) List services and products for which company field advisor(s) is/are certified by manufacturer. Provide written certifications.
 - c. Hardware Distributor's Qualification Data:
 - 1) Provide the Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
 - 2) Provide the hardware distributor's company history, including number of years in the hardware distribution business, the number of AHC's employed, and the number of employees. Describe the distributor's major market.
 - 3) Include the names and contact information of physical plant managers for 3 facilities, similar to this project, for which the distributor has furnished architectural hardware within the past 2 years.
 - d. Supervisor's/Installer's Qualification Data:
 - 1) Name of Supervisor and each installer performing Work, and employer's name, business address and telephone number.
 - 2) Names and addresses, and contact information of physical plant managers for 3 facilities, similar to this project, on which each installer has worked on during past 2 years.
2. Finish Hardware Package:
 - a. Finish Hardware Schedule: Use vertical format and indicate finish hardware items, both mechanical and electrical in one document, required to complete Work of this section. Submit Hardware Schedule that includes complete hardware sets for each door and frame shown on Door Schedule.
 - 1) Preface schedule with following:
 - a) Certified Architectural Hardware Consultant's statement of preparation of/or certification of, Finish Hardware Schedule.
 - b) Index.
 - c) List of manufacturers.
 - d) List of finishes.
 - e) Explanation of abbreviations.
 - f) Keying instructions and key schedule.

- 2) Create hardware groups, each group consisting of similar doors and hardware. Do not combine labeled and non-labeled openings. Do not combine doors and frames with dissimilar door sizes and/or materials.
 - 3) For each opening include the following:
 - a) Door and frame materials and dimensions.
 - b) Fire rating.
 - c) Door number, location and handing.
 - d) Degree of opening required for closer and/or overhead stop.
 - e) Installation and detailing notes.
 - 4) Under each group heading, list hardware items in detail, required for ordering. For each hardware item include:
 - a) Type (Hinges).
 - b) Quantity (Hinges 3ea).
 - c) Manufacturers' name (Hinges 3ea Stanley).
 - d) Catalog number (Hinges 3ea Stanley FBB199).
 - e) Size (Hinges 3ea Stanley FBB199 4 ½ x 4 ½).
 - f) Options or accessories (Hinges HTFBB199 4 ½ x 4 ½).
 - g) Finish (Hinges HTFBB199 4 ½ x 4 ½ x 630).
 - h) Fasteners (Hinges HTFBB199 4 ½ x 4 ½ x 630 x torx with center security pin).
 - i) Indicate location of protection plates: Push side or pull side.
 - j) Installation Notes, as written in this section, for each hardware group.
 - 5) Use a separate hardware group in Hardware Schedule that lists attic stock hardware items, key cabinets, key control system, special tools required to install hardware, lubricants, and Operations and Maintenance Manuals.
- b. Product Data: Furnish six copies of manufacturers' catalog sheets, specifications, sizing charts, and installation instructions, for each item specified. Highlight information pertaining specifically to product (s) submitted.
 - c. Submit samples as requested.
3. Closeout Submittals Package: Submit as a complete package.
 - a. Operation and Maintenance Manuals: Furnish 2 hardcover three ring binders with the project name and number displayed on the front cover and spine. Include:
 - 1) List of Manufacturers.
 - 2) Approved Finish Hardware Schedule.
 - 3) Approved Manufacturers' Product Data Sheets.
 - 4) Manufacturer's operation, installation, maintenance, and repair instructions for each type of hardware furnished.
 - 5) Templates for kind of hardware furnished.
 - 6) Parts List for each type of finish hardware furnished.
 - 7) Manufacturers' dated written warranty for each type of finish hardware furnished.
 - 8) Certifications: Written certification from Company Field Advisors that their products are installed according to

manufacturers' printed installation instructions, are operating properly, and manufacturers' written warranty will be in effect upon physical completion of the Work.

- 9) Special Tools: List of special tools required to install hardware, and their purpose.
- b. Special Tools:
 - 1) At conclusion of finish hardware installation, turn over to Director's Representative 2 of each special tool required to install hardware together with a list of these tools and their purpose.

1.04 TEMPLATES

- A. After receipt of approved submittals, furnish templates to affected trades, to enable fabricators to make provision for finish hardware without delaying the Work of the Project.

1.05 DELIVERY AND STORAGE

- A. Coordinate delivery to avoid delay.
- B. Clearly label each item for identification and installation location as it corresponds to the approved Finish Hardware Schedule and subsequent information bulletins.
- C. Deliver hardware to the jobsite in the manufacturers' original packages complete with fasteners, parts, installation instructions, and templates required for proper installation.
- D. Inventory hardware at jobsite to identify shortages or backorders. Resolve delivery shortages and damaged items prior to installing hardware.
- E. Store finish hardware where directed by Director's Representative. Provide locked, dry storage for finish hardware.

1.06 QUALITY ASSURANCE

- A. Hardware Distributor's Qualification:
 1. Hardware Distributor who has been in the business of furnishing, and/ or installing finish hardware for a minimum of three years.
 2. Hardware Distributor shall have the DHI certified Architectural Hardware Consultant prepare or certify the Finish Hardware Submittal meets specification requirements, and the schedule is written accurately and in accordance with DHI recommendations, and requirements of this specification.
- B. Company Field Advisors: Employ advisor(s) for continuous hinges, door bolts, mortise locksets, surface overhead stops, door closers, and gaskets.

- C. Installation Supervisor: Employ a qualified Installation Supervisor who will be responsible to ensure approved finished hardware is installed, adjusted and operates properly.
- D. Installers: Employ experienced finish hardware installers who have been regularly employed by a Company installing finish hardware for a minimum of 5 years.
- E. Pre-submittal Conference: Before Finish Hardware Submittals are written for submission, the Director's Representative will call a teleconference to review Finish Hardware Submittal requirements including but not limited to format, cover sheet, headings, hardware sets, level of detail, installation notes, description of operation, keying, and product data sheets. The Contractor, the Finish Hardware Distributor, the Finish Hardware Detailer, and consulting hardware designer, and OGS Designers shall attend. The OGS Finish Hardware Reviewer shall conduct the conference.
- F. On Site Pre-installation Conference: Before finish hardware installation begins, the Director's Representative will call a conference at the site to review Finish Hardware Specifications, approved Finish Hardware Submittals, and to discuss requirements for the Work including:
 - 1. Hardware delivery and storage.
 - 2. Hardware labeling by door number.
 - 3. Hardware locations.
 - 4. Potential location conflicts.
 - 5. Hardware installation sequence and responsibility.
 - 6. Required accessories and fasteners.
 - 7. Continuous hinge installation.
 - 8. Surface overhead stops and closer template and adjustments.
 - 9. Special tools and maintenance items.
 - 10. Hardware Closeout requirements.
 - 11. Hardware Warranties.
- G. Pre-installation Conference Attendance: The Construction Contractor, Company Field Advisors, authorized Finish Hardware Installers, and the Finish Hardware Distributor's Architectural Hardware Consultant shall attend the conference. OGS's Finish Hardware Reviewer conducts the meeting. OGS designers and facility personnel may attend. The Company Field Advisors will present installation instruction and advice.
- H. Pre-Benchmark-Construction Meeting: Prior to the construction of the mock-up, a meeting will be held at the site to review the requirements, and discuss the intent of the mock-up. The meeting will be scheduled by the Director's Representative and conducted by the Hardware Designer. The meeting shall be attended by the Director's Representative, the Hardware Designer, the Contractor's onsite foreman, the person supervising this phase of the Work (if different), and the person (people) who will be performing the work.
- I. Construction of Benchmark: Before installing portions of the Work requiring benchmarks, install benchmarks for each form of construction required to comply with the following requirements, using materials indicated for the completed Work.

1. Build hardware benchmark in door and frame assembly, specified in section 081102, in locations as directed, and include continuous hinge, lockset, closer, surface overhead stop and gaskets.
 2. Notify the Director's Representative in advance of dates and times when benchmark will be constructed.
 3. Install benchmark with supervisor oversight and workers who will be employed during the construction of the Work.
 4. Construct benchmarks using the exact materials, products, methods, and workmanship that were approved for the Work.
 5. Obtain Director's Representative's approval of benchmarks before starting work, fabrication, or construction.
 6. Maintain benchmarks during construction in an undisturbed condition as a standard for judging the completed Work.
 7. Failure to maintain this standard of quality will be cause for rejection of the Work.
 8. Benchmark may be used in the Work unless otherwise indicated.
- J. Uniformity of Hardware and Single Source Responsibility: For each kind of hardware provide product(s) of a single manufacturer, other than where specifically called out in these specifications, where a single manufacturer cannot provide all specified functions.
- K. Size Variations: Manufacturers' products may vary slightly from sizes specified except where minimum size or thickness is specified.

1.07 WARRANTY

- A. Manufacturer's Warranty: Ten year minimum warranty for door closers.
- B. Manufacturer's Warranty: Three year minimum for locksets.

1.08 MAINTENANCE

- A. Special Tools: At the conclusion of finish hardware installation, turn over to Owner's Representative 2 sets of each special tools required for proper installation and adjustment of hardware, together with a list of these tools and their purpose.
- B. Lubricants: Provide manufacturer's recommended lubricants for locksets and closers sufficient for 1 year of maintenance. Turn over to Director's Representative.

PART 2 PRODUCTS

2.01 ACCESSORIES

- A. Provide brackets, plates, arms, spacers, and special templates to mount door closers in combination with overhead stops and coordinators, on narrow top rails and for special ceiling and jamb conditions.

- B. Provide curved lip strikes, with wrought boxes, specific to individual lock functions. Universal strikes that fit a variety of lock functions are not acceptable.

2.02 FASTENINGS

- A. Provide fasteners that harmonize with finish hardware material and finish.
- B. Provide torx center pin security fasteners for exposed hardware, including full mortise hinges.
- C. Provide machine screws for hardware secured to metal; and machine screws and metal expansion shields for attachment to masonry substrates. Self-tapping or self-drilling screws are not acceptable.
- D. Provide undercut shallow head torx center pin security fasteners where necessary for proper seating.
- E. Attach door closers and overhead stops with sex bolts.

2.03 MATERIALS AND FINISHES

- A. General: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in this section and in the Hardware Groups.
- B. At all fire rated openings, provide listed components.
- C. Continuous Hinges
 1. Full height barrel-type manufactured from 14-gauge 304 stainless steel.
 2. .25" diameter stainless steel pins.
 3. Provide hinges without covers.
 4. Provide hinges with Hospital Tips.
- D. Locks, Latches and Bolts
 1. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
 2. Provide 3/4" minimum throw on other latch bolts.
 3. Provide 1" minimum throw deadbolts.
- E. Closers and Door Control Devices
 1. Closer bodies: Provide closer bodies with the same hole template pattern regardless of type or application.
 2. Closer arms: Non-handed forged steel.
 3. Provide all-weather fluid to eliminate seasonal adjustment of closer speed.
 4. Powder coat closer body, arm, and adapter plate or pre-treat closer body, arm, and adapter plate with rust-inhibiting coating before painted finish is applied.

2.04 FINISH HARDWARE

- A. Group 1:
1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
 2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7R x 15J x curved lip strike x wrought box x torx with center security pin x 630.
 3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
 4. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
 5. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
 6. Silencers: Rockwood 608
- B. Group 2:
1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
 2. Mortise Lockset: 1ea – Stanley Security Solutions 45H0L x 15J x curved lip strike x wrought box x torx with center security pin x 630.
 3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
 4. Mop Plate: 1ea – Rockwood K1062 4” x 1 ½” LDW x B4E x torx with center security pin x 630.
 5. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
 6. Silencers: Rockwood 608
- C. Group 3:
1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
 2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7R x 15J x curved lip strike x wrought box x torx with center security pin x 630.
 3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
 4. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
 5. Floor stop: 1ea – Rockwood 480 x torx with center security pin x 626.
 6. Silencers: Rockwood 608
- D. Group 4:
1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
 2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7R x 15J x curved lip strike x wrought box x torx with center security pin x 630.
 3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
 4. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
 5. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
 6. Sound Seal: 1ea Pempko 319CN x torx with center security pin.

7. Silencers: Rockwood 608

E. Group 5: Controlled door

1. Continuous Hinge: 1ea – Zero 919 STST x HT x CE x marked “Top” x torx with center security pin x 630.
2. Mortise Lockset: 1ea – I ea – Securitech Double-sided vandal-resistant lever handle unit to include slipclutch lever, key and 24vDC release, piezo sounder, wiring harness with 4 position connectors, powder coated black and Torx security fasteners. (Match Sargent 9200 series mortise lock.)
3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
4. Power Supply: Capable of receiving releasing signal form security system and compatible with specified lockset, by others.
5. Door position switch, by others.
6. Closer: 1ea – LCN 4213 x thru-bolt x torx with center security pin x AL
7. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
8. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
9. Silencers: Rockwood 608

DESCRIPTION OF OPERATION

Normal Operation: Hardware receives message from Remote Security System Controller that retracts the latch.

F. Group 6:

1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7D x 15J x curved lip strike x wrought box x torx with center security pin x 630.
3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
4. Closer: 1ea – LCN 4213 x thru-bolt x torx with center security pin x AL
5. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
6. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
7. Silencers: Rockwood 608

G. Group 7:

1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7R x 15J x curved lip strike x wrought box x torx with center security pin x 630.
3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
4. Closer: 1ea – LCN 4213 x thru-bolt x torx with center security pin x AL

5. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
6. Floor stop: 1ea – Rockwood 480 x torx with center security pin x 626.
7. Sound Seal: 1ea Pempko 319CN x torx with senter security pin.
8. Silencers: Rockwood 608

H. Group 8:

1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7R x 15J x curved lip strike x wrought box x torx with center security pin x 630.
3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
4. Closer: 1ea – LCN 4213 x thru-bolt x torx with center security pin x AL
5. Kick Plate: 2ea – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
6. Wall stop: 1ea – Rockwood 402 as required x torx with center security pin x 626.
7. Silencers: Rockwood 608

I. Group 9:

1. Continuous Hinge: 1ea – Zero 919 STST x HT x marked “Top” x torx with center security pin x 630.
2. Mortise Lockset: 1ea – Stanley Security Solutions 45H7D x 15J x curved lip strike x wrought box x torx with center security pin x 630.
3. Mortise Lock Cylinder: 1ea - Compatible with specified lock above x 626.
4. Closer: 1ea – LCN 4213 x thru-bolt x torx with center security pin x AL
5. Kick Plate: 1ea (Installed on interior side only) – Rockwood K1062 10” x 1 ½” LDW x B4E x torx with center security pin x 630.
6. Door Gasketing: 1ea Pempko 319CN x torx with center security pin.
7. Door Bottom: 1ea Pempko 307AV x torx with center security pin.
8. Threshold: 1ea Pempko 254X4FG x torx with center security pin.

2.05 KEYING

A. Continue existing key system established for Facility.

1. Stamp key symbol on one side of key, and “Do Not Duplicate” on other side of key.
3. Furnish one copy of factory bitting list to facility.
4. Factory key cylinders.
5. Furnish 3 cut keys for each master key.
6. Furnish 7 cut keys for each keyed lockset.
7. These cut key quantities are for bidding purposes only. Actual number of cut keys required will be determined at keying meeting.
8. When lockset and cylinder are by different manufacturers, identify and furnish correct cylinder cam to operate lockset.
9. Provide compression rings and spacers to achieve proper spacing relationship between cylinder and face of door.

- B. Keying Conference
 - 1. Immediately following contract award, Director's Representative will schedule a keying conference to develop a written key schedule that reflects Facility's specific keying requirements. Facility Representative(s), Hardware Distributor, Consulting Hardware Designer, and OGS's Hardware Designer will attend.
 - 2. Incorporate this schedule in Finish Hardware Submittals for approval.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine doors and frames and related items for conditions such as, but not limited to, incorrect handing, hardware preparation, misaligned lock and strike preparations, that would prevent proper application of finish hardware. Do not proceed until defects are corrected.
- B. Report conditions or hardware applications that are incorrect to the Director's Representative.

3.02 INSTALLATION

- A. Do not proceed with installation of finish hardware prior to attending referenced pre-installation conference.
- B. Installation Sequence: Use proper installation sequence, i.e., install coordinators, and overhead stops and holders before surface mounted door closers.
- C. Install hardware in accordance with manufacturer's printed installation instructions, and adjust for smooth operation, free of sticking, binding or rattling.
 - 1. Template surface overhead stops and holders for proper operation
 - 2. Template and adjust closers for proper operation.
- D. Use proper tools and methods to prevent scratches, burrs or other defacement.
- E. Threshold Installation:
 - 1. Drill holes 3 inches from each end of threshold and intermediate holes 12 inches maximum o.c. for required fasteners. Prepare holes for countersunk fasteners.
 - 2. Level and align thresholds with frames and doors. Where required, use non-corrosive shims.
 - 3. Exterior Doors: Set thresholds in a solid bed of Type 3 sealant.
 - 4. Secure thresholds to substrate with countersunk fasteners.
- F. Door Bottom Installation:
 - 1. Mount sweep type door bottom protection/drip caps on exterior side of doors.
 - 2. Before mounting apply Type 2 sealant on the back side of bearing surface. Secure to door with required fasteners.

- G. Gasket Installation:
 - 1. Install continuous stripping at each opening without unnecessary interruptions.
 - 2. Where fasteners are required, secure fasteners for stripping and seals so they will not work loose during door operation. Exposed heads of fasteners shall be free of sharp edges.
 - 3. Coordinate meeting stile gasket with hardware before installation.
 - 4. Install units plumb and level at the optimum location to maintain a permanent effective seal.
- H. After installation, cover and protect hardware to prevent damage during remaining construction. Remove protection upon completion of construction.

3.03 LOCATIONS

- A. Locate hardware as follows:
 - 1. Door Closers: Template for maximum door swing allowed by wall placement and jamb conditions. Where overhead stop prevents door from swinging to wall, template the closer to exceed degree of opening allowed by overhead stop.
 - 2. Protection Plates: 1/8 inch from door bottom.
 - 3. Wall Stops: Centerline of bumper to match centerline of locking trim.

3.04 FIELD QUALITY CONTROL

- A. Post Installation Review: After hardware is adjusted for proper operation, Director's Representative will hold a Post-Installation Review with the Contractor, Hardware Designer, Company Field Advisors, Hardware Distributor and Hardware Installers.
 - 1. Physically inspect to verify proper application, installation, adjustment and operation of finish hardware, and in particular that:
 - a) Latches engage freely without binding. Filing of strike plates to relieve latch bind is not acceptable.
 - b) Closers are adjusted for proper spring power; sweep speed, latching speed; and hydraulic back check.
 - c) Locations and proper attachment of installed protective hardware are as specified.
 - d) There is no field modification of fasteners.
 - e) Damaged fasteners are replaced.
 - 2. Defective hardware is repaired or replaced.
 - 3. Hardware is to be left clean and free from disfigurement.
- B. Turn referenced Operations and Maintenance Manuals over to Facility through Director's Representative.

END OF SECTION

CEH

DOCUMENT 007306

SUPPLEMENTARY CONDITIONS - WARRANTY EXTENSION

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 9 - INSPECTION AND ACCEPTANCE

9.8 Add the following sub-paragraph:

9.8.1 The one year period required by Paragraph 9.8 of the General Conditions is extended and supplemented for part of the work as described in Section 073113 of the Specifications.

END OF DOCUMENT

DOCUMENT 007306

SUPPLEMENTARY CONDITIONS - WARRANTY EXTENSION

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 9 - INSPECTION AND ACCEPTANCE

9.8 Add the following sub-paragraph:

9.8.1 The one year period required by Paragraph 9.8 of the General Conditions is extended and supplemented for part of the work as described in Section 238153 of the Specifications.

END OF DOCUMENT

SECTION 221100
PLUMBING PIPING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Through Penetration Firestops: Section 078400.
- B. Sealants: Section 079200.

1.02 SUBMITTALS

- A. Product Data:
 - 1. Catalog sheets and specifications indicating manufacturer name, type, applicable reference standard, schedule, or class for specified pipe and fittings.
 - 2. Material Schedule: Itemize pipe and fitting materials for each specified application in Pipe and Fittings Schedule in Part 3 of this Section. Where optional materials are specified indicate option selected.
- B. Quality Control Submittals
 - 1. Brazer Qualification Data: Copies of certification; include names, home addresses and social security numbers of brazers.

1.03 QUALITY ASSURANCE

- A. Qualification of Brazers: Comply with the following:
 - 1. The persons performing the brazing and their supervisors shall be personally experienced in brazing procedures.

PART 2 PRODUCTS

2.01 STEEL PIPE AND FITTINGS

- A. Steel Pipe for Threading: Standard weight, Schedule 40, black or galvanized; ASTM A 53 or ASTM A 135.
- B. Cast Iron Fittings:
 - 1. Drainage Pattern, Threaded: ASME B16.12.
- C. Couplings: Same material and pressure rating as adjoining pipe, conforming to standards for fittings in such pipe. Use taper tapped threaded type in screwed pipe systems operating in excess of 15 psig.
- D. Nipples: Same material and strength as adjoining pipe, except nipples having a length of less than one inch between threads shall be extra heavy.

2.02 COPPER AND BRASS PIPE, TUBING AND FITTINGS

- A. Copper Tube, Type L: ASTM B 88.
- B. Copper Tube for Medical Gas, Type K: ASTM B 819.
- C. Wrot Copper Tube Fittings, Solder Joint: ASME B16.22.
- D. Cast Copper Alloy Tube Fittings, Solder Joint: ASME B16.18.
- E. Drainage Tube, Type DWV: ASTM B 306.
- F. Wrot Copper Drainage Tube Fittings, Solder Joint: ASME B16.29.
- G. Cast Copper Alloy Drainage Fittings, Solder Joint: ASME B16.23.
- H. Unions: Cast bronze, 150 lb Class, bronze to bronze seats, threaded or solder joint.
- I. Flared Tube Fittings:
 - 1. Water Tube Type: ASME B16.26.
- J. Flanges: Conform to the Standards for fittings used in systems.
 - 1. Brazing Flanges: ASME B16.24, hubs modified for brazing ends.

2.03 CAST IRON PIPE AND FITTINGS

- A. Bell and Spigot Soil Pipe: Service Weight, Bitumin coated; ASTM A 74.
- B. Bell and Spigot Soil Pipe Fittings: Service Weight, Bitumin coated; ASTM A 74.
- C. Hubless Pipe: Bitumin coated; Cast Iron Soil Pipe Institute Standard No. 301.
- D. Hubless Pipe Fittings: Drainage Pattern, Bitumin coated; Cast Iron Soil Pipe Institute Standard No. 301.
- E. Hubless Joint Couplings: Stainless steel shield and clamp assembly, and elastomer sealing sleeve; CISPI-310.
- F. Water Pipe Fittings: Bitumin coated, cement-mortar lined; AWWA C110.

2.04 JOINING AND SEALANT MATERIALS

- A. Thread Sealant:
 - 1. LA-CO Industries', Slic-Tite Paste with Teflon.
 - 2. Loctite Corp.'s No. 565 Thread Sealant.
 - 3. Thread sealants for potable water shall be NSF approved.

- B. Solder: Solid wire type conforming to the following:
 1. Type 3: Lead-free tin-silver solder (ASTM B 32 Alloy Grade E, AC, or HB); Engelhard Corp.'s Silvabrite 100, Federated Fry Metals' Aqua Clean, or J.W. Harris Co. Inc.'s Stay-Safe Bridgit.
- C. Soldering Flux for Soldered Joints: All-State Welding Products Inc.'s Duzall, Engelhard Corp.'s General Purpose Liquid or Paste, Federated Fry Metals' Water Flow 2000, or J.W. Harris Co. Inc.'s Stay-Clean.
- D. Brazing Alloys:
 1. Type 1: AWS A5.8, Class BCuP-5, for brazing copper to brass, bronze, or copper; Engelhard's Silvaloy 15, J.W. Harris Co. Inc.'s Stay-Silv 15, and Handy & Harman's Sil-Fos.
 2. Type 2: AWS A5.8, Class BAg-7, for brazing copper to steel or stainless steel; Engelhard's Silvaloy-56T, J.W. Harris Co. Inc.'s Safety-Silv 56, and Handy & Harman's Braze 560.
- E. Brazing Flux: FS O-F-499, Type B; Handy & Harman's Handy Flux or J.W. Harris Co. Inc.'s Stay-Silv.
- F. Joint Packing:
 1. Oiled Oakum: Manufactured by Nupak of New Orleans, Inc., 931 Daniel St., Kenner, LA 70062, (504) 466-1484.
 2. Acid Resistant Joint Packing: Sealite Inc.'s Red Stripe, Asbestos-Free Acid-Resistant White Oakum, No. 312.
- G. Gaskets For Use With Ductile Iron Water Pipe and Cast Iron Drainage Pipe: Synthetic rubber rings (molded or tubular): Clow Corp.'s Belltite, Tyler Pipe Industries Inc.'s Ty-Seal, or U.S. Pipe and Foundry Co.'s Tyton.
- H. Flange Gasket Material:
 1. For Use with Cold Water: 1/16 inch thick rubber.
 2. For Use with Hot Water or Air: Waterproofed non-asbestos ceramic or mineral fiber, or a combination of metal and water-proofed non-asbestos ceramic or mineral fiber, designed for the temperatures and pressures of the piping systems in which installed.
- I. Anti-Seize Lubricant: Bostik Inc.'s Never Seez or Dow Corning Corp.'s Molykote 1000.

2.05 PIPE SLEEVES

- A. Type A: Schedule 40 steel pipe.
- B. Type B: No. 16 gage galvanized sheet steel.
- C. Type C: Schedule 40 steel pipe with 1/4 inch steel collar continuously welded to pipe sleeve. Size steel collars as required to span a minimum of one cell or corrugation, on all sides of the rough opening thru the metal deck.

2.06 FLOOR, WALL AND CEILING PLATES

- A. Cast Brass: Solid type with polished chrome plated finish, and set screw.
 - 1. Series Z89 by Zurn, 929 Riverside Drive, Grosvenordale, CT 06255, (800) 243-1830.
 - 2. Model 127XXXX by Maguire Mfg., Cheshire CT 06410, (203) 699-1801.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install piping at approximate locations indicated, and at maximum height.
- B. Install piping clear of door swings, and above sash heads.
- C. Make allowances for expansion and contraction.
- D. Allow for a minimum of one inch free air space around pipe or pipe covering, unless otherwise specified.
- E. Install horizontal piping with a constant pitch, and without sags or humps.
 - 1. Water Piping: Pitch 1/4 inch per 10 feet upward in direction of flow, unless otherwise noted. If it is not possible to maintain constant pitch, establish a new low point and continue. At the low point, provide a 1/2 inch drip leg and gate valve with a hose bibb end. Provide an air vent at the high point.
 - 2. Drainage Piping: Pitch 1/4 inch per foot downward, in direction of flow, unless otherwise noted.
 - 3. Vent Piping: Pitch 1/4 inch per foot upward, unless otherwise noted.
- F. Install vertical piping plumb.
- G. Use fittings for offsets and direction changes, except for Type K soft annealed copper temper water tube.
- H. Cut pipe and tubing ends square; ream before joining.
- I. Threading: Use American Standard Taper Pipe Thread Dies.
 - 1. Thread brass pipe with special brass threading dies.

3.02 DRAINAGE SYSTEMS

- A. Fittings:
 - 1. Use long turn drainage pattern fittings, unless space conditions prohibit their use; in such cases, short turn pattern fittings may be used.
 - 2. Vertical Offsets: Make vertical offsets with 45 degree elbows, or 1/8 bends.
 - 3. Tucker Fittings: Tucker fittings may only be installed in vertical piping.

