



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

ADDENDUM NO. 6 TO PROJECT NO. 47688

**CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK
PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS
CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NY**

July 24, 2026

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.
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GENERAL REQUIREMENTS - COMMON

1. SECTION 015000 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 015000 – 1 thru 015000 – 8) noted “Addendum No. 6.”

CONSTRUCTION WORK - SPECIFICATIONS

2. SECTION 081102 STEEL DOORS AND FRAMES: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 081102 – 1 thru 081102 – 10) noted “Addendum No. 6.”
3. SECTION 102600 WALLS AND DOOR PROTECTION: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 102600 – 1 thru 102600 – 7) noted “Addendum No. 6.”
4. SECTION 310000 EARTHWORK: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 310000 – 1 thru 310000 – 20) noted “Addendum No. 6.”

GENERAL WORK DRAWINGS

5. Revised Drawing:
 - a. Drawing No. G-001 noted Addendum 6, dated 7/20/2026, accompanies this Addendum supersedes the same numbered previously issued drawing.

CONSTRUCTION WORK DRAWINGS

6. Revised Drawings:
 - a. Drawing Nos. C-102, C-105, C-311, A-001, A-202, A-350, A-600, and A-800 noted Addendum 6, dated 7/20/2026, accompanies this Addendum supersedes the same numbered previously issued drawings.

ELECTRICAL WORK DRAWINGS

7. Revised Drawings:
 - a. Drawing Nos. E-002, E-004, E-005, E-007, SE-001, and SE-501 noted Addendum 6, dated 7/20/2026, accompanies this Addendum supersedes the same numbered previously issued drawing.

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 015000

CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

PART 1 GENERAL

1.01 DESCRIPTION

- A. Provide construction facilities and temporary controls necessary for the Work, unless otherwise indicated.
 - 1. The construction facilities and temporary controls specified to be provided by a particular Contract shall be kept operational by that Contractor for the Work of all related Contracts at all times Work is being performed by a Contractor.
 - 2. The construction facilities and temporary controls specified to be provided by a particular Contractor shall be installed as soon after award of the Contract as necessary to enable the Work of each Contract to proceed on schedule, and maintained until completion of the Work of all related Contracts unless otherwise directed in writing.
 - 3. Any Contractor who requires additions to the construction facilities and temporary controls specified to be provided by another Contractor, shall provide and maintain them.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Construction Heat and Temporary Heat: Section 015123.

1.03 TEMPORARY LIGHT AND POWER

- A. E-Contractor is responsible for providing temporary power to adjacent Buildings 19 & 61.
 - 1. Coordinate with G-001, C-102, and E-005 for generator locations and loading requirements. Protect connection between generator and building from foot traffic and weather.
 - 2. Coordinate connection to buildings 19 and 61 with director's representative.
 - 3. Project schedule submittal shall include the anticipated temporary power duration.
 - 4. Bid shall include an additional 10% duration for temporary power to cover unanticipated schedule changes.
- B. Electrical energy for temporary light and power will be made available without charge.
- C. Extent of Temporary Wiring: Contractors may ascertain the extent of the temporary wiring provided under the Electrical Work Contract by examining the Electrical Drawings. Wiring for Contractors' trailers is not included.
- D. Electrical Work Contract:

1. Make necessary arrangements, through the Director's Representative, for temporary electrical service at location indicated.
2. Provide portable source of electricity for temporary light and power of adequate capacity to supply the needs of all contractors for the performance of their Work until the permanent electrical service can be utilized for temporary light and power.
3. Provide (2) 125kw/157kva diesel generators with sound proof enclosure , 120/208v rated. One generator is for construction of new building and other for contractor's trailer. See drawing G-001 for location.
4. Provide a 400A panel with 100% rated 400A main circuit breaker with 42 poles for new building construction. Coordinate with other trades and provide circuit breakers accordingly for lights, receptacles, equipment. Route feeders and branch circuits overhead.
5. Provide a 400A panel with 100% rated 400A main circuit breaker with 24 poles for trailers. Provide (4) 125A-2P circuit breakers (assume each trailer is rated 125A, 208V). Route feeders overhead to each trailer.
6. Provide wiring and other equipment within the building for temporary light and power.
 - a) Wiring for temporary light and single phase power shall, in general, consist of 3 wire, 120/240 volt or 4 wire, 120/208 volt feeders, with branch circuits of #12 conductors minimum.
 - 1) Install branch circuits with suitable LED fixtures or lampholders for temporary lighting as required to maintain a minimum of 10 foot candles in the work areas. Equip fixtures and lampholders with guards. Fixtures and lampholders installed in damp or wet locations shall be of the weatherproof type.
 - 2) Install branch circuits with fused grounding type receptacle outlets for single phase power (for power tools, etc.).
 - b) Install 2 circuits with LED fixtures or lampholders in corridors and stairs. Space LED fixtures or lampholders no more than 30 feet apart in corridors. Install LED fixture or lampholder at each stair landing. Also install one LED fixture or lampholder in each boiler room and mechanical equipment room (connect to the corridor and stair lighting circuits).
 - c) Keep the corridor maintained and energized during construction schedule .
 - d) Install wiring for 3 phase power for machines and other heavy electrical loads consisting of 3 phase, 3 wire, 120/208 as needed volt feeder with fused disconnect switches as indicated.
 - e) Coordinate with other contractors for power requirements and provide power accordingly.
 - f) Temporary power shall be on or available all the time during construction schedule
7. Provide site lighting for security purposes. Keep the site lighting maintained and energized from dusk to dawn (controlled by photocell), 7 days per week.

E. All Contracts:

1. Any Contractor requiring additional lighting shall provide additional LED fixtures or lamp holders (with lamps), but in no case shall the load on any branch circuit or feeder exceed its rated capacity.
2. Install materials for temporary light and power in conformance with the National Electrical Code.
3. Materials for temporary light and power need not be new if they are in satisfactory operating condition.
4. Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single phase 15 and 20 ampere receptacle outlets which are in use.
5. Receptacle outlets, portable cord connectors and attachment plugs shall have standard NEMA configurations.
6. As the progress of the Work allows, and as approved, completed portions of the permanent wiring and electrical service may be utilized for temporary light and power.

1.04 TEMPORARY WATER

- A. Water will be made available for the Work without charge at source or sources directed within the limits of the existing supply and usage.
- B. Construction Work Contract:
 1. Make arrangements and pay for water for temporary service.
 2. Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.
 3. Provide barrels at locations as required for the Work.
- C. Plumbing Work Contract:
 1. Make arrangements and pay for water for temporary service.
 2. Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.
 3. The permanent water lines may be used for temporary water service if potable water is carried in the lines.
 4. Hose Connections: Provide and maintain 3/4 inch hose connections and barrels with wastes at the following locations: A minimum of three locations on the site.
 5. At each hose connection, provide and maintain a water-tight barrel or tank complete with overflow piping and waste piping to an approved point of discharge, and a metal drip pan under the barrel or tank so as to prevent water overflowing or spilling on floor.
 6. Protect temporary lines against freezing.
 7. Repair damages caused by installation of leaky, defective or broken piping, connections or other fittings.
- D. All Contracts: Prevent waste of water.

1.05 TEMPORARY TOILETS

A. Construction Work Contract: Provide toilet facilities for Contractor's and subcontractors employees engaged on the Project, including employees of other contractors. Locate toilets where directed and maintain them in a sanitary condition.

NUMBER OF EMPLOYEES	MINIMUM NUMBER OF FACILITIES*
20 or less	1 toilet
20 or more	1 toilet and 1 urinal per 40 employees
200 or more	1 toilet and 1 urinal per 50 employees

*Toilet/Urinal Combinations shall count as only one facility.

1. Provide water closets where water and sewer connections are available, otherwise, provide approved chemical or electric toilets.
2. Locate toilet facilities no more than 1000 feet from any work location.
 - a. Exception: Mobile crews having readily available transportation to nearby toilet facilities.

1.06 TEMPORARY CLOSURES FOR EXTERIOR WALL OPENINGS

- A. Construction Work Contract:
1. Whenever necessary, after the building is enclosed, to maintain proper temperatures for the performance of the Work, provide and maintain temporary closures for all openings in exterior walls that are not closed with permanent materials.
 2. During the period when plastering is being done and continuing thereafter until the plaster is properly cured, provide exterior window and door openings with temporary closures, regardless of the time of year.
 3. Construct temporary closures of 2 x 4 framing sheathed with plywood, waferboard, or 6 mil polyethylene attached to wood frames, as approved and to suit job requirements.
 4. Provide closures so that they will afford convenient means of entrance and exit for persons having business within the building, afford ample light to permit continued progress of the Work, and exclude inclement weather.

1.07 PROTECTION OF WORK AND EXISTING PROPERTY

- A. Protect installed Work and existing property during performance of the Work.
- B. Maintain the building in a watertight condition during performance of the Work.

- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at wall projections, jambs, sills, and soffits of openings.
- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.
- F. Protect smoke detectors from airborne dust and debris.
 - 1. At the beginning of each work day, provide protective coverings over smoke detectors in areas where airborne dust and debris will be generated by the Work.
 - 2. At the end of the work day, clean the areas in which the smoke detectors are located by whatever means necessary to assure that airborne dust and debris will not contaminate the smoke detectors, then remove protective coverings.
 - 3. Provide signs, instructions and alternate methods for reporting a fire during the periods that the smoke detectors are covered.
 - 4. Notify the Director's Representative and have procedures approved.
- G. Prohibit traffic or storage upon waterproofed and roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- H. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the grading limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.
- I. Prohibit traffic from landscaped areas.
- J. Cleaning tools of cementitious and other insoluble materials:
 - 1. Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.
 - 2. Take all precautions necessary to prevent cementitious and other insoluble materials from flowing into floor drains.
 - 3. Dispose of excess cementitious and other insoluble debris with the other rubbish.

1.08 BARRIERS AND ENCLOSURES

- A. All Contracts: Provide barriers during performance of the Work to:
 - 1. Prevent unauthorized entry to work areas.
 - 2. Allow for State's occupancy of areas adjacent to the Site.

3. Protect existing facilities and adjacent properties from damage.
4. Protect vehicular and pedestrian traffic.

1.09 TEMPORARY FENCE ENCLOSURE

- A. Construction Work Contract:
1. Provide temporary fence not less than 6 feet in height above grade.
 2. Fabric: #9 gage galvanized steel, or equal gage aluminum, woven together into 2 inch diamond mesh, with both top and bottom edges having a twisted and barbed finish.
 3. Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer 2-inch O.D. galvanized steel top rail. . 2-inch O.D. galvanized steel line post. 7-gauge minimum bottom tension wire Provide top rails secured with bolted connections and bottom tension wire between all posts.
 4. Gates: Provide 20-foot wide chain link access gates for passage of employees and materials, complete with locking mechanism. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director's Representative with 2 keys per gate.
 5. Erection: Set posts 4 feet into the ground and not more than 10 feet apart. Install bottom rail not more than 2 inches above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 feet on center.
 - a. In unpaved areas, embed posts into grade 4-feet minimum.
 - b. In paved areas or areas of shallow bedrock, the Contractor shall utilize post panel stands or feet as provided by the fence manufacturer. Fence post panel stands or feet shall be safely and adequately secured to existing grade to prevent horizontal and vertical movement of the fence and shall be approved by the Director's Representative.Deviations from the fence and gate post components and installation requirements as noted above and within the Contract Documents shall not be permitted, unless otherwise directed by the the Director's Representative.
 6. Maintain the temporary fence enclosure throughout the life of the Contract, or until directed to be removed. Replace all items or portions of fence enclosure damaged or destroyed.

1.10 SECURITY

- A. Promptly relock doors and security screens located in access routes, storage areas, and work areas after use.
- B. Restore, by the end of each work day, existing in place safety/security items such as doors, screens, alarm systems components, that required removal, replacement, or adjustment to perform the Work, unless otherwise authorized in writing by the Director's Representative.

1.11 WATER CONTROLS

- A. Provide and maintain pumping equipment necessary to keep the work areas free from water. Discharge water into existing storm drainage systems or otherwise disperse as directed.

1.12 FIRE PREVENTION

- A. Take precautions necessary to prevent fires.
- B. Fuel for cutting and heating torches shall be acetylene or LP-gas only, and shall be contained in Underwriters Laboratory or Federal Department of Transportation approved containers.
- C. Furnish and maintain a currently inspected 20 pound capacity multi-class ABC fire extinguisher in the immediate vicinity where welding tools or torches are in use.
- D. Do not use flammable liquids, other than those specified, within a building without the written approval from the Director's Representative.
- E. Tarpaulins shall be flameproof and shall be securely anchored when attached to scaffolding or when used to enclose any portion of a building.
- F. If required by the nature of the work and facility regulations, the Contractor shall obtain from the facility and pay all costs associated with "Hot Work Permits" including fire watches to execute the work of its contract. Perform hot work in accordance with the Fire Code of New York State and the Hot Work Program approved for the work. Prior to, during and after performing hot work, inspect the hot work area for compliance with the requirements of the permitted Hot Work Program.
 - 1. Post signage "Caution: Hot Work In Progress - Stay Clear" in conspicuous locations warning others before they enter a hot work area where the area is accessible to persons other than the operator of the hot work equipment.

1.14 ACCESS ROADS

- A. Routes of ingress and egress on the premises to the location of the work areas shall be as directed.
- B. Keep designated access roads clear of dirt and debris resulting from the Work.
- B. Provide means of removing mud from vehicle wheels before entering paved roads.

1.15 STATE FIELD OFFICE:

- A. Coordinate with director's representative for existing state field office located in the Creedmoor campus.

1.16 PARKING

- A. No parking will be allowed at the Site, except for vehicles delivering material and equipment while they are being unloaded.

1.17 RUBBISH REMOVAL

- A. All Contracts: Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at least once a day and more often if the rubbish interferes with the work of others or presents a hazard. Leave work areas broom clean, except where more stringent cleaning is specified, at the end of each day. Locate containerized rubbish on the Site where directed.

- 1. Burning of rubbish will not be permitted.

1.23 RELOCATION AND REMOVALS

- A. Should a change in location of any construction facilities and temporary controls be necessary in order to progress the Work properly, remove and relocate such items as directed.

- 1. Electrical Work Contract: Frequently relocate/revise the temporary lighting as Contractors progress the Work of their contracts causing changes to the condition of the building (installation or relocation of walls, partitions, ceilings, equipment, etc.). Keep pace with the changes and maintain a minimum of 10-foot candles in each recomposed work area.

- B. Remove the construction facilities and temporary controls when they are no longer required. Restore permanent facilities used for or connected to temporary facilities to their original condition or better.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

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 Reinforcing's.
- 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
 - 3. Doors and Frames.
 - 4. HMMA 840-1999 Guide Specification for Installation and Storage of Hollow Metal Doors and Frames.
 - 5. 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 of 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, telephone number and e-mail address.
 - e) Submission date.
 - 2) List by openings:
 - a) Door and Frame number and location by building and room name. Use the 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 of construction, 18 x 18 inches, with mortises and reinforcements, factory primed, or factory finished, as required.
2. 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. The manufacturer's dated warranty for this specific project is to be 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 sole source responsibility:
1. Provide steel doors and frames from a sole source manufacturer who specializes in this type of work.
- B. Certification of Compliance: A statement, written on steel door and frame manufacturer's letterhead, which certifies their products, submitted for this Project, have been evaluated 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.
 - 5. 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 of 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 18-gauge, seamless, hollow construction, 1-3/4 inches thick.
 - a. Provide wood pattern engraved and stainable full flush or paneled embossed face sheets at door types F "wood look" and CA "wood look" as indicated on the drawings.
 - 1) Basis of design is Steelcraft Gaintech doors.
 - 1. Construct doors with smooth flush surfaces without visible joints or seams on exposed faces or stile edges, except around glass and louver panels.
 - 2. Reinforce vertical edges by a continuous steel channel not less than 14ga extending the full height of door.
 - 3. Close top and bottom of horizontal edges with 14 gage steel channels, spot welded to the inside of the face sheets a maximum of 4 inches on center.
 - 4. Continuously weld the closing end channels to the vertical edge reinforcing channel at all four corners producing a fully welded exterior.
 - 5. 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.
 - 6. Sound Deadening (ASTM E 90): Minimum Sound Transmission Class of 25.
 - 7. Door Edges: Bevel lock stile edge of single acting hinged doors 1/8 inch

in 2 inches. "V" bevel meeting stiles of pairs of doors, except at double egress locations where meeting stiles are parallel.

8. 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.
 - a. On wood grained doors provide vision lites to match engraved wood grain design and stain of the door.
 - 1) Provide torx head machine screws.

- 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 evaluated 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.
7. Oversize Assemblies Requiring Fire Rating: Whenever fire rated assemblies are larger than size limitations established by NFPA and testing laboratories, provide the manufacturer's certification, by affixing a metal label construction label, that the assemblies have been constructed with materials and methods equivalent to requirements for fire rated construction.

- C. Exterior Doors:

1. Fabricate exterior doors with A60 galvanized steel sheets.
2. Reinforce inside of doors with the following:
 - a. Solid block polyurethane core, with a minimum .07 U factor, which fills the entire door cavity and is chemically bonded to all surfaces.

- D. Interior Doors:

1. Fabricate doors with 2 outer stretcher-leveled, A40 galvanized steel sheets.
2. Reinforce the inside of doors with polystyrene slab with a minimum .24 U factor, permanently bonded to inside of each face sheet.

1.02 FRAMES

- A. General:

1. Furnish steel frames for doors, transoms, sidelites, borrowed lites, 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.
3.
 - 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.
 - c.

4. Do not drill frames for silencers.
 5. 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, corrugated, or perforated T-shaped to suit frame size with legs not less than 2 inches wide by 10 inches long.
 - a. 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. Steel Stud Construction: Weld-in type welded to back of frame unless otherwise indicated or approved.
 - a. Furnish at least 4 anchors per jamb up to 7'-6" jamb height; 5 anchors per jamb to 8-foot jamb height; one additional anchor per jamb for each 24 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.

1.03 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 the 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 the 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. Jambs 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 2 EXECUTION

2.01 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.

2.02 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 the 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.

2.03 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.
- B. Frames: Install frame of size and profile indicated. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set.
 - 1. Remove temporary braces necessary for installation only after frames have been properly set and secured.
 - 2. Check plumb, squareness, and twist of frames as walls are constructed. Adjust as necessary to comply with installation tolerances.
 - 3. 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.
- C. 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.

2.04 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.

2.05 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 that 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

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SECTION 102600 - WALL AND DOOR PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Corner guards.
 - 2. Wall coverings.
 - 3. Fiberglass reinforced plastic panels.

1.3 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes.
 - 2. Include fire ratings of units recessed in fire-rated walls and listings for door-protection items attached to fire-rated doors.
- E. Shop Drawings: For each type of wall and door protection showing locations and extent.
 - 1. Include plans, elevations, sections, and attachment details.
- F. Samples for Initial Selection: For each type of impact-resistant wall-protection unit indicated, in each color and texture specified.
 - 1. Include Samples of accent strips and accessories to verify color selection.
- G. Samples for Verification: For each type of exposed finish on the following products, prepared on Samples of size indicated below:

1. Corner Guards: 12 inches long. Include example top caps.
2. Abuse-Resistant Wall Covering: 6 by 6 inches square.
3. Fiberglass reinforced plastic panels: 6 x 6 inches square

H. Material Certificates: For each type of exposed plastic material.

I. Sample Warranty: For special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of wall and door protection product to include in maintenance manuals.

1. Include recommended methods and frequency of maintenance for maintaining best condition of plastic covers under anticipated traffic and use conditions. Include precautions against using cleaning materials and methods that may be detrimental to finishes and performance.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Corner-Guard Covers: Full-size plastic covers of maximum length equal to 2 percent of each type, color, and texture of cover installed, but no fewer than two, 48-inch- long units.
2. Mounting and Accessory Components: Amounts proportional to the quantities of extra materials. Package mounting and accessory components with each extra material.

1.6 QUALITY ASSURANCE

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store wall and door protection in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1. Maintain room temperature within storage area at not less than 70 deg F during the period plastic materials are stored.
2. Keep plastic materials out of direct sunlight.
3. Store plastic wall- and door-protection components for a minimum of 72 hours, or until plastic material attains a minimum room temperature of 70 deg F.
 - a. Store corner-guard covers in a vertical position.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of wall- and door-protection units that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including detachment of components from each other or from the substrates, delamination, and permanent deformation beyond normal use.
 - b. Deterioration of metals, metal finishes, plastics, and other materials beyond normal use.
 - 2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain wall- and door-protection products of each type from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Surface Burning Characteristics: Comply with ASTM E84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 450 or less.
- B. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1.

2.3 CORNER GUARDS

- A. Surface-Mounted, Plastic-Cover Corner Guards: **CG1, CG3**
Manufacturer's standard assembly consisting of snap-on, resilient plastic cover installed over retainer; including mounting hardware; fabricated with 90-degreeturn to match wall condition.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Inpro Corporation.
 - b. Koroseal Interior Products, LLC.
 - c. Pawling Corporation.
 - d. Approved equivalent.

2. Cover: Extruded rigid plastic, minimum 0.078-inch wall thickness; **as follows:**
 - a. Profile: Nominal 3-inch-long leg and manufacturer's standard radius.
 - b. Height: 4 feet.
 - c. Color and Texture: Match indicated selection in the Basis of Design, as selected by Director's Representative from manufacturer's full range.
3. Continuous Retainer: Minimum 0.060-inch- thick, one-piece, extruded aluminum.
4. Retainer Clips: Manufacturer's standard impact-absorbing clips.
5. Top and Bottom Caps: Prefabricated, injection-molded plastic; color matching cover; field adjustable for close alignment with snap-on cover.

B. Surface-Mounted, Plastic-Cover Corner Guards: **CG2**

Manufacturer's standard assembly consisting of snap-on, resilient plastic cover installed over retainer; including mounting hardware; fabricated with 90-degreeturn to match wall condition.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Inpro Corporation.
 - b. Koroseal Interior Products, LLC.
 - c. Pawling Corporation.
 - d. Approved equivalent.
2. Cover: Extruded rigid plastic, minimum 0.078-inch wall thickness; as follows:
 - a. Profile: Nominal 3-inch-long leg and manufacturer's standard radius.
 - b. Height: 8 feet.
 - c. Color and Texture: Match indicated selection in the Basis of Design, as selected by Director's Representative from manufacturer's full range.
3. Continuous Retainer: Minimum 0.060-inch- thick, one-piece, extruded aluminum.
4. Retainer Clips: Manufacturer's standard impact-absorbing clips.
5. Top and Bottom Caps: Prefabricated, injection-molded plastic; color matching cover; field adjustable for close alignment with snap-on cover.

2.4 WALL COVERINGS

A. Graphic Wall Covering: **WC1**

Fabricated from digitally printed vinyl type II sheet wall-covering material on a fabric poly-cotton woven backing.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Koroseal Interior Products, LLC.
 - b. Inpro Corporation.
 - c. Pawling Corporation.
 - d. Approved equivalent.

2. Size and Locations: As indicated.
3. Sheet Thickness: 0.018 – 0.026 inches, based on selection by Director's Representative from manufacturer's full substrate range.
4. Color, Graphic, and Texture: As selected by Director's Representative from manufacturer's full range.
5. Height: Full wall.
6. Mounting: Adhesive per manufacturer's recommendations. Provide a level 5 gypsum board finish prior to adhering product.

2.5 FIBERGLASS REINFORCED PLASTIC PANELS

A. Fiberglass Reinforced Plastic Panels: **FRP1**

1. Basis of Design: Marlite
2. Acceptable Manufacturers:
 - a. Marlite.
 - b. Crane Composites.
 - c. Nudo Products.
 - d. Approved equivalent.
3. Color: P100 White
4. Finish: Pebbled
5. Thickness: 0.090 inch
6. ASTM D5319 compliant; ASTM E84 Class A.
7. Panel size: Refer to drawings.
8. Trim: matching PVC trim including inside/outside corners
9. Adhesive: as recommended by manufacturer
10. Fasteners: Corrosion-resistant
11. Accessories: color matched sealant and cleaning materials

2.6 MATERIALS

- A. Plastic Materials: Chemical- and stain-resistant, high-impact-resistant plastic with integral color throughout; extruded and sheet material as required, thickness as indicated.
- B. Polycarbonate Plastic Sheet: ASTM D6098, S-PC01, Class 1 or Class 2, abrasion resistant; with a minimum impact-resistance rating of 15 ft.-lbf/in. of notch when tested according to ASTM D256, Test Method A.
- C. Fasteners: Aluminum, nonmagnetic stainless-steel, or other noncorrosive metal screws, bolts, and other fasteners compatible with items being fastened. Use security-type fasteners where exposed to view.
- D. Adhesive: As recommended by protection product manufacturer.

2.7 FABRICATION

- A. Fabricate wall and door protection according to requirements indicated for design, performance, dimensions, and member sizes, including thicknesses of components.
- B. Factory Assembly: Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.
- C. Quality: Fabricate components with uniformly tight seams and joints and with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

2.8 FINISHES

- A. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances, and other conditions affecting performance of the Work.
- B. Examine walls to which wall and door protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.
 - 1. For wall and door protection attached with adhesive, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Complete finishing operations, including painting, before installing wall and door protection.
- B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

- A. Installation Quality: Install wall and door protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.
- B. Mounting Heights: Install wall and door protection in locations and at mounting heights indicated on Drawings.
- C. Accessories: Provide splices, mounting hardware, anchors, trim, joint moldings, and other accessories required for a complete installation.
 - 1. Provide anchoring devices and suitable locations to withstand imposed loads.
 - 2. Where splices occur in horizontal runs of more than 20 feet, splice aluminum retainers and plastic covers at different locations along the run, but no closer than 12 inches apart.
 - 3. Adjust end and top caps as required to ensure tight seams.
- D. Wall Covering: Install top and edge moldings, corners, and divider bars as required for a complete installation.
- E. Fiberglass reinforced plastic panels:

3.4 CLEANING

- A. Immediately after completion of installation, clean plastic covers and accessories using a standard ammonia-based household cleaning agent.
- B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 102600

SECTION 310000 - EARTHWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Stormwater Pollution Prevention Plan (SWPPP) for the project, dated November 2024, as prepared by Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.

1.2 SUMMARY

A. Section Includes:

- 1. Disconnecting, capping, sealing, and/or removing existing utilities.
- 2. Site Clearing:
 - a. Protecting existing vegetation to remain.
 - b. Removing existing vegetation.
 - c. Clearing and grubbing.
 - d. Stripping and stockpiling topsoil, topsoil material, and rock.
 - e. Removing above- and below-grade improvements.
 - f. Disconnecting, capping or sealing, and removing or abandoning site utilities in place.
- 3. Excavation:
 - a. Excavating for buildings and structures.
 - b. Excavating trenches for utilities and pits for buried utility structures.
- 4. Fill and Backfill:
 - a. Backfilling for building and site structures to subgrade elevations.
 - b. Backfilling for trenches.
 - c. Fill under slabs-on-grade.
 - d. Fill under pavements.
 - e. Fill for over-excavation.
 - f. Subsurface drainage backfill for walls and trenches.
- 5. Preparation of subgrades.
- 6. Compaction.
- 7. Riprap placement.
- 8. Rough and final grading.
- 9. Work within fifty (50) feet of tree in public right-of-way

B. Related Requirements:

- 1. Section 310001 – Earthwork Materials.