- B. Cleanouts:
 - 1. Install cleanouts with sufficient side and end clearance to allow for the removal of the cleanout plug, and the use of cleaning tools.
 - 2. Lubricate cleanout plugs with anti-seize lubricant.

3.03 DOMESTIC WATER PIPING SYSTEM

- A. Connect runouts to the upper quadrant of the main, and run upward at not less than 45 degrees before extending laterally.
- B. Make final connections to plumbing fixtures and equipment with unions, or flanges:
 - 1. Do not use unions in ferrous piping larger than 3 inches.
 - 2. Do not use unions in brass or copper piping larger than 2 inches.

3.04 MEDICAL AIR AND VACUUM PIPING

- A. Install in compliance with NFPA 99, Standard for Health Care Facilities.
 - 1. Clean and degrease all piping as specified for oxygen service.

3.05 PIPE JOINT MAKE-UP

- A. Threaded Joint: Make up joint with a pipe thread compound applied in accordance with manufacturer's printed application instructions for the intended service.
 - 1. Chrome Plated Brass Pipe: Tighten joint with a strap or Parmalee wrench; do not mar pipe finish. Install piping so that no threads are visible.
- B. Soldered Joint: Thoroughly clean tube end and inside of fitting with emery cloth, sand cloth, or wire brush. Apply flux to the pre-cleaned surfaces. Install fitting, heat to soldering temperature, and join the metals with type solder specified. Remove residue.
- C. Flanged Pipe Joint:
 - 1. Install threaded companion flanges on steel pipe; flanges on galvanized pipe are not required to be galvanized.
 - 2. Provide a gasket for each joint.
 - a. Hot Water Pipe Gasket: Coat with a thin film of oil before making up joint.
 - b. Air Pipe Gasket: Coat with a thin film of oil before making up joint.
 - 3. Coat bolt threads and nuts with anti-seize lubricant before making up joint.
- D. Rubber Ring Push-on Joint: Clean hub, bevel spigot, and make up joint with lubricated gasket in conformance with the manufacturer's printed installation instructions.
- E. Hubless CI Pipe Joint: Make up joint with hubless fitting and couplings, in conformance with the manufacturer's printed installation instructions.
- F. Brazed Joint: Thoroughly clean tube end and inside of fitting with emery cloth, sand cloth, or wire brush. Apply flux to the pre-cleaned surfaces. Install fitting, heat to brazing temperature, and join the metals with brazing alloy. Remove residue.

- G. Mechanical Joint: Make up joint in conformance with the manufacturer's printed installation instructions, with particular reference to tightening of bolts.
- H. Dissimilar Pipe Joint:
 - 1. Joining Bell and Spigot and Threaded Pipe: Install a half coupling on the pipe or tube end to form a spigot, and calk into the cast iron bell.
 - 2. Joining Dissimilar Threaded Piping: Make up connection with a threaded coupling or with companion flanges.
 - 3. Joining Dissimilar Non-Threaded Piping: Make up connection with adapters recommended by the manufacturers of the piping to be joined.
 - 4. Joining Galvanized Steel Pipe and Copper Tubing: Make up connection with a dielectric connector.

3.06 PIPING PENETRATIONS

- A. Sleeve Schedule: Unless otherwise shown, comply with the following schedule for the type of sleeve to be used where piping penetrates wall or floor construction:

	CONSTRUCTION	SLEEVE TYPE
1.	Frame construction.	None Required
2.	Non-waterproof interior walls.	B*
3.	Non-waterproof interior floors not on metal decks.	B*
4.	Floors not on grade having a floor drain.	A
5.	Earth supported concrete floors.	None Required
6.	Metal roof decks.	C
7.	Non-metal roof decks.	A
8.	Waterproof floors not on metal decks.	A
9.	Waterproof walls.	A

*Core drilling is permissible in lieu of sleeves where marked with asterisks.

- B. Diameter of Sleeves and Core Drilled Holes:
 - 1. Unless otherwise specified, size holes thru floors and walls in accordance with the through penetration fire stopping system being used.
 - 2. Size holes thru exterior walls or waterproofed walls above inside earth or finished floors, and exterior concrete slabs in accordance with the following:
 - a. Uninsulated (Bare) Pipe: Inside diameter of sleeve or core drilled hole 1/2 inch greater than outside diameter of pipe, unless otherwise specified.
 - b. Insulated Pipe: Inside diameter of sleeve or core drilled hole 1/2 inch greater than outside diameter of insulation, unless otherwise specified.
 - c. Mechanical Modular Seals: Size holes in accordance with the manufacturer's recommendations.
 - 3. Size holes for sprinkler and fire standpipe piping in accordance with NFPA 13.
- C. Length of Sleeves (except as shown otherwise on Drawings):
 - 1. Walls and Partitions: Equal in length to total finished thickness of wall or partition.
 - 2. Floors with Finish: Equal in length to total finished thickness of floor and extending 1/2 inch above the finished floor level, except as follows:

- a. In furred spaces at exterior walls, extend sleeve one inch above the finished floor level.
- 3. Roofs: Equal in length to the total thickness of roof construction, including insulation and roofing materials, and extending one inch above the finished roof level.

- D. Packing of Sleeves and Core Drilled Holes:
 - 1. Unless otherwise specified, pack sleeves or cored drilled holes in accordance with Section 078400 - FIRESTOPPING.
 - 2. Pack sleeves in exterior walls or waterproofed walls above inside earth or finished floors with oakum to within 1/2 inch of each wall face, and finish both sides with Type 1C (one part) sealant. See Section 079200.
 - a. Mechanical modular seals may be used in lieu of packing and sealant for sleeves and core drilled holes.

- E. Weld metal collars of Type C and D sleeves to the upper surface of the metal deck. Seal voids under the metal collar as recommended by the manufacturer of the metal deck.

3.07 FLOOR, WALL AND CEILING PLATES

- A. Install plates for exposed uninsulated piping passing thru floors, walls, ceilings, and exterior concrete slabs as follows:
 - 1. In Finished Spaces:
 - a. Piping 4 Inch Size and Smaller: Solid, chrome plated cast brass.
 - 2. Unfinished Spaces (Including Exterior Concrete Slabs): Solid, unplated cast iron.
 - 3. Fasten plates with set screws.
 - 4. Plates are not required in pipe shafts or furred spaces.

3.08 PIPE AND FITTING SCHEDULE

- A. Where options are given, choose only one option for each piping service. No deviations from the selected option will be allowed.

- B. Compressed Air (Above Ground) Pressures up to 175 psig:
 - 1. Option No. 1: Type L hard drawn copper tube, with cast copper alloy or wrought copper solder type fittings, and joints made up with Type 3 solder.

- C. Compressed Air (Below Ground) Pressures up to 175 psig:
 - 1. Option No. 2: Standard weight galvanized steel pipe, with threaded ends, and 150 psi galvanized malleable iron fittings, and threaded joints.

- D. Domestic Water (Above Ground):
 - 1. 3 inch and Under: Type L hard drawn copper tube, with cast copper alloy or wrought copper solder type fittings, and joints made up with Type 3 solder, or hydraulic press joints.

- E. Drainage (Sanitary) Above Ground:
 - 1. Option No. 3: Service weight, coated, cast iron bell and spigot pipe and fittings with rubber ring push-on joints.
 - 2. Option No. 4: Hubless, coated, cast iron pipe, fittings, and joint couplings.

- F. Drainage (Storm) Above Ground:
 - 1. Option No. 1: Standard weight galvanized steel pipe, with galvanized cast iron drainage pattern fittings, and threaded joints.
 - 2. Option No. 4: Service weight, coated, cast iron bell and spigot pipe and fittings, with rubber ring push-on joints.

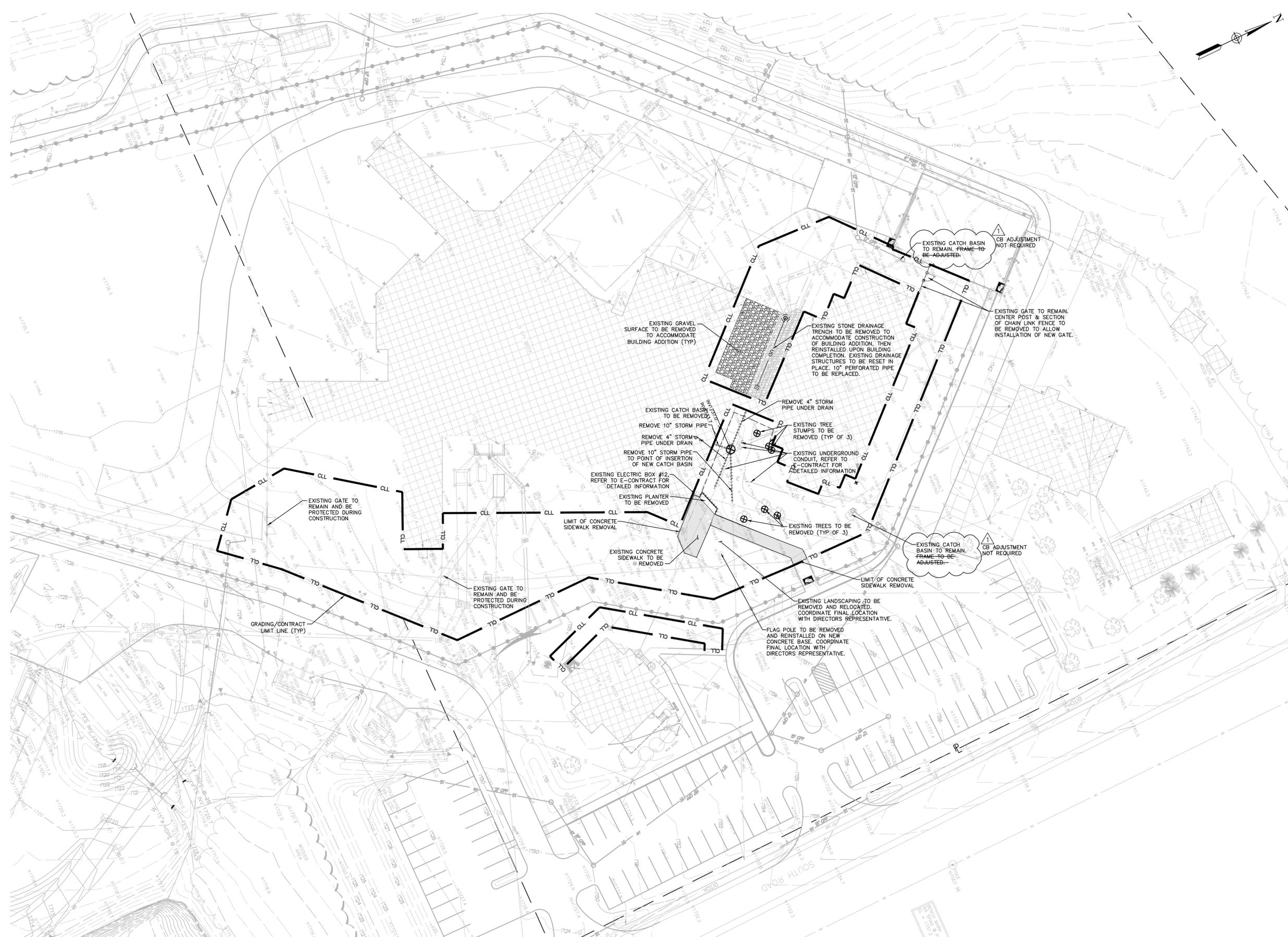
- G. Drainage Piping (Below Ground):
 - 1. Option No. 2: Service weight, coated, cast iron bell and spigot pipe and fittings, with rubber ring push-on joints.

- H. Medical Air, Gas, and Vacuum (Above Ground): Type K hard drawn copper tube for medical gas, with wrought copper tube fittings, and joints made up with brazing alloy.

- I. Medical Air, Gas, and Vacuum (Below Ground): Type K hard drawn copper tube for medical gas, with wrought copper tube fittings, and joints made up with brazing alloy.

- J. Vent Piping: Same materials that are used for piping system to which vent is connected.

END OF SECTION



CONSULTANT



CHAZEN PROJECT NO: 31418.02

WARNING:
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CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

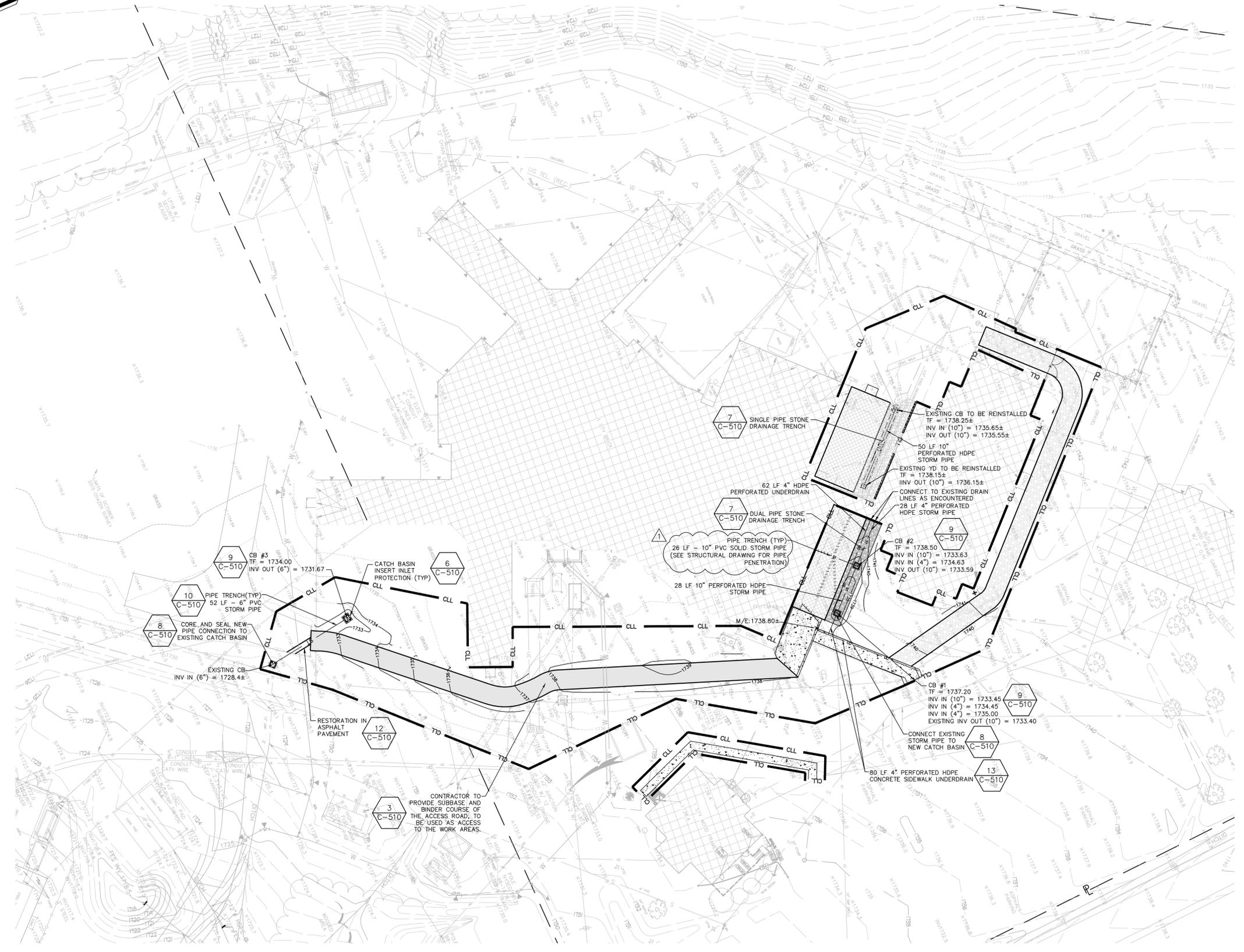
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM 1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER: 45009 - C		
DESIGNED BY: RK		
DRAWN BY: SM		
FIELD CHECK:		
APPROVED:		
SHEET TITLE:		

REMOVAL PLAN

DRAWING NUMBER: C-100

1 REMOVAL PLAN
C100 1" = 30'



1
C120 DRAINAGE & EROSION & SEDIMENT CONTROL
1" = 30'



CHAZEN PROJECT NO: 31418.02

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CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

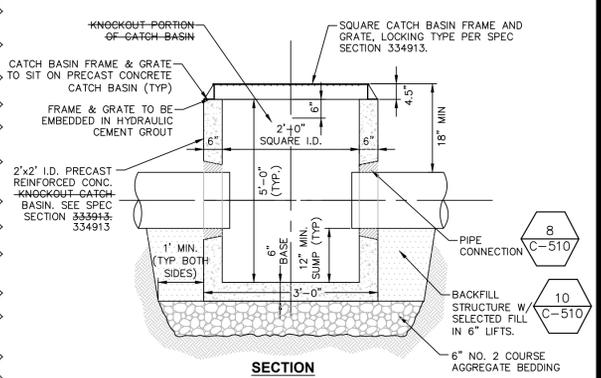
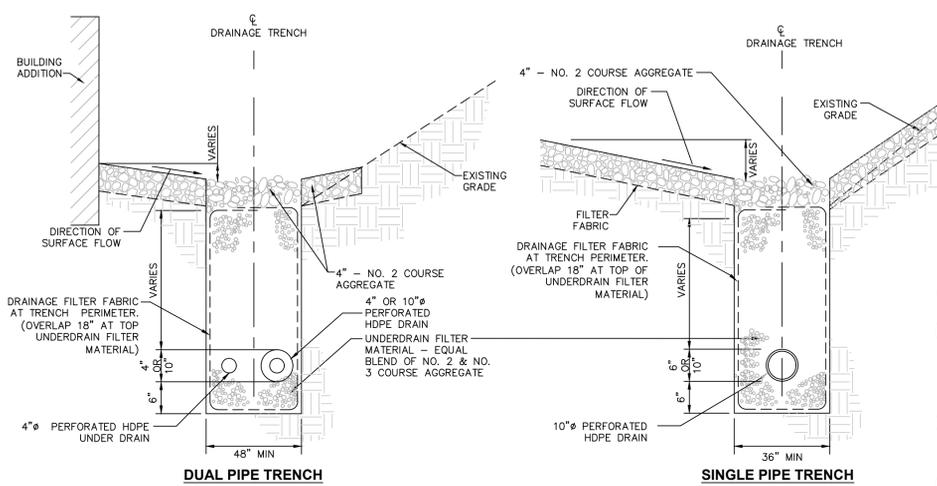
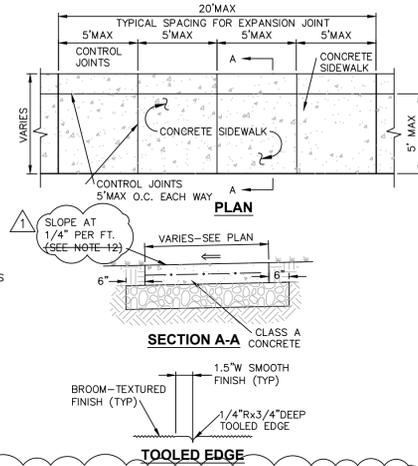
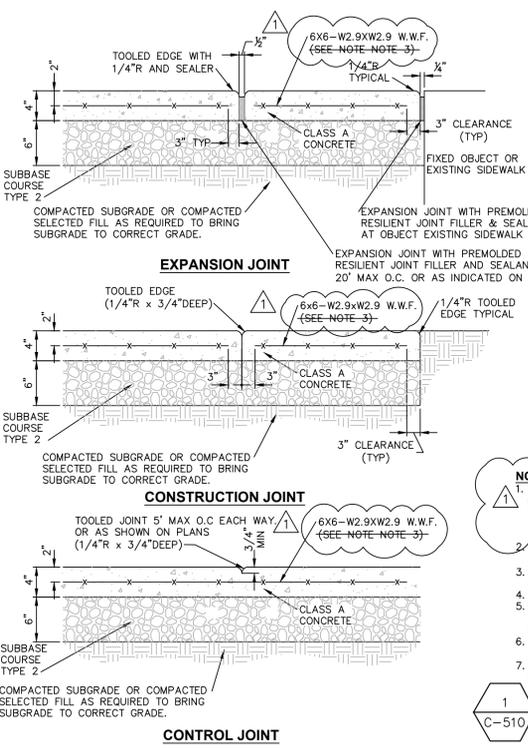
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

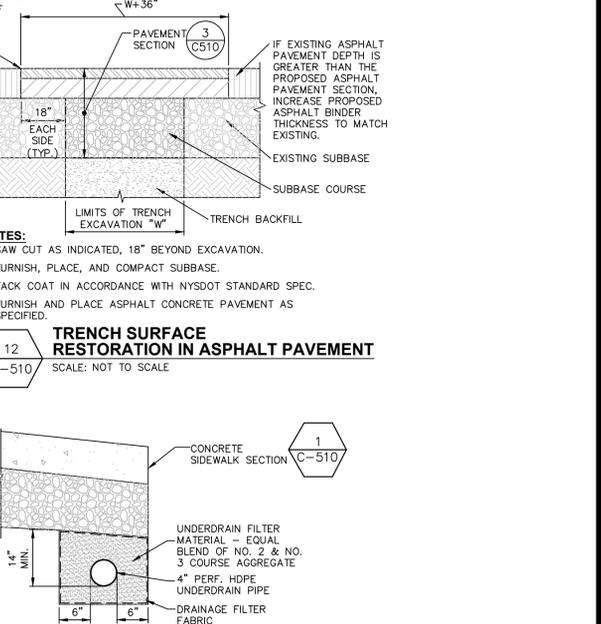
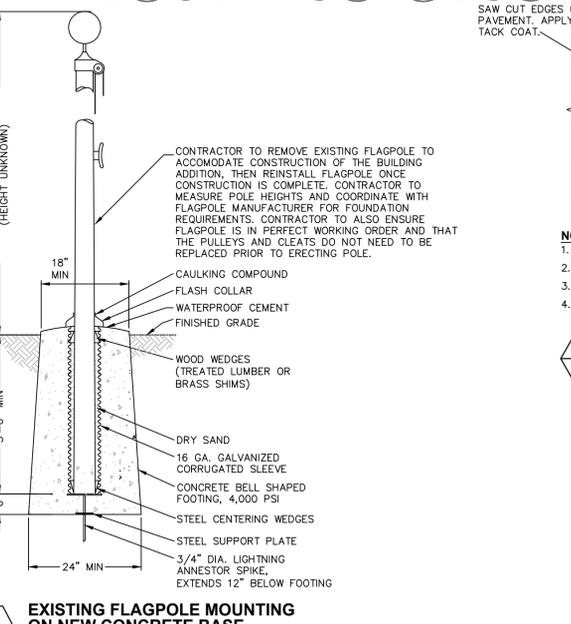
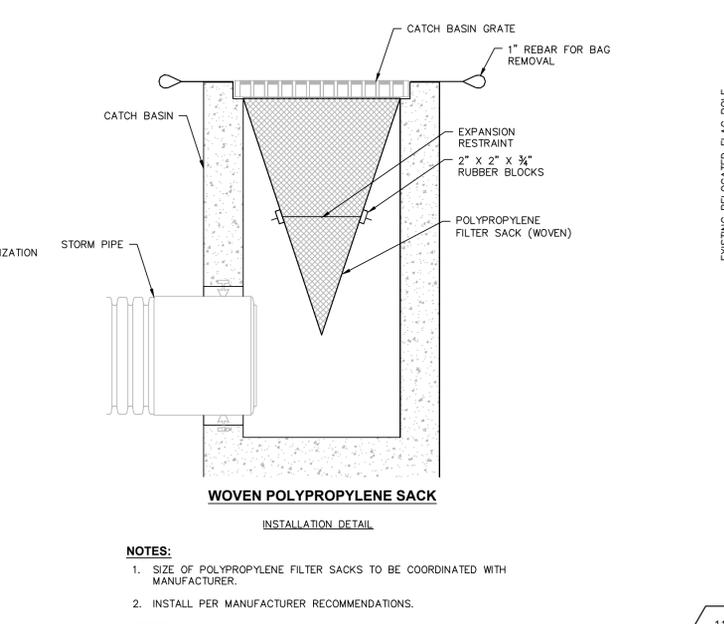
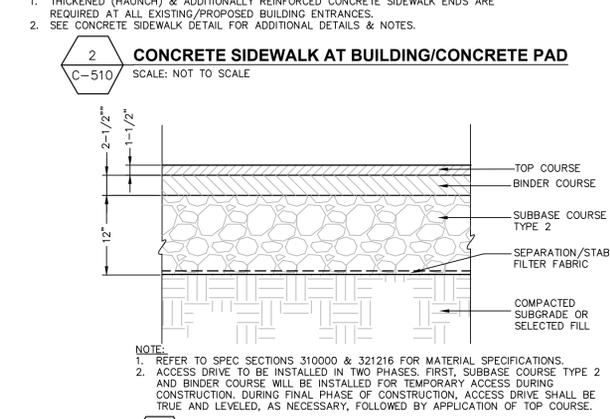
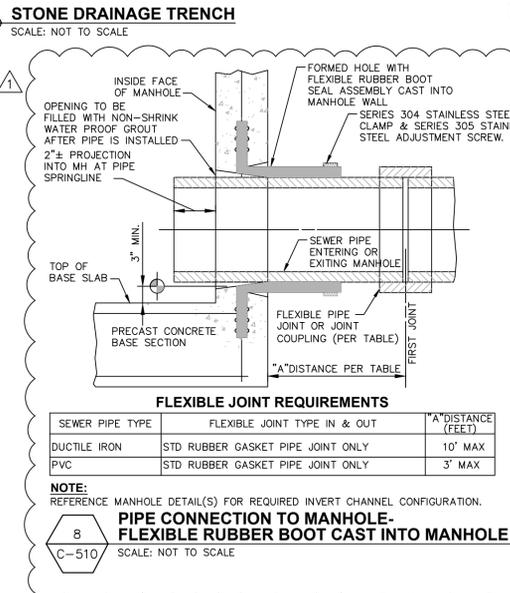
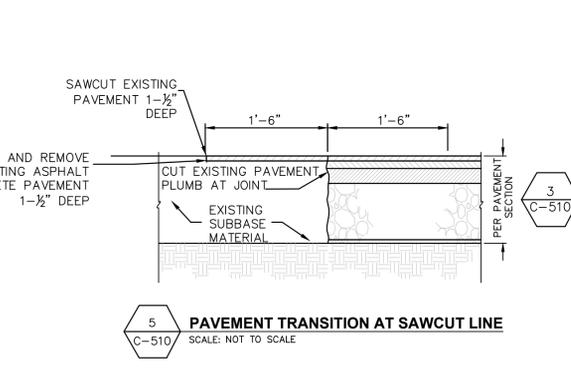
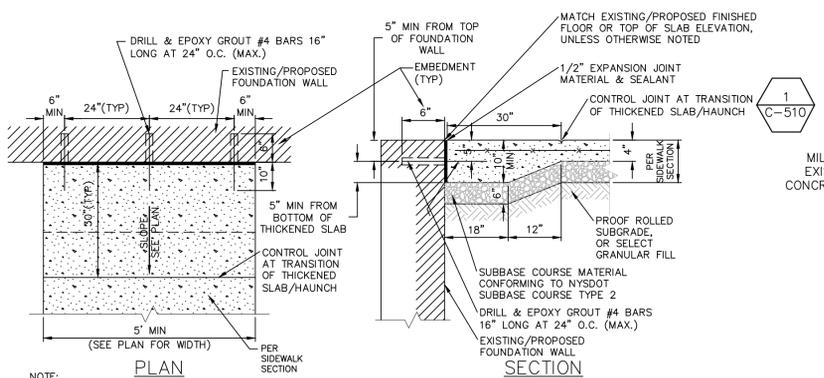
MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM 1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER:		45009 - C
DESIGNED BY:		RK
DRAWN BY:		SM
FIELD CHECK:		
APPROVED:		

SHEET TITLE:
DRAINAGE & EROSION & SEDIMENT CONTROL PLAN

DRAWING NUMBER:
C-120



NOTES:
1. MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, AND ALL ADDENDA THERE TO. REFER TO SPECIFICATION SECTION 321300-CONCRETE WALKS, FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. ALL EXPOSED SURFACES SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL BE PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
3. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20" ON CENTER, OR AS INDICATED ON PLANS.
4. JOINTS SHALL NOT BE SAW CUT.
5. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH SIDEWALK SEALER, RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. SIDEWALK WIDTH SHOWN ON THE PLANS IS TO BE MEASURED FROM THE BACK OF THE CURB.
7. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1/4" PER FT. UNLESS OTHERWISE NOTED ON PLAN.