2. Section 312319 – Dewatering.
3. Section 312323.33 – Flowable Fill.
4. Section 312500 – Erosion and Sedimentation Controls.
5. Section 315000 – Excavation Support and Protection
6. Section 329200 – Turf and Grasses.
7. Section 329300 – Plants.

1.3 REFERENCE STANDARDS

A. ASTM International:

1. ASTM C88 - Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
2. ASTM C136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
3. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³).
4. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³).
5. ASTM D2419 – Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate.
6. ASTM D2434 - Standard Test Method for Permeability of Granular Soils (Constant Head).
7. ASTM D2487 – Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).
8. ASTM D2974 – Standard Test Methods for Determining the Water (moisture) Content, Ash Content, and Organic Material of Peat and Other Organic Soils.
9. ASTM D4318 - Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.
10. ASTM D4373 - Standard Test Method for Rapid Determination of Carbonate Content of Soils
11. ASTM D4873 – Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples.
12. ASTM D6938 - Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).

B. Related Requirements:

1. Local utility standards when working in close proximity to utility lines.
2. Occupational Safety and Health Administration: Comply with the applicable requirements of the Code of Federal Regulations Title 29 – Labor, Part 1926 Safety and Health Regulations for Construction (OSHA).
3. New York City Department of Parks & Recreation (NYCDPR) Tree Protection Protocol – Standard Tree Protection Notes for Permits and Plan review; Tree Protection Best Practices and Protocol; Tree Protection Guidelines; Utility Protocol – Utility Work and City Trees: Forestry Protocol for Planned and Emergency Utility Work.
4. New York City: Comply with all applicable requirements of the Administrative Code Title 18 – Parks, Chapter 1: Parks and Recreation & The Rules of the City of New York -Title 56: Department of Parks and Recreation.

C. New York State Department of Transportation (NYS DOT)

1. NYS DOT 620 - Bank and Channel Protection
2. NYS DOT 703 - Aggregates
3. NYS DOT 733 - Earthwork Materials

1.4 DEFINITIONS

- A. Surface Soil: Soil that is present at the top layer of the existing soil profile.
- B. Subsurface: Soil beneath the level of subgrade; soil beneath the topsoil layers of a naturally occurring soil profile.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil; the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsurface; reasonably free of subsurface soils, clay lumps, gravel, weeds, roots, toxic materials, or other non-soil materials.
- D. Borrow Soil: Approved soil imported from off-site for use as Fill. Also referred to as Imported Fill.
- E. Backfill: Soil material or controlled low-strength material used to fill an excavation.
 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
 2. Final Backfill: Backfill placed over initial backfill to backfill a trench.
- F. Fill: Pre-existing materials formerly placed within the subsurface. May include soil materials in addition to inorganic materials and debris.
- G. Suitable Material (Fill approved for use within Landscaped Areas): Material generally consisting of mineral soil (inorganic), blasted or broken rock and similar materials of natural or man-made origin, including mixtures thereof. Maximum particle size will not exceed 2/3 of the specified layer thickness prior to compaction. Topsoil and organic silt may be used as suitable material in landscaped areas provided it is placed as the surface soil.
- H. Unsuitable Material: Material containing cinders, industrial waste, sludge, building/construction rubble, land fill, muck, and peat.
- I. Subgrade: Uppermost surface of an excavation or the top surface of Fill immediately below subbase, drainage material, or topsoil materials.
- J. Subbase Course: Aggregate layer placed between the subgrade and asphaltic or concrete pavement section or concrete structure.
- K. Bedding Course (Cushion Material): Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- L. Drainage Material: Aggregate layer with minimal material passing the #200 sieve to promote downward water flow and minimizes upward capillary flow of pore water.
- M. Classified Earth Excavation: Removal of all surface and subsurface material not classified as rock, to the lines and dimensions indicated.

- N. Rock: Limestone, sandstone, shale, granite and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
1. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
 2. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
- O. Unclassified Earth Excavation: Removal of all surface and subsurface material, of any description, necessary to perform the work of this contract. This will include:
1. All soil deposits of any description both above and below groundwater levels. These may be naturally deposited or placed by previous construction operations.
 2. Ledge rock of all quality. (Limestone, Sandstone, Shale, Granite and similar materials in solid beds or masses in its original or stratified position which can only be removed by drilling, wedging, use of pneumatic tools or heavy ripping equipment). Blasting operations will not be permitted to loosen any ledge rock necessary to be removed in this contract.
 3. Boulders of any size.
 4. Any materials of man-made origin.
- P. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Director's Representative. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- Q. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in length.
- R. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Director's Representative. Unauthorized excavation, as well as remedial work directed by Director's Representative, shall be without additional compensation.
- S. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- T. Utilities: On-site underground pipes..
- U. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction.
- V. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.
- W. Landscaped Areas: Areas not covered by structures, walks, roads, paving, or parking.
- X. Grading Limit Line (Shown on Drawings): Limits of grading, excavations and filling required for the Work. Unless specifically noted otherwise, the Grading Limit Line and Contract Limit Line shall be considered the same.

- Y. Public Right-of-Way: Area surrounding project limits that is owned and maintained by New York City.

1.5 MATERIAL OWNERSHIP

- A. Except for materials indicated to be stockpiled or otherwise remain State's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.6 SUBMITTALS

- A. Submittals for this Section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Existing Conditions: Submit a Pre-Construction Survey Report documenting condition of existing trees and plantings, adjoining construction, and site improvements prior to beginning earthwork activities. Report shall establish preconstruction conditions that might be misconstrued as damage caused by the Work of this Section.
 - 1. Use sufficiently detailed photographs or video recordings.
 - a. Photographs sufficient for use with NYCDPR Tree Work Permit application and to create Tree Work Permit plans shall be included.
 - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plant designated to remain.
- E. Qualification Data: For qualified testing agency.
- F. NYCDPR Tree Work Permit Application: Contractor is responsible for acquiring Tree Work Permit from NYCDPR prior to any work within fifty (50) feet of trees in public right-of-way occurring and providing all necessary documentation, plans, survey, photographs, letters, forms, project information, and any other required information to facilitate permit submission and approval.
- G. Land Survey: Land survey shall be performed and provided sufficient for use with Contractor's NYCDPR Tree Work Permit application. Survey shall include limits up to one-hundred (100) feet away from any planned tree work, sufficient to create Tree Work Permit plans in accordance with 1.6(E) of this specification and as required by NYCDPR, and must be signed and sealed by a Professional Land Surveyor, licensed in the State of New York:

1.7 QUALITY ASSURANCE

- A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E329 and ASTM D3740 for testing indicated.

1.8 FIELD CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth-moving operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Director's Representative and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by Director's Representative or authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining State's property will be obtained by Director's Representative before award of Contract.
 - 1. Do not proceed with work on adjoining property until directed by Director's Representative.
- C. Salvageable Improvements: Carefully remove items indicated to be salvaged and store as indicated.
- D. Utility Locator Service: Locate underground utilities, in accordance with Section 023313 – Underground Utility Locator Service, before beginning site clearing or earth-moving operations.
- E. Do not commence operations until temporary site fencing and erosion and sedimentation control measures are in place.
- F. Do not commence earthwork operations until plant-protection measures specified herein are in place.
- G. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Foot traffic.
 - 4. Erection of sheds or structures.
 - 5. Impoundment of water.
 - 6. Excavation or other digging unless otherwise indicated.
 - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- H. Do not direct vehicle or equipment exhaust towards protection zones.
- I. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
- J. Soil Stripping, Handling, and Stockpiling: Perform only when the soil is dry or slightly moist.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. See Section 310001 - Earthwork Materials.
- B. Protection-Zone Fencing:
 - 1. Plastic Protection-Zone Fencing: Plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and weighing a minimum of 0.4 lb/ft.; remaining flexible from minus 60 to plus 200 deg F; inert to most chemicals and acids; minimum tensile yield strength of 2000 psi and ultimate tensile strength of 2680 psi; secured with plastic bands or galvanized-steel or stainless-steel wire ties; and supported by tubular or T-shape galvanized-steel posts spaced not more than 96 inches apart.
 - a. Height: 48 inches
 - b. Color: High-visibility orange, nonfading.
 - 2. Chain-Link Protection-Zone Fencing: As specified in Section 015000 - Construction Facilities and Temporary Controls.
- C. Protection-Zone Gates: Double-swing access gates matching material and appearance of fencing, to allow for maintenance activities within protection zones; leaf width as indicated.
- D. Protection-Zone Signage: Shop-fabricated, rigid plastic or metal sheet with attachment holes prepunched and reinforced; legibly printed with nonfading lettering and as follows:
 - 1. Size and Text: As shown on Drawings.
 - 2. Lettering: 3-inch-high minimum, black characters on white background.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Verify that trees, shrubs, and other vegetation to remain or to be relocated have been flagged and that protection zones have been identified and enclosed as required. If work begins prior to Contractor acquiring Tree Work Permit from NYCDPR, protection zones shall be installed a minimum of fifty (50) feet away from trees in public right-of-way and no work shall be allowed to occur in this area until permit is acquired.
- C. Protect existing site features, to remain, from damage during construction. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
 - 1. Restore damaged improvements to their original condition, as acceptable to the Director's Representative.

- D. Protect and maintain erosion and sedimentation controls during earth-moving operations.
- E. Protect subgrades and foundation soils from construction traffic, surface water, freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide and maintain temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, in accordance with Section 312500 Erosion & Sedimentation Controls, the Contract Drawings, and requirements of authorities having jurisdiction. If the erosion and sedimentation controls specified by the authorities having jurisdiction are more stringent than those specified in the Contract Documents, contact the Director's Representative.
 - 1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
 - 2. Inspect, maintain, and repair erosion and sedimentation control measures during construction until permanent vegetation has been established.
 - 3. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 PLANT PROTECTION

- A. Locate and clearly identify trees, shrubs, and other vegetation to remain and be protected. Tie a 1-inch blue vinyl tape around each tree trunk at 54 inches above the ground.
- B. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- C. Trunk Protection: Protect the trunk of each tree to remain as follows:
 - 1. Install 2-by-4-inch wood planks around trunk at maximum 3 inches apart. Minimum three planks per tree. Band together with no less than three steel bands stapled to the planks to hold them securely in place. Wrap orange plastic construction fencing to a minimum of three layers outside slats. Fasten wrap with wire.
 - a. Height: 48 inches
- D. Protection-Zone Fencing: Install protection-zone fencing along edges of protection zones **before** materials or equipment are brought on the site and construction operations beginning a manner that will prevent people and animals from easily entering protected areas except by entrance gates. Construct fencing so as not to obstruct safe passage or visibility at vehicle intersections where fencing is located adjacent to pedestrian walkways or in close proximity to street intersections, drives, or other vehicular circulation. Install access gates where indicated.
- E. Install protection-zone signage in visibly prominent locations in a manner approved by Director's Representative. Install one sign spaced approximately every 35 feet on protection-zone fencing, but no fewer than four signs with each facing a different direction.

- F. Maintain protection zones free of weeds and trash.
- G. Maintain protection-zone fencing and signage in good condition as acceptable to Director's Representative and remove when construction operations are complete and equipment has been removed from the site.
 - 1. Do not remove protection-zone fencing, even temporarily, to allow deliveries or equipment access through the protection zone.
 - 2. Temporary access is permitted subject to preapproval in writing by arborist if a root buffer effective against soil compaction is constructed as directed by arborist. Maintain root buffer so long as access is permitted.
- H. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations.
 - 1. Small Trees: Provide new trees of same size and species as those being replaced for each tree that measures 4 inches or smaller in caliper size.
 - 2. Large Trees: Provide two new tree(s) of 4-inch caliper size for each tree being replaced that measures more than 6 inches in caliper size.
 - a. Species: to match existing, unless otherwise directed by Director's Representative.
 - 3. Plant and maintain new trees as specified in Section 329300 - Plants.
- I. Comply with all NYCDPR requirements in NYCDPR standards and all stipulations of NYCDPR Tree Work Permit for plant protection when work is within fifty (50) feet of trees in public right-of-way.

3.4 EXISTING UTILITIES

- A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
 - 1. Arrange with utility companies to shut off indicated utilities as necessary
- B. Interrupting Existing Utilities: Do not interrupt utilities serving occupied facilities unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Director's Representative not less than seven days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without the Director's Representative's written permission.
- C. Excavate for and remove underground utilities indicated to be removed. Resulting excavations shall be backfilled with Fill in accordance with relevant specifications.

3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - 1. Do not remove trees, shrubs, and other vegetation indicated to remain.
 - 2. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches below exposed subgrade to lines and grades as shown on the Construction Drawings.
 - 3. Use only hand methods or air spade for grubbing within protection zones.
 - 4. Chip removed tree branches and stockpile in areas approved by the Director's Representative or dispose of off-site when directed by the Director's Representative
- B. Fill depressions caused by clearing and grubbing operations with suitable material unless further excavation or earthwork is indicated.
 - 1. Where beyond limits of proposed structures, place General Fill in horizontal layers not exceeding a loose depth of 8 inches and compact each layer to specified density.

3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth of 4 inches in a manner to prevent intermingling with underlying soil or other waste materials.
 - 1. Remove subsurface soil and non-soil materials from topsoil, including clay lumps, gravel, and other objects larger than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsurface soil or other materials. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
 - 1. Limit height of topsoil stockpiles to 120 inches.
 - 2. Do not stockpile topsoil within protection zones.
 - 3. Stockpile surplus topsoil to allow for resspreading deeper topsoil.
 - 4. Dispose of surplus topsoil. Surplus topsoil is that which exceeds quantity indicated to be stockpiled or reused.
- D. Where surficial materials are identified as Topsoil Materials, stripping provisions presented herein may be performed in-kind, however use of the material throughout the site should be authorized by the Directors Representative.

3.7 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil (Imported Fill) materials and excavated suitable materials away from the edge of excavations and without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
 - 1. Limit height of soil stockpiles to 180 inches.

2. Do not stockpile soil material within protection zones.
3. Dispose of surplus soils. Surplus soil is that which exceeds quantity indicated to be stockpiled or reused.

3.8 STOCKPILING ROCK

- A. Remove from construction area naturally formed boulders that measure more than 1 foot across in least dimension. Do not include excavated or crushed rock.
 1. Separate or wash off non-rock materials from rocks, including soil, clay lumps, gravel, and other objects larger than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- B. Stockpile rock where indicated on Drawings without intermixing with other materials. Cover to prevent windblown debris from accumulating among rocks.
 1. Limit height of rock stockpiles to 240 inches.
 2. Do not stockpile rock within protection zones.
 3. Stockpile surplus rock to allow for later use.
 4. Dispose of surplus rock. Surplus rock is that which exceeds quantity indicated to be stockpiled or reused.

3.9 DEWATERING

- A. Provide dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades. Refer to Section 312319 – Dewatering.
- B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- C. Protect subgrades from rain or water accumulation that can cause softening, undermining/undercutting, washout, damage, and other soil changes that would be detrimental to the stability of subgrades.
 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
- D. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.
- E. Dewatering shall be performed as to allow performance of work, including placement of backfill materials and concrete, to be performed in the dry.
- F. Dewatering systems, if necessary, should be designed by a New York State license Professional Engineer.

3.10 EXCAVATION, GENERAL

- A. Unclassified Earth Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
 - 1. All excavated soils proposed for use as Fill should be tested and approved by the geotechnical engineer prior to their placement. Non-conforming soils may be suitable for use as General Fill.
- B. Classified Earth Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not excavate rock until it has been classified and cross sectioned. The Contract Sum will be adjusted for rock excavation according to Contract provisions for changes in the Work. Changes in the Contract Time may be authorized for rock excavation.
 - 1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; and soil, boulders, and other materials not classified as rock or unauthorized excavation.
 - a. Intermittent drilling; blasting, if permitted; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

3.11 EXCAVATION

- A. Excavation for Structures: Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
- B. Excavations for Footings and Foundations:
 - 1. Do not disturb bottom of excavation when concrete is to bear on undisturbed native soil. Excavate by hand to final foundation bearing grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
 - 2. Where concrete is to bear entirely on existing rock, remove loose soil and loose rock and place concrete to required lines and grades.
 - 3. Where concrete is to bear partially on rock and partially on soil, immediately notify the Director's Representative before any backfilling or concrete placement occurs; the Director's Representative will determine the correct foundation treatment for the Work.
- C. Excavation for Underground Tanks and Basins.: Excavate to elevations and dimensions indicated within a tolerance of plus or minus 1 inch. Do not disturb bottom of excavations intended as bearing surfaces.
- D. Excavation for Slabs and Floors: Excavate to the following depths below bottom of concrete for addition of Fill
 - 1. Interior Floors: 6 inches, unless otherwise indicated.

2. Exterior Slabs and Steps: 6 inches, unless otherwise indicated.

E. Excavations at Edges of Plant-Protection Zones:

1. Excavate by hand or with an air spade to indicated lines, cross sections, elevations, and subgrades. If excavating by hand, use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Redirect roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and redirect them without breaking. If encountered immediately adjacent to location of new construction and redirection is not practical, cut roots approximately 3 inches back from new construction and as required for root pruning.
3. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.
4. Comply with all NYCDPR requirements in NYCDPR standards and all stipulations of NYCDPR Tree Work Permit for excavation within fifty (50) feet of trees in public right-of-way.

F. Excavation for Walks and Pavements: Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

G. Excavation for Open Ditches: Cut ditches to cross sections and grades indicated.

H. Excavation for Utility Trenches: Excavate trenches to indicated gradients, lines, depths, and elevations.

1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line, unless noted otherwise in contract plans.
2. Trench Width: Excavate trenches to uniform widths to provide 12 inches of clearance on each side of pipe
3. Trench Bottoms: Excavate trenches 6 inches deeper than bottom of pipe elevations to allow for bedding course. Hand-excavate deeper for bells and coupling joints of pipe.

I. Trenching within Protection Zones: Where utility trenches are required within protection zones, excavate under or around tree roots by hand or with air spade, or tunnel under the roots by drilling, auger boring, or pipe jacking. Do not cut main lateral tree roots or taproots; cut only smaller roots that interfere with installation of utilities. Cut roots as required for root pruning. If excavating by hand, use narrow-tine spading forks to comb soil and expose roots.

J. Excavation for Stormwater Vault: Prior to installation of vault system, ensure that deep ripping decompaction is completed in conformance with NYSDEC Standards as referenced in the project SWPPP.

3.12 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations, wall footings, and retaining walls with Fill without altering top elevation of footing, foundation, or wall.

1. Unauthorized excavations under structural work shall be reported to the Director's Representative immediately before any backfilling or concrete work commences.
- B. Elsewhere, backfill and compact unauthorized excavations as specified for authorized excavation of the same classification, unless otherwise directed by the Director's Representative.

3.13 SUBGRADE INSPECTION

- A. Notify Director's Representative when excavations have reached required subgrade and are ready for inspection.
- B. Proof-roll subgrade below the building slabs and pavements with a minimum 10-ton roller to identify soft pockets and areas of excess yielding. Where access is confined, use of a minimum 1.5-ton trench roller is permitted. Do not proof-roll wet or saturated subgrades.
 1. Completely proof-roll subgrade with a minimum of four passes in perpendicular directions. Limit vehicle speed to 3 mph.
- C. If Director's Representative determines that unsuitable material is present or that there are soft spots or areas of excessive pumping or rutting, excavate and replace with compacted backfill material as directed.
 1. Have cross section taken, under the supervision of an independent land surveyor, to determine volume of additional excavations.
- D. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- E. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by the Director's Representative, without additional compensation.

3.14 BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
 2. Surveying locations of underground utilities for Record Documents.
 3. Testing and inspecting underground utilities.
 4. Removing concrete formwork.
 5. Removing trash and debris.
 6. Removing temporary shoring, bracing, and sheeting.
 7. Cutting off top of permanent sheeting or sheetpiling.
 8. Installing permanent or temporary horizontal bracing on horizontally supported walls.
 9. Acceptance by the Director's Representative of construction below finish grade.
- B. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so backfill material will bond with existing material.

- C. Place backfill on subgrades free of mud, frost, snow, or ice.
- D. Place backfill materials in layers not more than twelve inches thick in loose depth, unless otherwise specified. Before compaction, moisten or aerate each layer as necessary to facilitate compaction to the specified density.
 - 1. Place backfill against foundation walls and in confined areas such as trenches not easily accessible by larger compaction equipment in maximum 4-inch-thick loose depth layers.
 - 2. For large backfill areas, the layer thickness may be modified by the Director's Representative, at the Contractor's written request, if in the Director's Representative's judgment, the equipment used is capable of compacting the backfill material in a greater layer thickness. This request will include the type and specifications of compaction equipment intended for use.
 - 3. For Open Graded Stone/Clean Stone (Item B-12, No. 1 crushed stone, No. 2 crushed stone, etc.) in excess of six inches: Material must be wrapped in separation fabric.
- E. Concrete Walls
 - 1. Do not place backfill against concrete walls until the walls have attained 70 percent of their design strength. Place backfill against walls of structures containing basements or crawl spaces only after the first floor structural members are in place and any concrete components of the first floor structural system have attained 70 percent of their concrete design strength.
 - 2. Prevent wedging action of backfill against structures backfilled on both sides, by placing backfill uniformly around structure so that the elevation on each side never differs by more than 24 inches.
- F. Foundation Drains
 - 1. Line pipe trench loosely with drainage geotextile. Lap successive sheets 18 inches.
 - 2. Place drainage/cushion material a minimum of 4 inches deep under pipe and [12 inches] on both sides and over top of pipe.
 - 3. Completely wrap drainage/cushion material with drainage geotextile.
- G. Perimeter Insulation: Before the insulation is installed, place and tamp specified backfill to a smooth plane even with the required elevation of the lower surface of the insulation.
- H. Under Exterior Concrete Slabs and Steps:
 - 1. Up to Subgrade Surface Elevation: Place Fill when backfill is required.
 - 2. Subbase Material: Place 12 inches of Fill over subgrade surface.
- I. Under Interior Concrete Slabs:
 - 1. Up to Subgrade Surface Elevation: Place Fill when backfill is required.
 - 2. Subbase Material: Place 6 inches of Fill over subgrade surface.
- J. Under Pavements and Walks:
 - 1. Up to Subgrade Surface Elevation: Place Fill when backfill is required.
 - 2. Subbase Material: Place as indicated.

- K. Landscaped Areas: Place Suitable Material (Approved General Fill) when required to complete backfill areas up to subgrade surface elevation. Do not use material containing particles over four inches in diameter within the top 12 inches of suitable material.
1. Comply with all NYCDPR requirements in NYCDPR standards and all stipulations of NYCDPR Tree Work Permit for final grading and turf establishment within fifty (50) feet of trees in public right-of-way.
- L. Utility Trench Backfill
1. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes.
 2. Backfill voids with Fill while removing shoring and bracing.
 3. Initial Backfill:
 - a. Soil Backfill: Place and compact initial backfill of Fill to a minimum depth of 4 inches below the bottom, 12 inches to the sides, and to a height of 12 inches over the pipe.
 - 1) Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping to avoid damage or displacement of piping.
 - b. Flowable Fill: Place initial backfill of flowable fill (controlled low strength material) to a height of 12 inches over the pipe.
 4. Coordinate backfilling with utilities testing.
 5. Final Backfill:
 - a. Soil Backfill: Place and compact final backfill soil to final subgrade elevation.
- M. Backfilling Excavation Resulting from Removal of Unsuitable Material:
1. Up to Subgrade Surface Elevation: Place Fill when backfill is needed unless otherwise specified by the Directors Representative.

3.15 SOIL MOISTURE CONTROL

- A. Where backfill must be moisture conditioned before compaction, uniformly apply water to the surface and to each layer of backfill to within 2 percent of optimum moisture content.
- B. Prevent ponding or other free water on surface during and after compaction operations.
- C. Remove and replace, or scarify and air dry, soil that is too wet to permit compaction to specified density. Soil that has been removed because it is too wet to permit compaction may be stockpiled or spread and allowed to dry. Assist drying by discing, harrowing or pulverizing, until moisture content is reduced to a value which will permit compaction to the percentage of maximum density specified.
- D. When the existing ground surface to be compacted has a density less than that specified for the particular area classification, break up and pulverize, and moisture condition to facilitate compaction to the required percentage of maximum density.

3.16 COMPACTION OF SOIL BACKFILLS

- A. Compact soil materials to not less than the following percentages of maximum density according to ASTM D1557 for the following:
 - 1. Under structures, including area within 10-ft outside perimeter: 95 percent.
 - 2. Under concrete slabs, steps, and pavements: 95 percent.
 - 3. Under walkways: 95 percent.
 - 4. Under landscaped areas, turf, or unpaved areas: 95 percent.
 - 5. Pipe bedding: 95 percent.
 - 6. Behind retaining walls: 95 percent.

3.17 RIPRAP PLACEMENT

- A. Do not place riprap over frozen or spongy subgrade surfaces.
- B. Install separation geotextile over properly prepared subgrade.
- C. Spread layer of bedding course prior to placing riprap at depth indicated on Drawings. Prevent mixing of bedding course with subgrade.
- D. Place riprap into position at thickness as indicated on Drawings.
- E. End Dumped: End dump riprap to conform to the lines, grades and thicknesses indicated. End dumped riprap shall be a well graded mass of variable size stones with no areas of uniform size material. Rearrange individual stones, if necessary, by hand or with mechanical equipment to obtain the specified results.
- F. Hand Placed: Hand place riprap with the largest stones placed at the bottom of slope. Align stones to obtain a close fit and to minimize voids. Fill spaces between stones with spalls of suitable size.

3.18 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Rough Grading:
 - 1. Interior Grading: Trim unexcavated spaces within the building to levels indicated.
 - a. Subgrade for Interior Slabs: Compact as specified to receive backfill material. Finish subgrade surface within 1 inch above or below level specified for backfill required.
 - 2. Exterior Grading: Trim and grade area within the Grading Limit Line and excavations outside the limit line, required by this Contract, to a level of 4 inches below the finish

grades indicated unless otherwise specified herein or where greater depths are indicated. Provide smooth uniform transition to adjacent areas.

- a. Slope cut and fill in transition areas, outside of the grading limit line, to meet corresponding levels of existing grades at a slope of 1 vertical to 2 horizontal unless otherwise indicated.
- b. Landscaped Areas: Provide uniform subgrade surface within 1 inch of required level to receive topsoil thickness specified. Compact backfill as specified to within 3 inches of subgrade surface. Remove objectionable material detrimental to proper compaction or to placing full depth of topsoil. If the top 3 inches of subgrade has become compacted before placement of topsoil, harrow or otherwise loosen rough graded surface to receive topsoil to a depth of three inches immediately prior to placing topsoil.

C. Subgrade Surface for Walks and Pavement

1. Shape and grade subgrade surface as follows:
 - a. Walks: Shape the surface of areas under walks to required line, grade and cross section, with the finish surface not more than 1 inch above or below the required subgrade surface elevation.
 - b. Pavements: Shape the surface of areas under pavement to required line, grade and cross section, with the finish surface not more than 1/2 inch above or below the required subgrade surface elevation.
2. Grade Control: During construction, maintain lines and grades including crown and cross-slope of subbase course.
3. Thoroughly compact subgrade surface for walks and pavement by mechanical rolling, tamping, or with vibratory equipment as approved to the density specified.
4. Shoulders: Place shoulders along edges of filled subgrades to prevent lateral movement. Construct shoulders of Fill material, placed in such quantity to compact to thickness of each subgrade course layer. Compact and roll at least a 2-foot wide additional layer of each subgrade course.