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CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION:
MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONTDALE, NY

CLIENT:
OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM 1
	01/07/16	BD DOCUMENTS

PROJECT NUMBER: 45009 - C

DESIGNED BY: RK

DRAWN BY: SM

FIELD CHECK:

APPROVED:

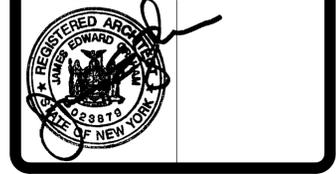
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DRAWING NUMBER: C-510

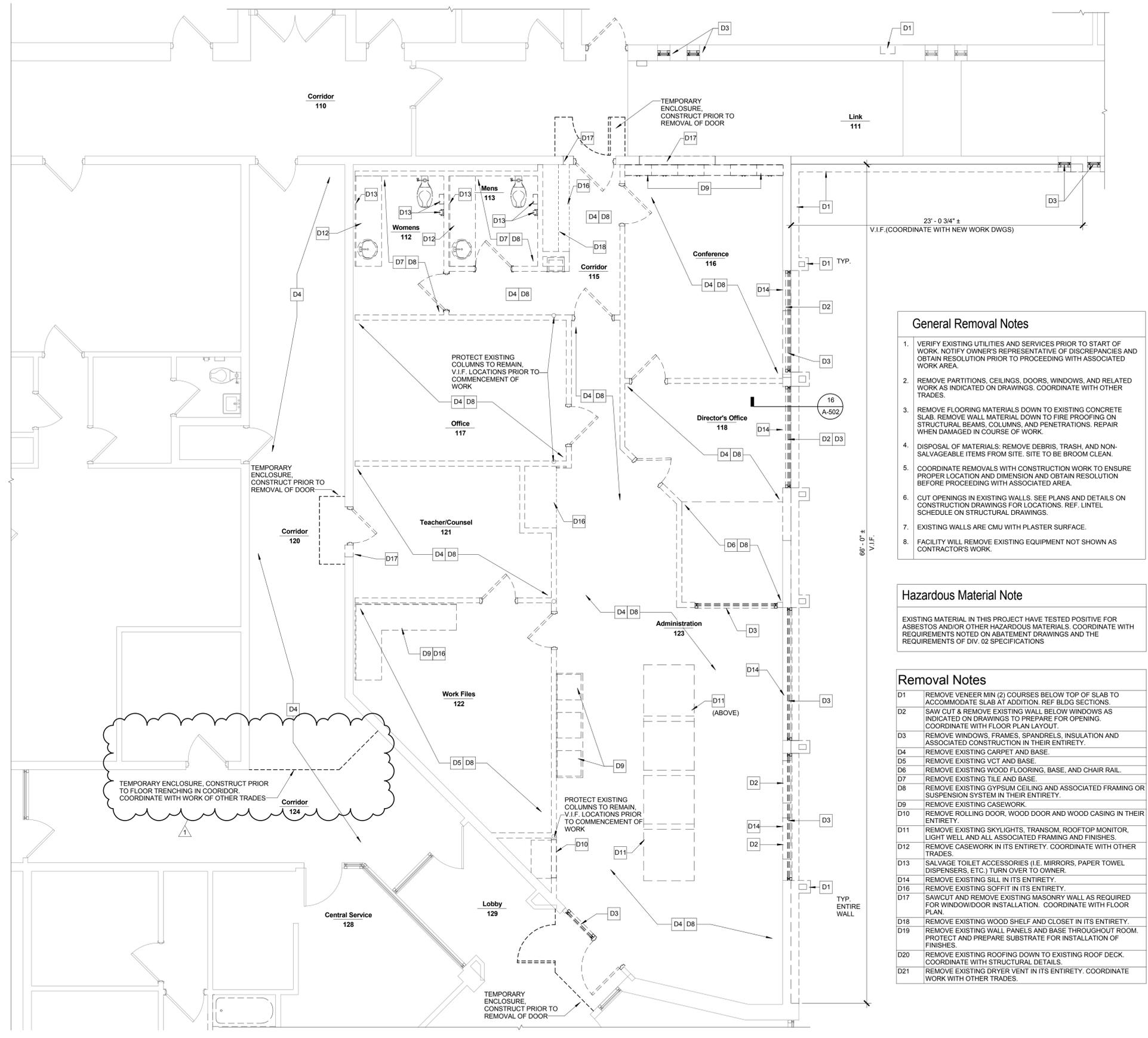
SHEET 9 **OF** 81



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CONTRACT: **CONSTRUCTION**
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY 14817
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES



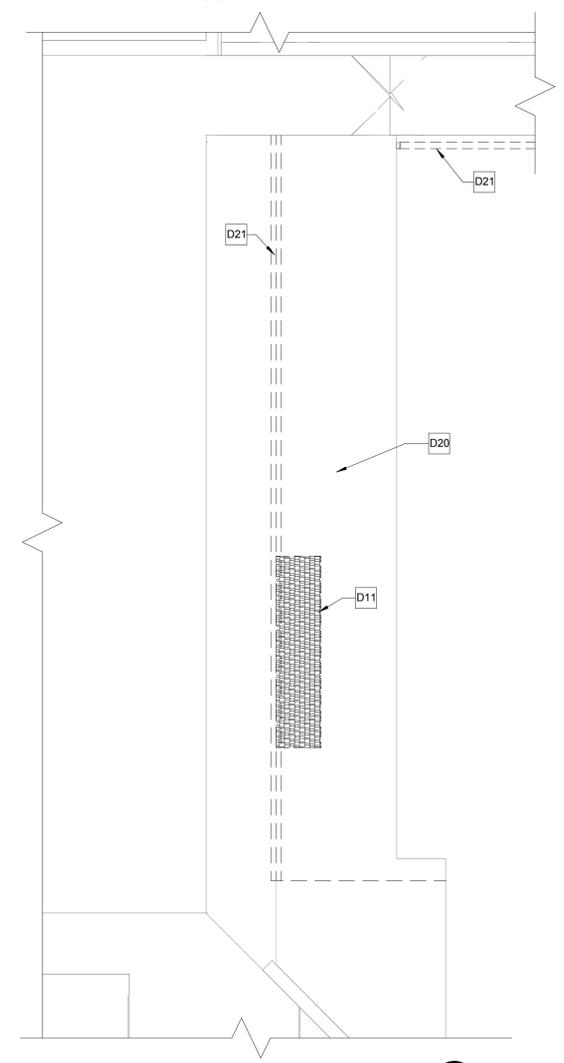
Removal Legend

1	REMOVAL KEY NOTE REFER TO THIS SHEET FOR NOTES	---	REMOVE WINDOW
⊗	FIXTURES AND DEVICES TO BE REMOVED BY OTHERS. COORDINATE WITH WORK SHOWN ON DRAWINGS OF OTHER CONTRACTS	—	WINDOW TO REMAIN
---	REMOVE WALL	---	REMOVE DOOR AND FRAME
—	WALL TO REMAIN	—	DOOR AND FRAME TO REMAIN

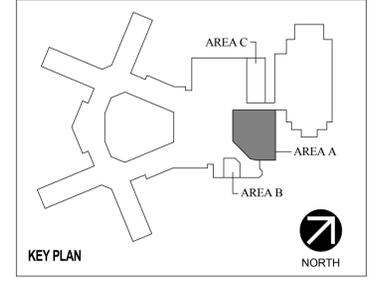
- General Removal Notes**
- VERIFY EXISTING UTILITIES AND SERVICES PRIOR TO START OF WORK. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES AND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH ASSOCIATED WORK AREA.
 - REMOVE PARTITIONS, CEILINGS, DOORS, WINDOWS, AND RELATED WORK AS INDICATED ON DRAWINGS. COORDINATE WITH OTHER TRADES.
 - REMOVE FLOORING MATERIALS DOWN TO EXISTING CONCRETE SLAB. REMOVE WALL MATERIAL DOWN TO FIRE PROOFING ON STRUCTURAL BEAMS, COLUMNS, AND PENETRATIONS. REPAIR WHEN DAMAGED IN COURSE OF WORK.
 - DISPOSAL OF MATERIALS: REMOVE DEBRIS, TRASH, AND NON-SALVAGEABLE ITEMS FROM SITE. SITE TO BE BROOM CLEAN.
 - COORDINATE REMOVALS WITH CONSTRUCTION WORK TO ENSURE PROPER LOCATION AND DIMENSION AND OBTAIN RESOLUTION BEFORE PROCEEDING WITH ASSOCIATED AREA.
 - CUT OPENINGS IN EXISTING WALLS. SEE PLANS AND DETAILS ON CONSTRUCTION DRAWINGS FOR LOCATIONS. REF. LINTEL SCHEDULE ON STRUCTURAL DRAWINGS.
 - EXISTING WALLS ARE CMU WITH PLASTER SURFACE.
 - FACILITY WILL REMOVE EXISTING EQUIPMENT NOT SHOWN AS CONTRACTOR'S WORK.

Hazardous Material Note
EXISTING MATERIAL IN THIS PROJECT HAVE TESTED POSITIVE FOR ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS. COORDINATE WITH REQUIREMENTS NOTED ON ABATEMENT DRAWINGS AND THE REQUIREMENTS OF DIV. 02 SPECIFICATIONS

- Removal Notes**
- D1 REMOVE VENEER MIN (2) COURSES BELOW TOP OF SLAB TO ACCOMMODATE SLAB AT ADDITION. REF BLDG SECTIONS.
 - D2 SAW CUT & REMOVE EXISTING WALL BELOW WINDOWS AS INDICATED ON DRAWINGS TO PREPARE FOR OPENING. COORDINATE WITH FLOOR PLAN LAYOUT.
 - D3 REMOVE WINDOWS, FRAMES, SPANDRELS, INSULATION AND ASSOCIATED CONSTRUCTION IN THEIR ENTIRETY.
 - D4 REMOVE EXISTING CARPET AND BASE.
 - D5 REMOVE EXISTING VCT AND BASE.
 - D6 REMOVE EXISTING WOOD FLOORING, BASE, AND CHAIR RAIL.
 - D7 REMOVE EXISTING TILE AND BASE.
 - D8 REMOVE EXISTING GYPSUM CEILING AND ASSOCIATED FRAMING OR SUSPENSION SYSTEM IN THEIR ENTIRETY.
 - D9 REMOVE EXISTING CASEWORK.
 - D10 REMOVE ROLLING DOOR, WOOD DOOR AND WOOD CASING IN THEIR ENTIRETY.
 - D11 REMOVE EXISTING SKYLIGHTS, TRANSOM, ROOFTOP MONITOR, LIGHT WELL AND ALL ASSOCIATED FRAMING AND FINISHES.
 - D12 REMOVE CASEWORK IN ITS ENTIRETY. COORDINATE WITH OTHER TRADES.
 - D13 SALVAGE TOILET ACCESSORIES (I.E. MIRRORS, PAPER TOWEL DISPENSERS, ETC.) TURN OVER TO OWNER.
 - D14 REMOVE EXISTING SILL IN ITS ENTIRETY.
 - D16 REMOVE EXISTING SOFFIT IN ITS ENTIRETY.
 - D17 SAWCUT AND REMOVE EXISTING MASONRY WALL AS REQUIRED FOR WINDOW/DOOR INSTALLATION. COORDINATE WITH FLOOR PLAN.
 - D18 REMOVE EXISTING WOOD SHELF AND CLOSET IN ITS ENTIRETY.
 - D19 REMOVE EXISTING WALL PANELS AND BASE THROUGHOUT ROOM. PROTECT AND PREPARE SUBSTRATE FOR INSTALLATION OF FINISHES.
 - D20 REMOVE EXISTING ROOFING DOWN TO EXISTING ROOF DECK. COORDINATE WITH STRUCTURAL DETAILS.
 - D21 REMOVE EXISTING DRYER VENT IN ITS ENTIRETY. COORDINATE WORK WITH OTHER TRADES.



2 D-100 Removal Plan - Roof - Area A
1/8" = 1'-0"



1 D-100 Removal Plan - First Floor- Area A
1/4" = 1'-0"

MARK	DATE	DESCRIPTION
⚠	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS
PROJECT NUMBER:	45009-C	
DESIGNED BY:	MSE	
DRAWN BY:	MSE, AEG	
FIELD CHECK:		
APPROVED:	JG	
SHEET TITLE:	REMOVAL PLAN - AREA A AND ROOF	
DRAWING NUMBER:	D-100	
SHEET	11	OF 81

GENERAL NOTES:

- REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWING NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
- ALL DIMENSIONS TO, OF, AND IN EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE DIRECTOR'S REPRESENTATIVE.
- DO NOT CHANGE THE SIZE NOR SPACING OF STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE DIRECTOR'S REPRESENTATIVE.
- DETAILS SHOWN ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL BRACE BUILDING AS REQUIRED FOR CONSTRUCTION AND WIND LOADS UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: ROOF DECK, BRACING MEMBERS, MOMENT CONNECTIONS, SHEAR WALLS, ETC.
- THE DESIGN IS BASED ON THE BUILDING CODE OF NEW YORK STATE, 2010 EDITION.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE DIRECTOR'S REPRESENTATIVE PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE DIRECTOR'S REPRESENTATIVE'S APPROVAL.
- EACH CONTRACTOR SHALL COOPERATE WITH THE DIRECTOR'S REPRESENTATIVE, AND COORDINATE WORK WITH THE WORK OF OTHERS.
- VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN, SEE MECHANICAL, ELECTRICAL, CIVIL AND ARCHITECTURAL DRAWINGS.

DESIGN DATA:

- OCCUPANCY CATEGORY III
- FLOOR LIVE LOADS

A. OFFICES/EXAM ROOMS:	50 PSF
B. STORAGE AREAS/MECHANICAL ROOMS:	125 PSF
C. FIRST FLOOR CORRIDORS:	100 PSF
- ROOF SNOW LOAD

A. GROUND SNOW LOAD:	55 PSF
B. FLAT-ROOF SNOW LOAD:	43 PSF
C. SNOW EXPOSURE FACTOR:	1.0
D. SNOW LOAD IMPORTANCE FACTOR:	1.1
E. THERMAL FACTOR:	1.0
- WIND DESIGN DATA

A. BASIC WIND SPEED (3-SECOND GUST):	90 MPH
B. WIND IMPORTANCE FACTOR:	1.15
C. WIND EXPOSURE CATEGORY:	B
D. INTERNAL PRESSURE COEFFICIENTS:	+0.18
- EARTHQUAKE DESIGN DATA

A. SEISMIC IMPORTANCE FACTOR:	1.25
B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S _s : 0.124 S ₁ : 0.056
C. SITE CLASS:	C
D. SEISMIC DESIGN CATEGORY:	A
E. DESIGN BASE SHEAR:	0.01xW (KIPS)
F. BASIC SEISMIC FORCE RESISTING SYSTEM:	ORDINARY STEEL MOMENT FRAME & MASONRY SHEARWALL
G. RESPONSE MODIFICATION FACTOR:	R=3.5
H. ANALYSIS PROCEDURE:	MASONRY SHEAR WALL: R=2.0 EQUIVALENT LATERAL FORCE METHOD
- DEAD LOADS:

A. ASPHALT SHINGLES:	2.0 PSF
B. METAL TRUSSES:	10.0 PSF
C. CEILING:	2.5 PSF
D. LIGHTING AND FIRE-PROTECTION:	5.0 PSF
E. 1 1/2" METAL DECK:	3.0 PSF
F. STEEL JOIST:	2.0 PSF
G. INSULATION:	7.5 PSF
- SOIL BEARING

A. FOUNDATION DESIGN BASED ON SOIL BEARING CAPACITY OF 3000 PSF ON PROOF ROLLED, LIGHTLY DISTURBED GLACIAL TILL. REFER TO PROJECT MANUAL FOR GEOTECHNICAL REPORT PREPARED BY THE CHAZEN COMPANIES DATED OCTOBER 29, 2014
B. BEARING STRATUM SHALL BE FIELD VERIFIED BY DIRECTOR'S REPRESENTATIVE PRIOR TO PLACEMENT OF ANY MATERIAL.

FOUNDATION NOTES:

- BEAR ALL FOOTINGS ON COMPACTED CRUSHED STONE.
- FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE AS INDICATED IN THE DESIGN DATA. BEARING STRATUM FOR THIS CAPACITY SHALL BE VERIFIED IN FIELD BY DIRECTOR'S REPRESENTATIVE BEFORE PLACING CONCRETE FOOTINGS.
- SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY DIRECTOR'S REPRESENTATIVE, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN, OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF DIRECTOR'S REPRESENTATIVE.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- CENTER FOOTINGS UNDER WALLS, PIERS, OR COLUMNS UNLESS NOTED OTHERWISE.
- VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN, SEE ARCH. DWGS.

CAST-IN-PLACE CONCRETE NOTES:

- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, INSERTS, AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. FOR EMBEDDED ITEMS AND REQUIRED DETAILS, SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS.
- CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE NORMAL WEIGHT, AIR ENTRAINED AND HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS:

A. ALL CONCRETE: F'c = 4,000 PSI

- ALL PIPING AND DUCT PENETRATIONS THROUGH NEW STRUCTURAL SLABS ARE TO BE SLEEVED OR CHASED. NO CORING OF SLAB IS PERMITTED.
- REINFORCE ALL CONCRETE ELEMENTS (FOOTINGS, WALLS, PIERS, AND SLABS). REINFORCEMENT SHOWN PERTAINS TO ALL TYPICAL CONDITIONS.
- SPLICES IN REINFORCEMENT SHALL MEET CLASS B TENSION LAP REQUIREMENTS UNLESS NOTED OTHERWISE.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- PROVIDE CORNER BARS IN FOOTINGS AT THE SAME SIZE AND SPACING AS CONTINUOUS REINFORCEMENT.
- EXTEND REINFORCEMENT IN WALL FOOTINGS BETWEEN COLUMNS INTO COLUMN FOOTINGS A MINIMUM OF 2'-0". LOCATE TO MISS ANCHOR BOLTS.
- WHERE REQUIRED, STEP FOOTINGS UP OR DOWN IN RATIO OF TWO HORIZONTALS TO ONE VERTICAL. CAST STEPPED FOOTINGS MONOLITHICALLY.
- DOWEL CONCRETE WALLS AND PIERS INTO FOOTINGS WITH DOWELS AT THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3" OF BOTTOM OF FOOTING, TERMINATED WITH ACI STD. 90 DEGREE HOOK, UNLESS NOTED OTHERWISE.
- PROVIDE KEYS IN CONCRETE WALLS, PIERS AND FOOTINGS AT INTERSECTION OF CONCRETE.
- PROVIDE 3/4" X 3/4" CHAMFER AT ALL EXPOSED CORNERS UNLESS NOTED OTHERWISE.
- NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS OR WALLS EXCEPT AS FOLLOWS:

A. WHERE SHOWN AND AS DETAILED ON DRAWINGS.
B. MISCELLANEOUS HOLES THROUGH SLABS OR WALLS WHICH DO NOT DISPLACE MORE THAN ONE BAR. THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT. DETAIL JOINT ON SHOP DRAWINGS.
- CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.
- VERIFY EXACT LOCATIONS OF DEPRESSED SLABS. HICKEY REINFORCEMENT AT DEPRESSIONS.

CONCRETE MASONRY UNIT (CMU) WALL NOTES:

- REFER TO THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS FOR TYPES OF MASONRY OTHER THAN CONCRETE MASONRY.
- MORTAR SHALL CONFORM TO TABLE 1 OF ASTM C270, TYPE S. THE MORTAR MIX DESIGN (BY VOLUME) SHALL BE SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS. HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 NORMAL WEIGHT SPECIFICATIONS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI. THE SPECIFIED COMPRESSIVE STRENGTH, F'm, IS 1500 PSI.
- COARSE CONCRETE GROUT SHALL CONFORM TO TABLE 1 OF ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A SLUMP OF 8 TO 11 INCHES. GROUT MAY BE EITHER READY MIXED OR JOB MIXED. THE GROUT MIX DESIGN (BY VOLUME) SHALL BE SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
- WHEN MIXING MORTAR AND GROUT, CONTAINERS OF KNOWN VOLUME SHALL BE USED. MEASUREMENT USING SHOVELS SHALL NOT BE ALLOWED. FOR GROUT, THE SAND AND PEA GRAVEL SHALL BE TAKEN FROM SEPARATE PILES, NOT FROM A PRE-BLENDED PILE. IF MEASUREMENT BY SHOVELING OR USE OF A PRE-BLENDED PILE IS DISCOVERED, THE ENGINEER MAY REQUIRE ALL WALLS BUILT SO FAR TO BE TESTED PER ASTM C 1314 BY CUTTING 3 MASONRY PRISMS AND 3 GROUT CORES OUT OF THE WALL FOR EVERY 5,000 SQUARE FEET OF WALL, AND MAY REQUIRE ANY AREA OF WALL TESTING BELOW 1,500 PSI TO BE REPLACED AT NO COST TO THE OWNER.

A. PROPORTIONS OF MORTAR AND GROUT MIXING
B. REBAR AND JOINT REINFORCEMENT SIZES AND LOCATIONS
C. PROPER GROUT PLACEMENT AT REBAR
D. HEADJOINTS ARE FULLY MORTARED
E. CONTROL JOINTS ARE REINFORCED AND FULLY MORTARED
F. PROPER COLD AND HOT WEATHER PROCEDURES USED
- THREE GROUT PRISMS SHALL BE MADE DURING THE FIRST DAY OF MASONRY WORK AND FOR EVERY 5,000 SF OF WALL (OR LESS) THEREAFTER, WITH ALL THREE PRISMS TESTED AT 28 DAYS. THE ENGINEER MAY REQUIRE ANY AREA OF WALL TESTING BELOW 1,500 PSI TO BE REPLACED AT NO COST TO THE OWNER. EVERY TIME A SET OF GROUT PRISMS IS MADE, THE LABORATORY SHALL VERIFY:

A. PROPORTIONS OF MORTAR AND GROUT MIXING
B. REBAR AND JOINT REINFORCEMENT SIZES AND LOCATIONS
C. PROPER GROUT PLACEMENT AT REBAR
D. HEADJOINTS ARE FULLY MORTARED
E. CONTROL JOINTS ARE REINFORCED AND FULLY MORTARED
F. PROPER COLD AND HOT WEATHER PROCEDURES USED
- COLD WEATHER AND HOT WEATHER PROCEDURES SHALL BE USED IN ACCORDANCE WITH ACI 530.1/ASCE 6/TMS 602 ARTICLE 1.8C AND 1.8D.
- REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- PROVIDE VERTICAL CONTROL JOINTS AT LOCATIONS APPROVED BY THE ARCHITECT, WITH A MAXIMUM SPACING OF 20 FEET. HORIZONTAL BOND BEAM REINFORCEMENT SHALL CONTINUE THROUGH ALL CONTROL JOINTS IN ALL WALLS (BOTH LOAD-BEARING AND NON-LOAD BEARING WALLS). CONTROL JOINTS SHALL CONSIST OF A VERTICAL MASONRY JOINT, RAKED BACK AND CAULKED.
- AT ALL STEEL COLUMNS FLUSH AGAINST CMU, WIREBOND 1000 TYPE I ANCHORS OR EQUAL SHALL BE INSTALLED AT 16" OC WITH TIES IN THE BED JOINTS.

STRUCTURAL STEEL NOTES:

- DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:

A. USE 3/4" DIAMETER A325 TYPE N BOLTS IN STANDARD HOLES UNLESS NOTED OTHERWISE. DESIGN USING STANDARD HOLES.
B. WELD (SHIELDED METAL ARC) - ELECTRODES SHALL BE E70XX AND BE IN ACCORDANCE WITH AWS D1.1 UNLESS NOTED OTHERWISE.
C. MINIMUM CAPACITY OF BEAM CONNECTIONS: FOR CONNECTIONS NOT DETAILED, PROVIDE CONNECTION CAPACITY OF AT LEAST THAT REQUIRED BY PART 2 OF THE AISC MANUAL (9TH EDITION) IN THE SECTION "ALLOWABLE LOADS ON BEAMS", FOR THE GIVEN MEMBER AND STEEL SPECIFICATIONS. CONCENTRATED LOADS NEAR SUPPORTS MUST BE ADDED.
D. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER. USE MINIMUM OF TWO 3/4-INCH DIAMETER A325 BOLTS PER CONNECTION.
- PROVIDE COLUMNS WITH 1/2" CAP PLATES UNLESS DETAILED OTHERWISE.
- SPECIFIED STEEL STRENGTH:

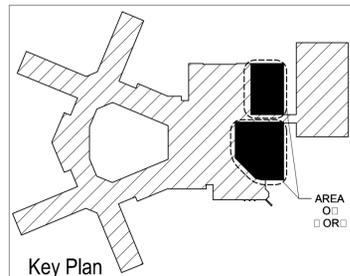
BEAMS & COLUMNS	FY = 50 KSI
MOMENT CONNECTIONS	FY = 50 KSI
FLANGE PLATES	FY = 50 KSI
WEB PLATES	FY = 36 KSI
ALL OTHER CONNECTION	FY = 36 KSI
ANGLES, PLATES, ETC.	FY = 36 KSI

LIGHT GAUGE METAL TRUSS NOTES:

- LIGHT GAUGE METAL TRUSSES SHALL BE OF TYPE IN WHICH CHORDS AND WEB MEMBERS ARE IN ONE PLANE. USE GUSSET PLATES, WHICH DEVELOP DESIGN STRENGTH REQUIRED AT JOINTS, FOR CONNECTIONS.
- TRUSSES SHALL BE CAPABLE OF SUPPORTING LOADS AS INDICATED WITHIN THE PLANS.
- MAXIMUM TRUSS DEFLECTION SHALL BE L/360 FOR TOTAL LIVE LOAD AND L/240 FOR TOTAL LOAD.
- WEB MEMBERS MAY BE SIZED AND LOCATED BY TRUSS MANUFACTURER AS REQUIRED.
- SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS WHICH CONTAIN RELEVANT DESIGN INFO, SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
- NO SNOW LIVE LOAD REDUCTION WILL BE PERMITTED FOR ROOF PITCH.
- ANCHOR ALL TRUSSES SECURELY TO EXTERIOR WALLS.
- CONTINUOUSLY BRACE TRUSS BOTTOM CHORDS WITH FLAT 4" DEEP CHANNEL (SPACING AS SHOWN ON PLANS), LOCATED AT OR NEAR PANEL POINTS.

STEEL JOIST NOTES:

- WELD JOIST BOTTOM CHORD CONNECTIONS AFTER ROOFING AND OTHER DEAD LOADS HAVE BEEN INSTALLED.
- LOCATE CONCENTRATED LOADS ON JOISTS AT PANEL POINTS. PROVIDE ANGLE WEB MEMBERS TO CREATE INTERMEDIATE PANEL POINTS AS REQUIRED. MANUFACTURER SHALL DIRECT INSTALLER AS TO METHOD OF INSTALLATION AND MATERIAL REQUIRED.
- VERIFY SIZE, LOCATION, AND NUMBER OF ROOF OPENINGS WITH H&E CONTRACTORS.
- INSTALL JOISTS WITHIN A HORIZONTAL SWEEP TOLERANCE OF 1/4" IN 10 FEET.