D. Finish Grading:

1. Uniformly grade rough graded areas within limits of the Grading Limit Line to finish grade elevations indicated.
2. Grade and compact to smooth finished surface within tolerances specified, and to uniform levels or slopes between points where finish elevations are indicated or between such points and existing finished grade.
3. Grade areas adjacent to building lines so as to drain away from structures and to prevent ponding.
4. Finish surfaces free from irregular surface changes, and as follows:
 - a. Walks: Place and compact subbase material as specified. Shape surface of areas under walks to required line, grade and cross section, with the finish surface not more than 1/4 inch above or below the required subbase elevation.
 - b. Pavements: Place and compact subbase material as specified. Shape surface of areas under pavement to required line, grade and cross section, with the finish surface not more than 1/4 inch above or below the required subbase elevation.

- c. Building Slabs: Grade subbase material smooth and even, free of voids, compacted as specified, and to required subbase elevation. Finish final grades within a tolerance of 1/4 inch when tested with a ten-foot straightedge.
 - d. Surfaces To Receive Vapor Barrier: Provide smooth surfaces graded, tamped and/or rolled, entirely free of obstructions or protruding objects.
- 5. Spread topsoil directly upon prepared subgrade surface to a depth measuring 4 inches after natural settlement of the topsoil has occurred in areas to be seeded or to receive sod. Perform topsoil spreading operations only during dry weather. Place to greater depth when necessary to adjust grades to required elevations.
 - a. Approved existing topsoil within the Grading Limit Line may be used. Provide additional topsoil from outside sources as required. Topsoil material within Grading Limit Line may be suitable for re-use provided approval of the Director's Representative.
 - b. Comply with all NYCDPR requirements in NYCDPR standards and all stipulations of NYCDPR Tree Work Permit for topsoil placement within fifty (50) feet of trees in public right-of-way.
- 6. Finish topsoil surface free of depressions that would trap water, free of stones over 1 inch in any dimension, and free of debris or other objectionable material. Finished surfaces shall conform to the contour lines and elevations indicated on the drawings or as directed by the Director's Representative.

3.19 FIELD QUALITY CONTROL

- A. Special Inspections: Director's Representative will engage a qualified Special Inspector to perform the following special inspections:
 - 1. Determine prior to placement of backfill that site has been prepared in compliance with requirements.
 - 2. Determine that backfill material classification and maximum lift thickness comply with requirements.
 - 3. Determine, during placement and compaction, that in-place density of compacted backfill complies with requirements.
- B. Testing Agency: Director's Representative will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- C. Coordinate with and allow testing agency to inspect and test subgrades and each backfill layer; provide testing agency minimum three working days advanced notice prior to all phases of filling and backfilling operations. Proceed with subsequent earthwork activities only after test results for previously completed work comply with requirements.
- D. Footing Subgrade: At footing subgrades, at least one visual test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with verified subgrade when approved by Director's Representative.
- E. Testing agency will test compaction of soils in place according to ASTM D1557, as applicable. Tests will be performed at the following locations and frequencies:

1. Paved and Building Slab Areas: At subgrade and at each compacted backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab but in no case fewer than three tests.
 2. Foundation Wall Backfill: At each compacted backfill layer, at least one test for every 100 feet or less of wall length but no fewer than two tests.
 3. Trench Backfill: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length but no fewer than two tests.
- F. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.20 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
1. Scarify or remove and replace soil material to depth as directed by Director's Representative; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.21 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Transport excess and unsuitable materials, including materials resulting from clearing and grubbing and removal of existing improvements, to spoil areas on State property designated by the Director's Representative, and dispose of such materials as directed.
- B. Transport excess topsoil to areas on State property designated by the Director's Representative. Smooth grade deposited topsoil.
- C. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 310000

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PRIOR TO ONSITE USE.
REPRESENTATIVE.

DIMENSIONS, QUANTITIES
MATCH ADJACENT

FRONT APPROACH, PULL SIDE

18" MIN

60" MIN

FRONT APPROACH, PUSH SIDE

48" MIN

12" MIN*

*WHERE BOTH CLOSER AND LATCH ARE PROVIDED

HINGE APPROACH, PULL SIDE

36" MIN

60" MIN

HINGE APPROACH, PULL SIDE

42" MIN

54" MIN

HINGE APPROACH, PUSH SIDE

22" MIN

42" MIN **

12" MIN *

*WHERE BOTH CLOSER AND LATCH ARE PROVIDED

** 48" MIN IF BOTH CLOSER AND LATCH PROVIDED

LATCH APPROACH, PULL SIDE

24" MIN

48" MIN *

*54" MIN WHERE CLOSER IS PROVIDED

LATCH APPROACH, PUSH SIDE

24" MIN

42" MIN

*48" MIN WHERE CLOSER IS PROVIDED

ELEVATION NUMBER(S) → D1 SIM SHEET NUMBER →	EXTERIOR ELEVATION MARK	CENTERLINE
ELEVATION NUMBER(S) → D1 SIM SHEET NUMBER →	INTERIOR ELEVATION MARK	LEVEL DESCRIPTION → LEVEL ELEVATION → ELEVATION MARK
SECTION NUMBER(S) → 1 SIM SHEET NUMBER →	BUILDING SECTION MARK	ELEVATION → SPOT ELEVATION MARK
SECTION NUMBER → 1 SIM SHEET NUMBER →	WALL SECTION MARK	AREA → AREA → MATCH LINE
SHEET NUMBER → 1/A101 DETAIL NUMBER → 1/A101 SECTION DETAIL MARK	SECTION DETAIL MARK	CLOUDED AREA OF REVISION → REVISION NUMBER (SHEET SPECIFIC) → REVISION CLOUD AND MARK
REFERENCE LABEL DETAIL NUMBER SHEET NUMBER LARGE SCALE BLOWUP OF PLAN OR DETAIL	LARGE SCALE BLOWUP OF PLAN OR DETAIL	REVISION CLOUD AND MARK
WALL TYPE → XX	WALL TAG	NEW DOOR AND FRAME NEW CONSTRUCTION
WALL TYPE → CWXX	CURTAIN WALL (CW) & STOREFRONT (SF) TAG	ARCHITECTURAL SYMBOLS CONCRETE STONE GWB RIGID INSULATION MASONRY - BRICK COMPACTED FILL PLYWOOD TILE (SECTION) WOOD INSULATION CARPET TILE (SECTION) RESILIENT FLOORING (SECTION) SPORTS FLOORING (SECTION) PORCELAIN TILE (SECTION) WOOD (CONTINUOUS) WOOD (DISCONTINUOUS)
DENOTES EXTERIOR OPENING NUMBERED SEQUENTIALLY →	EXTERIOR OPENING TAG WINDOW (W)	
ROOM NAME → ROOM NAME ROOM NUMBER → ### ROOM AREA → # SF	ROOM TAG	
GRID REFERENCE GRID LINE →	NEW COLUMN GRID AND MARK	
→ ###	DRAWING KEYNOTE	
ROOM NUMBER SERVED BY DOOR SUFFIX ADDED IF MULTIPLE DOORS SERVE SAME ROOM	DOOR TAG	
PROJECT NORTH → N MAGNETIC NORTH	NORTH ARROW	

CONCRETE

STONE

GWB

RIGID INSULATION

MASONRY - BRICK

COMPACTED FILL

PLYWOOD

TILE (SECTION)

WOOD

INSULATION

CARPET TILE (SECTION)

RESILIENT FLOORING (SECTION)

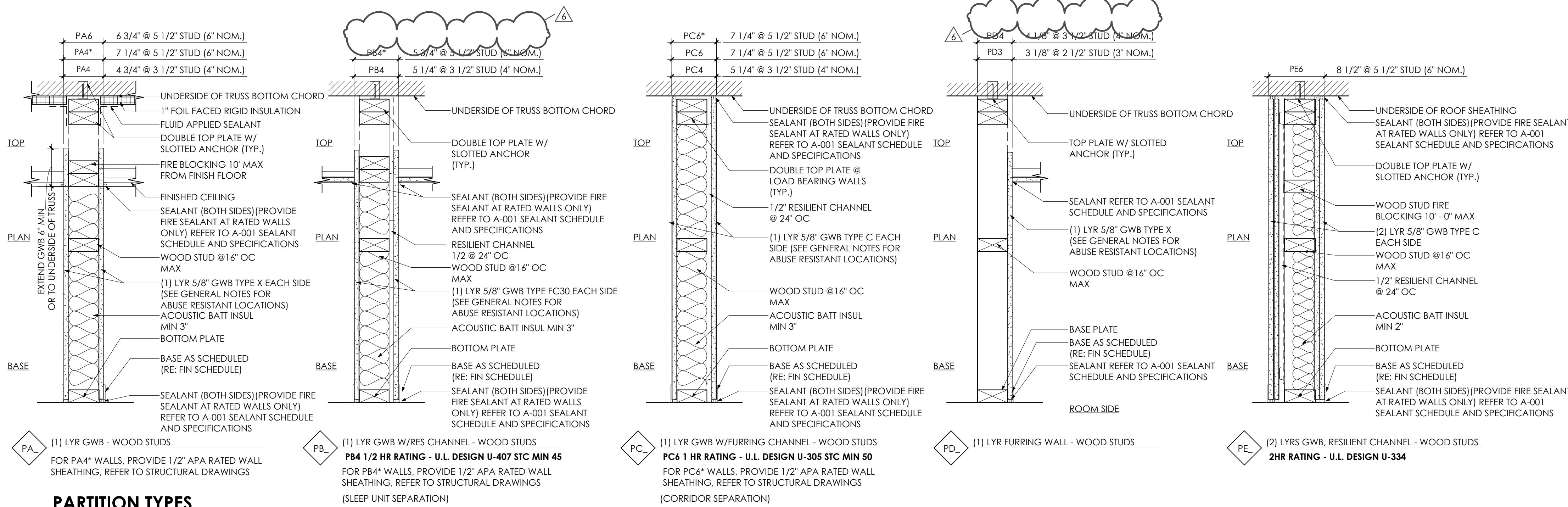
SPORTS FLOORING (SECTION)

PORCELAIN TILE (SECTION)

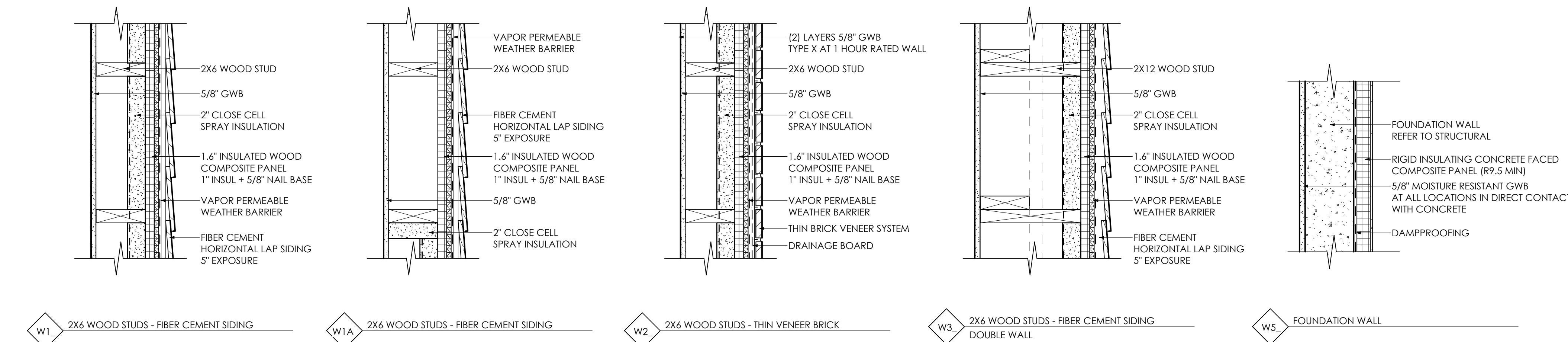
WOOD (CONTINUOUS)

WOOD (DISCONTINUOUS)

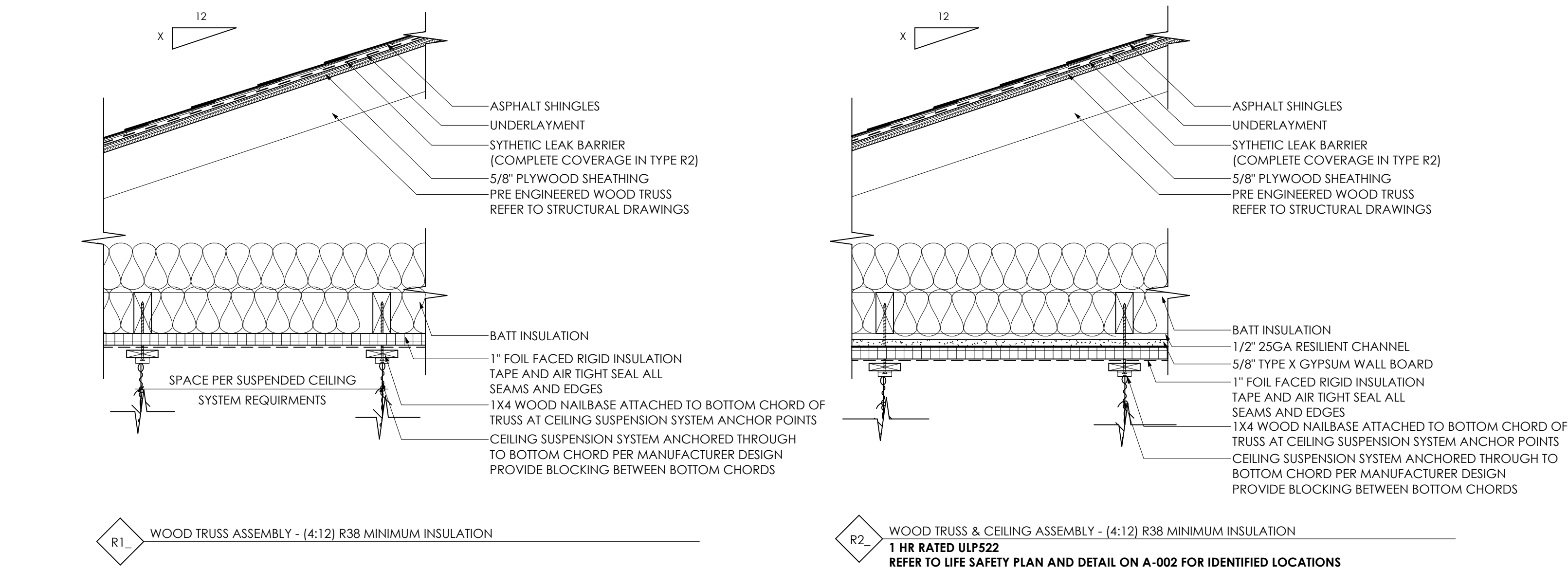
Three restroom signs are shown. The first sign is for Women, featuring a female icon and a wheelchair icon, with the text 'WOMEN' and '40%'. The second sign is for Men, featuring a male icon and a wheelchair icon, with the text 'MEN' and '2%'. The third sign is for All Gender Restroom, featuring icons for a female, a male, a combined gender figure, and a wheelchair icon, with the text 'ALL GENDER RESTROOM' and '111, 8478, 80, 765, 900'.



PARTITION TYPES



WALL TYPES

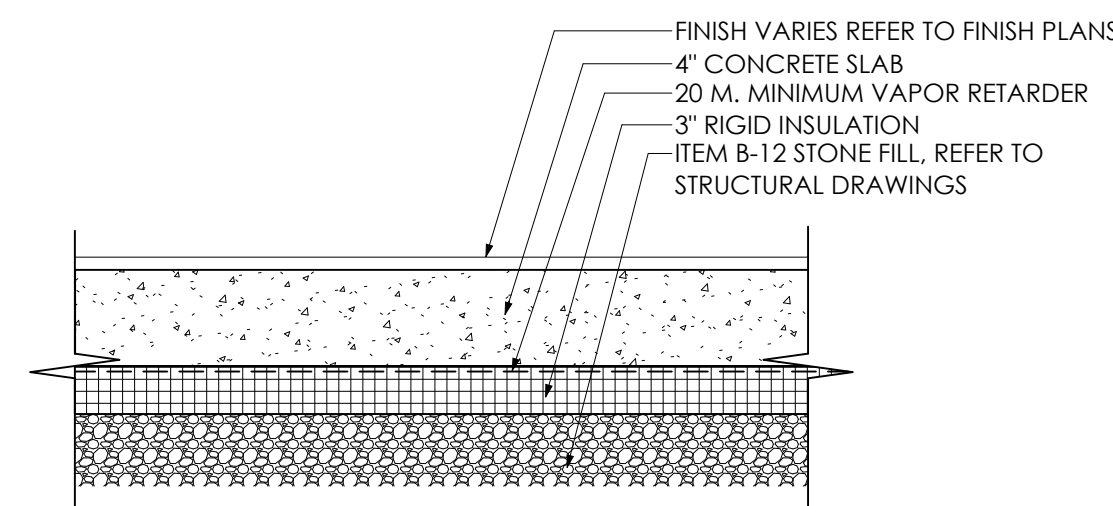


ROOF TYPES

SEALANT SCHEDULE

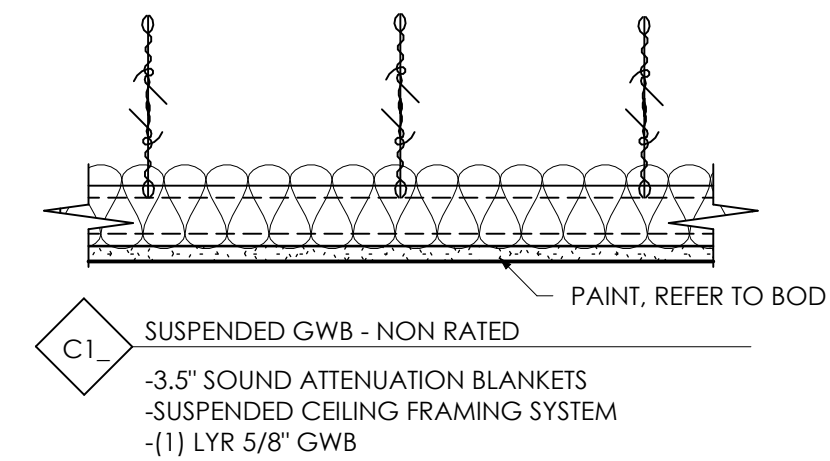
REFER TO SPECIFICATION SECTION 079200 JOINT SEALERS FOR DETAILED INFORMATION ON SEALANT TYPES AND APPROPRIATE USE LOCATIONS
 SEALANT TO BE PROVIDED AT ALL MATERIAL CHANGES
 NOT ALL INSTANCES ARE SHOWN

TYPE 1 (VERTICAL HEIGHT MOVEMENT)
 TYPE 1A (HORIZONTAL JOINTS)
 TYPE 1D (INTERIOR WET AREAS)
 TYPE 2 (INTERIOR WET AREAS LESS THEN 3/16")
 TYPE 2A (JOINTS AND CRACKS LESS THEN 3/16")
 TYPE 3 (CONCEALED BEDDING)
 TYPE 5 (FIRE RATED CONSTRUCTION)
 TYPE 6 (FLEXIBLE SECURITY SEALANT)



SLAB ASSEMBLY

- GENERAL WALL NOTES:
 A. PROVIDE GLASSMAT BOARD AT WET / TILE LOCATIONS (TOILET ROOMS, UTILITY, ETC)
 B. PROVIDE WATERPROOFING SHEET MEMBRANE AT WET, TILED LOCATIONS IN TOILET RMS FULL HEIGHT OF WALLS.
 C. GYPSUM WALL BOARD TO EXTEND TO UNDERSIDE OF STRUCTURE, UNO.
 D. WHERE FIRE SEALANT IS REQUIRED, PROVIDE CONTINUOUS INSTALLATION AT EACH SIDE OF PARTITION, TOP AND BOTTOM WITH REQUIRED BACKING AND TO MATCH U.L. REQUIREMENTS. FOR NON RATED PARTITIONS PROVIDE ACOUSTICAL SEALANT.
 E. WHERE ACOUSTICAL BATTEN INSULATION IS INDICATED, PROVIDE BATT THAT IS FULL WIDTH OF STUD CAVITY. AT NOTED STC PARTITIONS RATINGS ARE MINIMUM ACOUSTICAL PERFORMANCE REQUIREMENTS FOR SYSTEMS
 F. AT INTERSECTIONS OF DISSIMILAR PARTITION TYPES, RUN HIGHEST RATED PARTITION THRU INTERSECTION TO MAINTAIN ENCLOSURE AND CONTINUITY OF HIGHEST FIRE AND ACOUSTIC RATING. MAINTAIN CONTINUITY OF FIRE AND SOUND RATING OF RATED PARTITIONS AT INTERSECTIONS WITH COLUMN ENCLOSURES BY EXTENDING PARTITION AROUND COLUMN.
 G. AT WALL MOUNTED DEVICE LOCATIONS PROVIDE WOOD BLOCKING FULL WIDTH OF STUD CAVITY. COORDINATE HEIGHT REQUIREMENTS WITH DEVICES.
 H. PROVIDE ABUSE RESISTANT GYPSUM WALL BOARD AT EXERCISE ROOM AND CORRIDOR LOCATIONS.

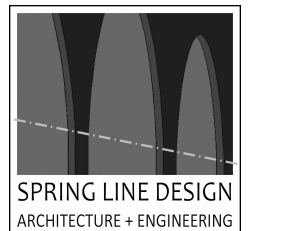


CEILING TYPES

CONSULTANT:
 CERTIFICATE OF AUTHORIZATION: 1127432



Architectural Resources
LAKHANI & JORDAN
 ENGINEERS, P.C.



Tectonic
 PRACTICAL SOLUTIONS. INNOVATIVE SERVICES.
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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.



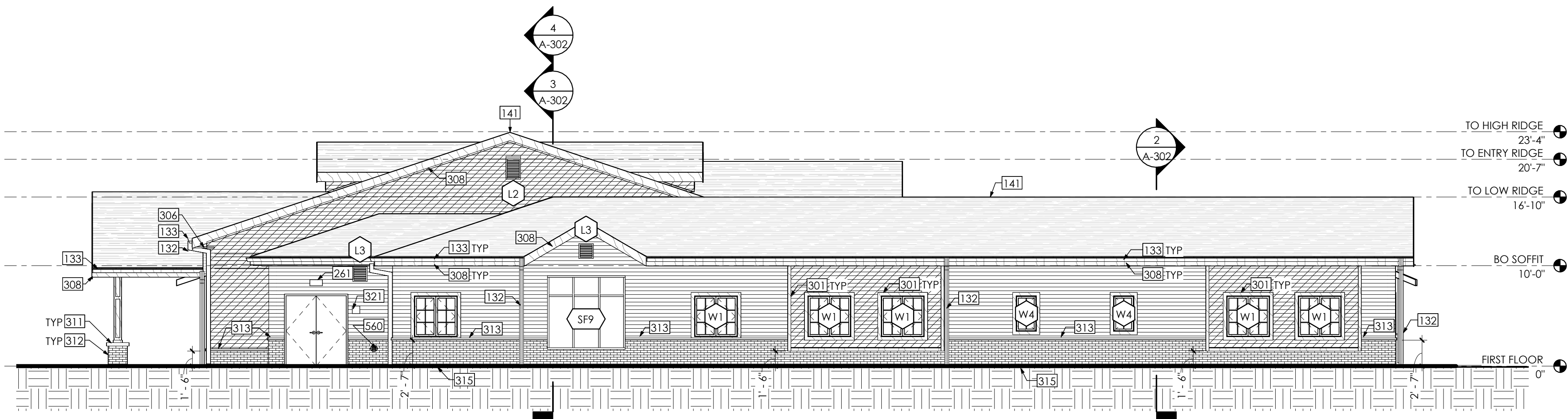
WE HEREBY AFFIRM THAT TO THE BEST OF OUR KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AND THE 2020 NEW YORK STATE UNIFORM BUILDING CODE.

CONTRACT: CONSTRUCTION
 TITLE: PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER
 LOCATION: 80-45 WINCHESTER BLVD QUEENS VILLAGE, NY
 CLIENT: OFFICE OF MENTAL HEALTH

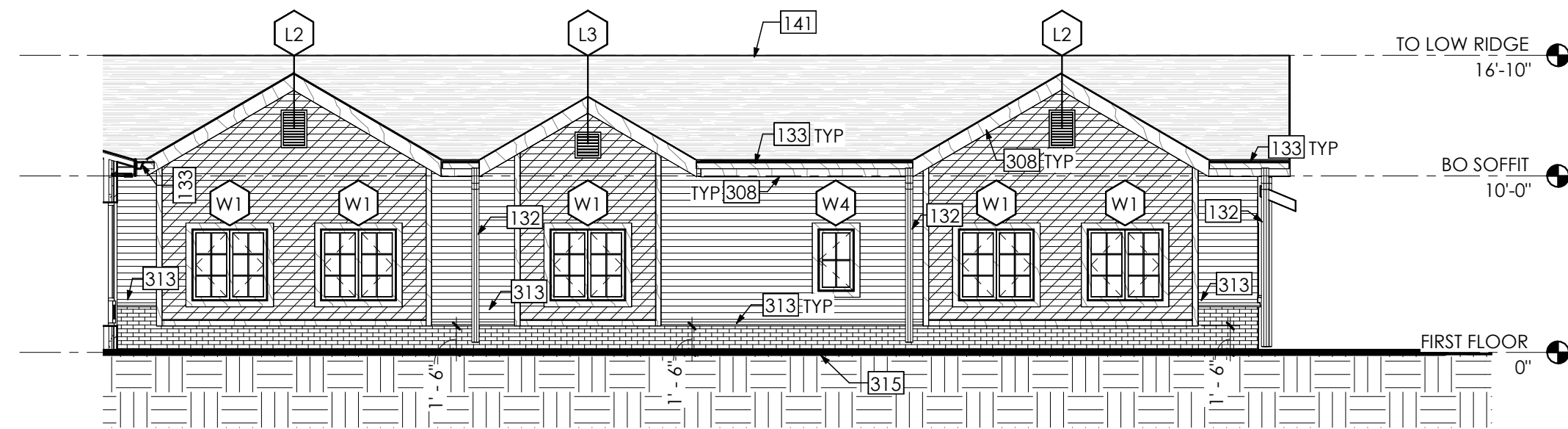
6	07/20/2026	ADDENDUM 6
	10/17/2025	BID DOCUMENTS
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47688-C	
DESIGNED BY:	JDD	
DRAWN BY:	JDD	
FIELD CHECK:		
APPROVED:		
SHEET TITLE:		

CONSTRUCTION TYPES

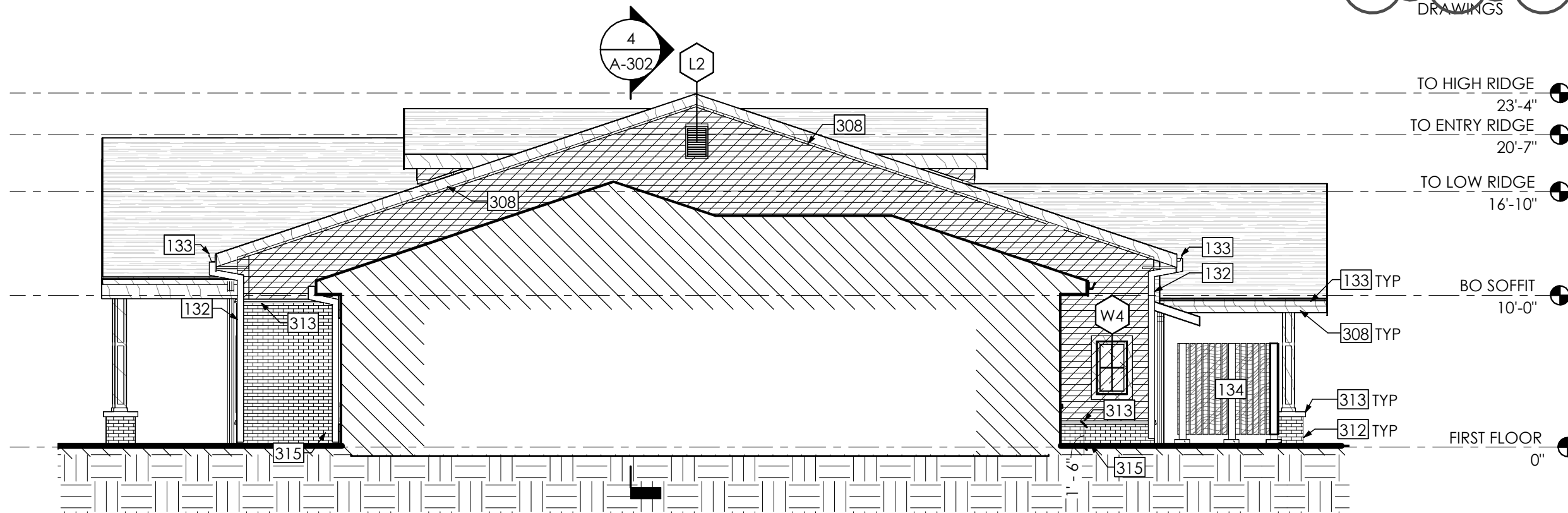
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 A-001



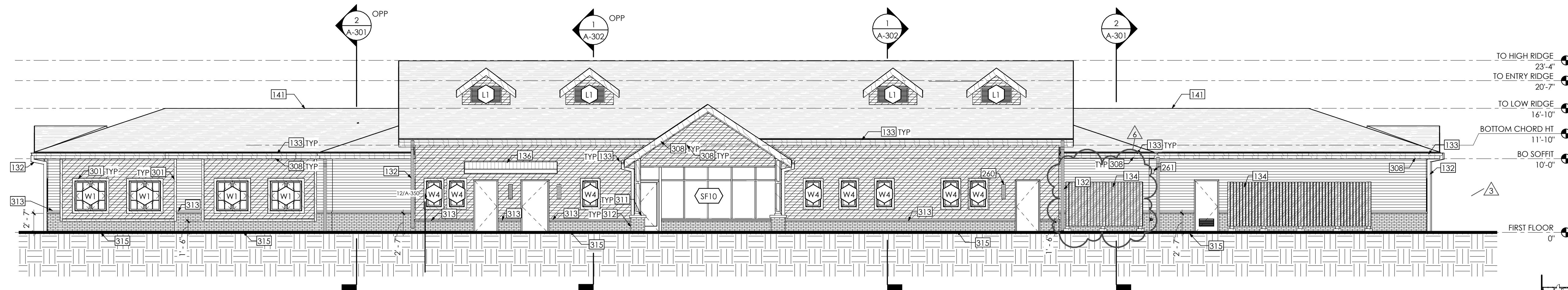
4 SOUTH WING ELEVATION
1/8" = 1'-0"



3 FORECOURT - SOUTH WING
1/8" = 1'-0"



2 ENTRY - NORTH SIDE
1/8" = 1'-0"



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

GENERAL NOTES

- REFER TO SHEET G-001 FOR GENERAL NOTES AND WALL TYPES.
- DIMENSIONS ARE TO FINISHED FACE OF SURFACES UNLESS OTHERWISE NOTED.
- DO NOT SCALE DRAWINGS OR DETAILS.