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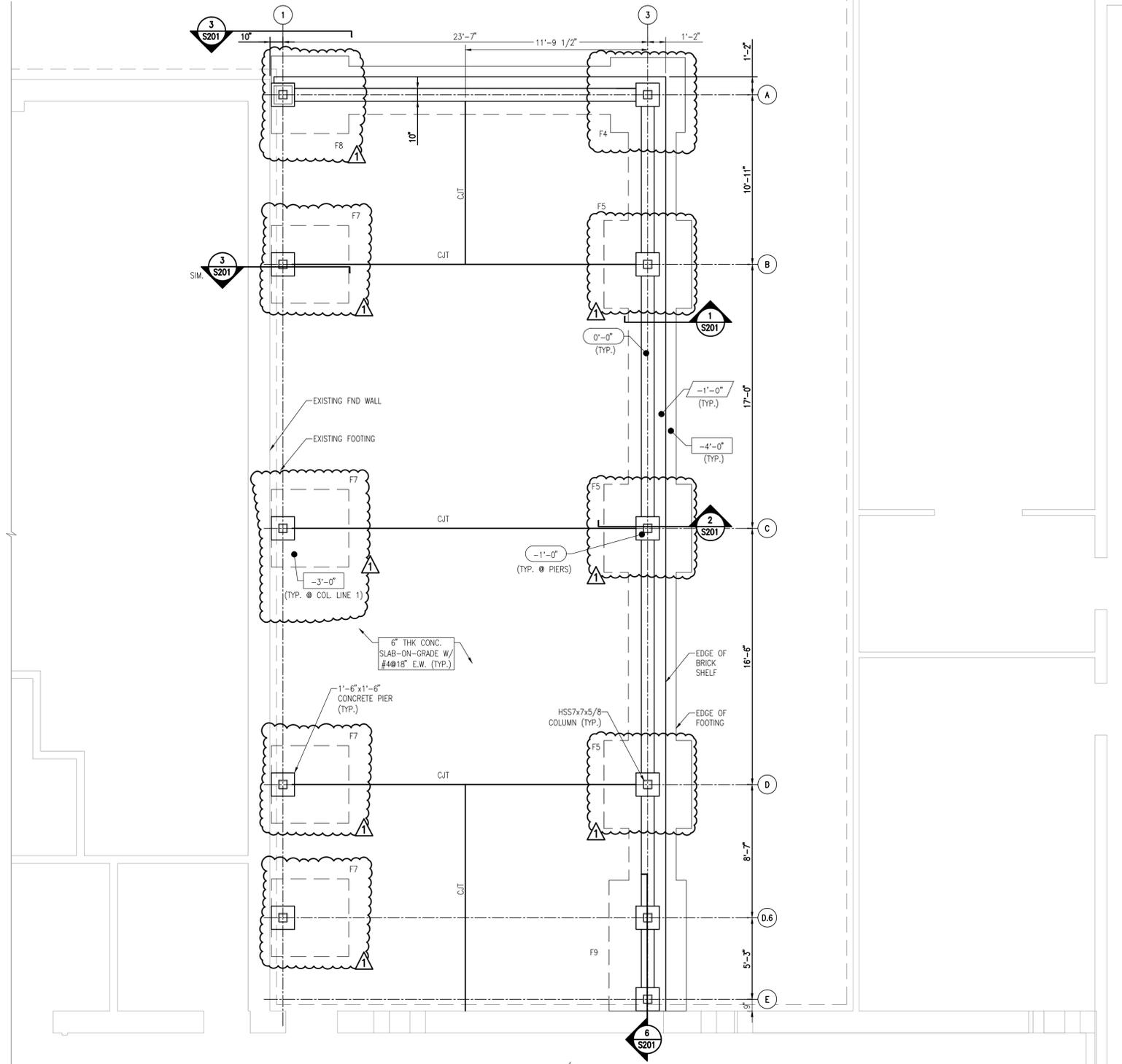
CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
▲	02/04/16	ADDENDUM #1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER:		45009 - C
DESIGNED BY:		MPP
DRAWN BY:		SNP
FIELD CHECK:		MPP
APPROVED:		CMD

GENERAL NOTES

DRAWING NUMBER:
S-001

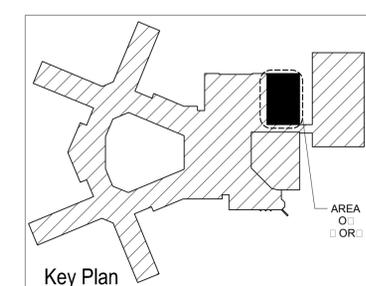


NOTES:

1. REFERENCE ELEVATION= EXISTING FINISHED FLOOR ELEV.= 0'-0" (106.5')
2. (X'-X") DENOTES T/PIER OR T/WALL ELEVATION (± FFE).
3. (X'-X") DENOTES T/FTG ELEVATION (± FFE).
4. (X'-X") DENOTES BRICK SHELF ELEVATION (± FFE).
5. C/JT DENOTES CONTROL JOINT, REFER TO 2/S400.
6. F# DENOTES FOOTING TYPE. REFER TO FOOTING SCHEDULE ON S-200.
7. REFER TO 6/S-200 FOR TYPICAL PIER SIZE AND REINFORCING.
8. REFER TO 6/S-201 FOR FOOTING TYPE F9 DETAIL.



1 OFFICES FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



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CONTRACT: CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

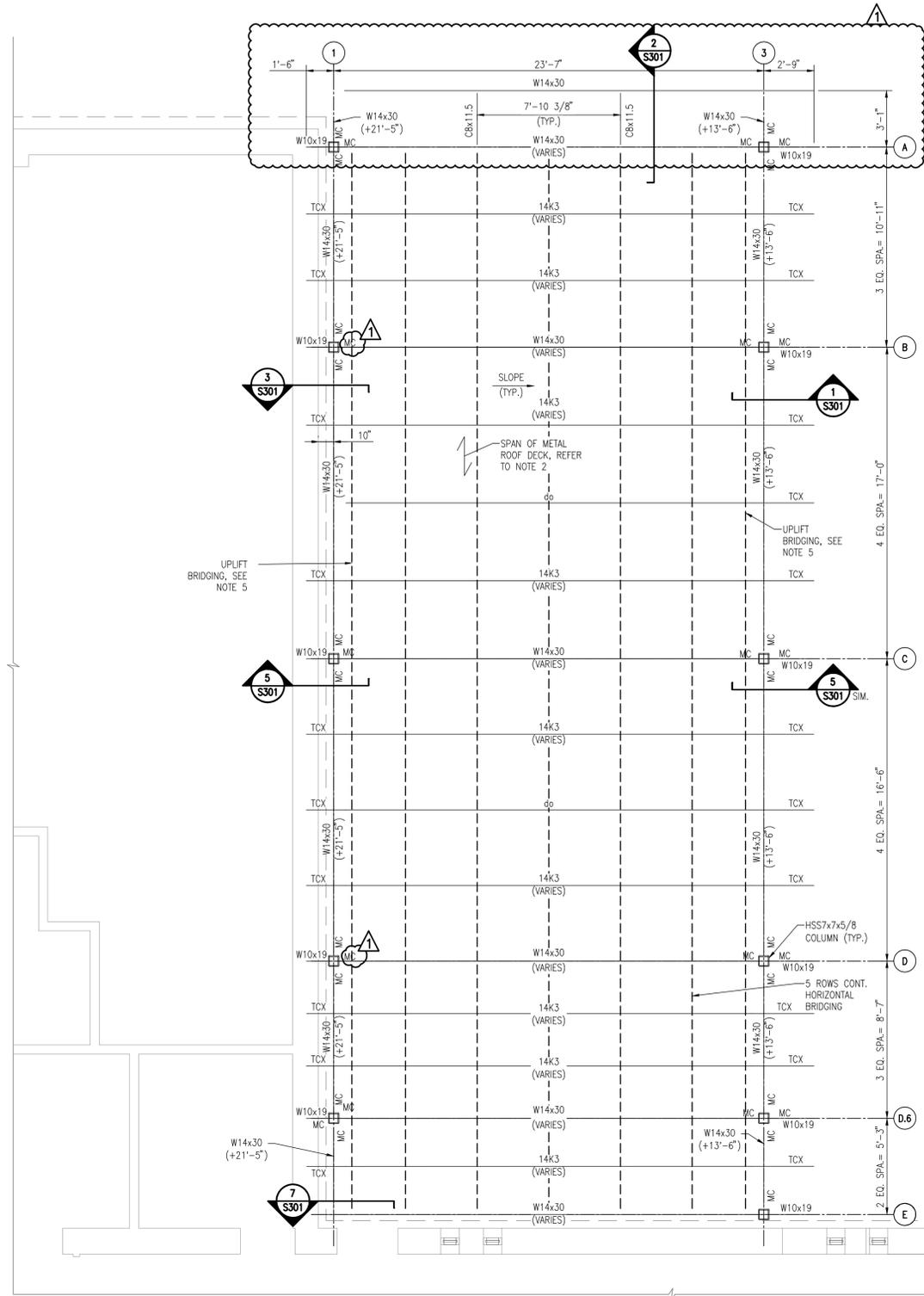
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM #1
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PROJECT NUMBER: 45009 - C		
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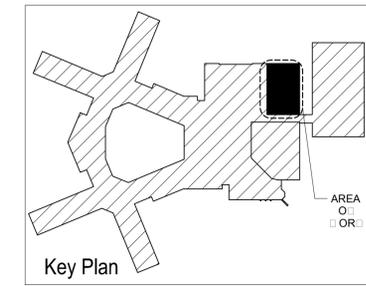
SHEET TITLE:
AREA B - OFFICE FOUNDATION PLAN

DRAWING NUMBER:
S-101



- NOTES:
- ELEVATIONS SHOWN ARE REFERENCED FROM FINISHED FLOOR ELEV. = FFE = 0'-0"
 - METAL ROOF DECK SHALL BE 1 1/2" TYPE B, 18 GA. METAL DECK FASTENED WITH 5/8" DIA. PUDDLE WELDS ON A 36/5 PATTERN. SIDE LAPS SHALL BE FASTENED WITH #10 TEK SCREWS, 3 SCREWS PER SPAN.
 - TCX DENOTES TOP CHORD EXTENSION.
 - MC DENOTES MOMENT CONNECTION, REFER TO 4/S-301 FOR MOMENT CONNECTION DETAIL.
 - JOIST MANUFACTURER TO DESIGN UPLIFT BRIDGING FOR A NET UPLIFT OF 20 PSF.

1 OFFICES FRAMING PLAN
SCALE: 1/4" = 1'-0"



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CONTRACT: **CONSTRUCTION**

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

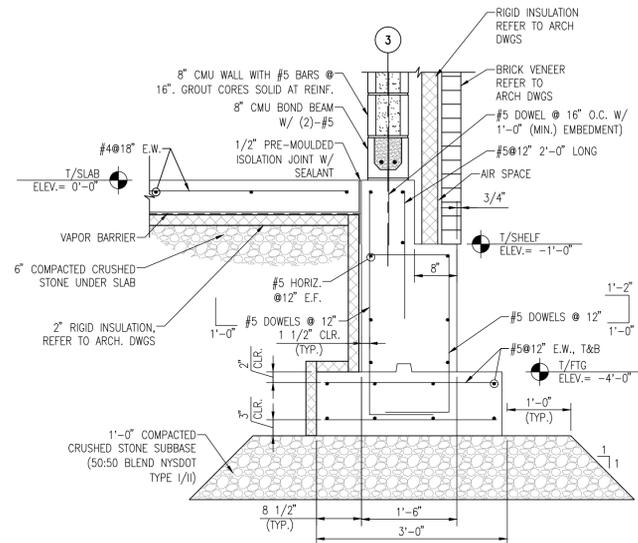
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM #1
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PROJECT NUMBER:	45009 - C	
DESIGNED BY:	MPP	
DRAWN BY:	SNP	
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APPROVED:	CMD	

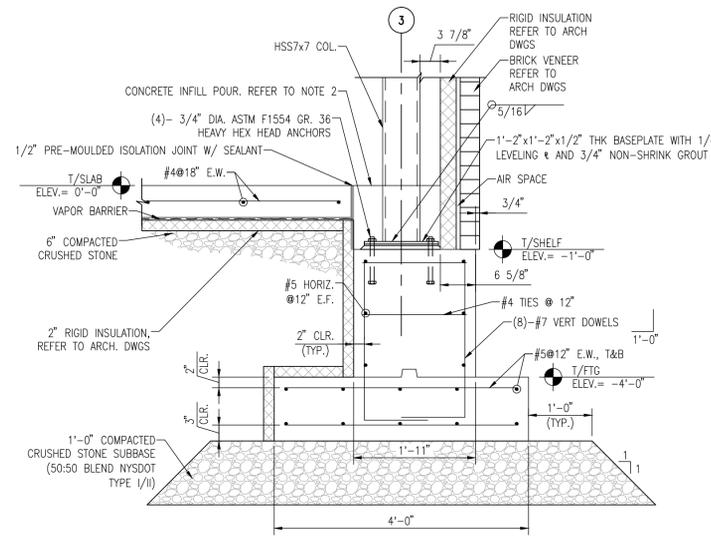
SHEET TITLE:
AREA B- OFFICES FRAMING PLAN

DRAWING NUMBER:
S-131



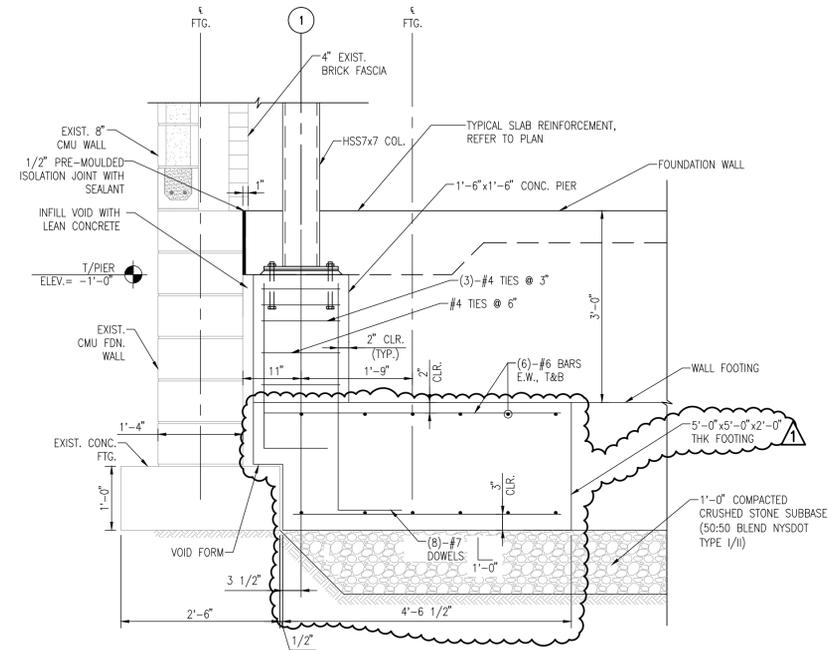
NOTE:
1. REFER TO ARCH DWGS FOR INSULATION REQUIREMENTS.

1 AREA A PIER SECTION
SCALE: 3/4" = 1'-0"

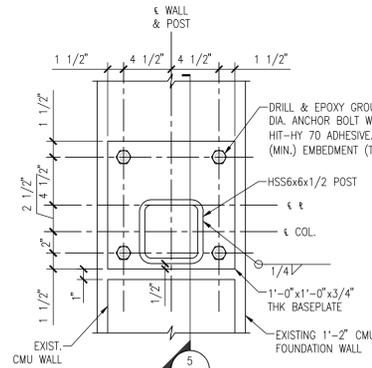


NOTE:
1. REFER TO ARCH DWGS FOR INSULATION REQUIREMENTS.
2. INFILL 1'-6"x1'-6" AREA AT COLUMN TO MATCH FINISHED FLOOR ELEVATION.

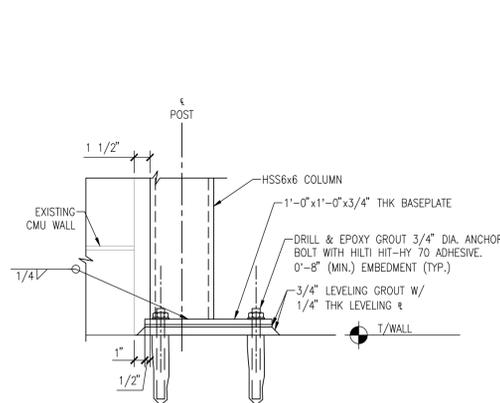
2 AREA B PIER SECTION
SCALE: 3/4" = 1'-0"



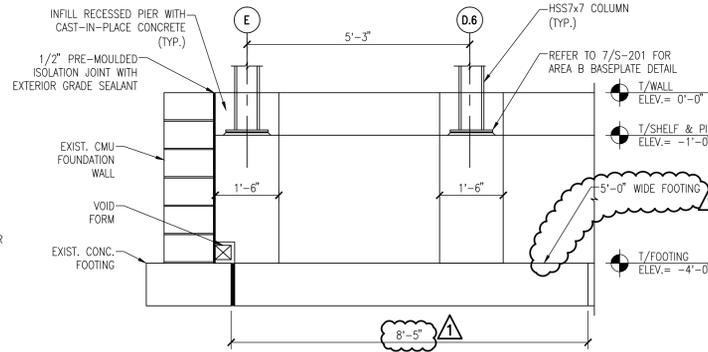
3 OFFSET FOOTING
SCALE: 3/4" = 1'-0"



4 LINTEL POST BASEPLATE
SCALE: 1 1/2" = 1'-0"

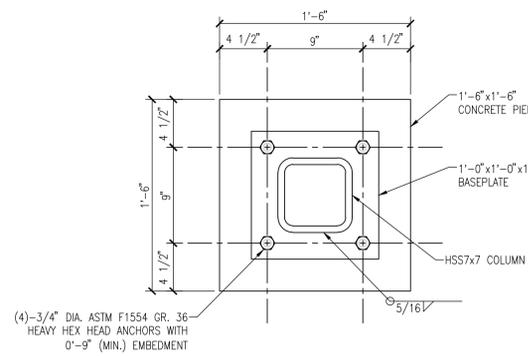


5 SECTION @ LINTEL POST BASEPLATE
SCALE: 1 1/2" = 1'-0"

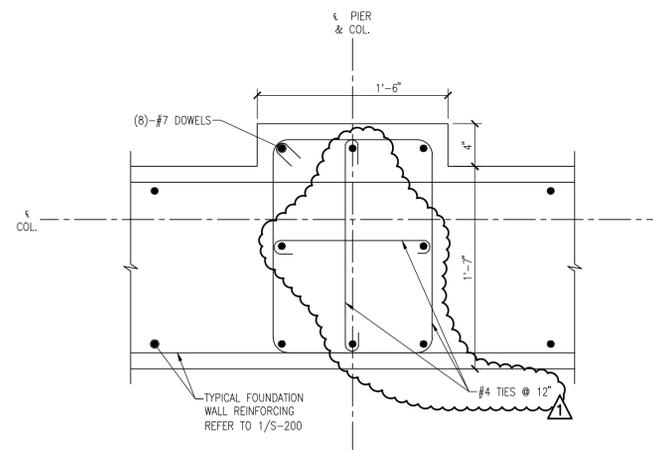


NOTES:
1. THE CONTRACTOR SHALL MATCH THE TOP OF THE PROPOSED FOOTING TO THE TOP OF THE EXISTING FOOTING.

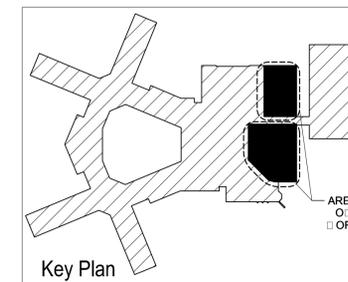
6 AREA B COMBINED FOOTING
SCALE: 1/2" = 1'-0"



7 AREA B BASEPLATE
SCALE: 1 1/2" = 1'-0"



8 AREA B TYPICAL PIER SECTION
SCALE: 1 1/2" = 1'-0"



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M/E Project 141927



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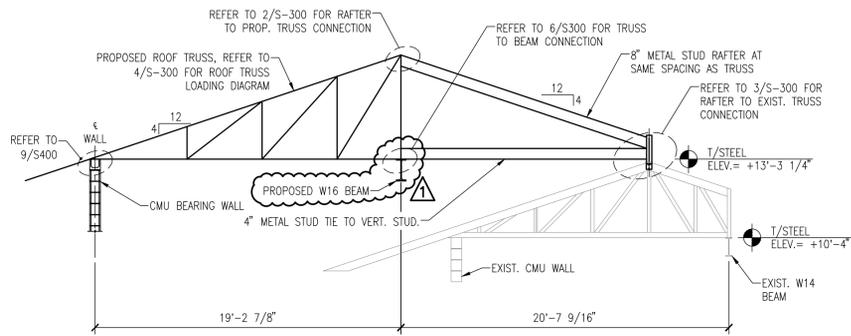
CONSTRUCTION

CONTRACT:
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER 300 SOUTH ROAD BROOKTONDALE, NY
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/16	ADDENDUM #1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER:	45009 - C	
DESIGNED BY:	MPP	
DRAWN BY:	SNP	
FIELD CHECK:	MPP	
APPROVED:	CMD	

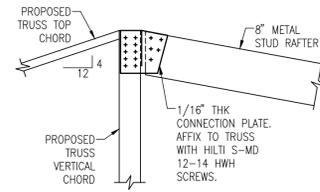
CONCRETE DETAILS

DRAWING NUMBER:
S-201



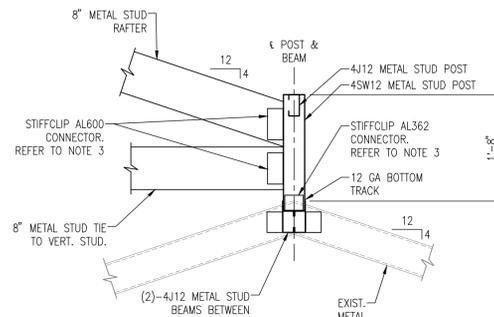
- NOTE:**
1. REMOVE EXIST. ROOF COVERING FROM EXIST. ROOF. UNDER NEW ROOF ONLY. EXIST. MTL DECK TO REMAIN.
 2. NO MECHANICAL, ELECTRICAL OR PLUMBING APPARATUS MAY BE PLACED ABOVE THE EXISTING METAL ROOF TRUSS.

1 PROPOSED TRUSS TO EXIST. TRUSS
SCALE: 3/16" = 1'-0"

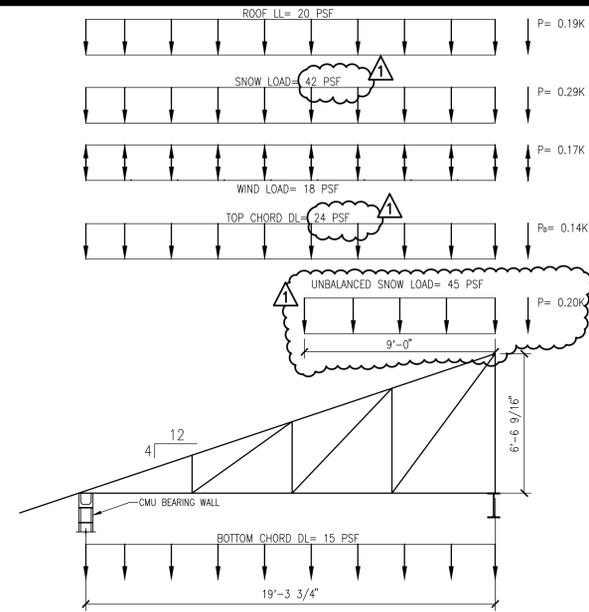


- NOTE:**
1. ALL STIFFCLIP CONNECTORS SHALL BE AS MANUFACTURED BY THE STEEL NETWORK, INC. OR APPROVED EQUAL. PROVIDE FOUR (4) SCREWS IN ALL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 2. BEND LEGS OF TRACK AS REQUIRED, TO FACILITATE THE INSTALLATION OF THE METAL RAFTER.
 3. PROVIDE 12 GA. METAL TRACK ABOVE AND BELOW METAL STUD BEAM.

2 RAFTER TO PROPOSED TRUSS CONNECTION
SCALE: 3/4" = 1'-0"

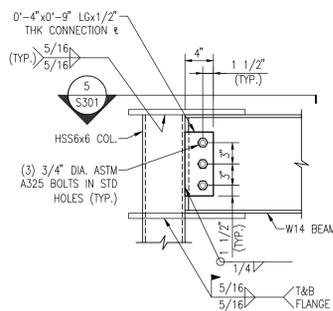


3 RAFTER CONNECTIONS
SCALE: 3/4" = 1'-0"

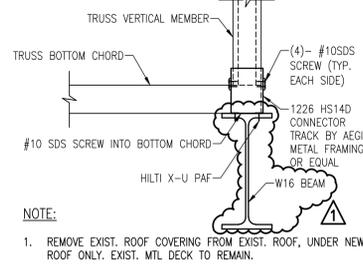


- NOTE:**
1. DESIGN TRUSS FOR A NET WIND UPLIFT PRESSURE OF 18 PSF.

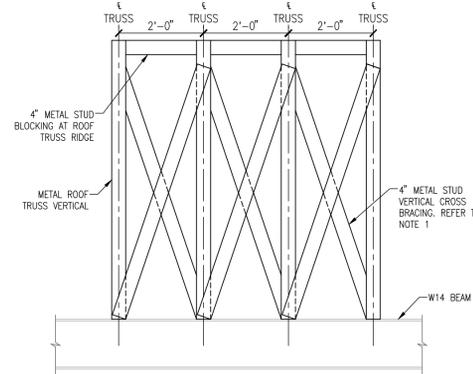
4 TRUSS LOADING DIAGRAM
SCALE: 1/4" = 1'-0"



5 MOMENT CONNECTION DETAIL
SCALE: 1" = 1'-0"

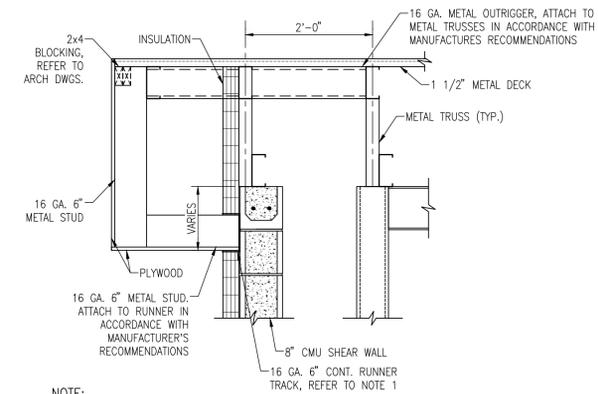


6 TRUSS TO STEEL BEAM
SCALE: 1" = 1'-0"



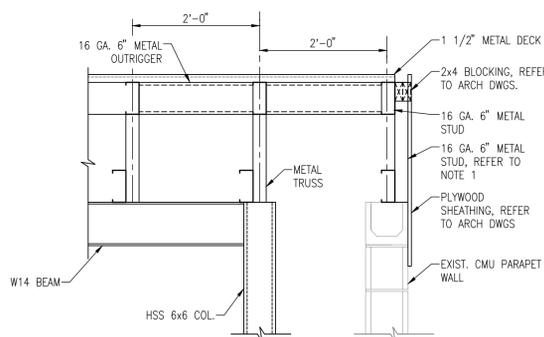
- NOTE:**
1. ATTACH BRACING TO TRUSS IN ACCORDANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS.