EXTERIOR MATERIALS

- THIN BRICK VENEER
- FIBER CEMENT LAP SIDING 5" EXPOSURE - COLOR 1
- FIBER CEMENT LAP SIDING 5" EXPOSURE - COLOR 2 (ALL BOXOUTS AND CENTER STRUCTURE)
- FIBER CEMENT FASCIA & TRIM BOARD
- ASPHALT SHINGLES
- COMPOSITE WOOD SCREEN

DRAWING NOTES

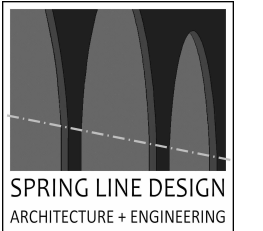
- 132 DOWNSPOUT, REFER TO CIVIL DRAWINGS
- 133 GUTTER
- 134 COMPOSITE WOOD EQUIPMENT SCREEN WALL
- 136 STANDING SEAM METAL ROOF AWNING
- 141 RIDGE VENT
- 260 EXTERIOR WALL SCONCE LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 261 EXTERIOR WALL PACK LIGHTING FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 301 4 INCH FIBER CEMENT EXTERIOR TRIM BOARD
- 306 PERFORATED FIBER CEMENT SOFFIT BOARD
- 308 1 BY 12 INCH FIBER CEMENT FACIA BOARD
- 311 PRECAST CONCRETE SILL CAP, SEE 2/A-320
- 312 THIN BRICK VENEER COLUMN BASE
- 313 PRECAST CONCRETE TRIM CAP
- 315 CONCRETE FACED RIGID INSULATION COVERBOARD
- 321 PROVIDE KNOX BOX, COORDINATE FINAL LOCATION WITH FIRE OFFICIAL, COORDINATE KEYING WITH DIRECTORS REPRESENTATIVE
- 560 PROVIDE SIMMESE CONNECTION, REFER TO PLUMBING AND FIRE PROTECTION DRAWINGS

CONSULTANT:
CERTIFICATE OF AUTHORIZATION: 1127432



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CONTRACT: CONSTRUCTION

TITLE: PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER

LOCATION: 80-45 WINCHESTER BLVD QUEENS VILLAGE, NY

CLIENT: OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
6	07/20/2026	ADDENDUM 6
3	06/12/2026	ADDENDUM 3
10/17/2025		BID DOCUMENTS

PROJECT NUMBER: 47688-C

DESIGNED BY: JDD

DRAWN BY: LH | JDD | CMW

FIELD CHECK:

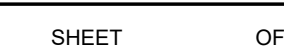
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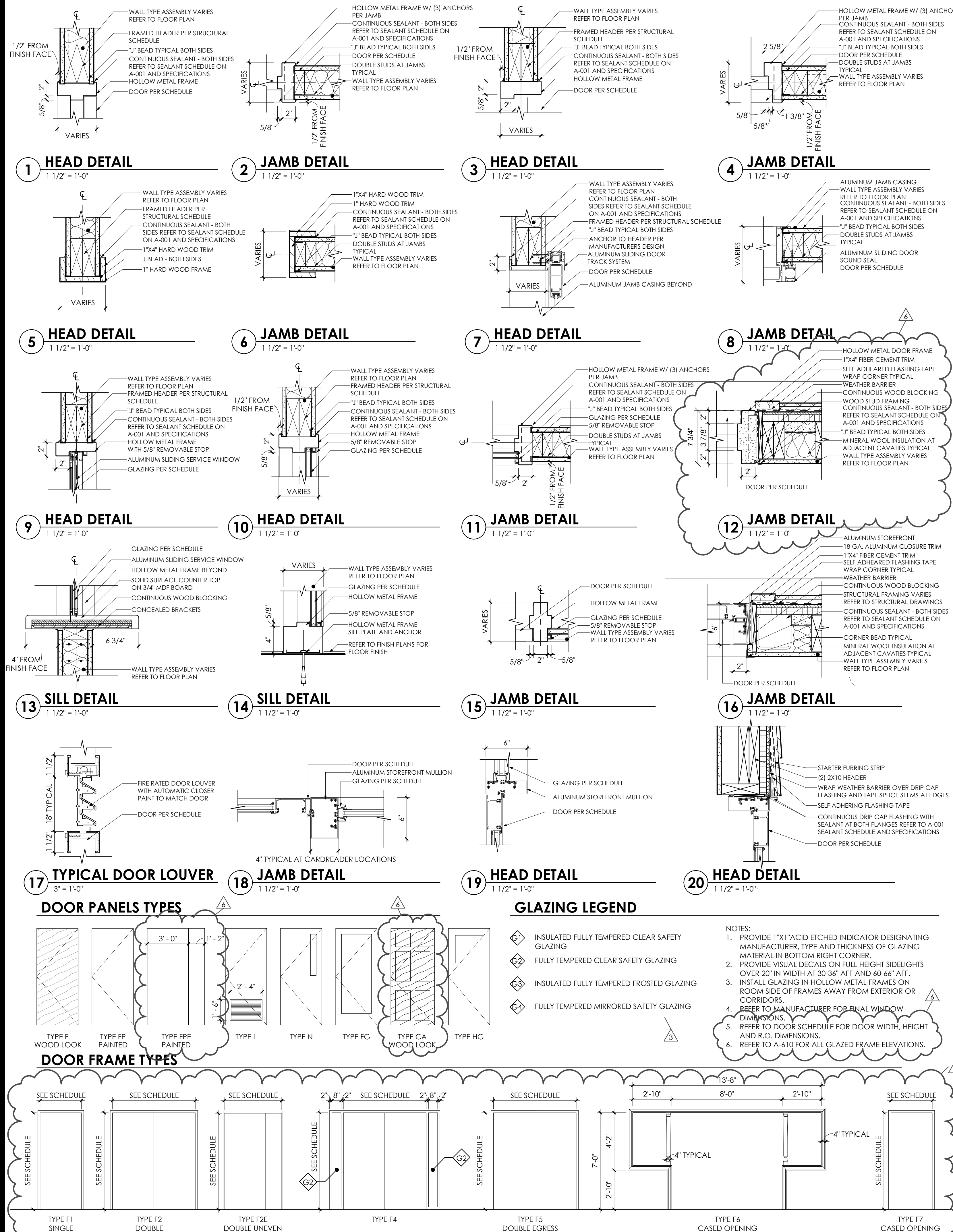
SHEET TITLE:

BUILDING ELEVATIONS

DRAWING NUMBER: A-202

SHEET OF





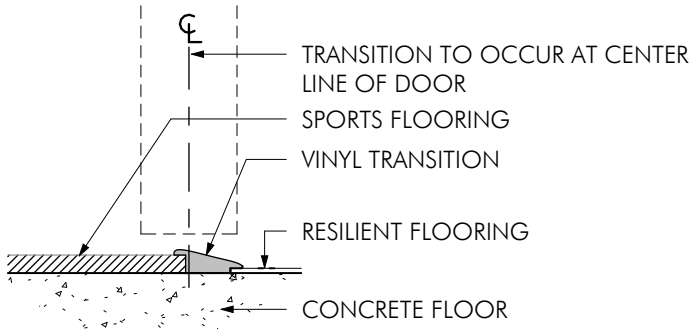
DOOR SCHEDULE														
DOOR NUMBER	DOOR			ROUGH OPENING (HEIGHT)	ROUGH OPENING (WIDTH)	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FRAME			FIRE RATING (MINS)	HARDWARE
	WIDTH	HEIGHT	THICKNESS							HEAD DETAIL	JAMB DETAIL	SILL DETAIL		
AT1C-1	4'-2"	6'-8"	1 3/4"	7'-0"	4'-6"	FFP	HM	F2E	HM	1/A-600	2/A-600	-		21
C001	3'-4"	7'-0"	1 3/4"			FG	ALUMN	SF1	ALUMN	20/A-600	16,18/A-600	1/A-321		1.0
C01A	3'-4"	7'-0"	1 3/4"			FG	ALUMN	SF3	ALUMN	19/A-600	16,18/A-600	-		3.0
C02	3'-6"	7'-0"	1 3/4"	7'-4"	3'-10"	F	HM	F1	HM	15/A-320	12/A-600	14/A-320		26.0
C-100	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	N	HM	F1	HM	1/A-600	2/A-600	TR1/A-800		4.0
C-100A	5'-0"	7'-0"	1 3/4"	7'-2"	5'-4"	F	HM	F2	HM	1/A-600	2/A-600	-		6.0
C-101	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	HG	HM	F1	HM	1/A-600	2/A-600	TR1/A-800		4.0
C-101A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	N	HM	F1	HM	1/A-600	2/A-600	-		7.0
C-102	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	-		5.0
C-103	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800		16.0
C-104	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800		16.0
C-105	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	N	HM	F1	HM	1/A-600	2/A-600	-		4.0
C-105A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800		16.0
C-105B	3'-0"	7'-0"	1 3/4"	7'-4"	3'-4"	F	HM	F1	HM	15/A-320	12/A-600	14/A-320		18.0
C-106	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	N	HM	F1	HM	1/A-600	2/A-600	-		11.0
C-106A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		10.0
C-106B	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		5.0
C-106C	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		10.0
C-107	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		10.0
C-108A	2'-8"	7'-0"	1 3/4"	7'-2"	3'-0"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800		12.0
C-108B	3'-0"	7'-0"	1 3/4"			FG	HM	HM4	HM	19/A-600	2,18/A-600	-		9.0
C-108C	3'-0"	7'-0"	1 3/4"			FG	HM	HM4	HM	19/A-600	2,18/A-600	-		9.0
C-108D	3'-0"	7'-0"	1 3/4"			FG	ALUMN	SF10	ALUMN	2/A-321	16,18/A-600	1/A-321		19
C-108E	8'-0"	7'-0"		7'-0"	8'-0"	-	-	F6	WD	5/A-600	6/A-600	TH2/A-800		-
C-109	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	-		5.0
C-109A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	-		10.0
C-110	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	TR3/A-800		5.0
C-110A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	-	45MIN	13.0
C-110B	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	-		10.0
C-110C	3'-0"	7'-0"	1 3/4"	7'-4"	3'-4"	F	HM	F1	HM	15/A-320	12/A-600	14/A-320		19.0
C-110D	6'-0"	7'-0"	1 3/4"	7'-2"	6'-4"	F	HM	F2	HM	15/A-320	12/A-600	14/A-320		20.0
C-110E	3'-0"	6'-8"		6'-8"	3'-0"	-	-	F7	WD	5/A-600	6/A-600	-		-
C-111	3'-0"	7'-0"	1 3/4"			FG	HM	HM7	HM	1/A-600	2/A-600	-		8.0
C-112	3'-0"	7'-0"	1 3/4"			FG	HM	HM5	HM	1/A-600	2/A-600	-		8.0
C-113	3'-0"	7'-0"	1 3/4"			FG	HM	HM6	HM	1/A-600	2/A-600	TR2/A-800		8.0
C-114	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FG	HM	F1	HM	1/A-600	2/A-600	-		8.0
C-114A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		8.0
N-001	5'-9"	7'-0"	1 3/4"	6'-1"	7'-2"	N	HM	F5	HM	3/A-600	4/A-600	-	45MIN	22.0
N-100	5'-10"	7'-0"	1 3/4"			FG	ALUMN	F4	ALUMN	7/A-600	8/A-600	-		-
N-100A	4'-0"	7'-0"	1 3/4"	7'-2"	4'-4"	FP	HM	F2	HM	1/A-600	2/A-600	-	45MIN	15.0
N-100C	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	14.0
N-100D	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	10.0
N-100E	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FG	ALUMN	SF8	ALUMN	20/A-600	16,18/A-600	1/A-321		2.0
N-101	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	L	HM	F1	HM	1/A-600	2/A-600	TH1/A-800		13.0
N-102	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-102A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-103	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-103A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-104	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-104A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-105	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	17.0
N-106	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-106A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-107	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-107A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-108	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-108A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-109	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-109A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-110	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	17.0
N-111	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	17.0
N-112	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-112A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-113	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-113A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-114	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-114A	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-115	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-115A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-116	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-116A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-117	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-117A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
N-118	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
N-118A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
S-001	5'-9"	7'-0"	1 3/4"	6'-1"	7'-2"	N	HM	F5	HM	3/A-600	4/A-600	-	45MIN	22.0
S-100	5'-10"	7'-0"	1 3/4"			FG	ALUMN	F4	ALUMN	7/A-600	8/A-600	-		-
S-100A	4'-0"	7'-0"	1 3/4"	7'-2"	4'-4"	FP	HM	F2	HM	1/A-600	2/A-600	-	45MIN	15.0
S-100C	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FP	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	14.0
S-100D	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	FG	ALUMN	SF8	ALUMN	20/A-600	16,18/A-600	1/A-321		2.0
S-101	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	L	HM	F1	HM	1/A-600	2/A-600	TH1/A-800	45MIN	13.0
S-102	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
S-102A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
S-103	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-600	-	45MIN	23.0
S-103A	2'-0"	7'-0"	1 3/4"	7'-2"	2'-4"	F	HM	F1	HM	1/A-600	2/A-600	-		24.0
S-104	3'-0"	7'-0"	1 3/4"	7'-2"	3'-4"	CA	HM	F1	HM	1/A-600	2/A-6			

BASIS OF DESIGN			
033000 CAST-IN-PLACE CONCRETE SC1: SEALED CONCRETE NOTE: REFER TO SPECIFICATIONS LOCATION: REFER TO FINISH PLANS 064116 PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS PL1: PLASTIC LAMINATE MANUFACTURER: LAB DESIGNS STYLE: RIFTWOOD VN520 FINISH: SUPER MATTE APPLICATION: VERTICAL LOCATION: ALL GENERAL MILLWORK, UNO 093013 CERAMIC TILE CT1: CERAMIC FLOOR TILE MANUFACTURER: DALTILE STYLE: KEYSTONES COLOR: URBAN PUTTY SPECKLE D201 FINISH: MATTE SIZE: 2' X 2' X 1/4" TH GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CT1 FLOOR TILE) LOCATION: TOILET ROOMS, JANITOR'S CLOSETS, LAUNDRY ROOMS, REFER TO FINISH PLANS NOTE: CENTER TILES ON FLOORING AND AVOID SLIVER CUTS WHERE POSSIBLE CT2: PORCELAIN FLOOR TILE MANUFACTURER: CROSSVILLE STYLE: ARGENT COLOR: A1419 MUDDY WATERS UPS FINISH: MATTE SIZE: 12" X 24" X 95/254" TH GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CT2 FLOOR TILE) LOCATION: KITCHEN, REFER TO FINISH PLANS NOTE: CENTER TILES ON FLOORING AND AVOID SLIVER CUTS WHERE POSSIBLE CWT1: PORCELAIN WALL TILE MANUFACTURER: CROSSVILLE STYLE: RETRO ACTIVE COLOR: RET05 SNOW BLIND FINISH: MATTE SIZE: 12" X 24" PATTERN: STACKED GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CWT1 WALL TILE) LOCATION: BATHROOMS, FULL HEIGHT ALL WALLS, UNO, REFER TO FINISH PLANS NOTE: CENTER ON WALLS, REFER TO INTERIOR ELEVATIONS, AVOID SLIVER CUTS WHERE POSSIBLE. CWT2: PORCELAIN WALL TILE MANUFACTURER: CROSSVILLE STYLE: RETRO ACTIVE COLOR: RET03 FEATHERSTONE UPS FINISH: MATTE SIZE: 12" X 24" PATTERN: STACKED GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CWT2 WALL TILE) LOCATION: BATHROOMS, FULL HEIGHT ACCENT WALL, REFER TO FINISH PLANS NOTE: CENTER ON WALLS, REFER TO INTERIOR ELEVATIONS, AVOID SLIVER CUTS WHERE POSSIBLE. WB7: PORCELAIN WALL BASE MANUFACTURER: CROSSVILLE STYLE: ARGENT COLOR: A1419 MUDDY WATERS UPS FINISH: MATTE SIZE: 4" X 24" X 95/254" TH STYLE: SINGLE BULLNOSE GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CT2 FLOOR TILE) LOCATION: KITCHEN, REFER TO FINISH PLANS WB8: PORCELAIN WALL BASE MANUFACTURER: DALTILE STYLE: KEYSTONES COLOR: URBAN PUTTY SPECKLE D201 FINISH: MATTE SIZE: ROWS 2" X 2" X 1/4" TH STYLE: BUILD-UP BASE M85A GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CT1 FLOOR TILE) LOCATION: TOILET ROOMS, REFER TO FINISH PLANS	093013 CERAMIC TILE, CONT. WB9: PORCELAIN WALL BASE MANUFACTURER: DALTILE STYLE: KEYSTONES COLOR: URBAN PUTTY SPECKLE D201 FINISH: MATTE SIZE: ROWS 2" X 2" STYLE: BUILD-UP COVE BASE M85B GROUT: EPOXY, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE (COLOR TO MATCH CT1 FLOOR TILE) LOCATION: LAUNDRY ROOMS, JANITOR'S CLOSETS, REFER TO FINISH PLANS TH1: THRESHOLD, SOLID SURFACING MANUFACTURER: CORIAN SOLID SURFACE COLOR: CLAM SHELL STYLE: ADA COMPLIANT, SEE DETAIL LOCATION: TOILET ROOMS, JANITOR'S CLOSETS, LAUNDRY ROOMS, REFER TO FINISH PLANS TH2: THRESHOLD, SOLID SURFACING MANUFACTURER: CORIAN SOLID SURFACE COLOR: DOESKIN STYLE: ADA COMPLIANT, SEE DETAIL LOCATION: KITCHEN, REFER TO FINISH PLANS 096513 RESILIENT BASE AND ACCESSORIES WB1: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: BASEWORKS, COVE BASE, CONTINUOUS ROLL SIZE: 4" H COLOR: 68 WHITE SAND W LOCATION: GENERAL WALL BASE, UNO NOTE: BASE COLOR TO MATCH GENERAL PAINT IP1, REFER TO FINISH PLANS WB2: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: MILLWORK, AMBASSADOR SIZE: 4" H X 8" L COLOR: 68 WHITE SAND W LOCATION: CORRIDORS, REFER TO FINISH PLAN NOTE: BASE COLOR TO MATCH GENERAL PAINT IP1 WB3: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: BASEWORKS, STRAIGHT BASE, CONTINUOUS ROLL SIZE: 4" H COLOR: 68 WHITE SAND W LOCATION: REFER TO FINISH PLAN NOTE: BASE COLOR TO MATCH GENERAL PAINT IP1 WB4: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: BASEWORKS, COVE BASE, CONTINUOUS ROLL SIZE: 4" H COLOR: 11 CANVAS W8 LOCATION: BEDROOMS, UNO, REFER TO FINISH PLANS NOTE: BASE COLOR TO MATCH GENERAL PAINT IP4 WB5: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: MILLWORK, AMBASSADOR SIZE: 4" H X 8" L COLOR: 09 CLAY W8 LOCATION: ACCENT CORRIDORS, REFER TO FINISH PLAN NOTE: BASE COLOR TO MATCH GENERAL PAINT IP5 WB6: RUBBER WALL BASE MANUFACTURER: JOHNSONITE STYLE: MILLWORK, AMBASSADOR SIZE: 4" H X 8" L COLOR: 11 CANVAS W8 LOCATION: FOYER LOUNGE, REFER TO FINISH PLAN NOTE: BASE COLOR TO MATCH GENERAL PAINT IP4 096543 LINOLEUM FLOORING RF1: LINOLEUM SHEET FLOORING MANUFACTURER: FORBO STYLE: MARMOLEUM STRIATO SIZE: 79" W X 105' L X 1/10" TH ROLL SIZE: 77 SQ YD COLOR: 5256 SILT STONE NOTE: WELDING RODS TO MATCH IN COLOR LOCATION: REFER TO FINISH PLANS RF2: LINOLEUM SHEET FLOORING MANUFACTURER: FORBO STYLE: MARMOLEUM STRIATO SIZE: 79" W X 105' L X 1/10" TH ROLL SIZE: 77 SQ YD COLOR: 5217 WITHERED PRAIRIE NOTE: WELDING RODS TO MATCH IN COLOR LOCATION: REFER TO FINISH PLANS	095123 ACOUSTICAL TILE CEILINGS ACT1: ACOUSTICAL CEILING TILE MANUFACTURER: ARMSTRONG STYLE: ULTIMA, HIGH NRC, #1912 EDGE: BEVELED TEGULAR SIZE: 24" X 24" X 3/4" TH COLOR: WHITE (WH) TEXTURE: FINE SUSPENSION SYSTEM: 9/16", SILHOUETTE 1/8" REVEAL LOCATION: REFER TO REFLECTED CEILING PLANS ACT2: ACOUSTICAL CEILING TILE MANUFACTURER: ARMSTRONG STYLE: CIRRUS, HIGH NRC, #558 EDGE: BEVELED TEGULAR SIZE: 24" X 24" X 7/8" TH COLOR: WHITE (WH) TEXTURE: MEDIUM SUSPENSION SYSTEM: 9/16", SUPRAFINE XL LOCATION: REFER TO REFLECTED CEILING PLANS 096566 RESILIENT ATHLETIC FLOORING RF3: RUBBER ATHLETIC FLOORING MANUFACTURER: MONDO STYLE: SPORT IMPACT THICKNESS: 3/8" ROLL SIZE: 6' W X 25' L COLOR: 008 BLACK TEXTURE: SEALSKIN LOCATION: EXERCISE ROOM, REFER TO FINISH PLANS 096813 TILE CARPETING CF1: CARPET TILE MANUFACTURER: INTERFACE STYLE: KNITSTITCH COLOR: 103341 SLATE/CURRY PATTERN: MONOLITHIC LOCATION: OFFICES, REFER TO FINISH PLANS 102600 WALL AND DOOR PROTECTION WC1: WALL COVERING MANUFACTURER: KOROSEAL STYLE: CUSTOM DIGITAL PRINTS, TYPE II VINYL SUBSTRATE: TO BE SELECTED BY DIRECTOR'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD OFFERING NOTE: PROVIDE LEVEL 5 GYPSUM BOARD FINISH LOCATION: REFER TO FINISH PLANS 102600 WALL AND DOOR PROTECTION FRP1: FIBERGLASS REINFORCED PLASTIC PANEL MANUFACTURER: MARLITE COLOR: P 100 WHITE LOCATION: JANITOR'S CLOSET, ALL WALLS FULL HEIGHT, REFER TO FINISH PLANS 099123 INTERIOR PAINTING IP1: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 7101 FUTON FINISH: REFER TO SPECIFICATIONS LOCATION: GENERAL, UNO, REFER TO FINISH PLANS IP2: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 7757 HIGH REFLECTIVE WHITE FINISH: REFER TO SPECIFICATIONS LOCATION: CEILING, UNO, REFER TO REFLECTED CEILING PLANS IP3: INTERIOR PAINT NOT USED IP4: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 9110 MALABAR FINISH: REFER TO SPECIFICATIONS LOCATION: BEDROOMS ALL WALLS, FOYER/LOUNGE ALL WALLS, REFER TO FINISH PLANS IP5: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #9111 ANTILER VELVET FINISH: REFER TO SPECIFICATIONS LOCATION: CORRIDOR ACCENT, REFER TO FINISH PLANS	099123 INTERIOR PAINTING, CONT. IP6: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 6226 LANGUID BLUE FINISH: REFER TO SPECIFICATIONS LOCATION: SMALL MULTIPURPOSE, REFER TO FINISH PLANS IP7: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 9135 WHIRLPOOL FINISH: REFER TO SPECIFICATIONS LOCATION: EXERCISE ROOM, REFER TO FINISH PLANS IP8: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 6228 REFUGE FINISH: REFER TO SPECIFICATIONS LOCATION: LARGE MULTIPURPOSE, REFER TO FINISH PLANS IP9: INTERIOR PAINT MANUFACTURER: SHERWIN WILLIAMS STYLE: REFER TO SPECIFICATIONS COLOR: #SW 9129 JADE DRAGON FINISH: REFER TO SPECIFICATIONS LOCATION: DINING ACCENT, REFER TO FINISH PLANS 102600 WALL AND DOOR PROTECTION CG1: CORNER GUARD MANUFACTURER: INPRO COLOR: WHITE SAND 0103 SIZE: 3" WING, 48" HEIGHT NOTE: CORNER GUARD TO MATCH IP1 CG2: CORNER GUARD MANUFACTURER: INPRO COLOR: WHITE SAND 0103 SIZE: 3" WING, 96" HEIGHT NOTE: CORNER GAURD TO MATCH IP1 CG3: CORNER GUARD MANUFACTURER: INPRO COLOR: BISCOTTI 0250 SIZE: 3" WING, 48" HEIGHT NOTE: CORNER GAURD TO MATCH IP5 123661.16 SOLID SURFACING COUNTERTOPS SSM1: SOLID SURFACING MANUFACTURER: CORIAN SOLID SURFACE COLOR: WHIPPED CREAM THICKNESS: 1/2" TH LOCATION: GENERAL MILLWORK COUNTERTOPS AND BACKSPLASH, UNO, INCLUDING KITCHEN AND DINING ROOM SSM2: SOLID SURFACING MANUFACTURER: CORIAN SOLID SURFACE COLOR: WITCH HAZEL THICKNESS: 1/2" TH LOCATION: BATHROOMS SSM3: SOLID SURFACING MANUFACTURER: CORIAN SOLID SURFACE COLOR: DOVE THICKNESS: 1/2" TH LOCATION: LAUNDRY ROOMS 124813 ENTRANCE FLOOR MATS AND FRAMES FS1: FLOOR MAT SYSTEM MANUFACTURER: CS GROUP STYLE: PEDIGRID G1 DESCRIPTION: ALUMINUM GRID FRAME WITH CARPET INSERTS COLOR: MONOTUFF HD INSERT - 9322 SLATE LOCATION: VESTIBULE, FULL AREA, VERIFY DIMENSIONS IN FIELD NOTE: REFER TO STRUCTURAL DRAWINGS FOR COORDINATION OF SLAB DEPRESSION FLOORING THRESHOLDS AND TRANSITIONS TH1: REFER TO SECTION 093013 CERAMIC TILING TH2: REFER TO SECTION 093013 CERAMIC TILING TR1: TRANSITION, VINYL MANUFACTURER: JOHNSONITE STYLE: SJM LINE TRANSITION, SLT-XX-A FINISH: BEIGE LOCATION: RESILIENT FLOORING TO CARPET TILE TR2: TRANSITION, VINYL MANUFACTURER: JOHNSONITE STYLE: ADAPTOR, CTA-XX-K FINISH: BEIGE LOCATION: RESIL

A cross-sectional diagram of a resilient flooring transition assembly. The assembly consists of a concrete floor at the base, followed by a layer of carpet tile. Above the carpet tile is a resilient flooring layer. A vinyl transition piece is shown bridging the gap between the resilient flooring and the carpet tile. A dashed line indicates the transition to occur at the center line of the door. Labels with arrows point to the following components: TRANSITION TO OCCUR AT CENTER LINE OF DOOR, RESILIENT FLOORING, VINYL TRANSITION, CARPET TILE, and CONCRETE FLOOR.

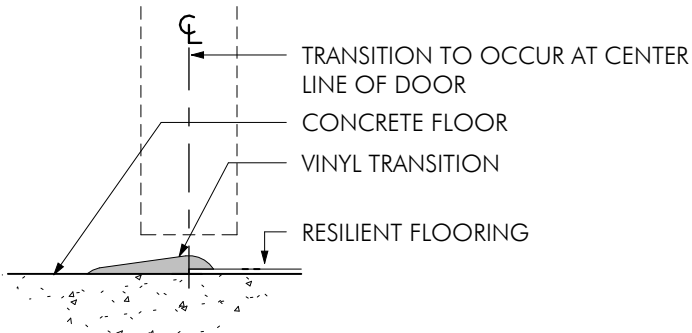
TR1

RESILIENT FLOORING TO CARPET TILE AT DOOR



TR2

RESILIENT FLOORING TO SPORTS FLOORING AT DOOR

**TR3**

RESILIENT FLOORING TO CONCRETE AT DOOR

Diagram illustrating the transition to occur at the center line of the door. The assembly includes resilient flooring, solid surfacing threshold, porcelain floor tile, and concrete floor. A 3/4" dimension is indicated for the transition area.

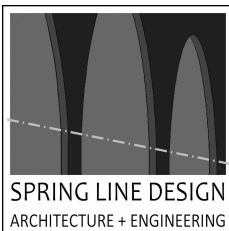
TYPICAL THRESHOLD

RESILIENT FLOORING TO PORCELAIN FLOOR TILE AT DOOR

CF	TILE CARPETING
CT	CERAMIC FLOOR TILE
CWT	CERAMIC WALL TILE
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
FS	FLOOR MAT SYSTEM
IP	INTERIOR PAINT
PL	PLASTIC LAMINATE
RF	RESILIENT FLOORING
S5M	SOLID SURFACING
SC	SEALED CONCRETE
TH	THRESHOLD
TR	TRANSITION
WB	WALL BASE
WC	WALL COVERING

A r

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REGISTRATION EXP. 12/31/2026

CONTRACT: CONSTRUCTION

TITLE: **PROVIDE TRANSITIONAL RESIDENCE,
SOUTH CAMPUS CREEDMOOR
PSYCHIATRIC CENTER**

LOCATION: 80-45 WINCHESTER BLVD
QUEENS VILLAGE, NY

CLIENT: OFFICE OF MENTAL HEALTH

[illegible]

PROJECT NUMBER:	47688-C
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DESIGNED BY:	KCG MMM
DRAWN BY:	MMM

FIELD CHECK

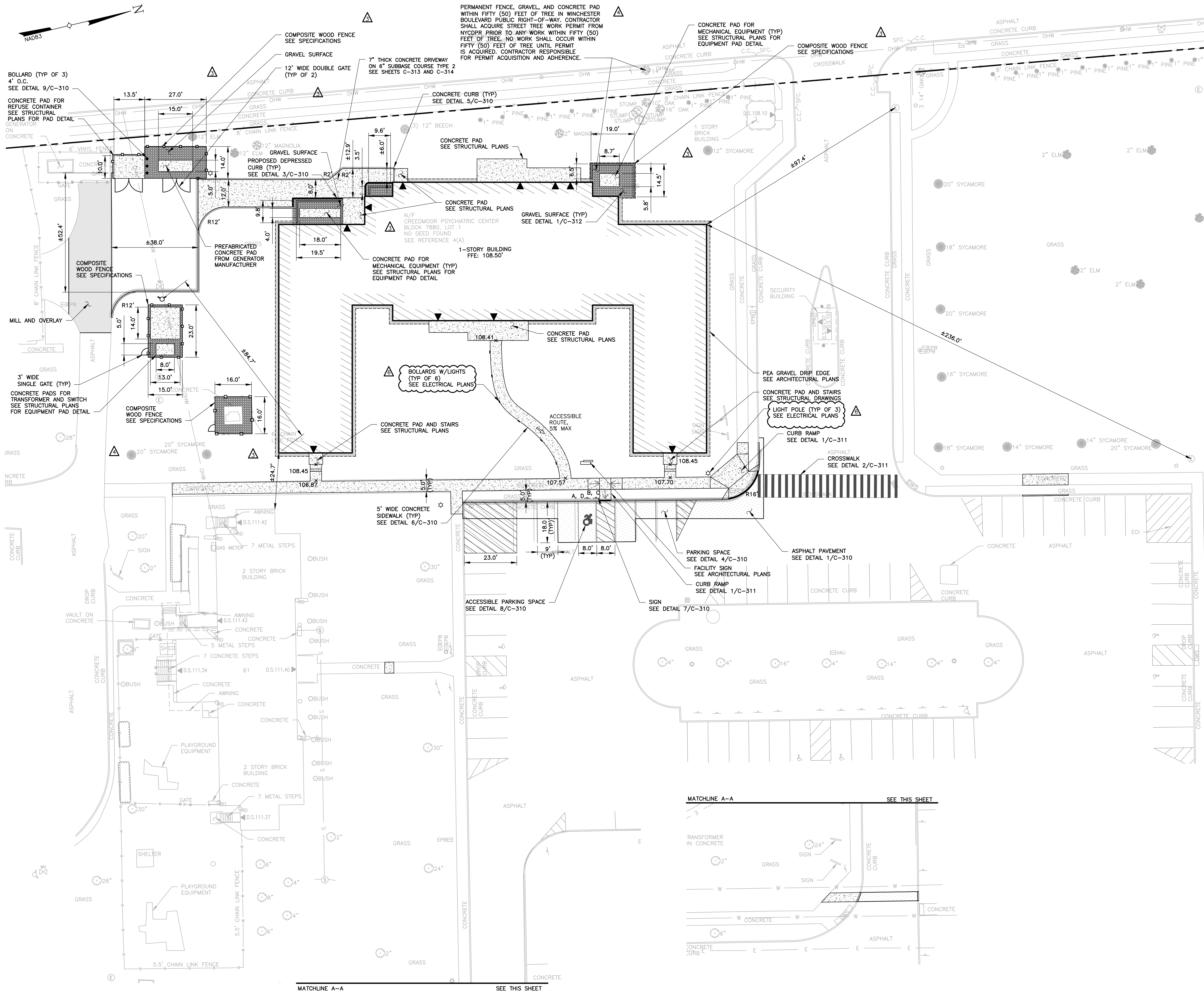
SHEET TITLE:

BASIS OF DESIGN - FINISH AND MATERIAL SPECIFICATIONS

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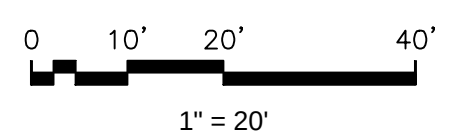
TECTONIC WORK ORDER NO.: 12546.01

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NEW YORK STATE Office of General Services

CONSULTANT

CERTIFICATE OF AUTHORIZATION: 1127432

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CONTRACT: CONSTRUCTION

TITLE: PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER

LOCATION: 80-45 WINCHESTER BLVD QUEENS, NY

CLIENT: OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
6	07/20/2026	ADDENDUM #6
4	06/17/2026	ADDENDUM #4
3	06/12/2026	ADDENDUM #3
	10/17/2025	BID DOCUMENTS

PROJECT NUMBER: 47688-C

DESIGNED BY: ZK

DRAWN BY: ECM

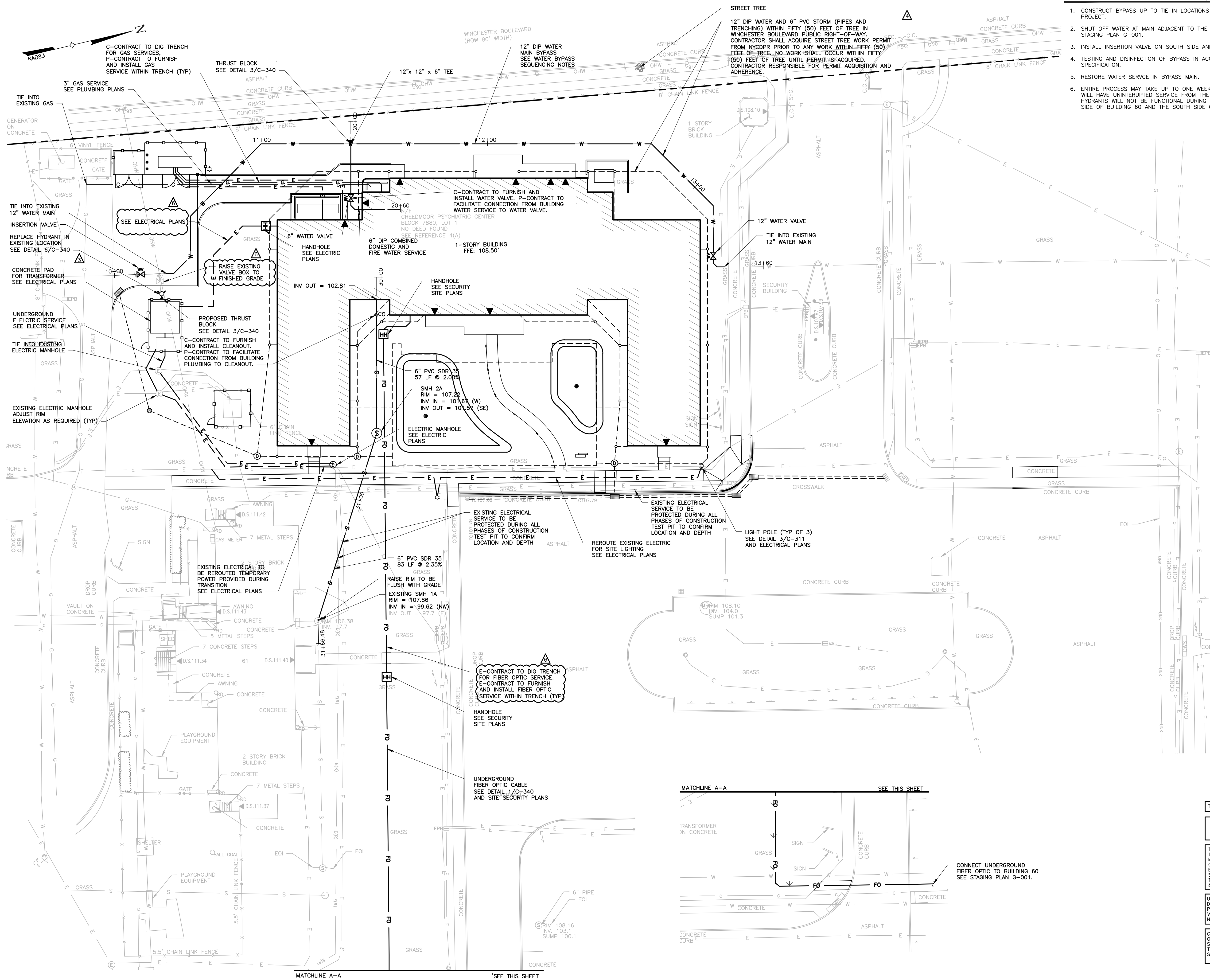
FIELD CHECK:

APPROVED:

SHEET TITLE: SITE PLAN

DRAWING NUMBER: C-102

SHEET OF



WATER BYPASS SEQUENCING NOTES

1. CONSTRUCT BYPASS UP TO TIE IN LOCATIONS ON NORTH AND SOUTH SIDES OF PROJECT.
2. SHUT OFF WATER AT MAIN ADJACENT TO THE WEST SIDE OF BUILDING 66. SEE STAGING PLAN G-001.
3. INSTALL INSERTION VALVE ON SOUTH SIDE AND ISOLATE WATER PIPE.
4. TESTING AND DISINFECTION OF BYPASS IN ACCORDANCE WITH NOTES AND PROJECT SPECIFICATION.
5. RESTORE WATER SERVICE IN BYPASS MAIN.
6. ENTIRE PROCESS MAY TAKE UP TO ONE WEEK. EXISTING BUILDINGS IN THE VICINITY WILL HAVE UNINTERRUPTED SERVICE FROM THE REMAINING WATER MAIN LOOP. TWO HYDRANTS WILL NOT BE FUNCTIONAL DURING THIS PROCESS, ADJACENT TO WEST SIDE OF BUILDING 60 AND THE SOUTH SIDE OF THE NEW BUILDING.

CONSULTANT

CERTIFICATE OF AUTHORIZATION: 1127432

Architectural Resources

LAKHANI & JORDAN
ENGINEERS, P.C.

SPRING LINE DESIGN
ARCHITECTURE + ENGINEERING

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.

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STATE OF NEW YORK

LOUIS JOSEPH GRECO

09862

REGISTERED PROFESSIONAL ENGINEER

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CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER

LOCATION:

80-45 WINCHESTER BLVD QUEENS, NY

CLIENT:

OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
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PROJECT NUMBER:

47688-C

DESIGNED BY:

ZK

DRAWN BY:

ECM

FIELD CHECK:

APPROVED:

SHEET TITLE:

UTILITY PLAN

DRAWING NUMBER:

C-105

SHEET

OF

Call Before You Dig
Wait The Required Time
Confirm Utility Response
Respect The Marks
Dig With Care
(800)272-4480
www.newyork-811.com

TECTONIC WORK ORDER NO.: 12546.01

UNLESS OTHERWISE NOTED, ALL INDICATED WORK SHALL BE PERFORMED BY THE CONSTRUCTION CONTRACTOR

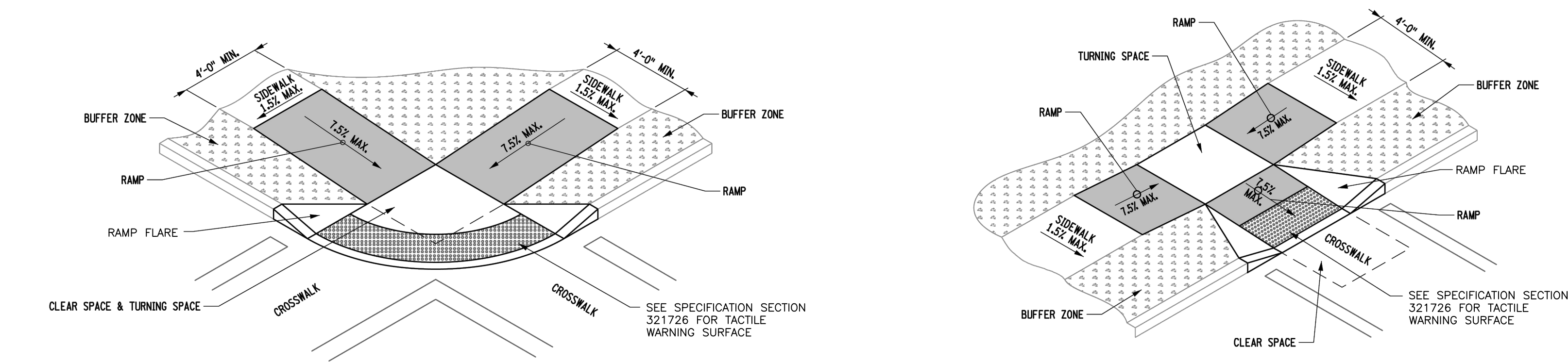
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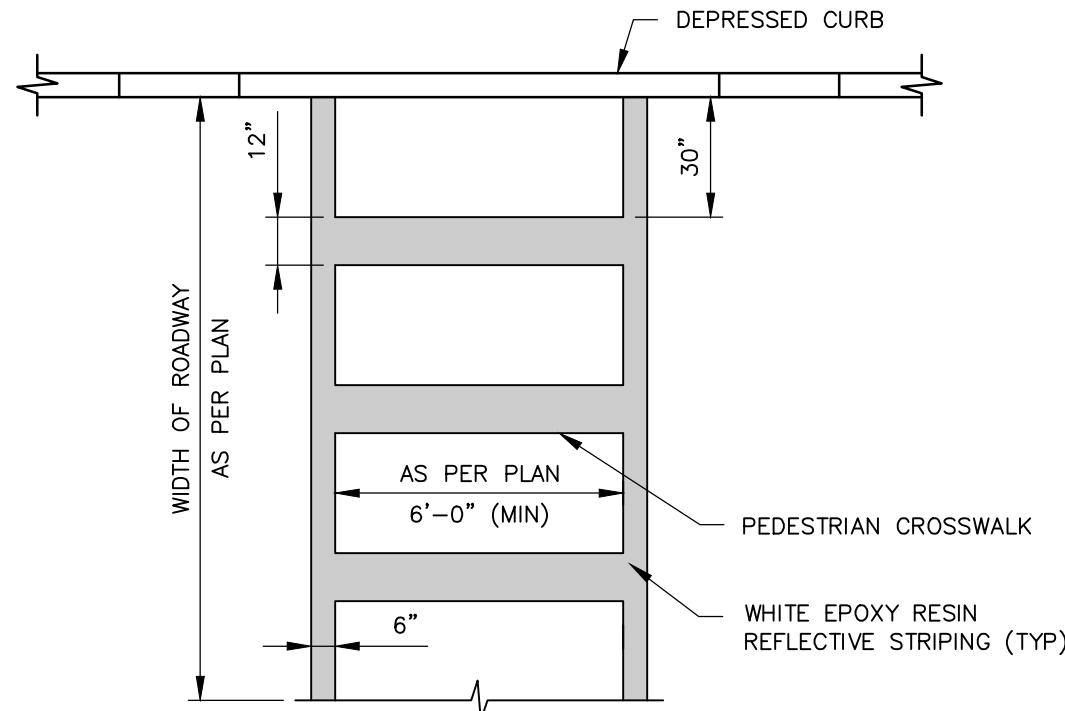
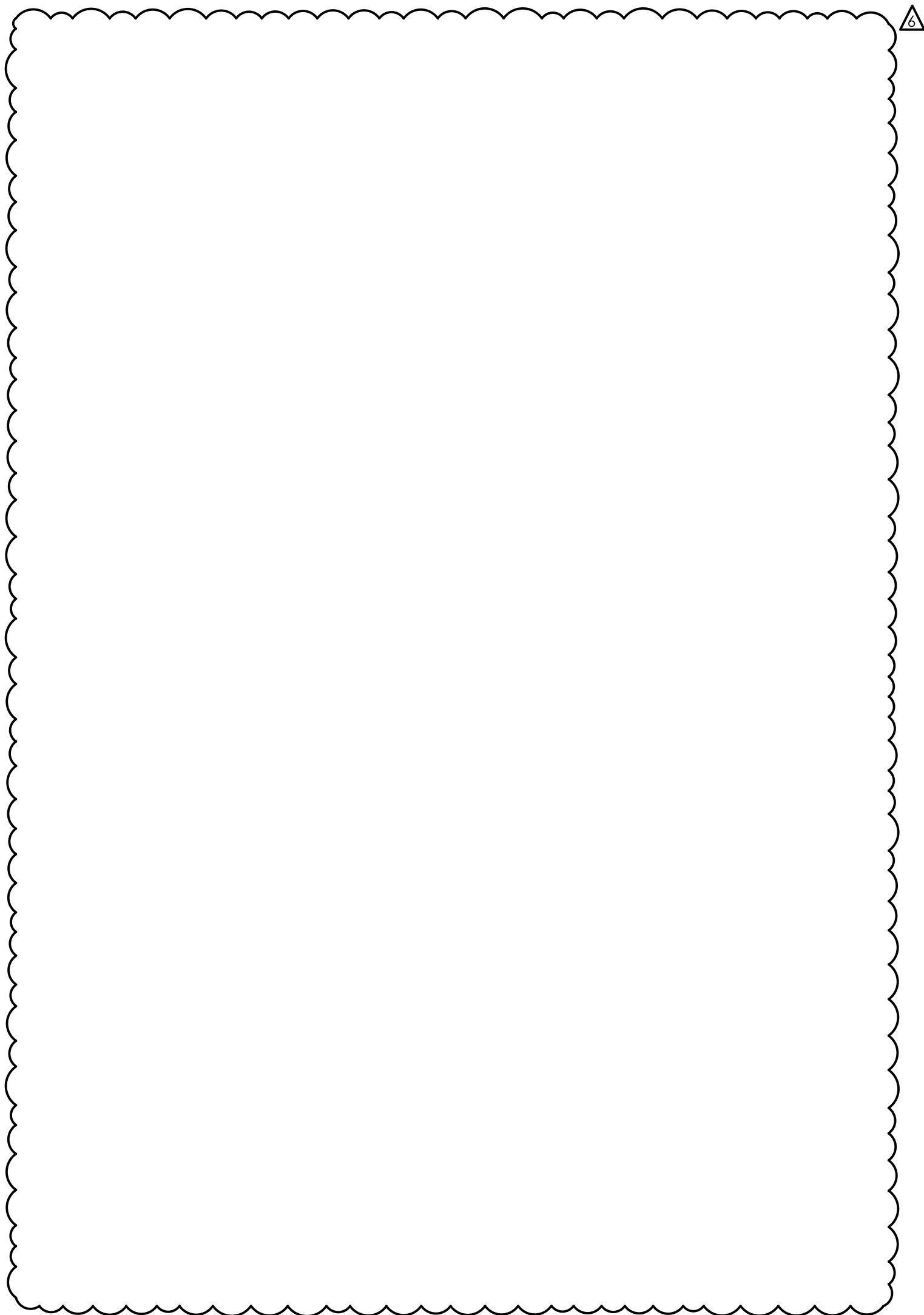
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0 10' 20' 40'

1" = 20'



1 ACCESSIBLE RAMP
C-311 SCALE: NTS



2 PEDESTRIAN CROSSWALK
C-311 SCALE: 1/4" = 1'-0"

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CONSULTANT
CERTIFICATE OF AUTHORIZATION: 1127432

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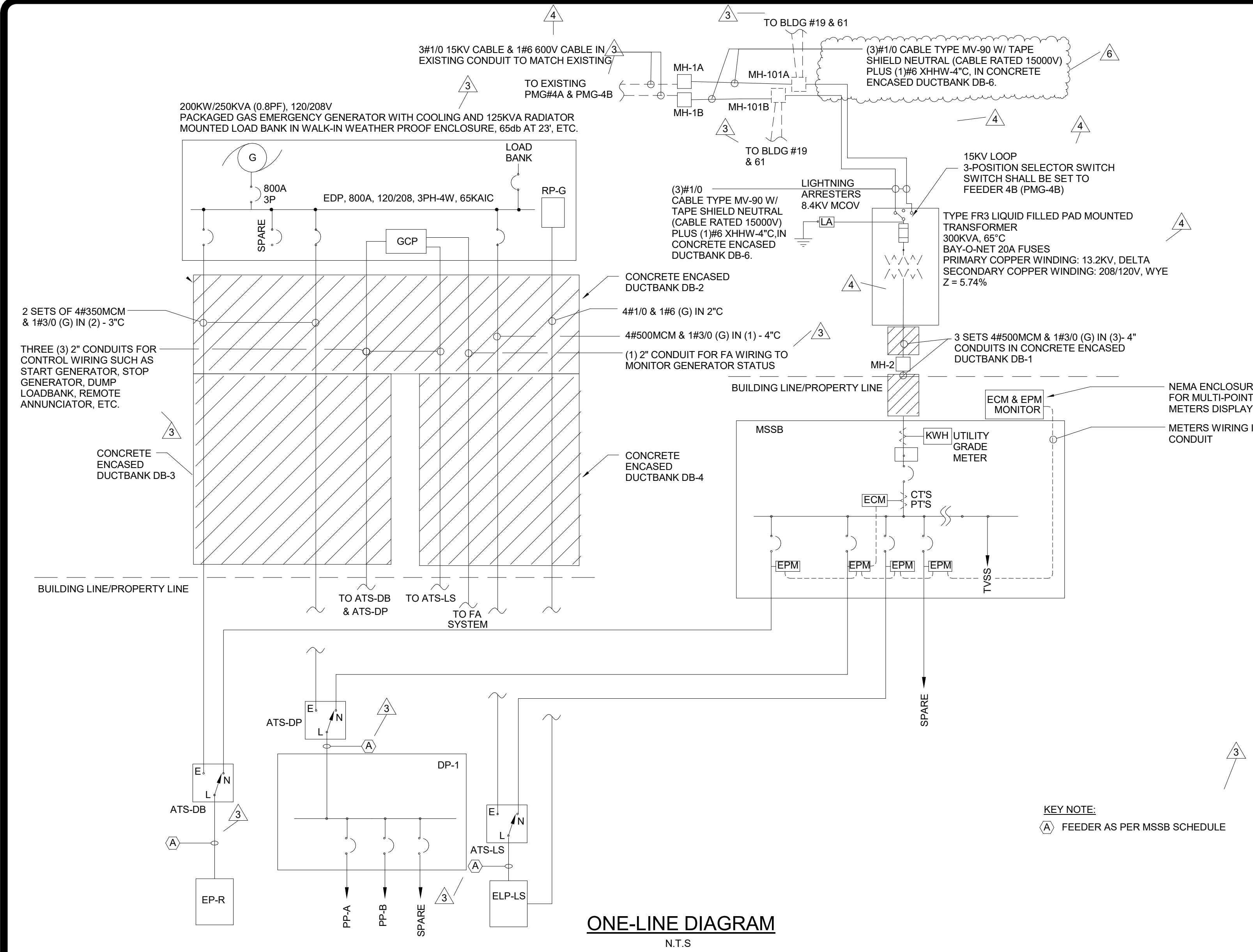
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STATE OF NEW YORK
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CONTRACT:	CONSTRUCTION
TITLE:	PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER
LOCATION:	80-45 WINCHESTER BLVD QUEENS, NY
CLIENT:	OFFICE OF MENTAL HEALTH