7 TRUSS ELEVATION
SCALE: 1/2" = 1'-0"



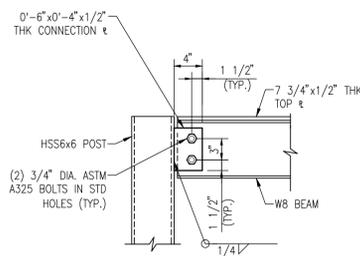
- NOTE:**
1. INTERRUPT INSULATION TO ALLOW FOR INSTALLATION OF RUNNER. ATTACH RUNNER TO CMU IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. REFER TO ARCH DWGS FOR EXTERIOR FINISHES AND VENTILATION REQUIREMENTS.

8 SECTION @ CMU SHEAR WALL
SCALE: 3/4" = 1'-0"

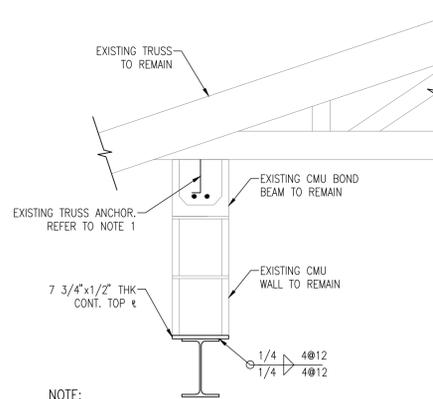


- NOTES:**
1. ATTACH METAL STUD TO CMU WALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TAPER STUD WITH ROOF PITCH.
 2. REFER TO ARCH DWGS FOR EXTERIOR FINISHES AND VENTILATION REQUIREMENTS.

9 SECTION @ EXIST. BUILDING
SCALE: 3/4" = 1'-0"

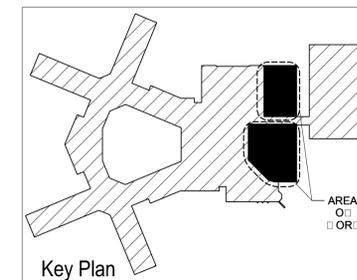


10 W8 LINTEL CONNECTION DETAIL
SCALE: 1" = 1'-0"



- NOTE:**
1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING THE INSTALLATION OF THE LINTEL TO NOT DAMAGE THE EXISTING CMU BLOCKS AND TRUSS ANCHOR AT THE BOND BEAM.
 2. REFER TO ARCH. DRAWINGS FOR EXACT ELEVATION OF THE LINTEL.

11 W8 LINTEL SECTION
SCALE: 1" = 1'-0"



Key Plan



MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
BUFFALO - CAPITAL DISTRICT - SYRACUSE - ROCHESTER
SUITE 228 - 460 LAKEFRONT BOULEVARD
BUFFALO, NEW YORK 14202
(716) 845-5032 FAX: (716) 845-6187
M/E Project 141927



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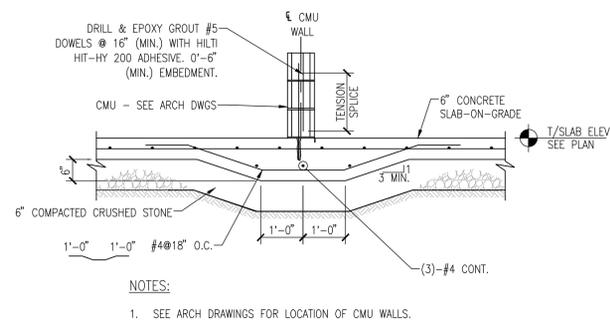
CONTRACT: CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

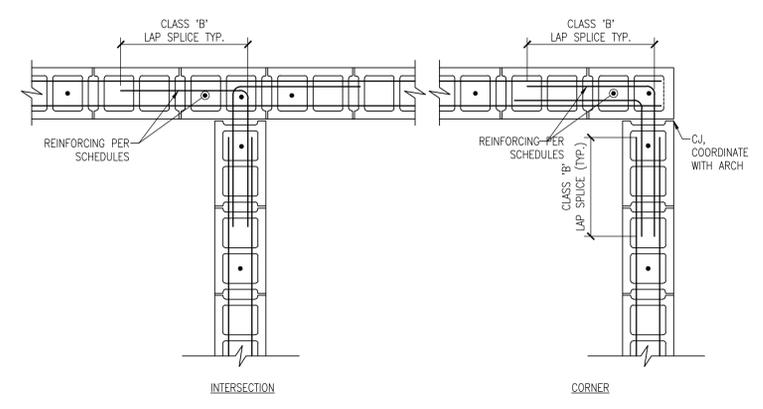
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
▲	02/04/16	ADDENDUM #1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER:		45009 - C
DESIGNED BY:		MPP
DRAWN BY:		SNP
FIELD CHECK:		MPP
APPROVED:		CMD

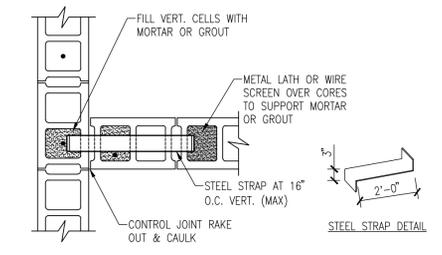


NOTES:
1. SEE ARCH DRAWINGS FOR LOCATION OF CMU WALLS.

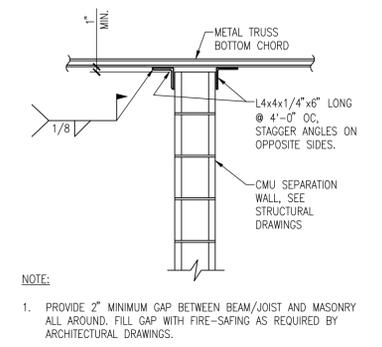
1 TYPICAL THICKENED SLAB UNDER MASONRY SHEAR WALLS
SCALE: N.T.S.



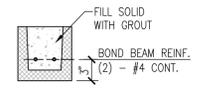
2 TYPICAL STRUCTURAL BOND BEAM
SCALE: N.T.S.



3 TYPICAL INTERSECTION OF STRUCTURAL MASONRY WALLS
SCALE: N.T.S.

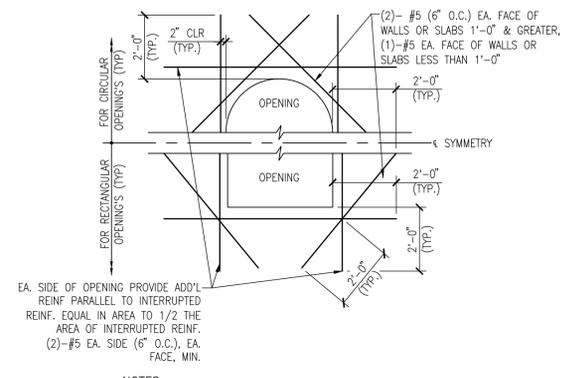


4 TYPICAL NON-LOAD BEARING CMU WALL BRACING DETAIL
SCALE: N.T.S.



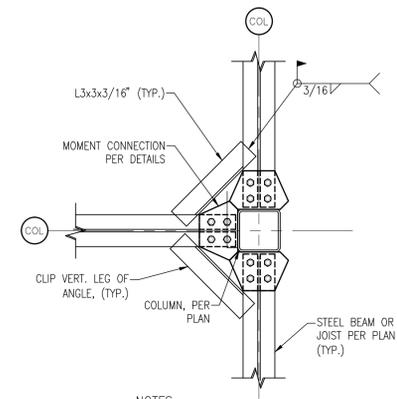
NOTES:
1. USE LINTEL BLOCKS AT WALL OPENINGS AND USE KNOCK-OUT BLOCKS AT ALL OTHER LOCATIONS.
2. BOND BEAMS LOCATED AT FLOOR AND ROOF LEVELS TO HAVE REINFORCING CONTINUOUS THROUGH CONTROL JOINTS.
3. INTERMEDIATE BOND BEAMS TO HAVE HORIZONTAL REINFORCING DISCONTINUOUS AT CONTROL JOINTS.

5 TYPICAL BOND BEAM REINFORCING DETAIL
SCALE: N.T.S.



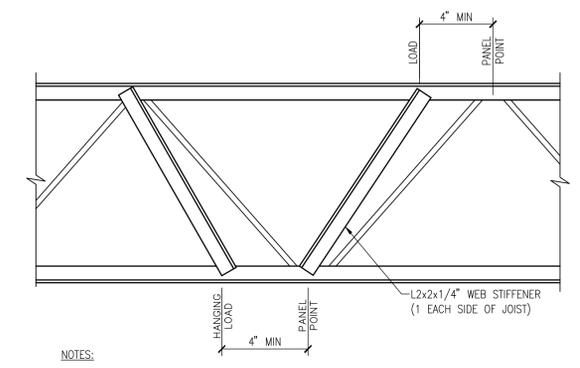
NOTES:
1. USE ABOVE REINF AROUND OPENING'S 1'-0\"/>

6 TYPICAL REINF. AT RECTANGULAR & CIRCULAR OPENINGS IN SLABS AND WALLS
SCALE: N.T.S.



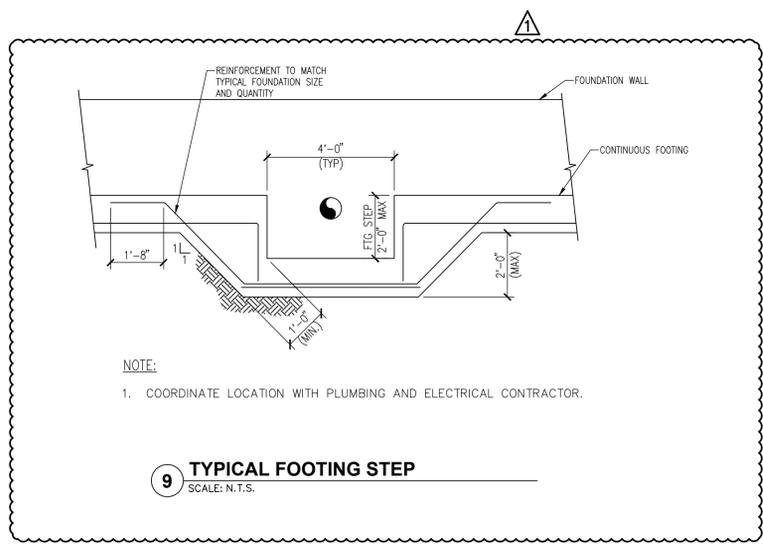
NOTES:
1. INSTALL ANGLES AS REQUIRED TO PROVIDE BEARING FOR FULL WIDTH OF ALL METAL DECK SHEETS, TYP.
2. DECK NOT SHOWN FOR CLARITY.

7 TYPICAL DECK SUPPORT AT COLUMN W/ MOMENT CONNECTION
SCALE: N.T.S.



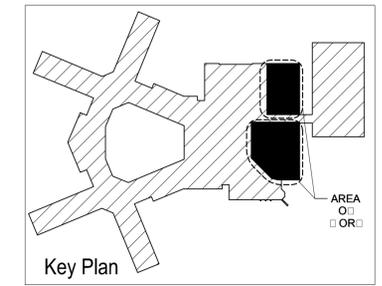
NOTES:
1. WEB STIFFENERS MUST BE APPLIED TO ANY JOIST WHEN A CONCENTRATED LOAD IS PLACED ON THE JOIST 4\"/>

8 TYPICAL WEB STIFFENER DETAIL FOR 'K' AND 'KCS' JOISTS
SCALE: N.T.S.



NOTE:
1. COORDINATE LOCATION WITH PLUMBING AND ELECTRICAL CONTRACTOR.

9 TYPICAL FOOTING STEP
SCALE: N.T.S.



NEW YORK STATE OF OPPORTUNITY. **Office of General Services**
DESIGN & CONSTRUCTION
CONSULTANT
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
BUFFALO - CAPITAL DISTRICT - SYRACUSE - ROCHESTER
SUITE 220 - 460 LAKEFRONT BOULEVARD
BUFFALO, NEW YORK 14202
(716) 845-5092 FAX: (716) 845-6187
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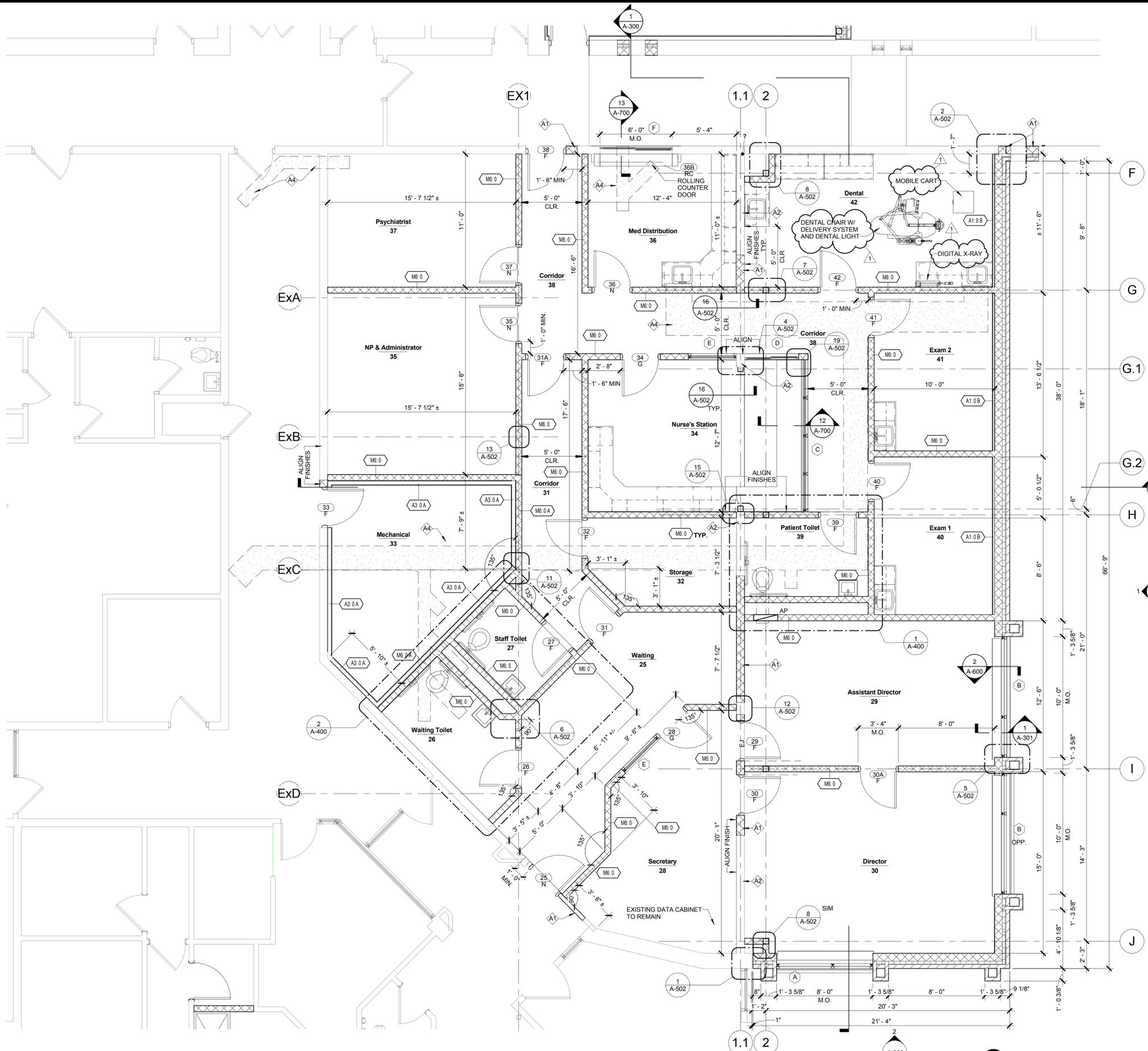
M Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

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CONTRACT: **CONSTRUCTION**
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
▲	02/04/16	ADDENDUM #1
	01/07/16	BID DOCUMENTS
PROJECT NUMBER:		45009 - C
DESIGNED BY:		MPP
DRAWN BY:		SNP
FIELD CHECK:		MPP
APPROVED:		CMD
SHEET TITLE: TYPICAL DETAILS		
DRAWING NUMBER: S-401		
SHEET 23 of 81		



General Architectural Notes

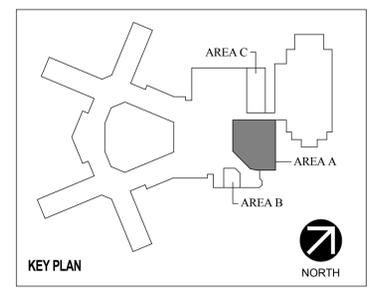
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- COORDINATE WORK OF THIS CONTRACT WITH THE WORK OF THE HVAC, PLUMBING, AND ELECTRICAL CONTRACTS. SPECIFICALLY, COORDINATE SUBMITTED, REVIEWED, AND APPROVED HVAC METAL DUCTWORK & DUCTWORK ACCESSORIES, PLUMBING SPRINKLERS HEAD SHOP DRAWINGS, AND ELECTRICAL LIGHTING & FIXTURES SHOP DRAWINGS WITH THE REQUIRED SHOP DRAWINGS FOR THE CEILING AS DESCRIBED HEREIN. PROVIDE ANY DETAILED COMMENTS AND/OR CHANGES TO THE HVAC, PLUMBING, AND ELECTRICAL SHOP DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR THEIR TRANSMITTAL TO THE HVAC, PLUMBING, AND ELECTRICAL CONTRACT SHOP DRAWING REVIEWERS FOR THEIR ACTION.
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- ALL EXPOSED STRUCTURAL STEEL TO BE PAINTED.

Construction Key Notes

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A5	INSTALL FRP PANELS FLOOR TO CEILING.
A6	INSTALL CONCRETE LEVELING BED AT CERAMIC TILE REMOVAL. PATCH WALLS TO MATCH EXISTING ADJACENT SURFACE.
A7	PATCH FLOOR FINISH TO MATCH EXISTING.

Drawings Symbol Legend

	WINDOW TYPE REFERENCE
	DOOR REFERENCE
	BUILDING SECTION REFERENCE
	WALL SECTION/ SECTION REFERENCE
	FLOOR ELEVATION REFERENCE
	ROOM INFORMATION TAG
	ROOF SLOPE
	WALL TYPE REFERENCE
	SLASH INDICATES DIMENSIONS FROM FACE TO FACE OF STUD
	M.O. INDICATES MASONRY OPENING DIMENSION
	ARROW INDICATES CLEAR DIMENSION FROM FINISH TO FINISH SURFACE
	ENLARGED PLAN/ DETAIL AREA REFERENCE
	INTERIOR/ EXTERIOR ELEVATION REFERENCE
	ACCESS PANEL
	INDICATION OF CENTER LINE

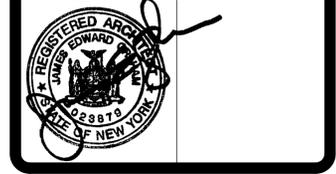


1 Partial Floor Plan - First Floor - Area A
1/4" = 1'-0"

DESIGN & CONSTRUCTION CONSULTANT:

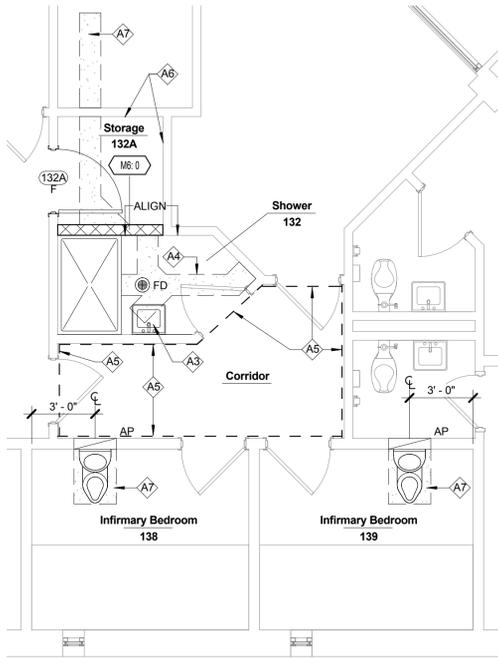
 162 Jay Street Schenectady, NY 12305 T: (518) 370-1576

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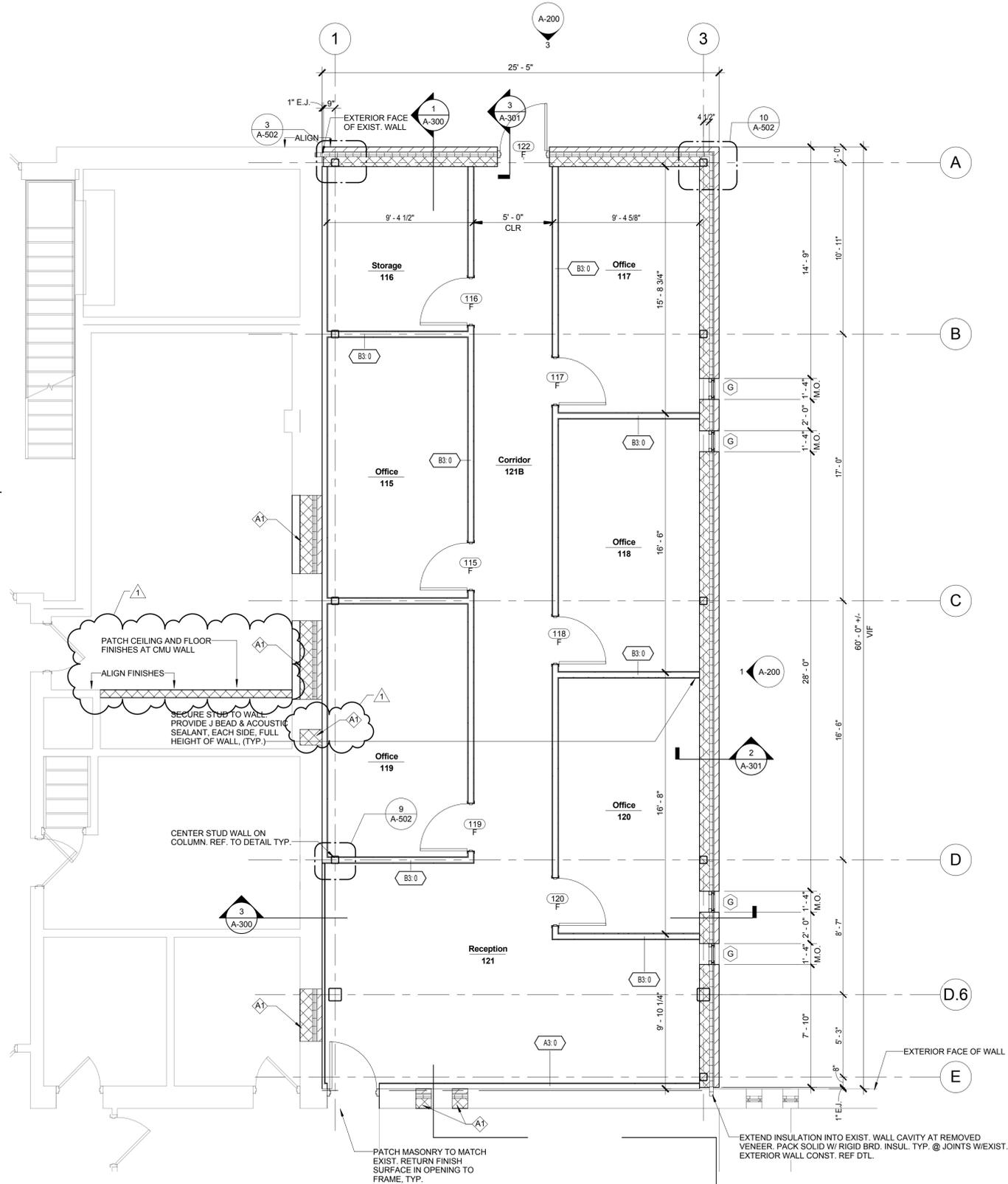


CONTRACT: CONSTRUCTION
 TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
 LOCATION: MACCORMICK SECURE CENTER
 300 SOUTH ROAD
 BROOKTONDALE, NY 14817
 CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS
PROJECT NUMBER:	45009-C	
DESIGNED BY:	MSE	
DRAWN BY:	MSE, AEG	
FIELD CHECK:		
APPROVED:	JG	
SHEET TITLE:	FLOOR PLANS - AREA A	
DRAWING NUMBER:	A-101	
SHEET	24	OF 81



1 Partial Floor Plan - First Floor - Area B
1/4" = 1'-0"



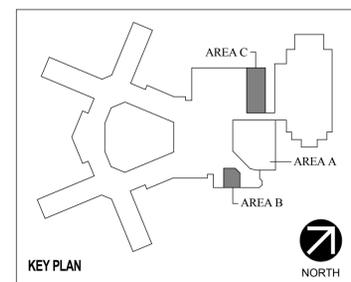
2 Partial Floor Plan - First Floor - Area C
1/4" = 1'-0"

General Architectural Notes

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DESIGN & CONSTRUCTION

CONSULTANT:
www.Synthesisllp.com
SYNTHESIS
182 Jay Street Schenectady, NY 12305 T: (518) 370-1576

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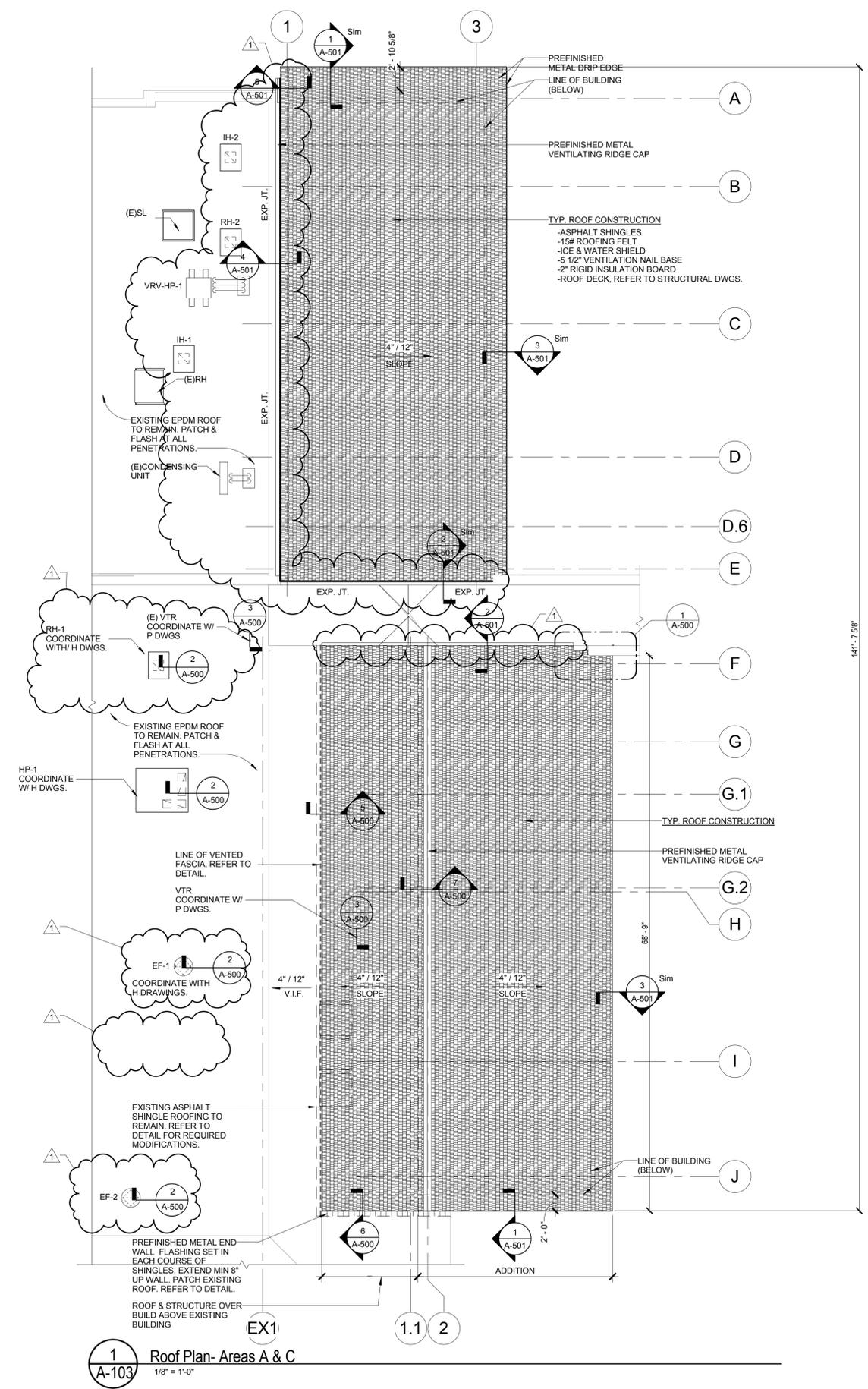
CONTRACT: CONSTRUCTION
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY 14817
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