SITE DETAILS		
DRAWING NUMBER: C-311		
SHEET OF		



ONE-LINE DIAGRAM
N.T.S

MAIN SERVICE SWITCHBOARD SCHEDULE (MSSB)

DISTRIBUTION PANEL	CKT. NO.	SERVES	KVA HP	OVERCURRENT PROTECTION					WIRE				RACEWAY		REMARKS
				POLE	FRAME	SENSOR SETTING	TRIP	PROTECTION	QTY	SIZE	QTY	GRD./IG	QTY	SIZE	
MSSB 120/208V, 3Ø, 4W+G 800A BUS, 800A MCB SENSOR SETTING: 800A, TRIP SETTING: 1.0, OCP: 800A, SERVICE RATED 100% CB AIC: 100,000A WITH INTEGRAL BUS MOUNTED SPD	1	EP-R	112	3	400	400	0.75	300	4	500MCM	1	#3/0	1	4"	VIA AUTOMATIC TRANSFER SWITCH
	2	ELP-LS	7	3	225	225	1.0	225	4	350MCM	1	#1/0	1	3"	VIA AUTOMATIC TRANSFER SWITCH
	3	DP-1	108	3	400	400	0.75	300	4	500MCM	1	#3/0	1	4"	VIA AUTOMATIC TRANSFER SWITCH
	4	SPARE		3	225	225	1.0	225							
	5														
	6														
	MSSB CONNECTED LOAD: 227 KVA MSSB DEMAND LOAD: 200 KVA														

EMERGENCY DISTRIBUTION PANEL (EDP)

DISTRIBUTION PANEL	CKT. NO.	SERVES	KVA HP	OVERCURRENT PROTECTION					WIRE				RACEWAY		REMARKS	
				POLE	FRAME	SENSOR SETTING	TRIP	PROTECTION	QTY	SIZE	QTY	GRD./IG	QTY	SIZE		
EDP 120/208V, 3Ø, 4W+G 800A BUS, 800A MCB SENSOR SETTING: 800A, TRIP SETTINGS: .85, OCP: 680A, SERVICE RATED 100% CB AIC: 100,000A WITH INTEGRAL BUS MOUNTED SPD ALL CIRCUIT BREAKERS INDIVIDUALLY MOUNTED, ELECTRONIC TYPE, 100% RATED	1	EP-R	112	3	400	400	0.75	300	SEE ONE-LINE FOR FEEDER SIZE							VIA AUTOMATIC TRANSFER SWITCH
	2	ELP-LS	7	3	225	225	1.0	225								VIA AUTOMATIC TRANSFER SWITCH
	3	DP-1	108	3	400	400	0.75	300								VIA AUTOMATIC TRANSFER SWITCH
	4	SPARE		3	225	225	1.0	400								
	5	LOAD BANK		3	400	400	1.0	225	4	500MCM	1	#3/0	1	4"		
	6															
EDP CONNECTED LOAD: 227 KVA				EDP DEMAND LOAD: 200 KVA												

ALL CIRCUIT BREAKERS IN MSSB & EDP SHALL BE ADJUSTABLE (LSI) AND 100% RATED.

ENTIRE BUILDING ON EMERGENCY (ALL LOADS)

1	PANEL EP-R (MAJOR HVAC & PLBG EQUIPMENT LOADS)	=	112.0 KVA
2	PANEL PP-A (RECEPTACLES, LIGHTING, AC UNITS FOR SOUTH WING)	=	62.0 KVA
3	PANEL PP-B (RECEPTACLES, LIGHTING, AC UNITS FOR NORTH WING)	=	46.0 KVA
4	PANEL ELP-LS (LIFE SAFETY LOADS - LIGHTING, FIRE ALARM)	=	7.0 KVA
	TOTAL GENERATOR CALCULATED CONNECTED LOAD	=	227.0 KVA
	POWER FACTOR	=	181.6 KW (0.8PF)
	RECOMMENDED GENERATOR SIZE	=	200 KW

ATS SCHEDULE (120/208 VOLT SYSTEM)

120/208V, 3 PHASE, 4 WIRE, U.O.N.		RATED: 65,000 AIC MINIMUM			
DESIG.	RATING	TRANSFER TO EMERGENCY IN (SECONDS)	RETURN TO NORMAL IN (MINUTES)	COOL OFF TIME IN (MINUTES)	REMARKS
ATS-LS	260A, 3P (NO SWITCHED NEUTRAL)	0	15	5	LIFE SAFTEY
ATS-DB	400A, 3P (NO SWITCHED NEUTRAL)	10	15	5	STANDBY
ATS-DP	400A, 3P (NO SWITCHED NEUTRAL)	10	15	5	STANDBY

- ATS SHALL BE OPEN TRANSITION TYPE AND ASCO 7000 SERIES OR APPROVED EQUAL.
- PROVIDE IN PHASE MONITOR FOR ALL ATS.
- PROVIDE ALL ACCESSORIES AND RELAYS IN AUTOMATIC TRANSFER SWITCHES TO INTERFACE WITH GENERATOR, FIRE ALARM SYSTEM, AND HAVC SYSTEMS.
 - ONE DRY CONTACT SIGNALING TRANSFER TO EM POWER.
 - ONE DRY CONTACT SIGNALING RETURN TO NORMAL POWER.
 - ONE DRY CONTACT SIGNALING LOADBANK DUMP.
 - ONE DRY CONTACT SIGNALING RELAY SWITCHING PANEL FOR EMERGENCY POWER.

DISTRIBUTION PANEL DP-1

DISTRIBUTION PANEL	CKT. NO.	SERVES	KVA HP	OVERCURRENT PROTECTION			WIRE		RACEWAY		REMARKS
				POLE	FRAME	TRIP	QTY	SIZE	QTY	GRD./IG	
DP-1 120/208V, 3Ø, 4W+G 400A MAIN CB AIC: 65,000A WITH INTEGRAL BUS MOUNTED SPD	1	PP-A	62	3	225	225	4	250MCM	1	#2	1 3"
	2	PP-B	46	3	225	225	8	250MCM	2	#4/0	2 3"
	3	SPARE		3	100	100					
	4										
	5										
	6										
DP-1 CONNECTED LOAD: 108 KVA											

Branch Panel: EP-R

Location: ELEC/DATA ROOM
Supply From: ATS-DB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65000
Mains Type: 400 A MAIN CB
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CUH-A	20 A	1	500 VA	915 VA					2	20 A	HWP-2 (3#10 & 1#10(G) IN 3/4"C)	2
3	HWP-1 (3#10 & 1#10(G) IN 3/4"C)	20 A	2			915 VA	915 VA			1	20 A	MD	4
5								915 VA	40 VA	1	20 A	B-1 & B-2	6
7	HWP-3 (3#10 & 1#10(G) IN 3/4"C)	20 A	2	915 VA	500 VA					1	20 A	Junction Box for wall mounted rack	8
9						915 VA	1080 VA			1	20 A		10
11	For Life Safety Panel	20 A	1					500 VA	1144 VA	2	20 A	ACCU-5B (3#10 & 1#10(G) IN 3/4"C)	12
13	ACCU-5A (3#10 & 1#10(G) IN 3/4"C)	20 A	2	1144 VA	1144 VA					1	20 A	BMS PANEL	14
15						1144 VA	500 VA			1	20 A		16
17	CONTROL PANEL	20 A	1					500 VA	500 VA	1	20 A	BOILER MASTER CONTROL...	18
19				2000 VA	2998 VA								20
21	EDH-1 (4#10 & 1#10(G) IN 3/4"C)	30 A	3			2000 VA	2998 VA			3	40 A	EDH-2 (4#8 & 1#10(G) IN 1"C)	22
23								2000 VA	2998 VA				24
25	Junction Box for Dry pipe valve ★★	20 A	1	900 VA	1350 VA					1	20 A	EF-4 & EF-5, MD	26
27	For UH-A	20 A	1			168 VA	600 VA						28
29								1200 VA	600 VA	3	20 A	ERV-1 (4#10 & 1#10(G) IN 3/4"C)	30
31	ERV-2 (4#10 & 1#10(G) IN 3/4"C)	20 A	3	1200 VA	600 VA								32
33						1200 VA	600 VA						34
35								2333 VA	600 VA	3	20 A	ERV-3 (4#10 & 1#10(G) IN 3/4"C)	36
37	EDH-3 (4#10 & 1#10(G) IN 3/4"C)	30 A	3	2333 VA	600 VA								38
39						2333 VA	500 VA			1	20 A	Receptacle For Wall mounted Rack	40
41	MD	20 A	1					30 VA	400 VA	1	20 A	CUH-A	42
43				3960 VA	3960 VA								44
45	ACCU-1 (4#6 & 1#8(G) IN 1-1/4"C)	50 A	3			3960 VA	3960 VA			3	50 A	ACCU-2 (4#6 & 1#8(G) IN 1-1/4"C)	46
47								3960 VA	3960 VA				48
49				3960 VA	5280 VA								50
51	ACCU-4 (4#6 & 1#8(G) IN 1-1/4"C)	50 A	3			3960 VA	5280 VA			3	70 A	ACCU-3 (4#2 & 1#8(G) IN 1-1/2"C)	52
53								3960 VA	5280 VA				54
55	BC-1 & 2 (3#10 & 1#10(G) IN 3/4"C)	20 A	2	1000 VA	1000 VA					2	20 A	BC-3 & 4 (3#10 & 1#10(G) IN 3/4"C)	56
57						1000 VA	1000 VA						58
59	EUH-A (3#10 & 1#10(G) IN 3/4"C)	20 A	2	1500 VA	1200 VA			1500 VA	960 VA	1	20 A	For PAS Panel	60
61										1	20 A	For IT Rack	62
63	For IT Rack	20 A	1			1200 VA	1200 VA			1	20 A	For IT Rack	64
65	HWP-4 (3#10 & 1#10(G) IN 3/4"C)	20 A	2					915 VA	0 VA	1	20 A	Spare	66
67				915 VA	0 VA					1	20 A	Spare	68
69	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	70
71	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	72
73	Space	--	1	--	--					1	--	Space	74
75	Space	--	1			--	--			1	--	Space	76
77	Space	--	1					--	--	1	--	Space	78
79	Space	--	1	--	--					1	--	Space	80
81	Space	--	1			--	--			1	--	Space	82
83	Space	--	1					--	--	1	--	Space	84
Total Load:				39874 VA		37395 VA		34295 VA					
Total Amps:				336 A		316 A		286 A					

Legend:

** Lockable circuit breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	111563 VA	80.00%	89251 VA	
				Total Conn. Load: 111563 VA
				Total Est. Demand: 89251 VA
				Total Conn.: 310 A
				Total Est. Demand: 248 A

NOTES:

- REFER TO DWG. E-001 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.
- REFER TO DWG. E-003 FOR ELECTRICAL SCHEDULES.
- REFER TO DWGS. E-004, E-005 AND E-006 FOR ELECTRICAL DETAILS AND LIGHT FIXTURE SCHEDULES.
- REFER TO DWG. E-007 FOR ELECTRICAL SITE PLAN.

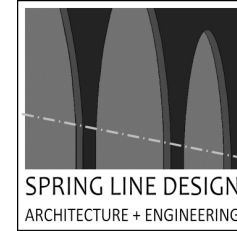
CONSULTANT:

CERTIFICATE OF AUTHORIZATION: 0021274



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REGISTRATION EXPIRES: 2/25/2026

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PROJECT NUMBER: 47688-E

DESIGNED BY: AS

DRAWN BY: AK

FIELD CHECK:

APPROVED:

SHEET TITLE:

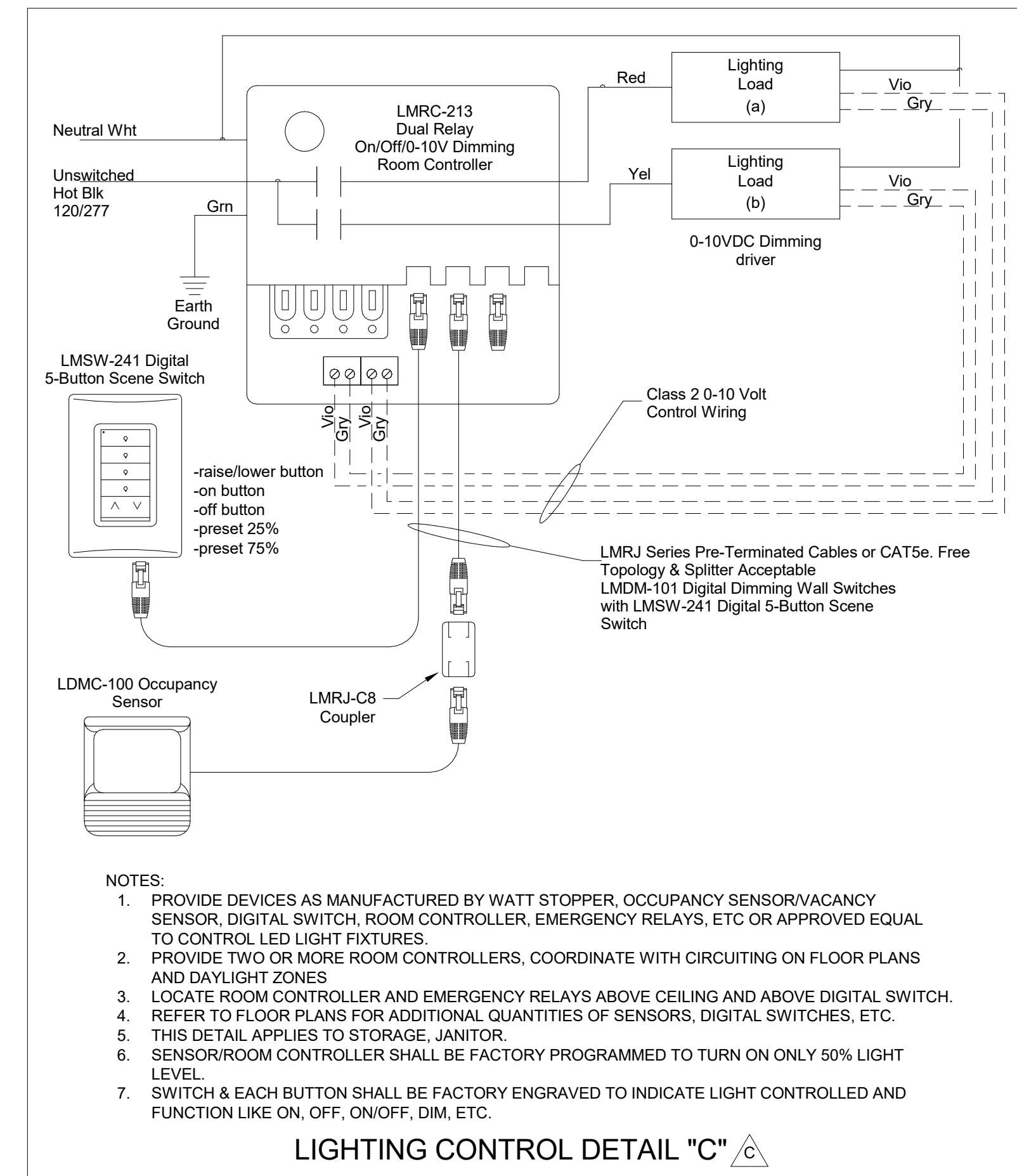
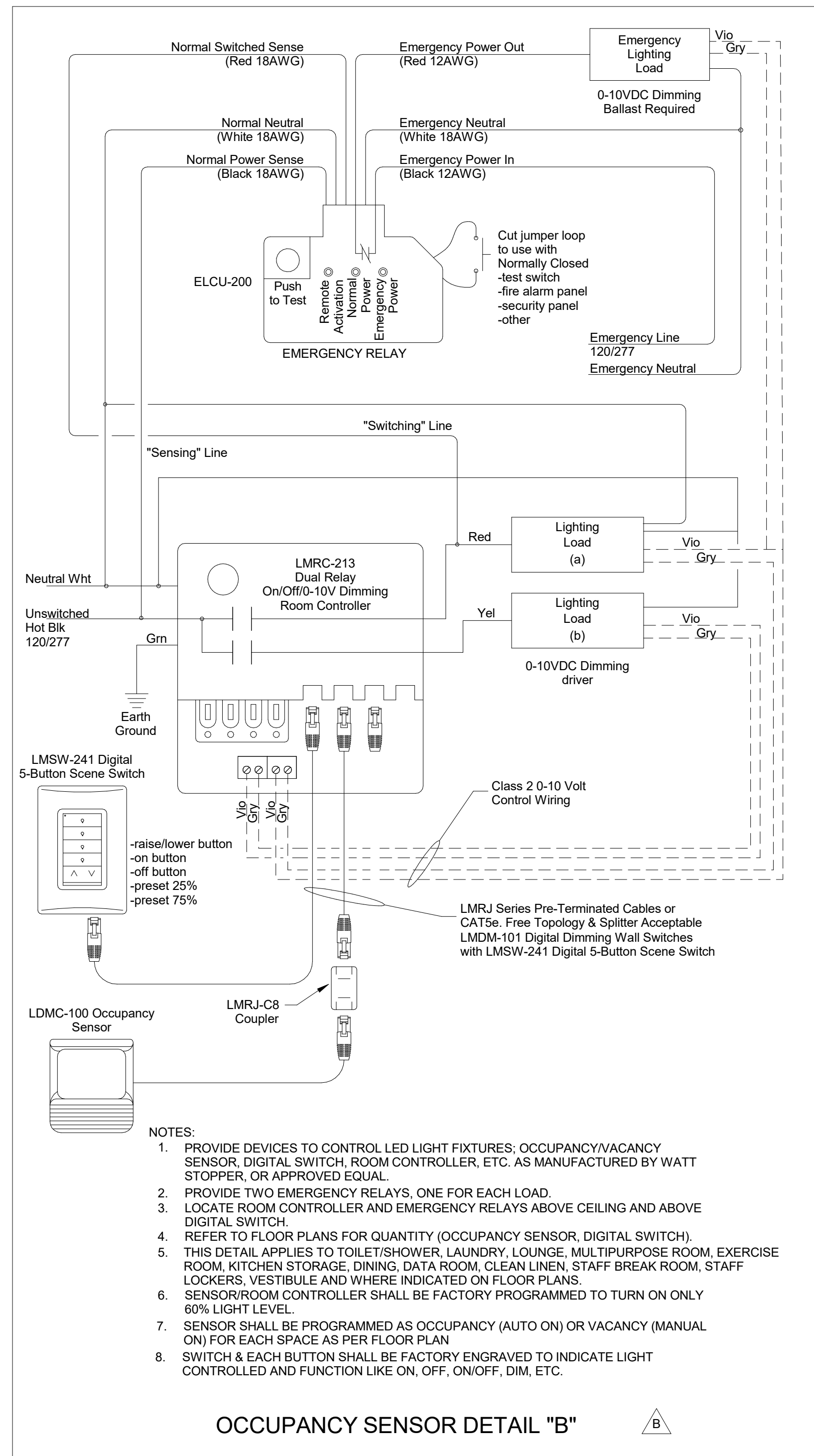
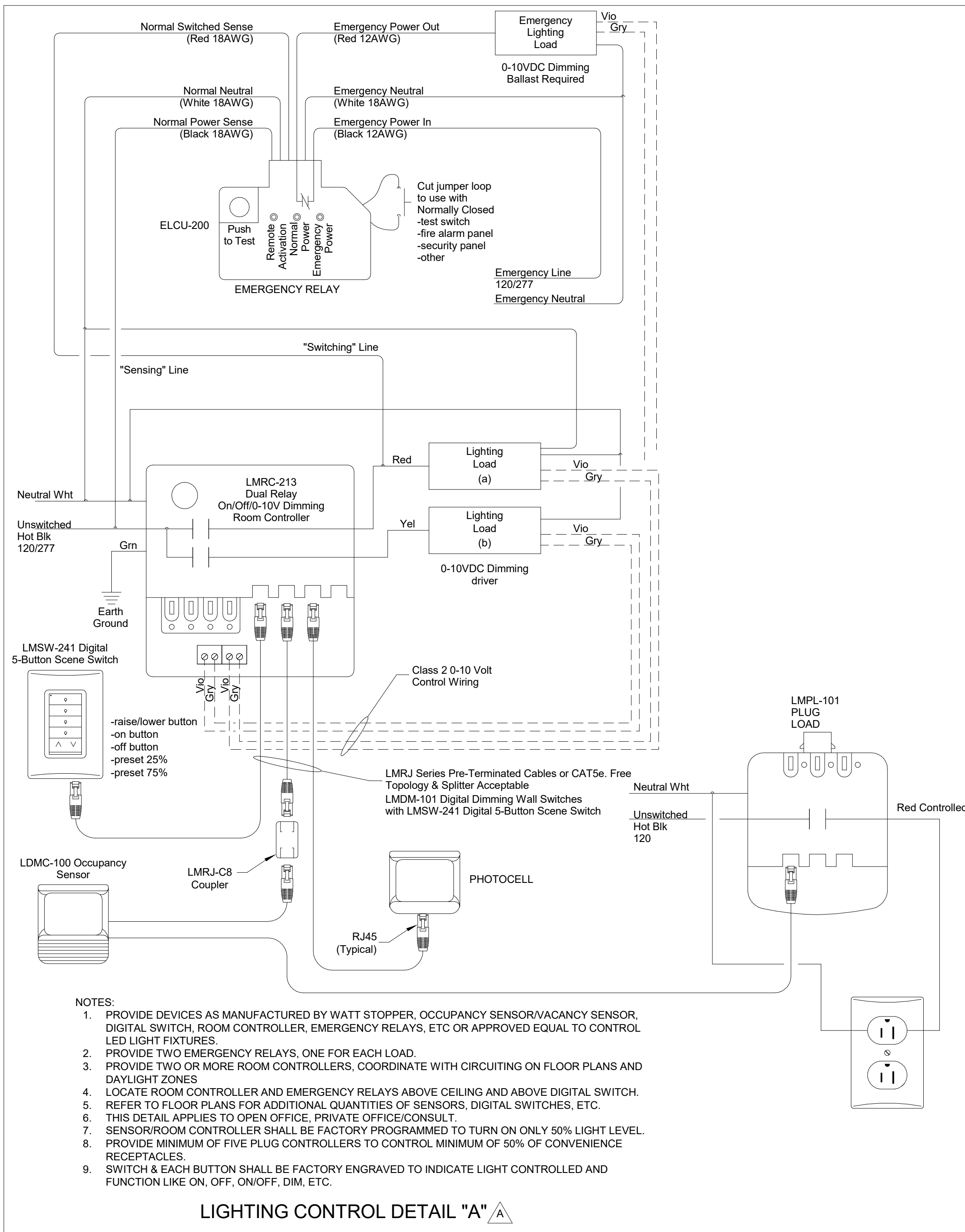
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SCHEDULES

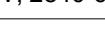
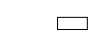
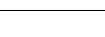
DRAWING NUMBER:

E-002

SHEET

OF



LIGHT FIXTURE SCHEDULE																
SYMBOL	TYPE	DESCRIPTION	LAMPS	LUMENS	WATTAGE	VOLTAGE	DESIGN MAKE / MODEL	SYMBOL	TYPE	DESCRIPTION	LAMPS	LUMENS	WATTAGE	VOLTAGE	DESIGN MAKE / MODEL	
	EM	F1	RECESSED FLUSH LENS (COT SELECTABLE 20-S0W, 2840-6526LM)	LED	5110	40 W	UNV	LITELINE - FORUM LEDB 14 WH WHIP		EF1	RECESSED ROUND DOWN LIGHT	LED	1500	18 W	UNV	FOCAL POINT FLC2D RDO SW 1500 UNV LZ1 OD LC2 RDO 35K WFL1 CD
	EM	F2	RECESSED 4' ROUND DOWN LIGHT	LED	1000	11 W	120V	FOCAL POINT FLC4D		EF2	PERIMETER LIGHTING EXTERIOR WALL PACK	LED	4651	36 W	120V	NLS NV-W-T3-16L-7-40K7
		F3	SUSPENDED RING LIGHT DOUBLE STACK - 36", 24" BI-DIRECTIONAL WITH INNER GLOW	LED	4255	75 W	120V	LUMOS DOUBLE STACK RING RP-IND 36/24(MOD) SO 835 DIM SPC10		EF3	OUTDOOR WALL SCONCE	LED	2100	20 W	UNV	KUZZO/ALORA LIGHTING LORNA LD2-ED12W20 30K 36 BK-UNV-010
	EM	F4	INLAY CEILING LIGHT COLOR SELECTTABLE	LED	2000	20 W	120V	LITELINE - FORUM LINEAR LEDP 614 WH (OPTIONS)		EF4	SURFACE LIGHT POST	LED	2499	21W	UNV	NLS LIGHTING NV-V-TAFTW-16L-40-40K7-UNV 3" ARM AND 12' POLE
		F5	EGG LED PENDANT	LED	1300	16 W	UNV	BROWNLEE - COBRA PENDANT 2752 12 (FINISH) U16 DMM (FINISH) (FINISH) 36D BLC 35K		EF5	BOLLARD	LED	2069	21W	UNV	NLS LIGHTING TBL 24 T3 16L 530 27K8 UNV AB (FINISH)
	EM	F6.1	SUSPENDED RING LIGHT SINGLE STACK - 48" INNER WALL LENS	LED	6895	75W	UNV	LUMOS RPM -IWL 48 SO 835 DIM SPC10 (FINISH)		EF6	CEILING MOUNTED EXTERIOR LIGHT	LED	500/LF	4 W/LF	UNV	FOCAL POINT SEEM 2 LED SURFACE FSM2LWLSM AS 500 LF 935 1C UNV S (FINISH) LENGTH
		F6.2	SUSPENDED RING LIGHT SINGLE STACK - 36" INNER WALL LENS	LED	5172	56W	UNV	LUMOS RPM -IWL 36 SO 835 DIM SPC10 (FINISH)		EF7	CEILING MOUNTED LIGHT	LED	-	-	UNV	NOT USED
		F7	INNER CONVEX LENS	LED	4996	49 W	UNV	BROWNLEE - INNIE 2080 30 (FINISH) S49 (FINISH) 35K		EF8	EXTERIOR LINEAR STRIP LIGHT, COORDINATE LENGTH WITH SIGNAGE	LED	125	2.7W	120V	KICHLER
		F8	MIRROR LIGHT	LED	880	11 W	120V	KUZZO/ALORA LIGHTING DAHLIA WV346322		EM	WALL MOUNTED EMERGENCY LIGHT FIXTURE	LED	-	5W	120V	ISOLITE NOT USED
										EM	INTERIOR WALL MOUNTED EXIT LIGHT	LED	-	<2W	120V	ISOLITE UEL SERIES

"EM" INDICATES EMERGENCY LIGHT FIXTURES, FED FROM LIFE SAFETY PANEL ELP-LS.