PROJECT NUMBER:	45009-C	
DESIGNED BY:	MSE	
DRAWN BY:	MSE, AEG	
FIELD CHECK:		
APPROVED:	JG	
SHEET TITLE:	FLOOR PLANS - AREAS B & C	
DRAWING NUMBER:	A-102	
SHEET	25	OF 81

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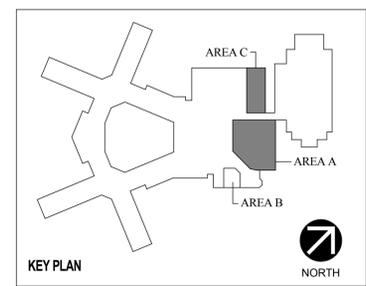
CONTRACT: **CONSTRUCTION**
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1 Roof Plan- Areas A & C
 A-103 1/8" = 1'-0"

ABBREVIATIONS:

RH	ROOF HATCH
RTU	ROOF TOP UNIT
EF	EXHAUST FAN
SL	SKY LIGHT
VTR	VENT THROUGH ROOF



MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS

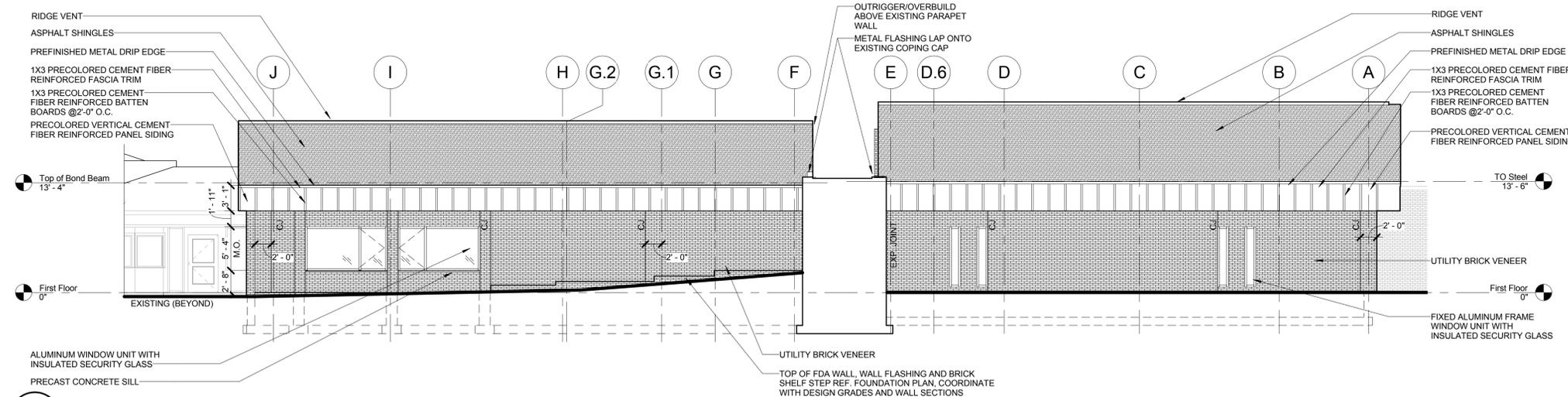
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DESIGNED BY: MSE
 DRAWN BY: MSE, AEG
 FIELD CHECK: []
 APPROVED: JG

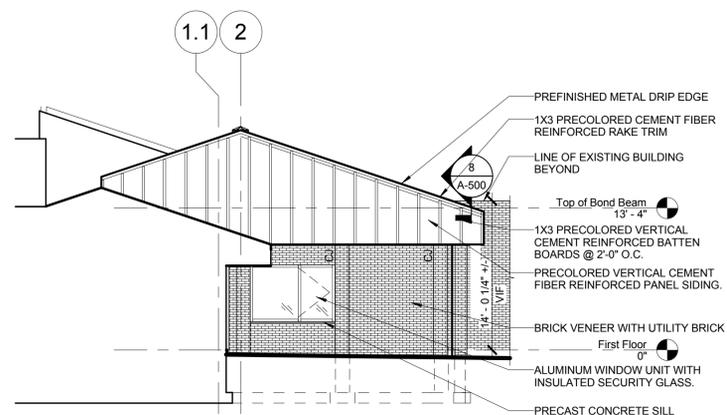
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DRAWING NUMBER: **A-103**

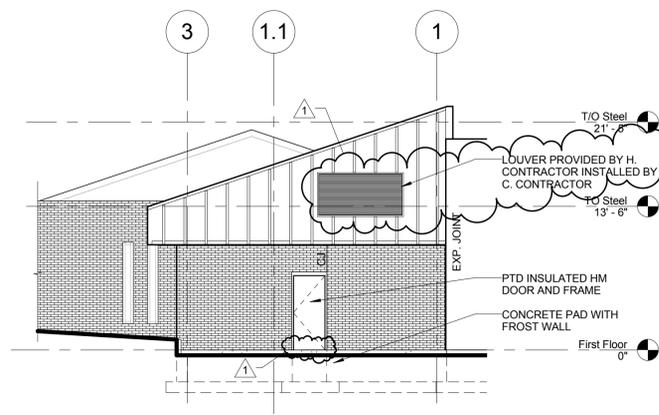
SHEET 26 OF 81



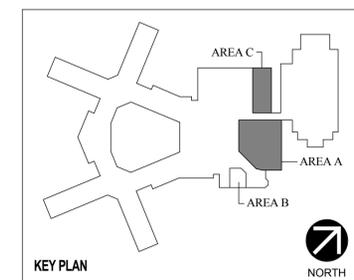
1 Elevation - Area A & C - Northeast
1/8" = 1'-0"



2 Elevation - Area A - Southeast
1/8" = 1'-0"



3 Elevation - Area C - Northwest
1/8" = 1'-0"



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DRAWN BY:		MSE, AEG
FIELD CHECK:		
APPROVED:		JG

EXTERIOR ELEVATIONS

DRAWING NUMBER:
A-200



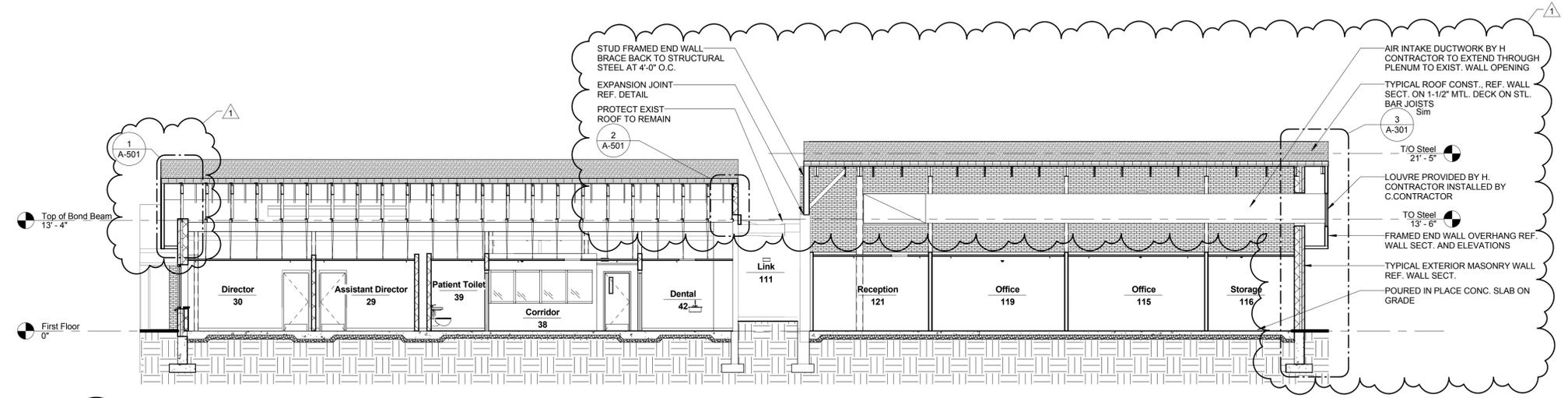
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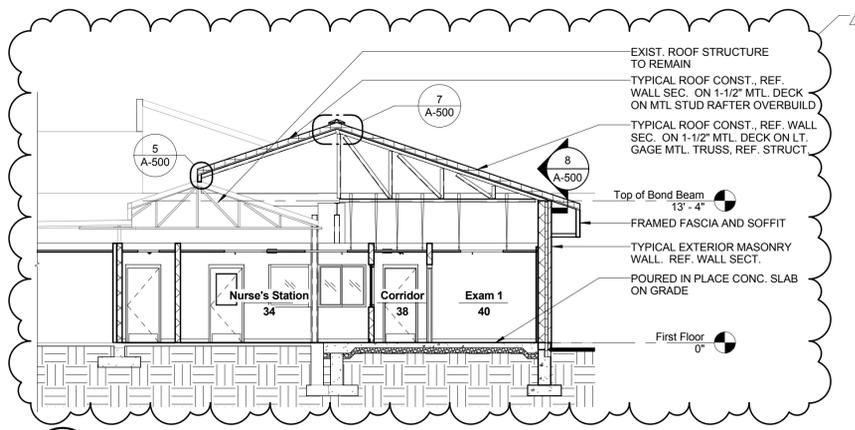
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LOCATION: MACCORMICK SECURE CENTER, 300 SOUTH ROAD, BROOKTONDALE, NY 14817
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

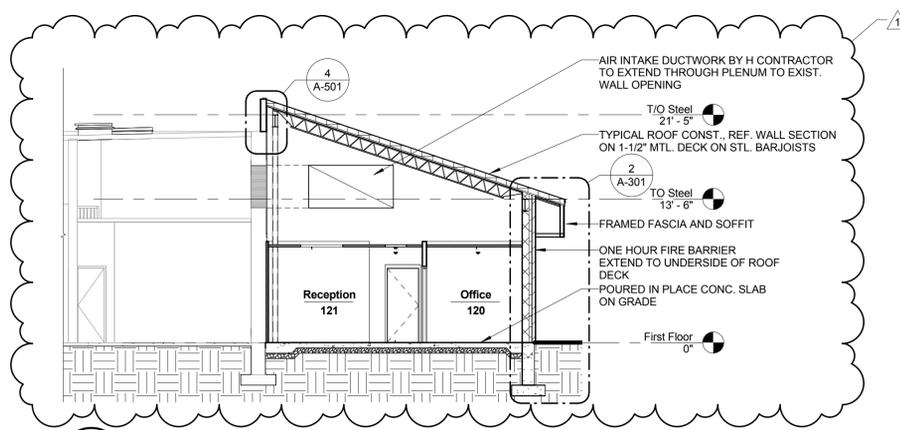
MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS
PROJECT NUMBER:		45009-C
DESIGNED BY:		MSE
DRAWN BY:		MSE, AEG
FIELD CHECK:		
APPROVED:		JG
SHEET TITLE: BUILDING SECTIONS		
DRAWING NUMBER: A-300		



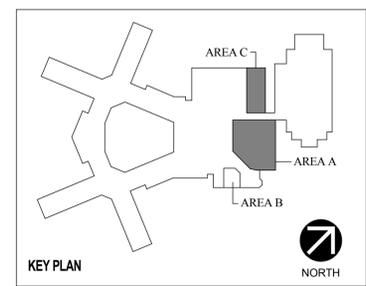
1 Building Section Area A & C
A-300 1/8" = 1'-0"



2 Building Section - Area A
A-300 1/8" = 1'-0"



3 Building Section - Area C
A-300 1/8" = 1'-0"





WARNING:
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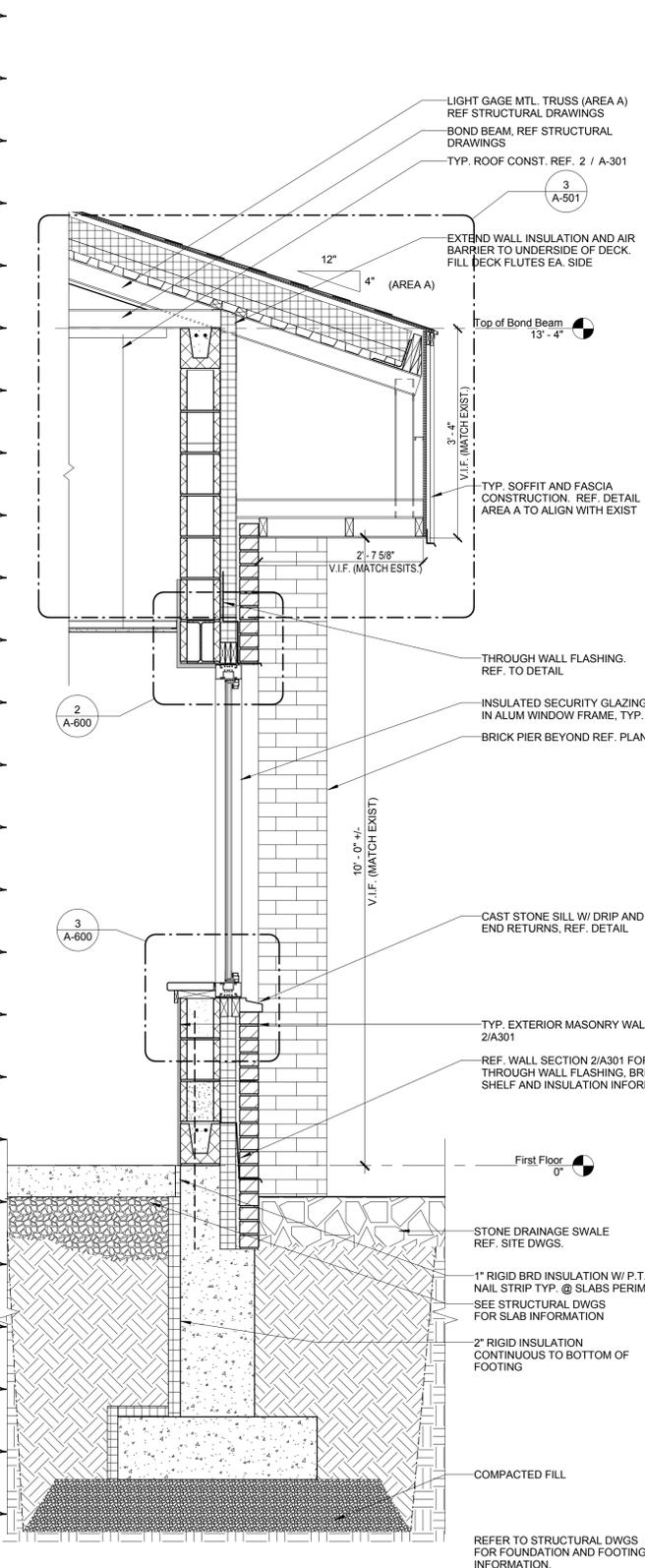
CONTRACT: **CONSTRUCTION**
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER, 300 SOUTH ROAD, BROOKTONDALE, NY 14817
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
⚠	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS

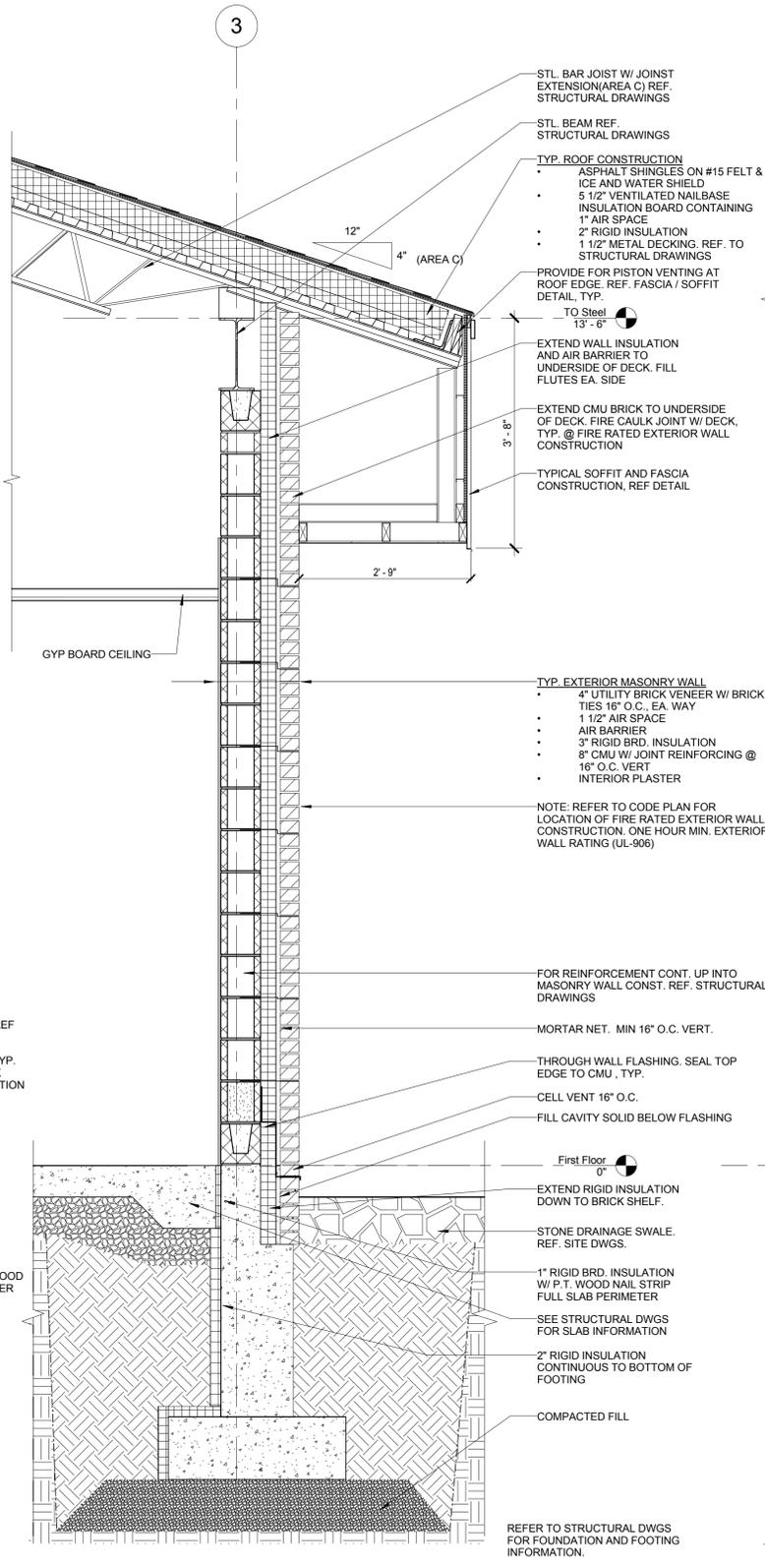
PROJECT NUMBER: **45009-C**
DESIGNED BY: MSE
DRAWN BY: MSE, AEG
FIELD CHECK:
APPROVED: JG

SHEET TITLE: **WALL SECTIONS**

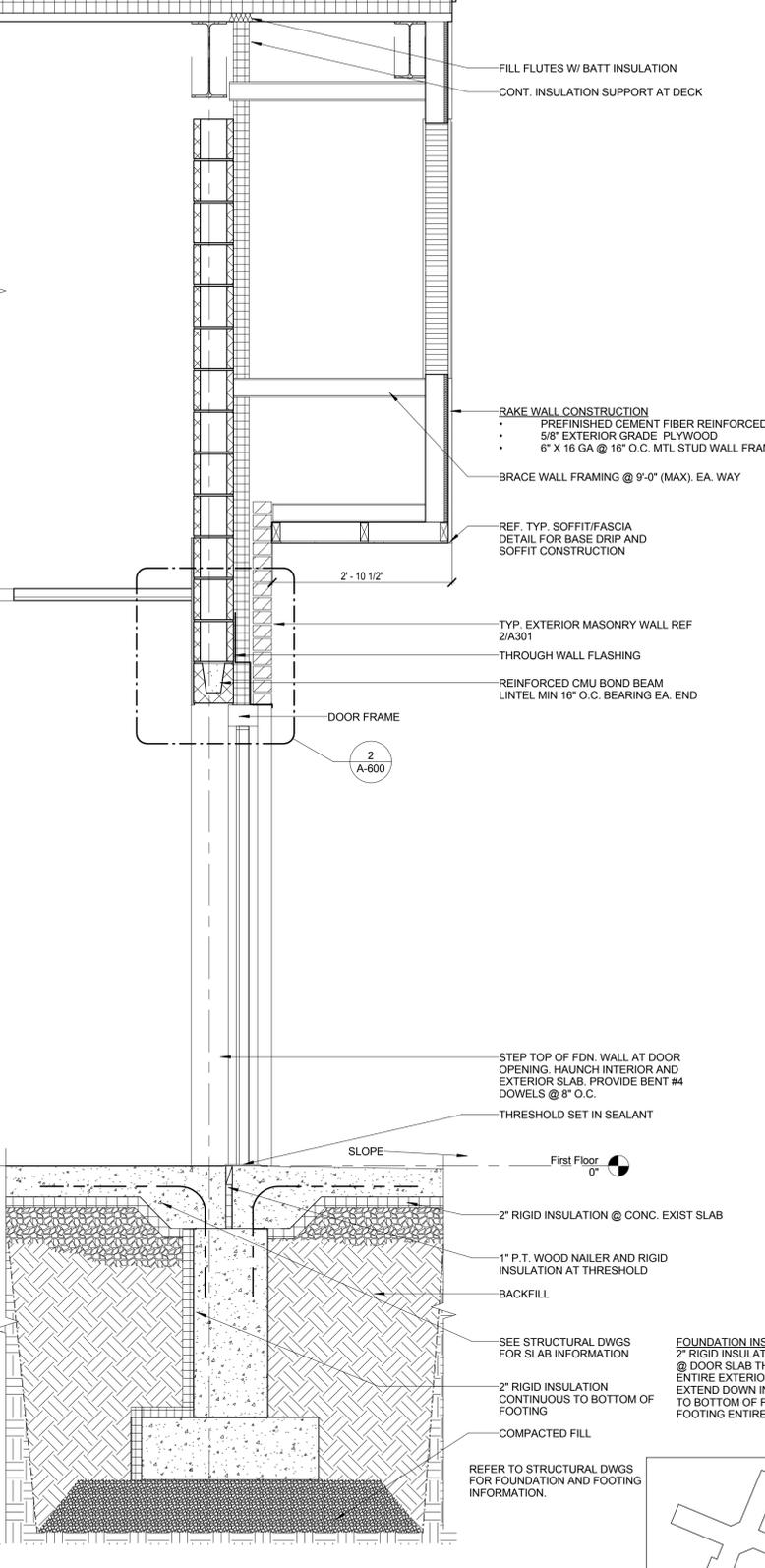
DRAWING NUMBER: **A-301**



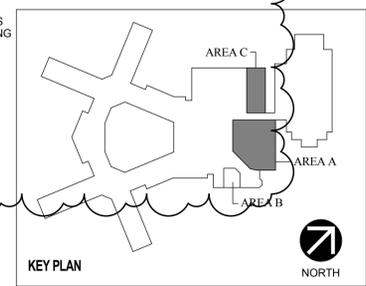
1 Wall Section - At Exterior Window (Area A, Area C Similar)
A-301 3/4" = 1'-0"



2 Typical Wall Section (Area c, Area A Similar)
A-301 3/4" = 1'-0"



3 Wall Section @ Rake
A-301 3/4" = 1'-0"



KEY PLAN NORTH

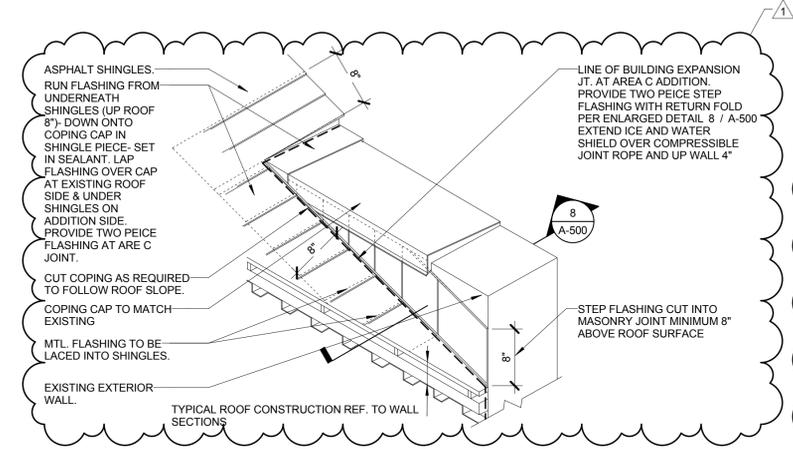
FOUNDATION INSULATION NOTE:
2" RIGID INSULATION TO BE CONT.
@ DOOR SLAB THROUGHOUT
ENTIRE EXTERIOR SLAB AREA AND
EXTEND DOWN INTERIOR OF WALL
TO BOTTOM OF FROST WALL
FOOTING ENTIRE PERIMETER.