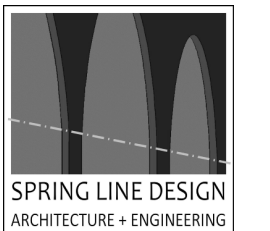
NOTES:

1. REFER TO DWG. E-001 FOR SYMBOL LIST, ABBREVIATIONS AND NOTES.
2. REFER TO DWG. E-002 FOR ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES.
3. REFER TO DWG. E-003 FOR ELECTRICAL SCHEDULES.
4. REFER TO DWGS. E-005 AND E-006 FOR ELECTRICAL DETAILS.
5. REFER TO DWG. E-007 FOR ELECTRICAL SITE PLAN.

CONSULTANT:
CERTIFICATE OF AUTHORIZATION: 0021274



Architectural Resources



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FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
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AND IS A CLASS 'A' MISDEMEANOR.



REGISTRATION EXPIRES:
12/31/2026

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CONTRACT: ELECTRICAL

TITLE: **PROVIDE TRANSITIONAL RESIDENCE,
SOUTH CAMPUS CREEDMOOR
PSYCHIATRIC CENTER**

LOCATION: 80-45 WINCHESTER BLVD
QUEENS, NY

CLIENT: OFFICE OF MENTAL HEALTH

[illegible]

PROJECT NUMBER:	47688-E
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DESIGNED BY:	AS
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DRAWN BY:	AK
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FIELD CHECK:	
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APPROVED:	
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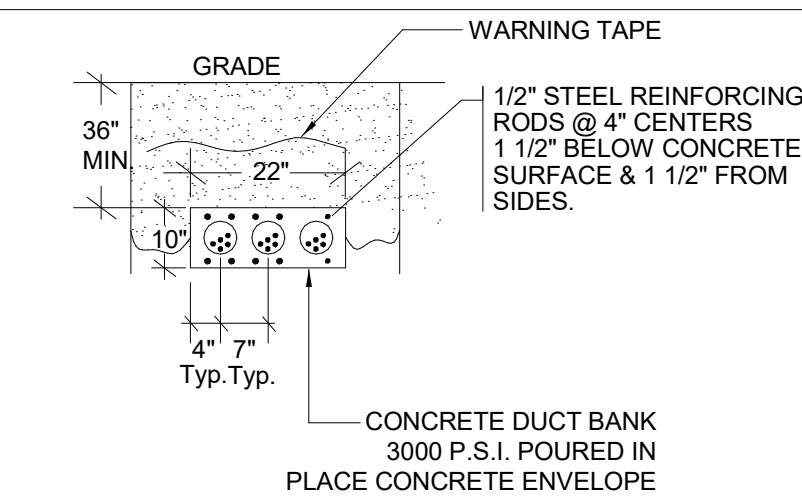
SHEET TITLE:

ELECTRICAL DETAILS AND LIGHT FIXTURE SCHEDULE

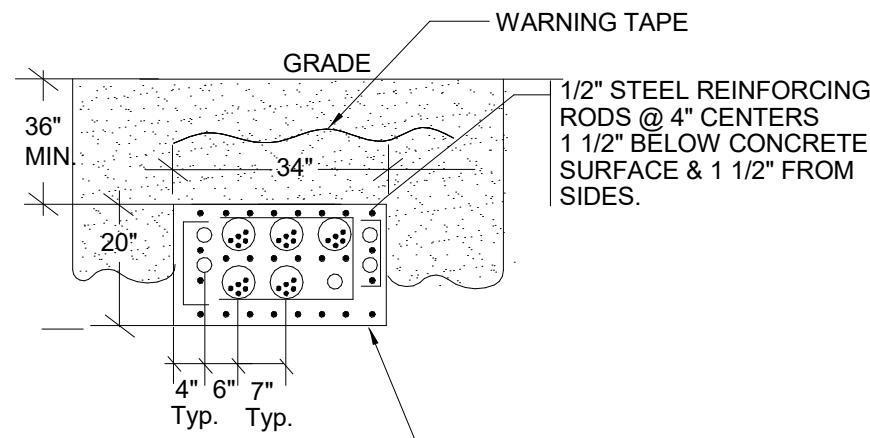
DRAWING NUMBER:

E-004

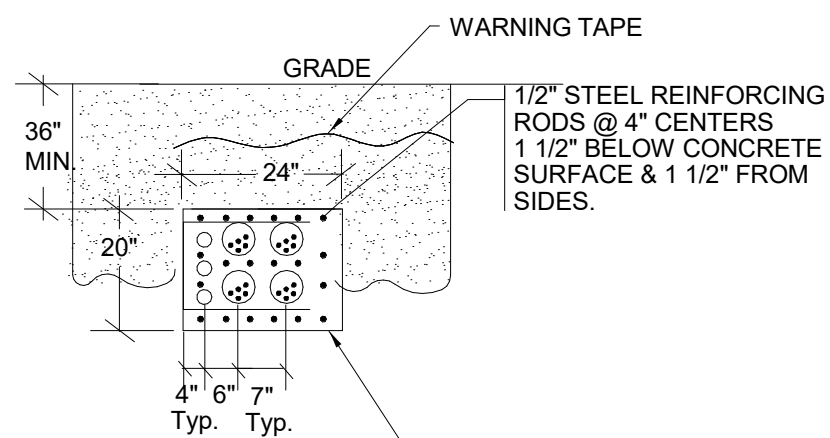
SHEET OF



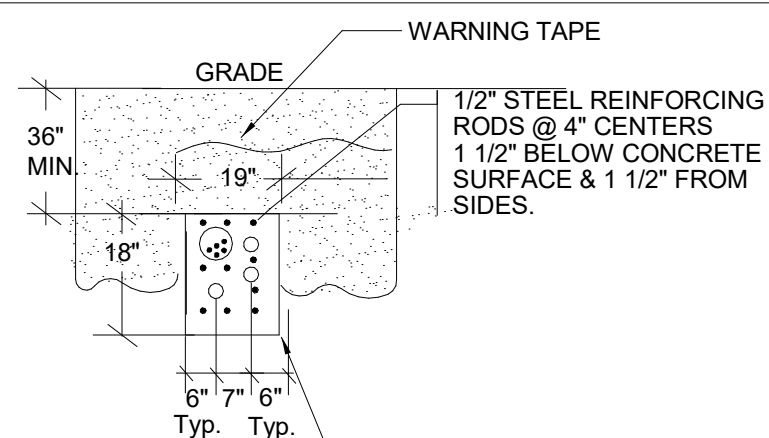
1 **DETAIL "DB-1"**
SCALE: NOT TO SCALE



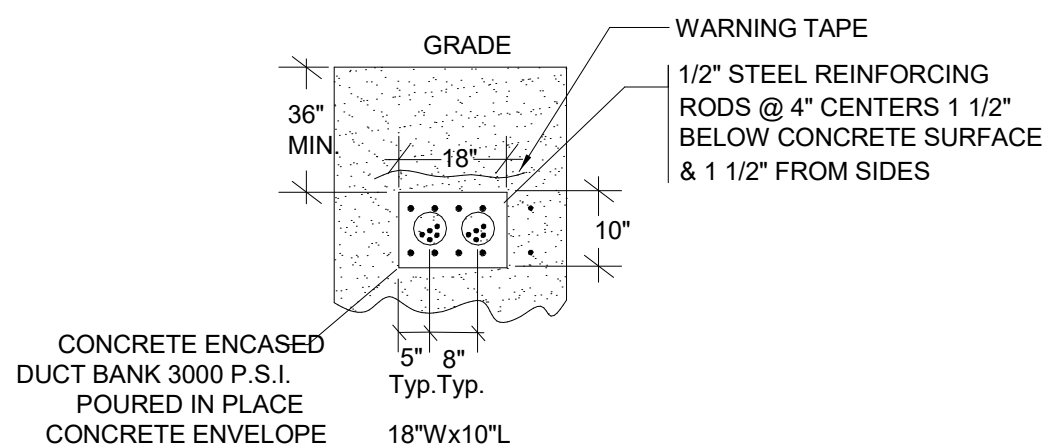
2 **DETAIL "DB-2"**
SCALE: NOT TO SCALE



3 **DETAIL "DB-3"**
SCALE: NOT TO SCALE



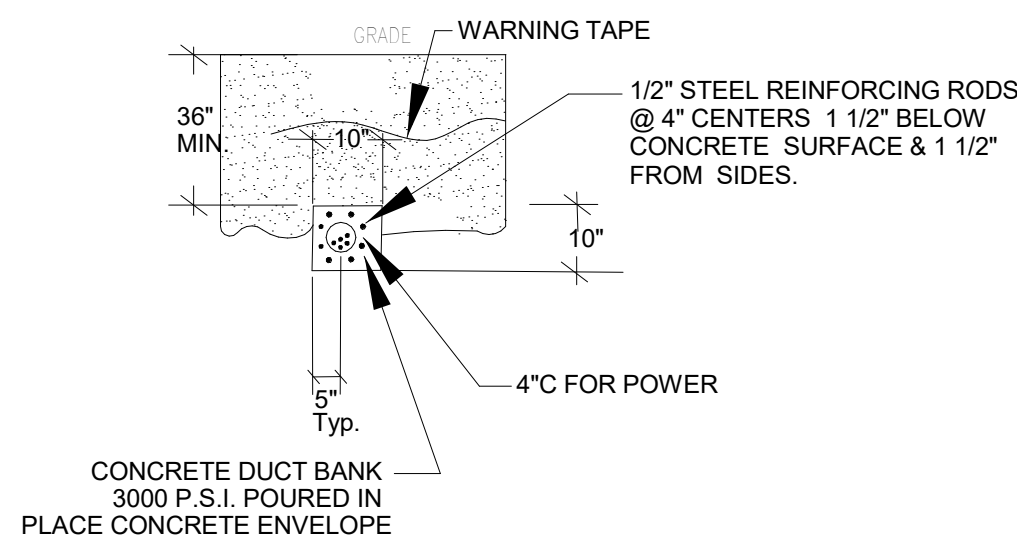
4 **DETAIL "DB-4"**
SCALE: NOT TO SCALE



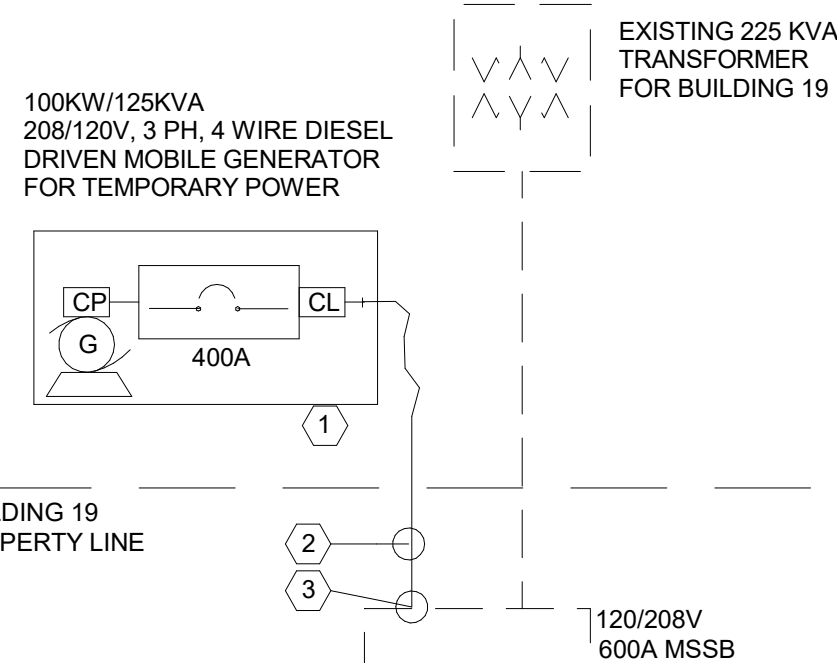
5 **DETAIL "DB-5"**
SCALE: NOT TO SCALE

NOTE FOR CONCRETE ENCASED DUCT BANK

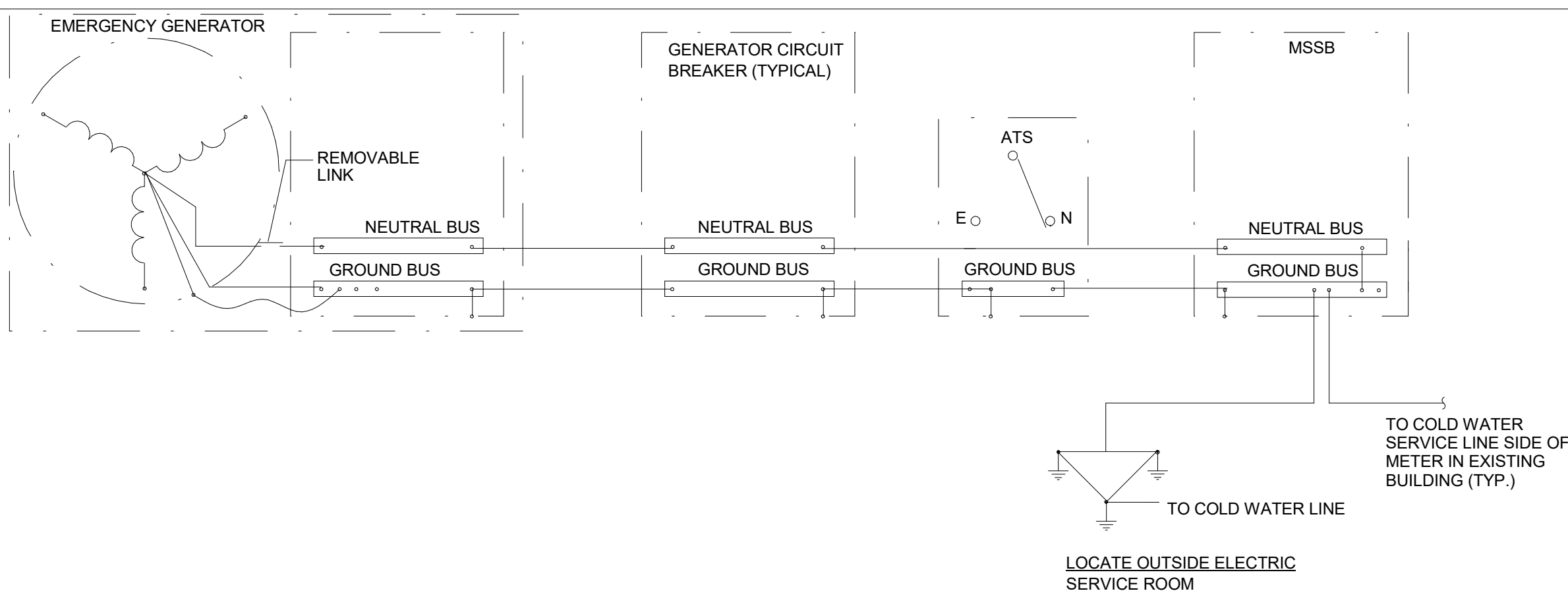
- CONDUIT COUPLINGS SHALL BE STAGGERED 6" MIN BETWEEN ANY COUPLINGS.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH 1/4" NYLON DRAGLINE.
- ALL CONDUITS TO BE SEALED ON EACH END WITH PROPERLY SIZED END CAP FITTING TO PREVENT ANY WATER AND OR GAS INFILTRATION INTO THE RESPECTIVE BUILDINGS.
- THE CONDUIT AT BOTH ENDS SHALL BE GRADED UPWARDS FROM 36" & 54" BELOW GRADE TO 24" BELOW GRADE AT A RATE OF RISE OF 2" PER FOOT. (6') TOTAL SO THE SLOPE OF THE CONDUIT SHALL BE AWAY FROM THE BUILDING.
- CONDUITS FOR FIRE ALARM SHALL BE RGS AND ALL OTHER SHALL BE PVC EXCEPT WHERE ENTERING BUILDING, MANHOLE, AND GENERATOR SHALL BE RGS.
- WHEN DUCT BANKS CROSS PARKING LOT/SIDEWALKS OR RUNNING SHALLOW (WITHIN 12" TO GRADE), A 3/8" STEEL PROTECTION PLATE SHALL BE PROVIDED 6" ABOVE THE DUCT BANK ON ENTIRE LENGTH AND WIDTH.
- PROVIDE WARNING TAPE FOR THE ENTIRE LENGTH AND WIDTH OF DUCT BANK AND PLACE 12" ABOVE DUCT BANK



6 **DUCTBANK "DB-6"**
SCALE: NOT TO SCALE



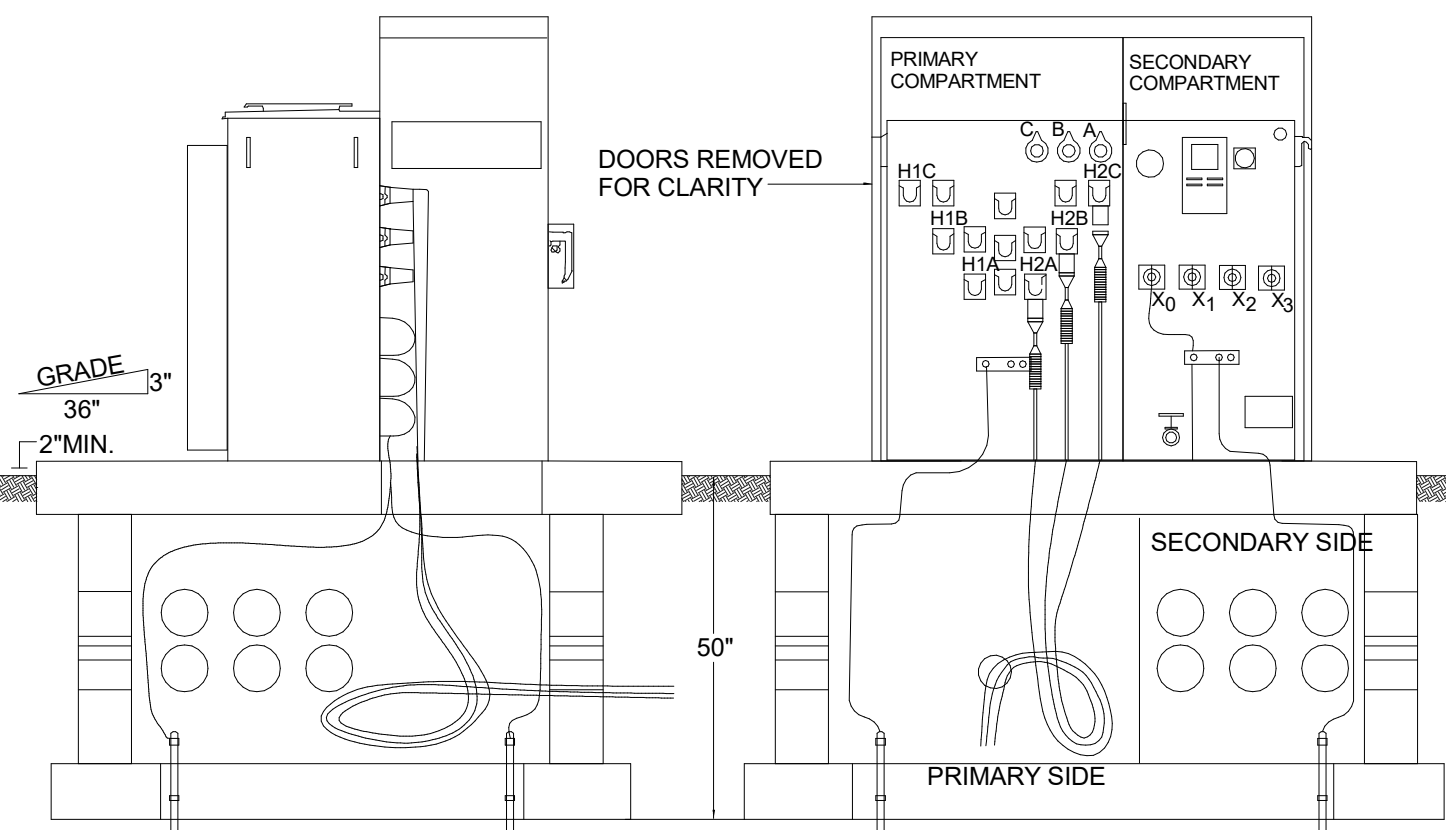
8 **EXISTING BUILDING 19 ONE-LINE DIAGRAM**
N.T.S



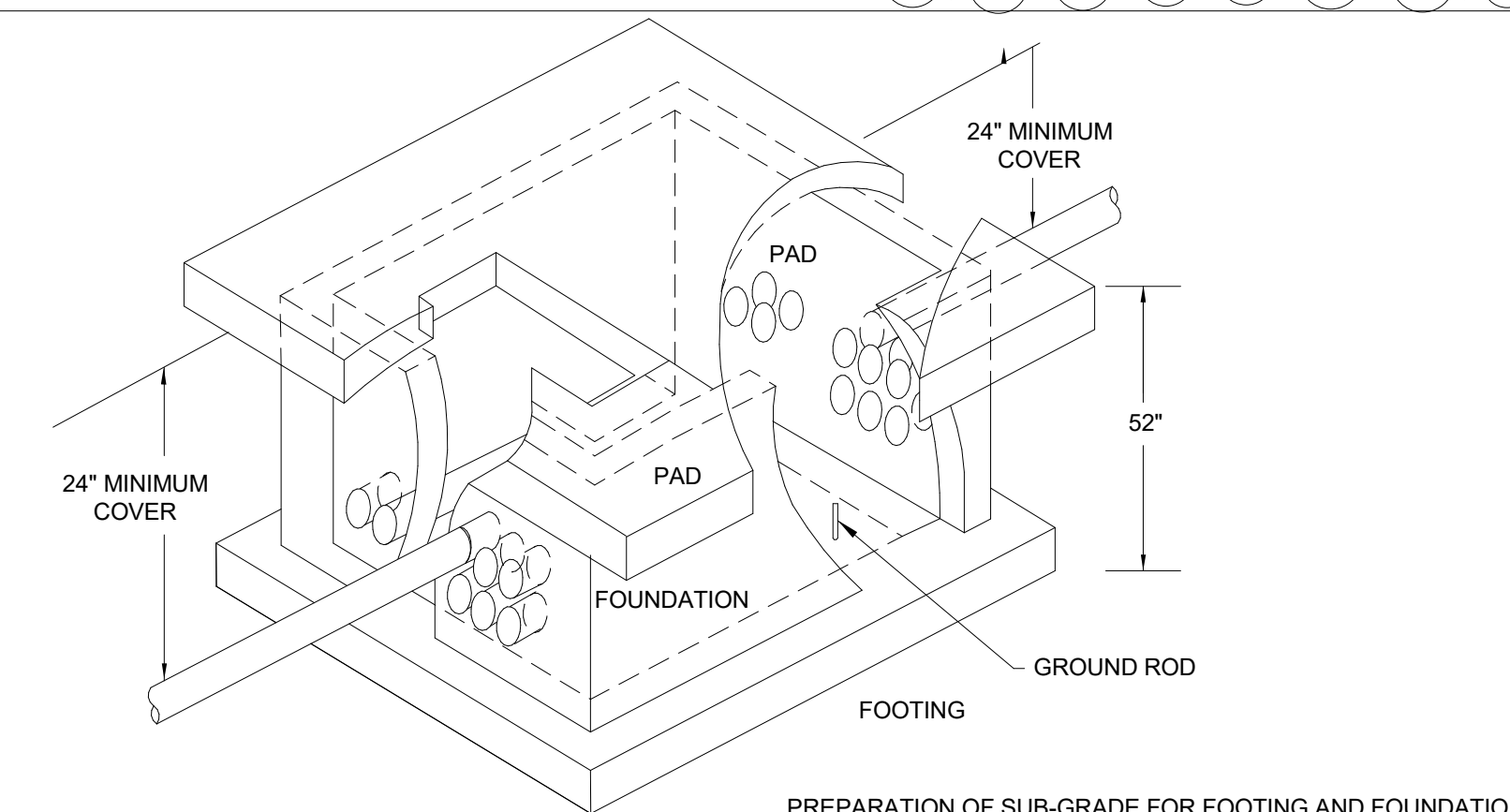
NOTES:

- RUN ALL THE GROUND & NEUTRAL CONDUCTORS FROM GENERATOR AND ELECTRIC SERVICE SWITCHBOARDS TO PANELS, DISTRIBUTION BOARDS, ATS'S, ETC WITH FEEDERS. SIZE GROUND AND NEUTRAL CONDUCTORS AS PER SCHEDULES AND ONE-LINE DIAGRAMS.
- RUN 1#4/0 BARE COPPER CONDUCTOR IN 1" C. FOR ALL THE GROUND CONDUCTORS FROM GENERATOR AND ELECTRICAL SERVICE SWITCHBOARDS TO COLD WATER SERVICE AND GROUND RODS.
- PROVIDE BONDING AND BUSHING ON EACH END OF CONDUITS.
- ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC WELD TYPE.