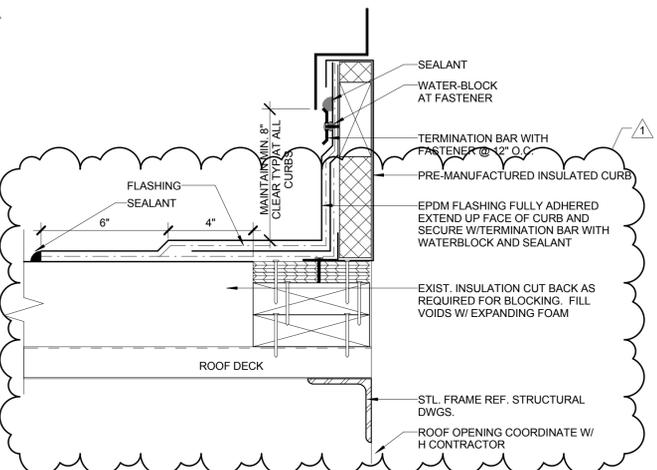
WARNING:
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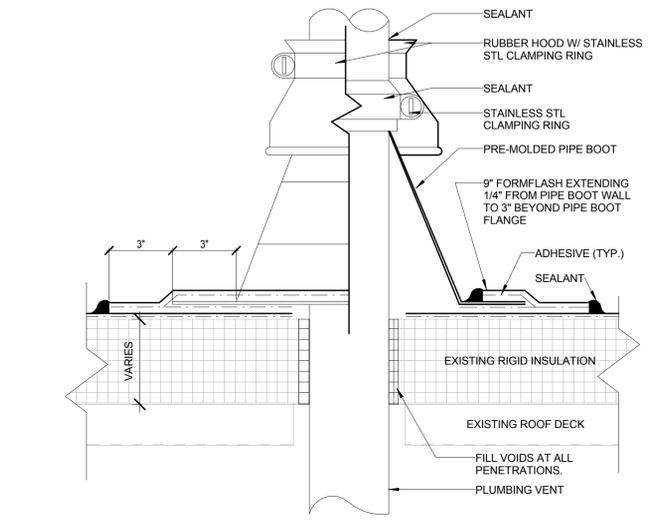
CONTRACT: CONSTRUCTION
TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE
LOCATION: MACCORMICK SECURE CENTER, 300 SOUTH ROAD, BROOKTONDALE, NY 14817
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES



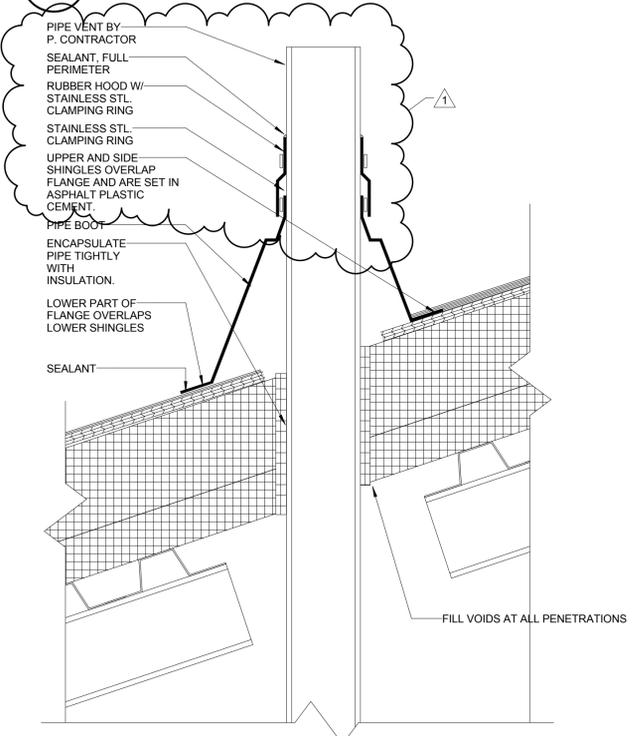
1 Sloped Roof @ Existing Parapet Wall Detail
A-500 1" = 1'-0"



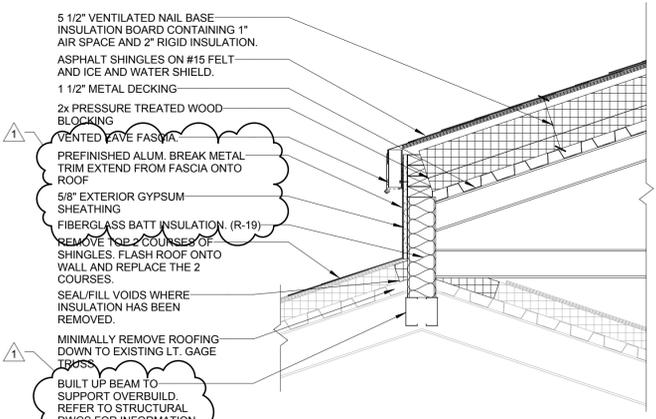
2 Mechanical Curb Detail
A-500 3" = 1'-0"



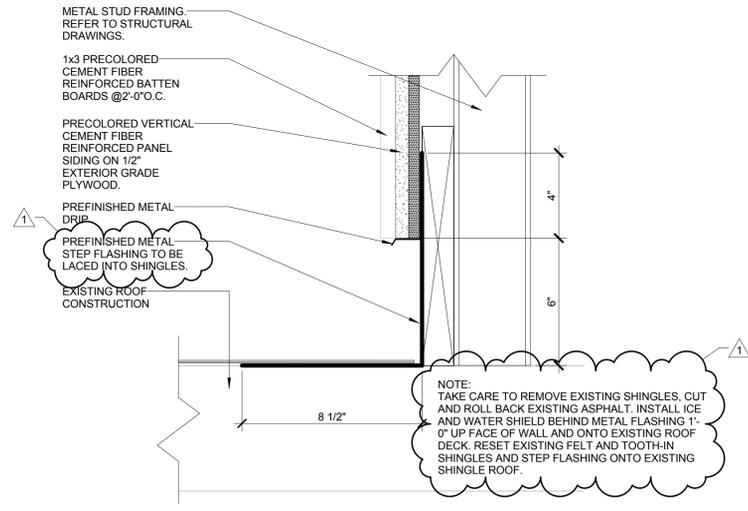
3 Pipe Flashing @ EPDM Detail
A-500 3" = 1'-0"



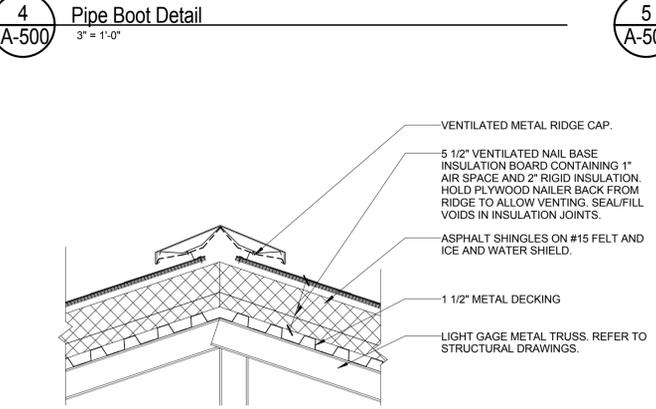
4 Pipe Boot Detail
A-500 3" = 1'-0"



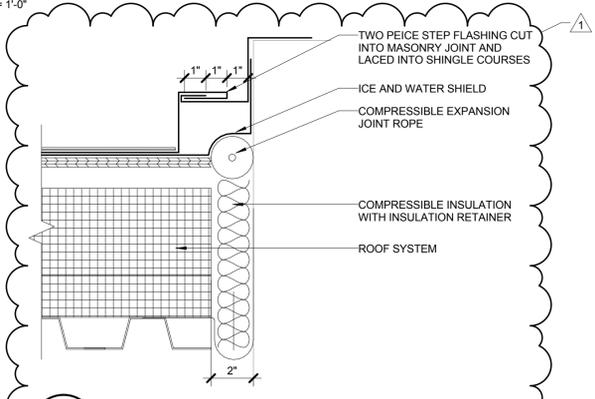
5 Enlarged Section - New Roof over Existing Roof
A-500 1" = 1'-0"



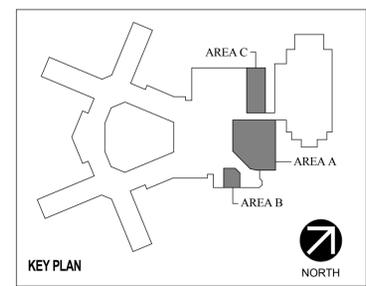
6 Base Wall Flashing at Existing Roof Shingle Detail
A-500 3" = 1'-0"



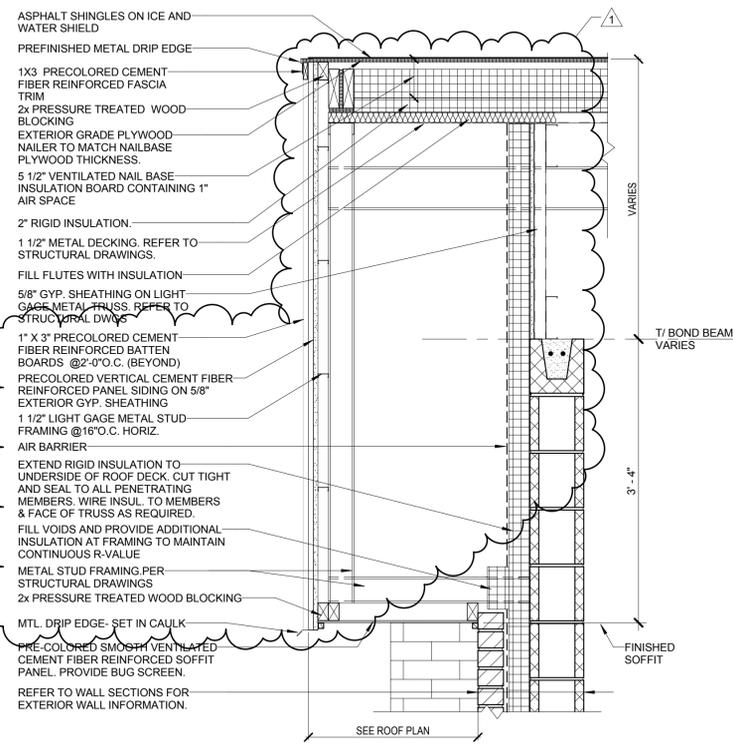
7 Ridge Vent Detail
A-500 1" = 1'-0"



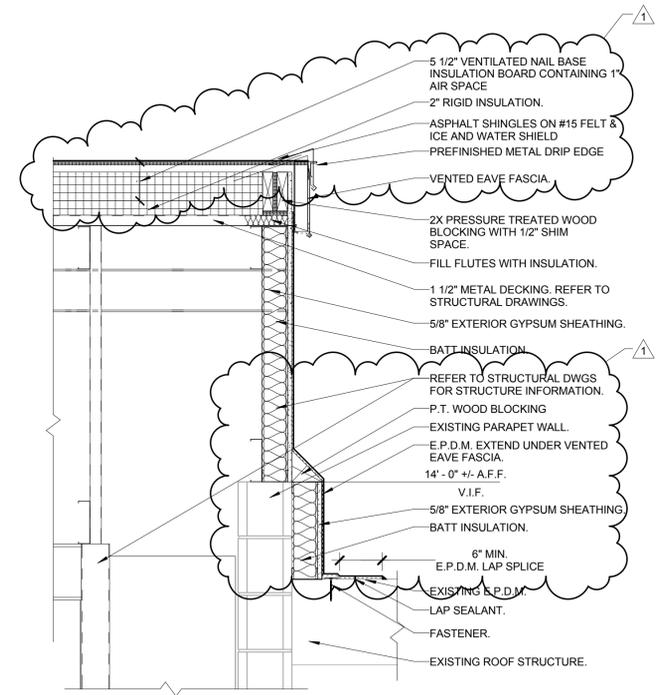
8 Detail - Expansion Joint @ Existing Parapet Wall
A-500 3" = 1'-0"



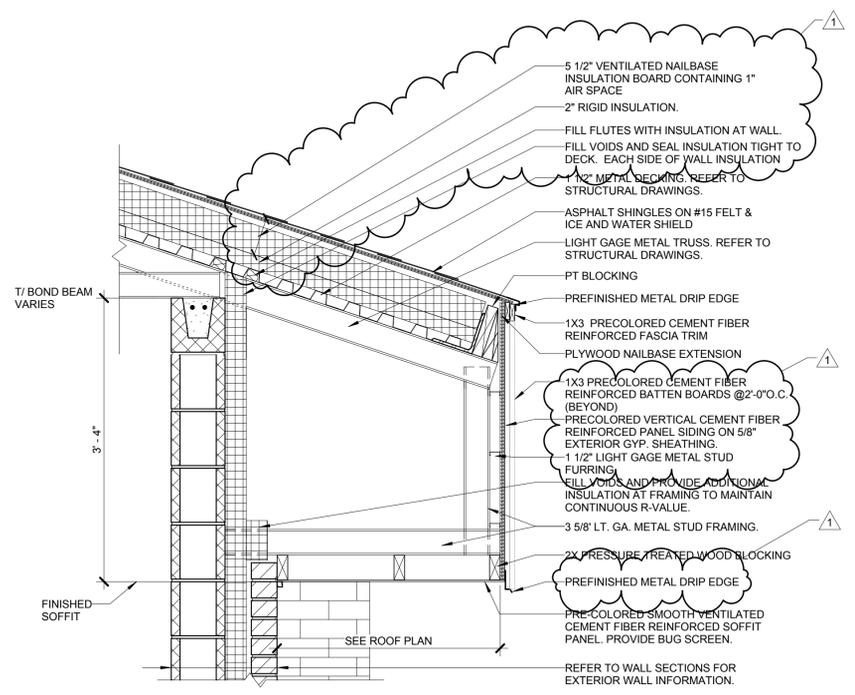
MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS
PROJECT NUMBER:		45009-C
DESIGNED BY:		MSE
DRAWN BY:		MSE, AEG
FIELD CHECK:		
APPROVED:		JG
SHEET TITLE: CONSTRUCTION DETAILS		
DRAWING NUMBER: A-500		
SHEET 34 OF 81		



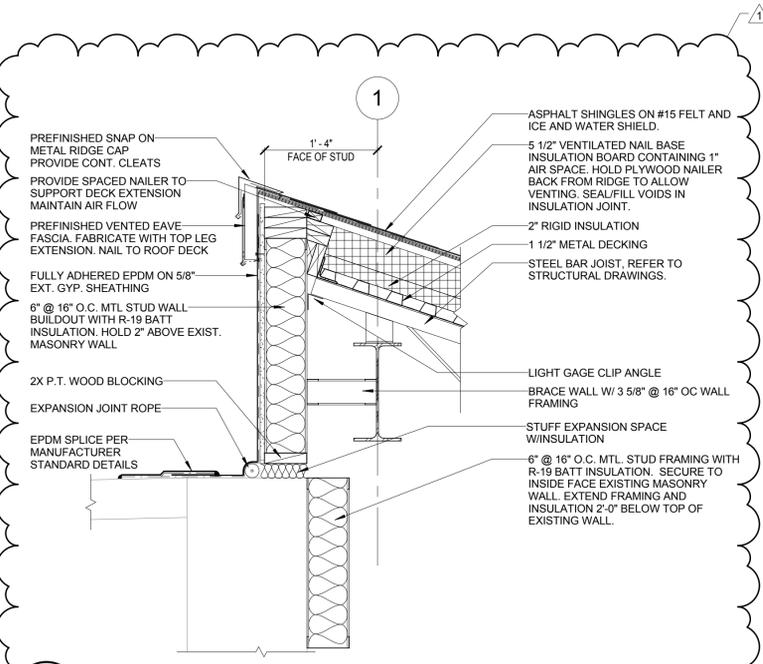
1 Enlarged Section - Roof Gable
 A-501 1" = 1'-0"



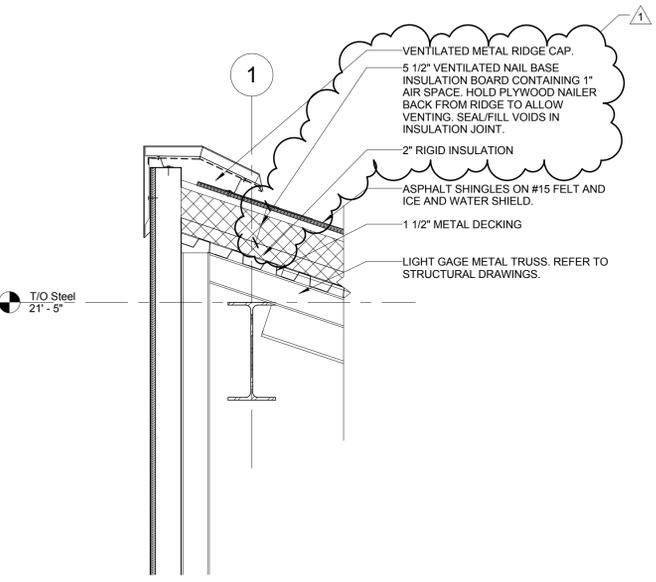
2 Enlarged Section - Area A - Roof at Existing Link
 A-501 1" = 1'-0"



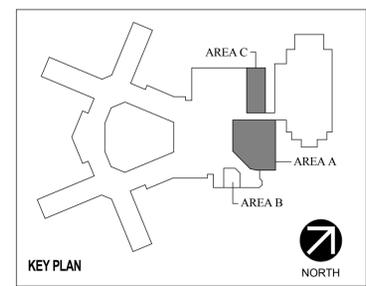
3 Enlarged Section - Roof Fascia
 A-501 1" = 1'-0"



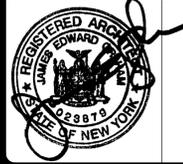
4 Enlarged Section - Roof Ridge
 A-501 1" = 1'-0"



5 Enlarged Section - Roof Connection
 A-501 1" = 1'-0"



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CONTRACT: CONSTRUCTION

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
 300 SOUTH ROAD
 BROOKTONDALE, NY 14817

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS

PROJECT NUMBER: 45009-C

DESIGNED BY: MSE

DRAWN BY: MSE, AEG

FIELD CHECK:

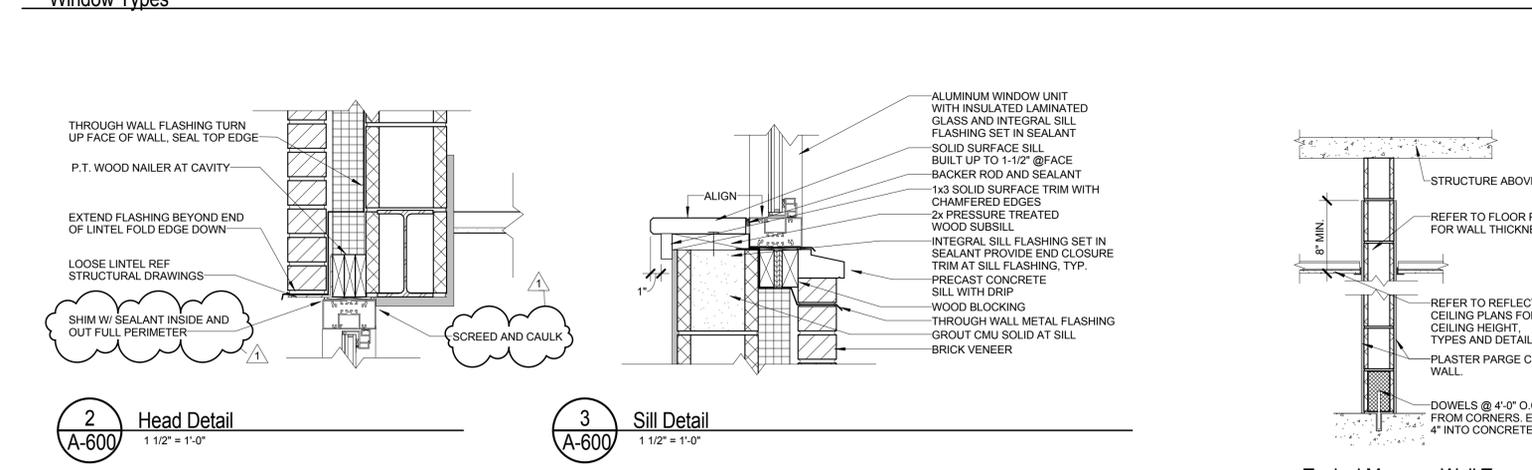
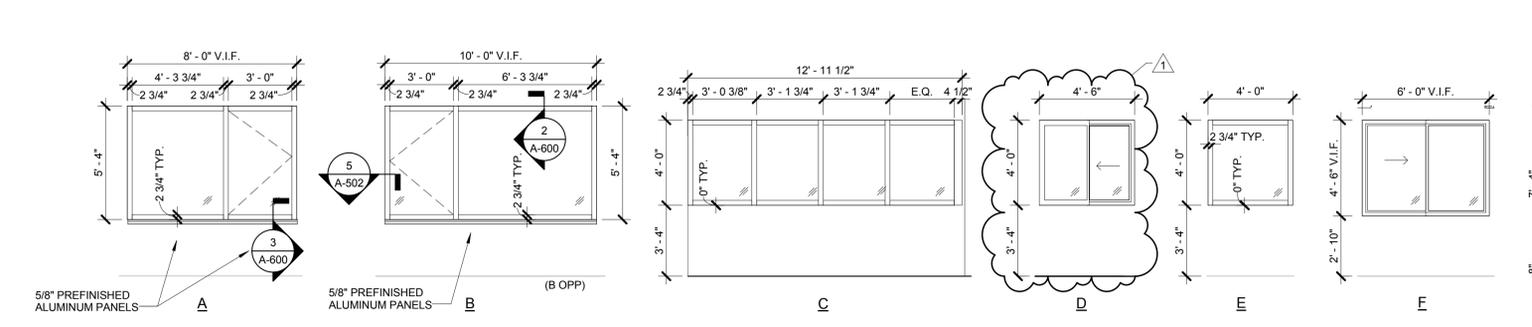
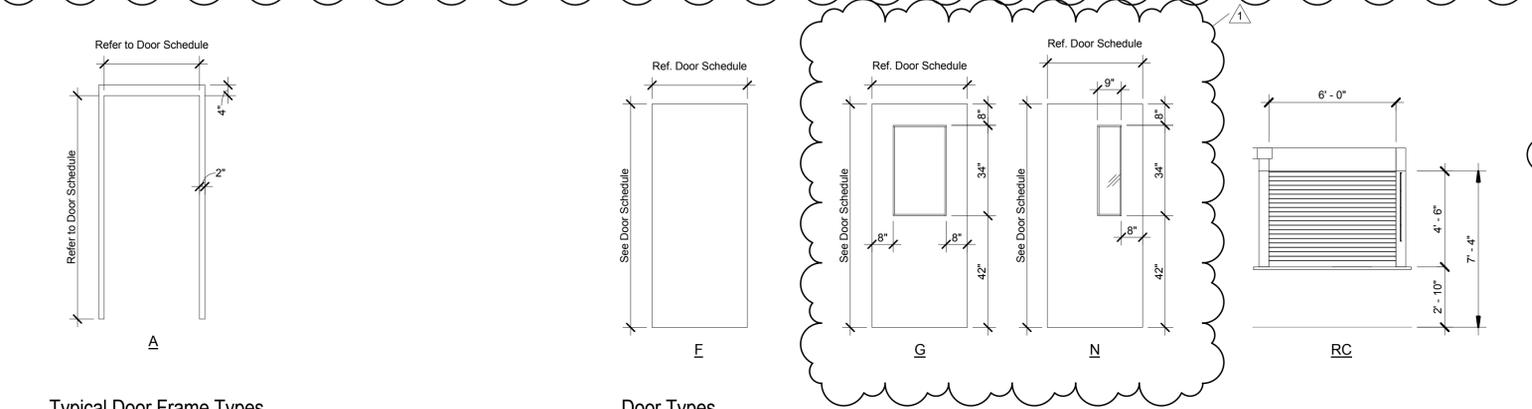
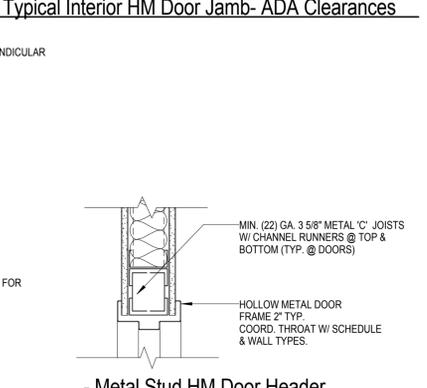
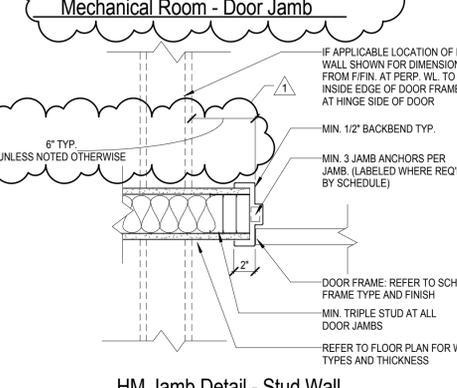
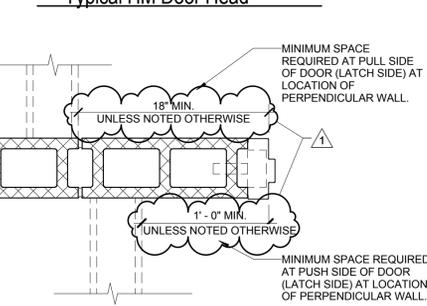
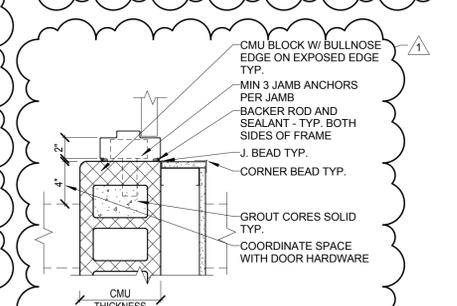
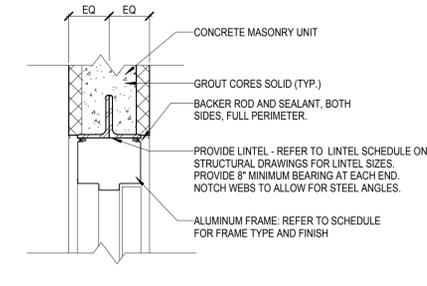
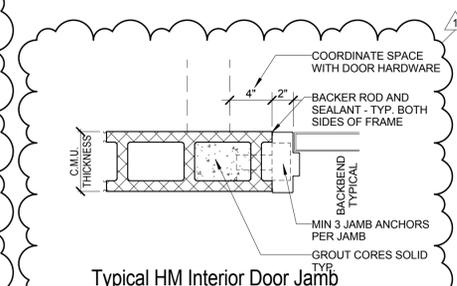
APPROVED: JG

SHEET TITLE: CONSTRUCTION DETAILS

DRAWING NUMBER: A-501

SHEET 35 OF 81

Door Schedule																		
Door Number	From Room Name	To Room Name	Door							Frame			Fire Rating	Comments				
			Door Type	Number of Leafs	Width	Height	Material	Finish	Kick Plate	HWGroup	Head	Jamb			Sill	Material	Finish	Frame Type
25	Waiting	Lobby	N	(1)	3'-0"	7'-0"	HM	PT	X	5	4"	2"	-	HM	PT	A	45 min.	
26	Waiting Toilet	Waiting	F	(1)	3'-0"	7'-0"	HM	PT	X	2	4"	2"	-	HM	PT	A		
27	Corridor	Staff Toilet	F	(1)	3'-0"	7'-0"	HM	PT	X	2	4"	2"	-	HM	PT	A		
28	Waiting	Secretary	G	(1)	3'-0"	7'-0"	HM	PT	X	7	4"	2"	-	HM	PT	A		
29	Assistant Director	Secretary	F	(1)	3'-0"	7'-0"	HM	PT	X	4	4"	2"	-	HM	PT	A		
30	Secretary	Director	F	(1)	3'-0"	7'-0"	HM	PT	X	4	4"	2"	-	HM	PT	A		
30A	Director	Assistant Director	F	(1)	3'-0"	7'-0"	HM	PT	X	4	4"	2"	-	HM	PT	A		
31	Waiting	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	5	4"	2"	-	HM	PT	A		
31A	Corridor	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	8	4"	2"	-	HM	PT	A		
32	Corridor	Storage	F	(1)	3'-0"	7'-0"	HM	PT	X	6	4"	2"	-	HM	PT	A		
33	Corridor	Mechanical	F	(1)	3'-0"	7'-0"	HM	PT	X	6	4"	2"	-	HM	PT	A	45 min.	
34	Corridor	Nurse's Station	G	(1)	3'-0"	7'-0"	HM	PT	X	3	4"	2"	-	HM	PT	A		
35	Corridor	NP & Administrator	N	(1)	3'-0"	7'-0"	HM	PT	X	1	4"	2"	-	HM	PT	A		
36	Corridor	Med Distribution	N	(1)	3'-0"	7'-0"	HM	PT	X	6	4"	2"	-	HM	PT	A		
36B	Med Distribution	Link	RC	-	6'-0"	4'-6"	MFR	MFR	-	-	-	-	-	MFR	MFR	-	As Specified in 08 36 00	
37	Corridor	Psychiatrist	N	(1)	3'-0"	7'-0"	HM	PT	X	4	4"	2"	-	HM	PT	A	45 min.	
38	Link	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	5	4"	2"	-	HM	PT	A		
39	Corridor	Patient Toilet	F	(1)	3'-0"	7'-0"	HM	PT	X	1	4"	2"	-	HM	PT	A		
40	Corridor	Exam 1	F	(1)	3'-0"	7'-0"	HM	PT	X	1	4"	2"	-	HM	PT	A		
41	Corridor	Exam 2	F	(1)	3'-0"	7'-0"	HM	PT	X	1	4"	2"	-	HM	PT	A		
42	Corridor	Dental	F	(1)	3'-0"	7'-0"	HM	PT	X	3	4"	2"	-	HM	PT	A		
115	Corridor	Office	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
116	Corridor	Storage	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
117	Office	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
118	Office	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
119	Office	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
120	Office	Reception	F	(1)	3'-0"	7'-0"	HM	PT	X	1	2"	2"	-	HM	PT	A		
121	Link	Reception	F	(1)	3'-0"	7'-0"	HM	PT	-	5	4"	2"	-	HM	PT	A	90 min.	
122	Exterior	Corridor	F	(1)	3'-0"	7'-0"	HM	PT	-	9	4"	2"	-	HM	PT	A		
132A	Corridor	Storage	F	(1)	3'-0"	7'-0"	HM	PT	X	6	4"	2"	-	HM	PT	A		



Wall Type Legend	
Partition Type:	Modifiers:
A#: GWB - (1) Layer, (1) Side	A: Continue Wall in its Entirety to Underside of Structure.
B#: GWB - (1) Layer, (2) Sides	B: No Batt Insulation
C#: Concrete - Refer to Struct. Drawings	
F#: Metal Furring	
M#: Masonry CMU	
S#: Gypsum Shaft Wall	
Metal Stud Wall Size Indicators:	Shaft Wall Size Indicators:
1: 1 5/8" Stud	4: 4" Stud
2: 2 1/2" Stud	
3: 3 5/8" Stud	
6: 6" Stud	
CMU Wall Size Indicators:	Shaft Wall Size Indicators:
4: 4 5/8" CMU	2: 1 1/2" Furring
5: 5 5/8" CMU	
8: 7 5/8" CMU	
Required Rating:	Design #:
0 = NO RATING	N/A
1 = 1 HOUR	UL DESIGN # U906
2 = 2 HOUR	UL DESIGN # U905

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT: **SYNTHESIS** www.Synthesisllp.com
162 Jay Street Schenectady, NY 12305 T: (518) 370-1576

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REGISTERED ARCHITECT
EDWARD J. ...
STATE OF NEW YORK

CONTRACT: **CONSTRUCTION**

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY 14817

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS

PROJECT NUMBER: **45009-C**

DESIGNED BY: MSE

DRAWN BY: MSE, AEG

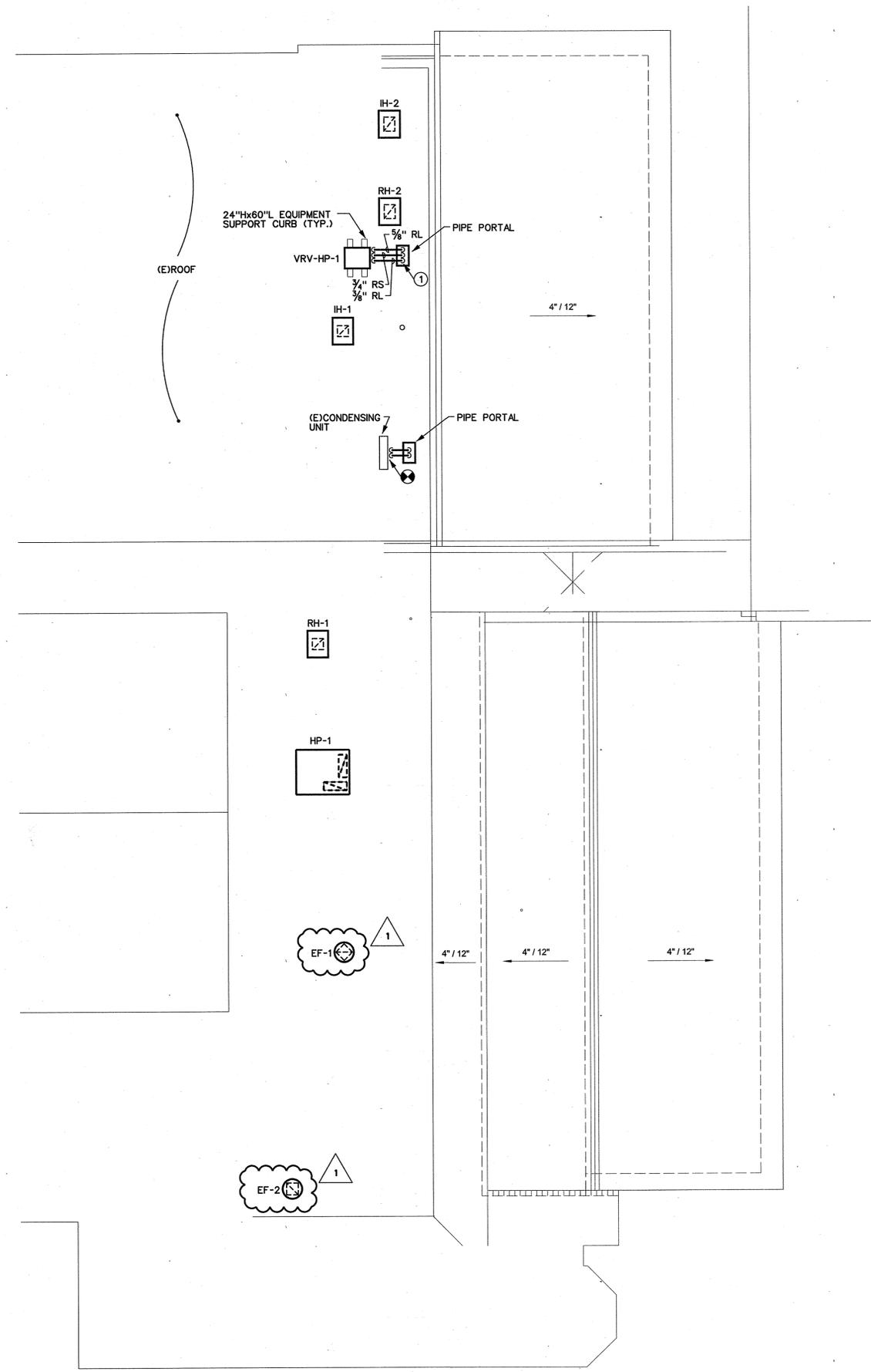
FIELD CHECK:

APPROVED: JG

SHEET TITLE: **DOOR SCHEDULES, DOOR AND WINDOW TYPES, WALL TYPES AND DETAILS**

DRAWING NUMBER: **A-600**

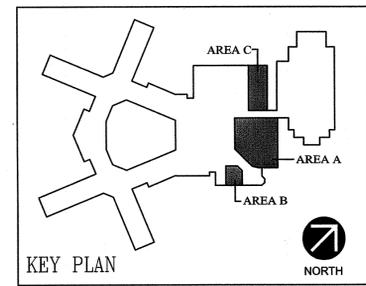
SHEET 37 OF 81



DRAWING NOTES:

- ① 3/8" RL, 5/8" RL AND 3/4" RS DN THROUGH MEZZANINE SPACE TO BS-1 IN CEILING SPACE ABOVE OFFICE 115. REFER TO DRAWING M-103.

1
M-104 ROOF PLAN - HVAC
1/8" = 1'-0"



WARNING:
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CONTRACT: HVAC

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS

PROJECT NUMBER: **45009 - H**

DESIGNED BY: JCB

DRAWN BY: RBE

FIELD CHECK:

APPROVED:

SHEET TITLE: ROOF PLAN - HVAC

DRAWING NUMBER: M-104

SHEET 43 OF 81

WARNING:
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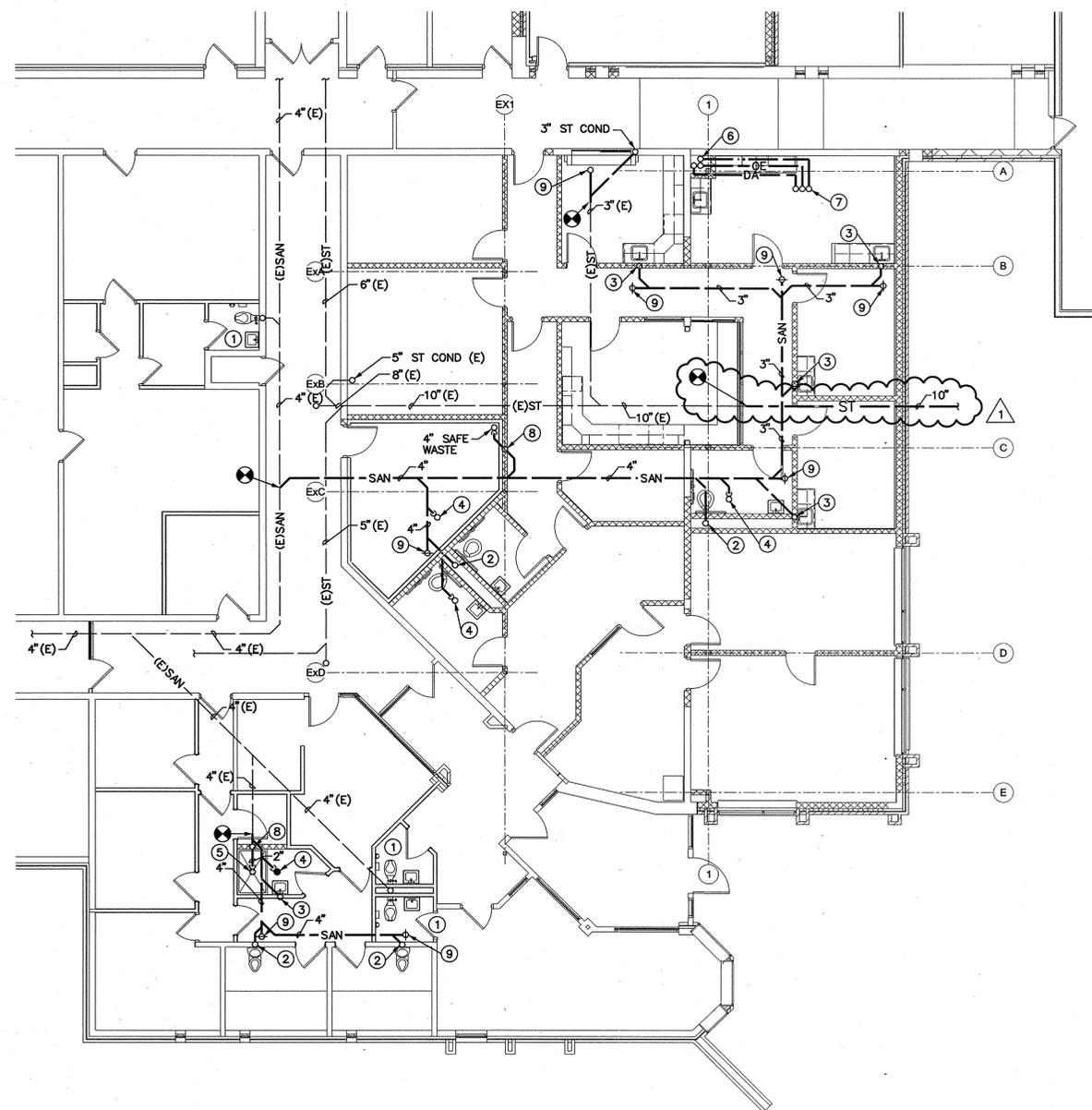


CONTRACT: PLUMBING

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

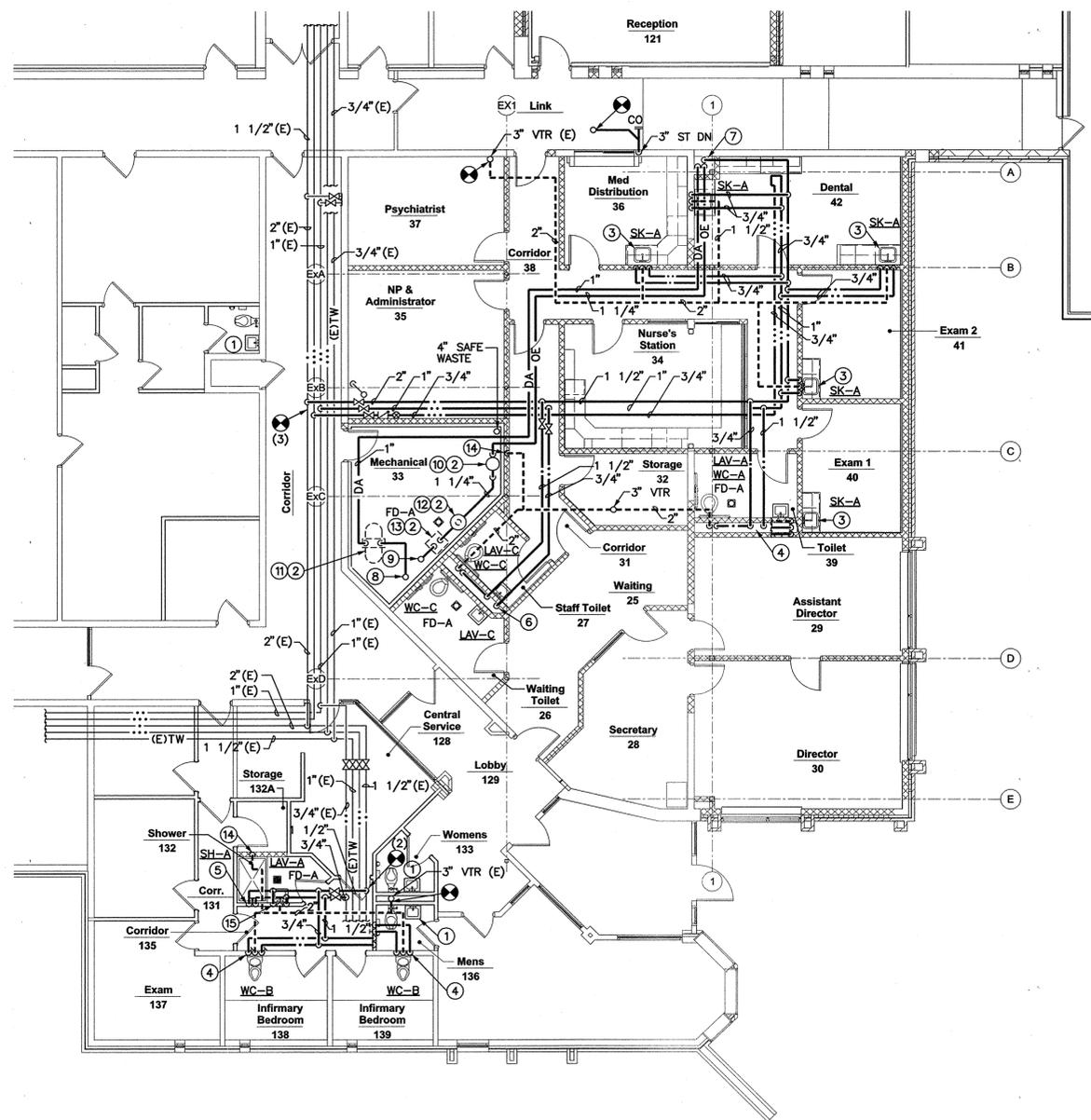
CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES



1 Underground - Area A & B - Plumbing
P-102 1/8" = 1'-0"

DRAWING NOTES:

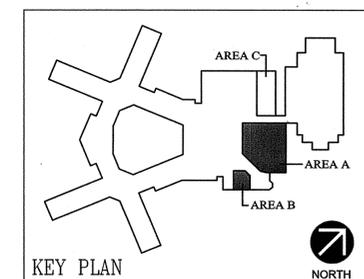
- ① FIXTURE(S) TO REMAIN.
- ② 4" SAN UP.
- ③ 2" SAN UP.
- ④ 3" SAN UP TO FD WITH P-TRAP.
- ⑤ 2" SAN UP TO SHOWER DRAIN WITH P-TRAP.
- ⑥ 1" DA, 1 1/4" OE AND 3/4" CW FROM ABOVE.
- ⑦ 1" DA, 1 1/4" OE AND 3/4" CW UP TO DENTAL CHAIR. COORDINATE EXACT LOCATION IN FIELD.
- ⑧ 2" VENT UP.
- ⑨ UP TO CODP.



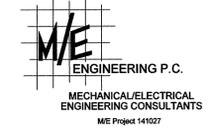
2 Floor Plan - Area A & B - Plumbing
P-102 1/8" = 1'-0"

DRAWING NOTES:

- ① FIXTURE(S) TO REMAIN.
- ② DENTAL EQUIPMENT PROVIDED BY OTHERS. PC SHALL MAKE FINAL PLUMBING CONNECTIONS.
- ③ 3/4" CW, 3/4" DHW AND 2" VENT DOWN.
- ④ 1" CW, 3/4" DHW AND 2" VENT DOWN.
- ⑤ 3/4" CW AND 3/4" DHW DOWN.
- ⑥ 1 1/2" CW, 3/4" DHW AND 2" VENT DOWN.
- ⑦ 1" DA, 1 1/4" OE AND 3/4" CW DOWN.
- ⑧ 4" COMPRESSED AIR INTAKE UP THRU ROOF.
- ⑨ 4" VACUUM EXHAUST UP THRU ROOF.
- ⑩ AMALGAM SEPARATOR BY OTHERS. TERMINATE 3" AMALGAM SEPARATOR DRAIN ABOVE 4" SAFE WASTE WITH AIR GAP.
- ⑪ DENTAL AIR COMPRESSOR BY OTHERS.
- ⑫ VACUUM ACCUMULATOR TANK BY OTHERS.
- ⑬ VACUUM PUMP BY OTHERS.
- ⑭ 2" VENT FROM BELOW.
- ⑮ 3/4" CW, 3/4" DHW AND 1 1/2" VENT DOWN.



MARK	DATE	DESCRIPTION
△	02/04/2016	ADDENDUM No. 1
	01/07/2016	BID DOCUMENTS
PROJECT NUMBER:	45009 - P	
DESIGNED BY:	S/JZ	
DRAWN BY:	S/JZ	
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	FLOOR PLAN AREA A & B PLUMBING	
DRAWING NUMBER:	P-102	
SHEET	76	OF 81



WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

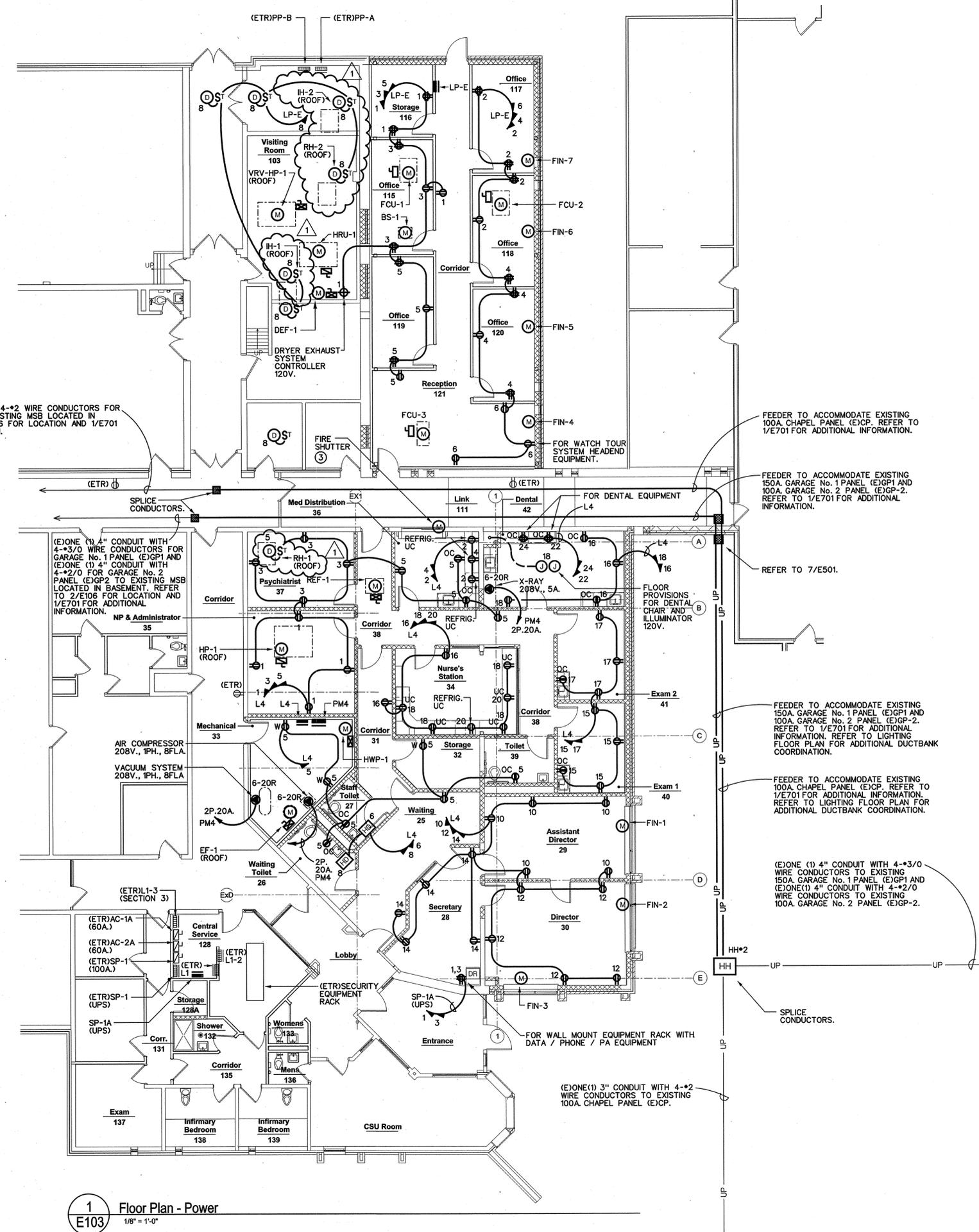


CONTRACT: **ELECTRICAL**

TITLE: PROVIDE MEDICAL/DENTAL AND OFFICE SPACE

LOCATION: MACCORMICK SECURE CENTER
300 SOUTH ROAD
BROOKTONDALE, NY

CLIENT: OFFICE OF CHILDREN AND FAMILY SERVICES



(E)ONE (1) 3" CONDUIT WITH 4-#2 WIRE CONDUCTORS FOR CHAPEL PANEL (E)CP TO EXISTING MSB LOCATED IN BASEMENT. REFER TO 2/E106 FOR LOCATION AND 1/E701 FOR ADDITIONAL INFORMATION.

(E)ONE (1) 4" CONDUIT WITH 4-#3/0 WIRE CONDUCTORS FOR GARAGE No. 1 PANEL (E)GP1 AND (E)ONE (1) 4" CONDUIT WITH 4-#2/0 FOR GARAGE No. 2 PANEL (E)GP2 TO EXISTING MSB LOCATED IN BASEMENT. REFER TO 2/E106 FOR LOCATION AND 1/E701 FOR ADDITIONAL INFORMATION.

FEEDER TO ACCOMMODATE EXISTING 100A CHAPEL PANEL (E)CP. REFER TO 1/E701 FOR ADDITIONAL INFORMATION.

FEEDER TO ACCOMMODATE EXISTING 150A GARAGE No. 1 PANEL (E)GP1 AND 100A GARAGE No. 2 PANEL (E)GP-2. REFER TO 1/E701 FOR ADDITIONAL INFORMATION.

FEEDER TO ACCOMMODATE EXISTING 150A GARAGE No. 1 PANEL (E)GP1 AND 100A GARAGE No. 2 PANEL (E)GP-2. REFER TO 1/E701 FOR ADDITIONAL INFORMATION. REFER TO LIGHTING FLOOR PLAN FOR ADDITIONAL DUCTBANK COORDINATION.

FEEDER TO ACCOMMODATE EXISTING 100A CHAPEL PANEL (E)CP. REFER TO 1/E701 FOR ADDITIONAL INFORMATION. REFER TO LIGHTING FLOOR PLAN FOR ADDITIONAL DUCTBANK COORDINATION.

(E)ONE (1) 4" CONDUIT WITH 4-#3/0 WIRE CONDUCTORS TO EXISTING 150A GARAGE No. 1 PANEL (E)GP1 AND (E)ONE (1) 4" CONDUIT WITH 4-#2/0 WIRE CONDUCTORS TO EXISTING 100A GARAGE No. 2 PANEL (E)GP-2.

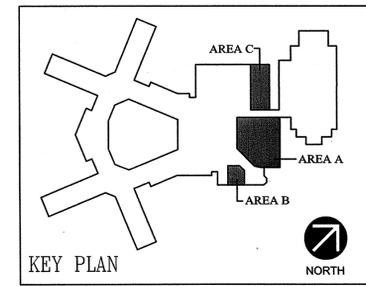
(E)ONE (1) 3" CONDUIT WITH 4-#2 WIRE CONDUCTORS TO EXISTING 100A CHAPEL PANEL (E)CP.

GENERAL NOTES:

- A. REFER TO DRAWING E001 FOR GENERAL NOTES WHICH APPLY TO ALL DRAWINGS.
- B. PROVIDE GREEN GROUND WIRE IN ALL BRANCH CIRCUITS SIZED PER N.E.C.
- C. EACH BRANCH CIRCUIT SHALL HAVE ITS OWN DEDICATED NEUTRAL CONDUCTOR. NO TRUNKING OF BRANCH CIRCUITS ON A COMMON NEUTRAL.
- D. REFER TO DRAWING E601 FOR PANELBOARD SCHEDULES.
- E. REFER TO DRAWING E601 FOR ELECTRICAL MECHANICAL EQUIPMENT AND CONTROL SCHEDULE.

DRAWING NOTES:

- ① HOMERUN CIRCUIT BREAKERS SHALL BE G.F.C.I. TYPE.
- ② EXTEND TWO(2) PANEL FEEDERS TO ACCOMMODATE EXISTING GARAGE No. 1 PANEL (GP1) AND GARAGE No. 2 PANEL (GP2) AS NECESSARY TO ACCOMMODATE ARCHITECTURAL RECONSTRUCTION. REFER TO 1/E701 FOR ADDITIONAL INFORMATION.
- ③ PROVIDE COMPLETE ELECTRICAL CONNECTION TO ACCOMMODATE FIRE SHUTTER. CONNECT TO EXISTING 120 VOLT EMERGENCY CIRCUIT PRESENTLY SERVING THIS AREA.



1 Floor Plan - Power
E103 1/8" = 1'-0"

PROJECT NUMBER:	45009 - E	
DESIGNED BY:		
DRAWN BY:		
FIELD CHECK:		
APPROVED:		
SHEET TITLE:	FLOOR PLAN - POWER	
DRAWING NUMBER:	E-103	
SHEET	53	of 81