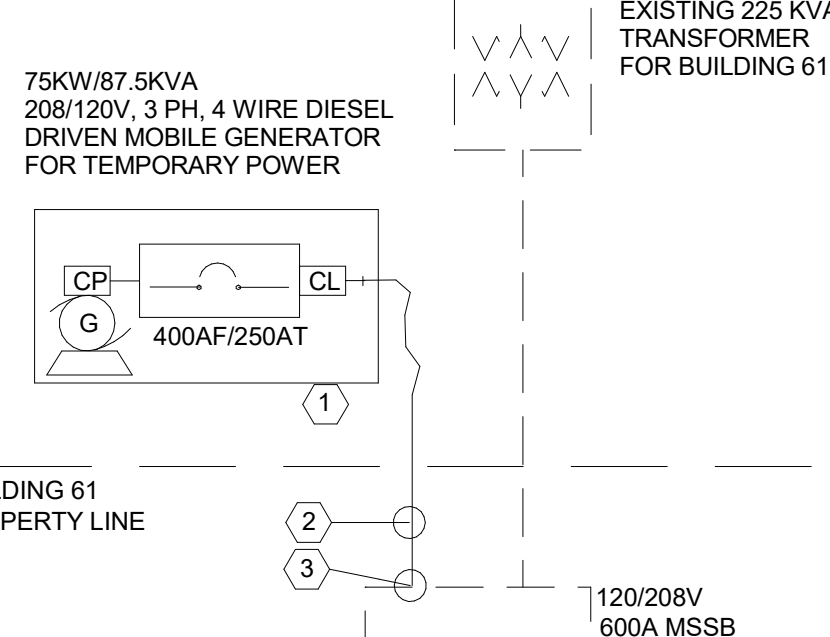
9 **ELECTRICAL SYSTEMS GROUNDING DIAGRAM (DIAGRAMMATIC ONLY)**
NOT TO SCALE



10 **PAD MOUNTED TRANSFORMER ON PAD**
NOT TO SCALE



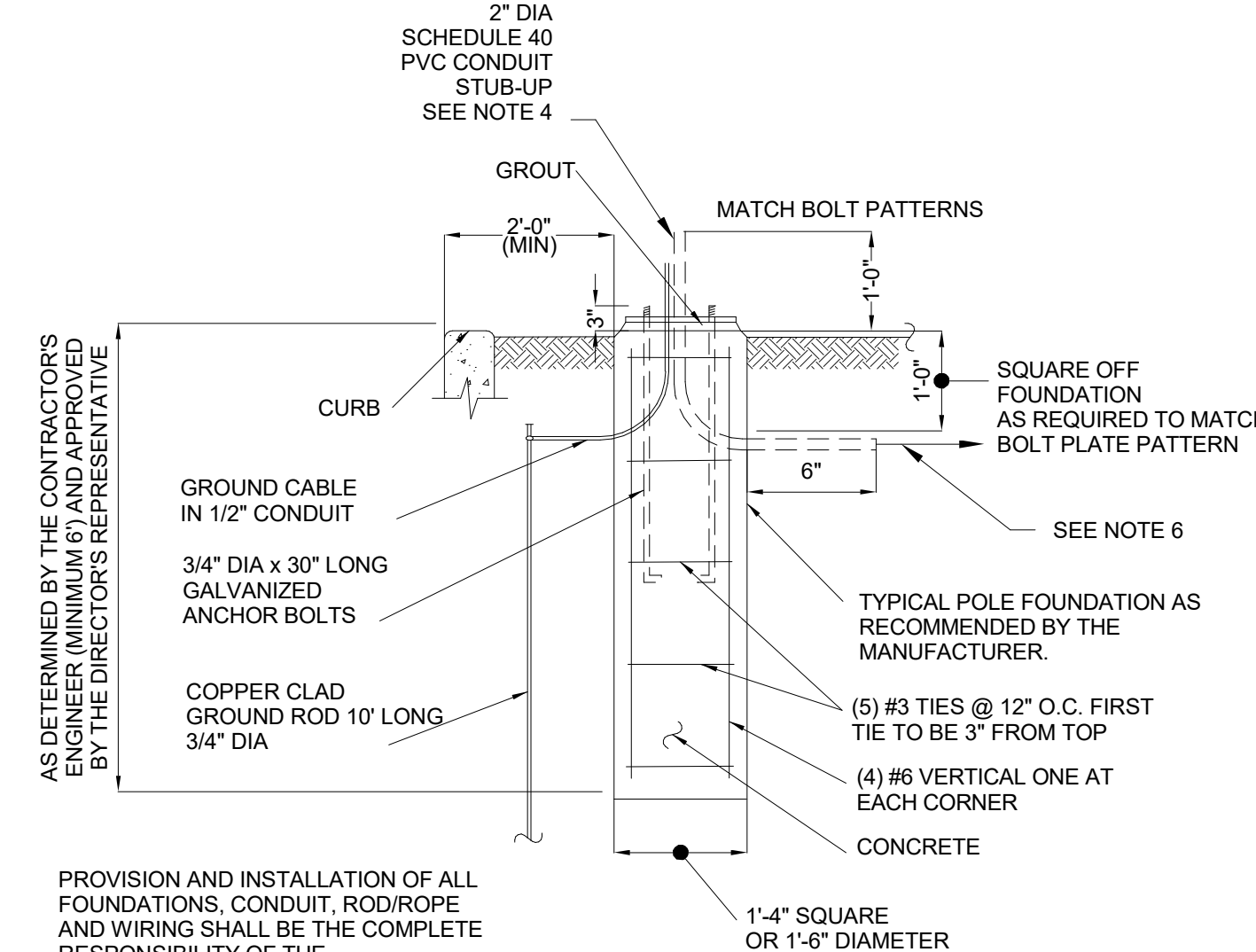
11 **THREE PHASE PADMOUNTED TRANSFORMER - FOOTING AND FOUNDATION**
NOT TO SCALE



7 **EXISTING BUILDING 61 ONE-LINE DIAGRAM**
N.T.S

KEY NOTE:

- PROVIDE TEMPORARY GENERATOR IN WEATHER & SOUND PROOF (65db @ 23') ENCLOSURE TO PROVIDE TEMPORARY POWER DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO MAINTAIN BUILDING POWER WITH OUT INTERRUPTION. TEMPORARY POWER ARRANGEMENT SHALL BE COORDINATED WITH FACILITY MANAGEMENT. ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT AFFECTED BY WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION.
- 5-4/0 SINGLE PHASE GENERATOR CAM-LOCK CABLES. PROVIDE ENCLOSURE ABOVE GROUND TO PROTECT CABLES, FROM GENERATOR TO MSSB. CABLE SHALL BE RATED FOR USE AS TYPE W, G OR G-GC CABLE AT 90°C.
- CONNECT ON THE MAIN BUS BARS AFTER THE METER AND MAIN CB. MODIFY SWITCHBOARD AS REQUIRED TO CONNECT TEMP POWER CABLES. LOCK OFF MAIN CB WHILE ON TEMP POWER.



PROVISION AND INSTALLATION OF ALL FOUNDATIONS, CONDUIT, ROD/ROPE AND WIRING SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR

NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS IN ORDER TO ACCOMMODATE ALL UTILITIES.
- ALL SITE LIGHTING SHALL RECEIVE UNDERGROUND ELECTRICAL SERVICE.
- POLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- CONDUIT FOR LIGHT FOUNDATION ONLY, BURIED 24" (MIN) BELOW GRADE.
- ALL SWEEPS SHALL HAVE A MIN. RADIUS OF 24". NO ELBOWS SHALL BE PERMITTED.
- SEE DRAWING E-007 FOR SITE LIGHTING WIRING REQUIREMENTS.
- LIGHT POLE FOUNDATIONS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. SHOP DRAWINGS OF THE FOUNDATION DESIGN SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S ENGINEER AND PROVIDED TO THE DIRECTOR'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION.

12 **SITE LIGHT FOUNDATION**
SCALE: NOT TO SCALE

NOTES:

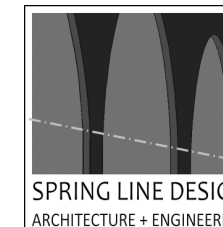
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- REFER TO DWGS. E-004 AND E-006 FOR ELECTRICAL DETAILS AND LIGHT FIXTURE SCHEDULES.
- REFER TO DWG. E-007 FOR ELECTRICAL SITE PLAN.

CONSULTANT:
CERTIFICATE OF AUTHORIZATION: 0021274



Architectural Resources

LAKHANI & JORDAN
ENGINEERS, P.C.



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REGISTRATION EXPIRES: 2/31/2026

CONTRACT: ELECTRICAL

TITLE: PROVIDE TRANSITIONAL RESIDENCE, SOUTH CAMPUS CREEDMOOR PSYCHIATRIC CENTER

LOCATION: 80-45 WINCHESTER BLVD QUEENS, NY

CLIENT: OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
6	07/20/2026	Addendum #6
3	09/12/2026	Addendum #3
07/16/2025		BID DOCUMENTS

PROJECT NUMBER: 47688-E

DESIGNED BY: AS

DRAWN BY: AK

FIELD CHECK:

APPROVED:

SHEET TITLE:

ELECTRICAL DETAILS

DRAWING NUMBER:

E-005

SHEET

OF

SECURITY L E G E N D

ABBREVIATIONS

AMPERE		JCT	JUNCTION
AC	ALTERNATING CURRENT		
ACP	ACCESS CONTROL PANEL		
AFF /G	ABOVE FINISHED FLOOR/GRADE	LT(S)	LIGHT(S)
AUX	AUXILIARY	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
		MTD	MOUNTED
BLDG	BUILDING	M	MULLION MOUNT
CMS	CABLE MANAGEMENT SYSTEM	NEC	NORTH & NEUTRAL
C	CONDUIT	N	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	No./#	NUMBER
CKT	CIRCUIT	NYS	NEW YORK STATE
C	CENTER LINE		
COM	COMMON	OFTR	OPTICAL FIBER TERMINATION RACK
COMM	COMMUNICATIONS	OGS	OFFICE OF GENERAL SERVICES
CSP	CAMERA SURGE PROTECTION	OMH	OFFICE OF MENTAL HEALTH
CCTV	CLOSED CIRCUIT TELEVISION	OITS	OFFICE OF INFORMATION TECHNOLOGY SERVICES
CU	COPPER		
		PASMC	PERSONAL ALARM SYSTEM MAIN CONTROLLER
DIA	DIAMETER	PD	PANIC DEVICE
DWG	DRAWING	PNL	PANEL
.	DEGREE	PS	POWER SUPPLY
		PNR	POWER
EA	EACH		
EIC	ENGINEER IN CHARGE	REQ'D	REQUIRED
ELEC	ELECTRIC(AL)	RGS	RIGID GALVANIZED STEEL
EQUIP	EQUIPMENT	RM	ROOM
ES	ETHERNET SWITCH	RU	RACK UNIT(S)
EXT	EXTERIOR		
EX	EXISTING	SFO	12 STRAND SINGLE-MODE FIBER OPTICAL
		SW	SWITCH
F	FUSE(D)		
FPP	FIBER PATCH PANEL	TS	TAMPER SWITCH
FLR	FLOOR	TYP	TYPICAL
FT	FOOT (FEET)		
		UON	UNLESS OTHERWISE NOTED
GND	GROUND		
GALV	GALVANIZE(D)	W	WIRE
GC	GENERAL CONTRACTOR	w/	WITH
		WP	WEATHERPROOF
HH	HAND-HOLE		
IMS	INTERCOM MASTER STATION		
ISS	INTERCOM SUB-STATION		
ID	IDENTIFY, IDENTIFICATION		
IR	INTERCOM RELAY		

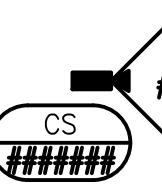
GENERAL

 NUMBER IN CIRCLE, WITH OR WITHOUT ARROW
 MATCHING NUMBER.
 ← DETAIL / PLAN NUMBER
 ← DRAWING NUMBER
 CABLE SCHEDULE CALLOUT
 CAMERA STATION NO.
 NUMERALS INDICATE DEVICE NUMBER
 ← 1 2 3
 NUMBER IN HEXAGON INDICATES BUILDING ID

RACEWAYS

_____	EXPOSED RACEWAYS WITH WIRING OR PULL ROPE AS INDICATED. INSTALL CONCEALED IN FINISHED AREAS. MINIMUM CONDUIT SIZE SHALL BE 3/4", PROVIDE J-HOOKS ABOVE CEILING TO ASSOCIATED ACCESS CONTROL PANEL.
_____ F _____	12 STRAND SINGLE-MODE OPTICAL FIBER CABLE IN CONDUIT ROUTED WITHIN BUILDING
_____ UGF _____	UNDERGROUND CONDUIT FOR 12 STRAND SINGLE-MODE OPTICAL FIBER CABLE
___ _ _ _ _	GROUND WIRING
○	CONDUIT TURNING UP
●	CONDUIT TURNING DOWN

SECURITY

	WALL MOUNTED SECURITY EQUIPMENT AND SECURITY EQUIPMENT RACK.
	ACCESS CONTROL PANEL
	CCTV SYSTEM WORK STATION
	CABLE MANAGEMENT SYSTEM
	POWER SUPPLY
	ETHERNET SWITCH, 10/100/1000 SUBSCRIPT DCS INDICATES DOOR CONTROL SYSTEM NETWORK
	CAMERA SURGE PROTECTION
	INTERCOM MASTER STATION WITH VIDEO – DESK MOUNTED AIPHONE JP–4MED OR APPROVED EQUAL. PROVIDE 3/4" CONDUIT TO ABOVE CEILING
	INTERCOM SUB-STATION WITH VIDEO – AIPHONE JP–DV AND MKW–P MOUNTING PLATE OR APPROVED EQUAL.
	OPTICAL FIBER TERMINATION RACK
	ACCESS CONTROL CARD READER (ESSEX ELECTRONICS ROXPROX II SERIES PRX2–2) SUBSCRIPT M INDICATES MULLION MOUNT CARD READER (ESSEX ELECTRONICS ROXPROX II SERIES PRX2–1)
	DOOR POSITION SWITCH BUILT INTO DOOR LOCKING HARDWARE SUBSCRIPT S INDICATES SURFACE MOUNT
	DOOR LOCKING HARDWARE WITH BUILT IN REQUEST TO EXIT
	EXIT ALARM
	KEY BYPASS
	OUTDOOR/INDOOR FIXED CAMERA HOUSING/ASSEMBLY (O–FCHA) PART NUMBER: PELCO IBD332–1 SUBSCRIPT ## – INDICATES VIEWING ANGLE
	DATA OUTLET BOX SUBSCRIPT IT INDICATES DATA OUTLET BOX FOR CONNECTION TO ITS NETWORK
	INTERCOM RELAY
	KEYPAD
	PANIC DEVICE
	PERSONAL ALARM SYSTEM MAIN CONTROLLER

GENERAL SECURITY NOTES:

1. WHERE CONDUIT IS EXPOSED, PROVIDE PICK PROOF CAULK ALONG CEILING/WALL TO SEAL GAP BETWEEN CONDUIT AND SURFACES IN WHICH IT COMES INTO CONTACT WITH.
2. ANY EXPOSED WIRING REQUIRED DUE TO SITE CONDITIONS SHALL BE INSTALLED IN SURFACE CONDUIT, AND SECURELY FASTENED WITH SECURITY HARDWARE UTILIZING CENTER-SPIN HEX HEAD REJECT SCREWS. ALL EXPOSED CONDUIT, FITTINGS AND PULL BOX SHALL BE PAINTED TO MATCH EXISTING SURFACES.
3. TEST ALL CAT 6 CABLE AND TERMINATION FOR DEFECTS AND VERIFY CABLING SYSTEM PERFORMANCE UNDER INSTALLED CONDITIONS ACCORDING TO THE REQUIREMENTS OF ANSI/TIA/EIA-568-B. UNLESS NOTED OTHERWISE, PROVIDE ALL FIBER/CAT 6 CABLE TERMINATION.
4. PROVIDE CAT 6 IN CONTINUOUS LENGTH FROM TERMINATION POINT TO TERMINATION POINT, AND LABELED AT EACH END POINT PER ANSI/TIA/EIA-606-A.
5. ALL WIRING SHALL BE TESTED CERTIFIED TO BE FREE OF SHORTS, GROUNDS OR OPENS. PROVIDE WRITING TEST REPORTS.
6. CONCEAL CONDUITS AND WIRING WITHIN WALLS AND/OR ABOVE CEILING WHEREVER POSSIBLE.
7. KEEP ALL COMMUNICATIONS CABLES AWAY FROM POWER CIRCUITS A MINIMUM OF 8".
8. ALL OPEN CABLING ABOVE CEILINGS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURE, SUPPORTED TO BUILDING STRUCTURE WITH J-HOOKS EVERY 4' MINIMUM AND TIE-WRAPPED TO SUPPORT CABLES.
9. UPON COMPLETION OF PROJECT, SUBMIT COORDINATED AND DETAILED "AS-BUILT" WIRING DIAGRAMS SHOWING ALL WIRING AND CONTROL PANEL INSTALLATION DETAILS. WORK WITH FACILITY TO COORDINATE "AS-BUILT" WIRING DIAGRAMS.
10. ADVISE THE DIRECTOR'S REPRESENTATIVE OF ALL WORK SCHEDULES AND EQUIPMENT CUTOVER SEQUENCES.
11. APPROVED FASTENERS SHALL BE USED FOR THE MOUNTING SURFACE TO INSURE THAT EACH DEVICE BEING INSTALLED IS SECURELY FASTENED. PROVIDE PRODUCT DATA AND INSTALLATION METHOD FOR APPROVAL. DATA SHALL INDICATE MAXIMUM LOAD CAPACITY AND STRENGTH OF FASTENER.
12. PROVIDE UL RATED FIRE STOPPING ASSEMBLIES ABOVE ALL FLOOR AND WALL CONDUIT PENETRATIONS.
13. REVIEW AND COMPLY WITH ALL FACILITY ABOVE CEILING ACCESS REQUIREMENTS AND GUIDELINES.
14. ALL WIRING ABOVE ACCESSIBLE CEILINGS SHALL BE IN J-HOOKS, UNLESS OTHERWISE NOTED.
15. COORDINATE INSTALLATION SCHEDULE WITH NYS OGS EIC FOR ACCESS TO THE CONSTRUCTION AREAS AND PHASES FOR EACH AREAS RENOVATING DATES.
16. SCHEDULE COORDINATION MEETINGS WITH THE DOOR HARDWARE SAMPLE INSTALLATION OF THE ELECTRIFIED DOOR HARDWARE TO ESTABLISH THE PROCESS FOR THE INTEGRATION. CONTACT NYS EIC TO SCHEDULE COORDINATION MEETING AND DESIGN ENGINEER.

SECURITY WIRING INFRASTRUCTURE AND COMPONENT INSTALLATION RESPONSIBILITIES UNLESS OTHERWISE NOTED				
LINE #	COMPONENT	PROVIDED BY SECURITY CONTRACT ALLOWANCE (JCI/JCSS)	PROVIDED BY ELECTRICAL CONTRACT	PROVIDED BY CONSTRUCTION CONTRACT
1	VIDEO SURVEILLANCE SYSTEM, PARTS AND PROGRAMMING	X		
2	SECURITY SYSTEMS WIRING AND TESTING/CERTIFICATION	X		
3	SECURITY SYSTEM POKE THRU ASSEMBLIES		X	
4	JUNCTION BOXES/ HAND HOLES FOR SECURITY SYSTEMS		X	
5	PULL STRING IN CONDUIT		X	
6	NAME PLATES FOR SECURITY SYSTEM ENCLOSURES AND DEVICES	X		
7	SECURITY SYSTEMS COORDINATION	X	X	
8	DOOR HARDWARE, WIRING UP TO JB, JB AND DOOR POSITION SWITCH		X	
9	J-HOOKS, CONDUIT, HANGERS AND SUPPORTS, AND SUPPORTING EQUIPMENT		X	
10	SECURITY SYSTEMS WIRING, CONDUIT, AND BACKBOX REMOVAL		X	
11	GROUNDING SYSTEM		X	
12	INTERCOM SYSTEMS, PARTS AND PROGRAMMING	X		
13	SECURITY SYSTEMS, TESTING	X		
14	SECURITY EQUIPMENT ROOM BACKBOARD		X	
15	OPTICAL FIBER CABLING/PATCH PANELS AND CABLES		X	
16	TRENCHING, COMPACTED BACK FILL, SURFACING		X	
17	UNDERGROUND CONDUIT, SAND ENVELOPE, AND SPACERS		X	
18	UNDERGROUND UTILITY WARNING TAPE		X	



CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0021745



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 Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.

& LAKHANI & JORDAN
ENGINEERS, P.C.

UNIFORM CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S
KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE
PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE
2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND
PROFESSIONAL JUDGEMENT, THE DRAWINGS BEARING MY
PROFESSIONAL SEAL AND SIGNATURE MEET OR EXCEED THE
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CONTRACT:

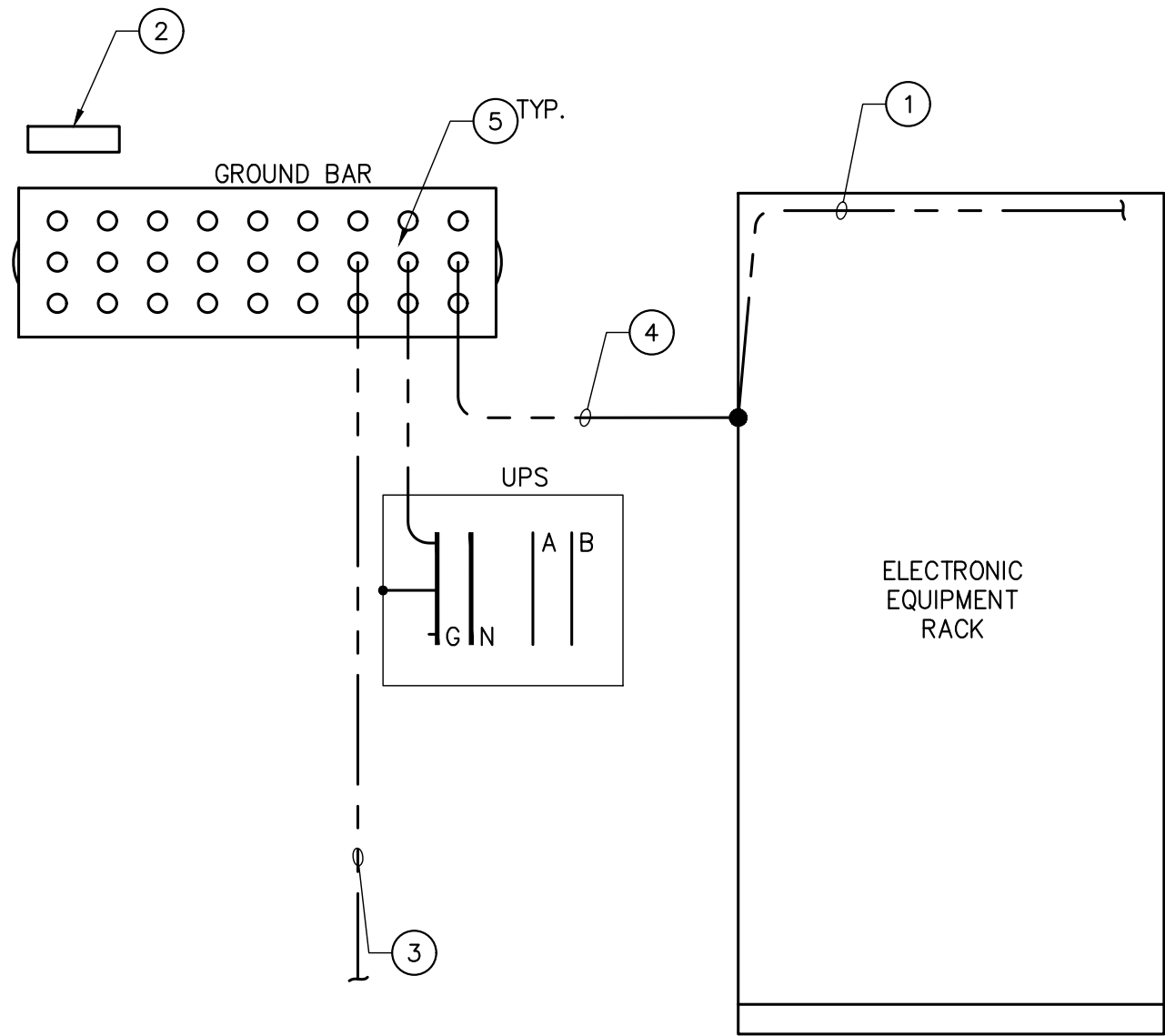
ELECTRICAL

TITLE: PROVIDE TRANSITIONAL RESIDENCE,
SOUTH CAMPUS CREEDMOOR
PSYCHIATRIC CENTER

LOCATION:
80-45 WINCHESTER
QUEENS, NY

CLIENT: OFFICE OF MENTAL HEALTH

	07/20/2026	ADDENDUM 6
	07/16/2025	BID DOCUMENTS
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47688-E	
DESIGNED BY:	MPI	
DRAWN BY:	QTL	
FIELD CHECK:		
APPROVED:		
SHEET TITLE: SECURITY LEGEND AND ABBREVIATIONS		
DRAWING NUMBER: SE-001		
SHEET	OF	



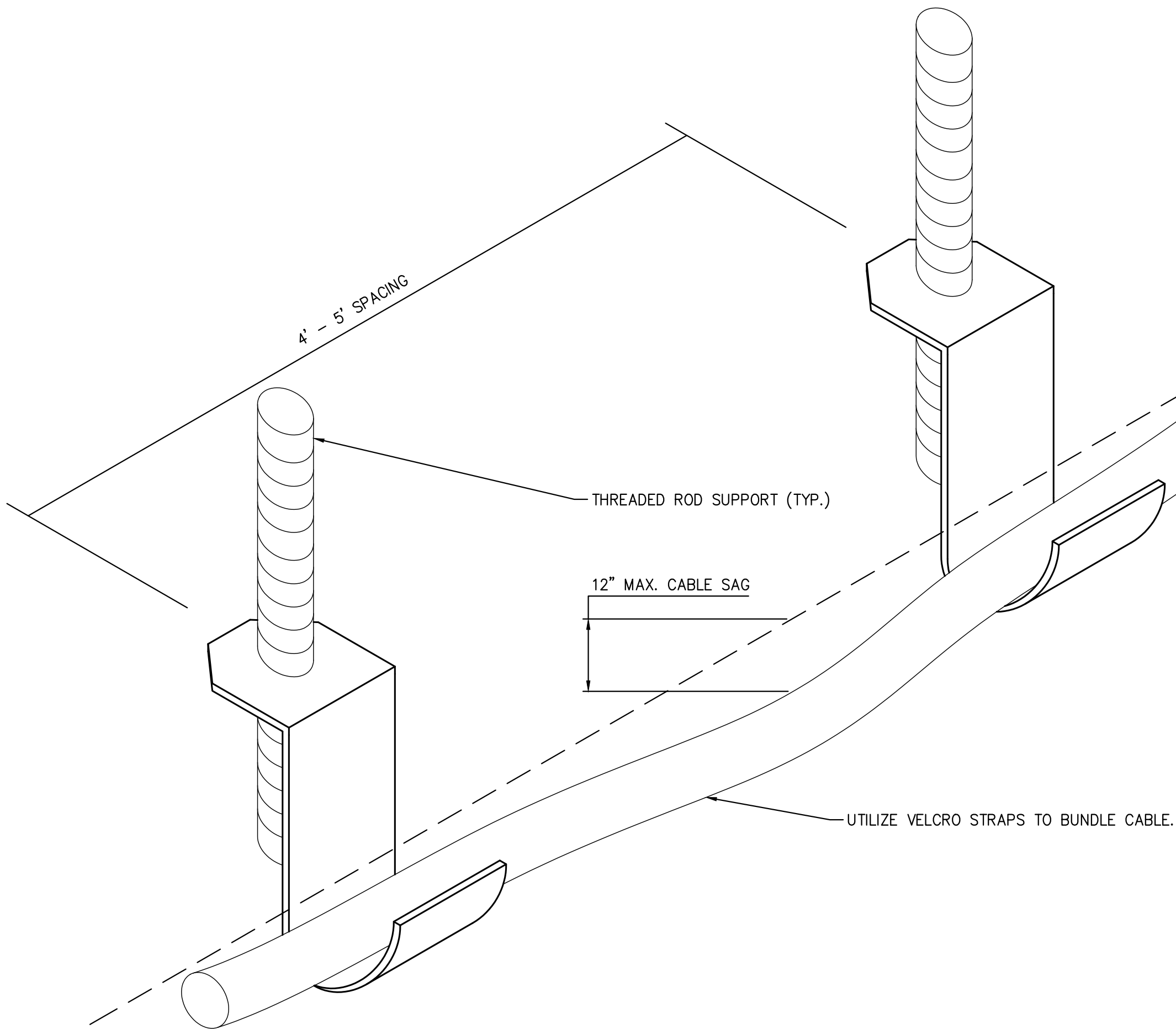
NOTES

1. UNLESS OTHERWISE NOTED, UTILIZE #6AWG FOR ALL GROUNDING CONDUCTORS.
2. UNLESS OTHERWISE NOTED, PROVIDE INSULATED GROUNDING CONDUCTORS.
3. PROVIDE GROUNDING SYSTEM AS INDICATED, PER NEC REQUIREMENTS.

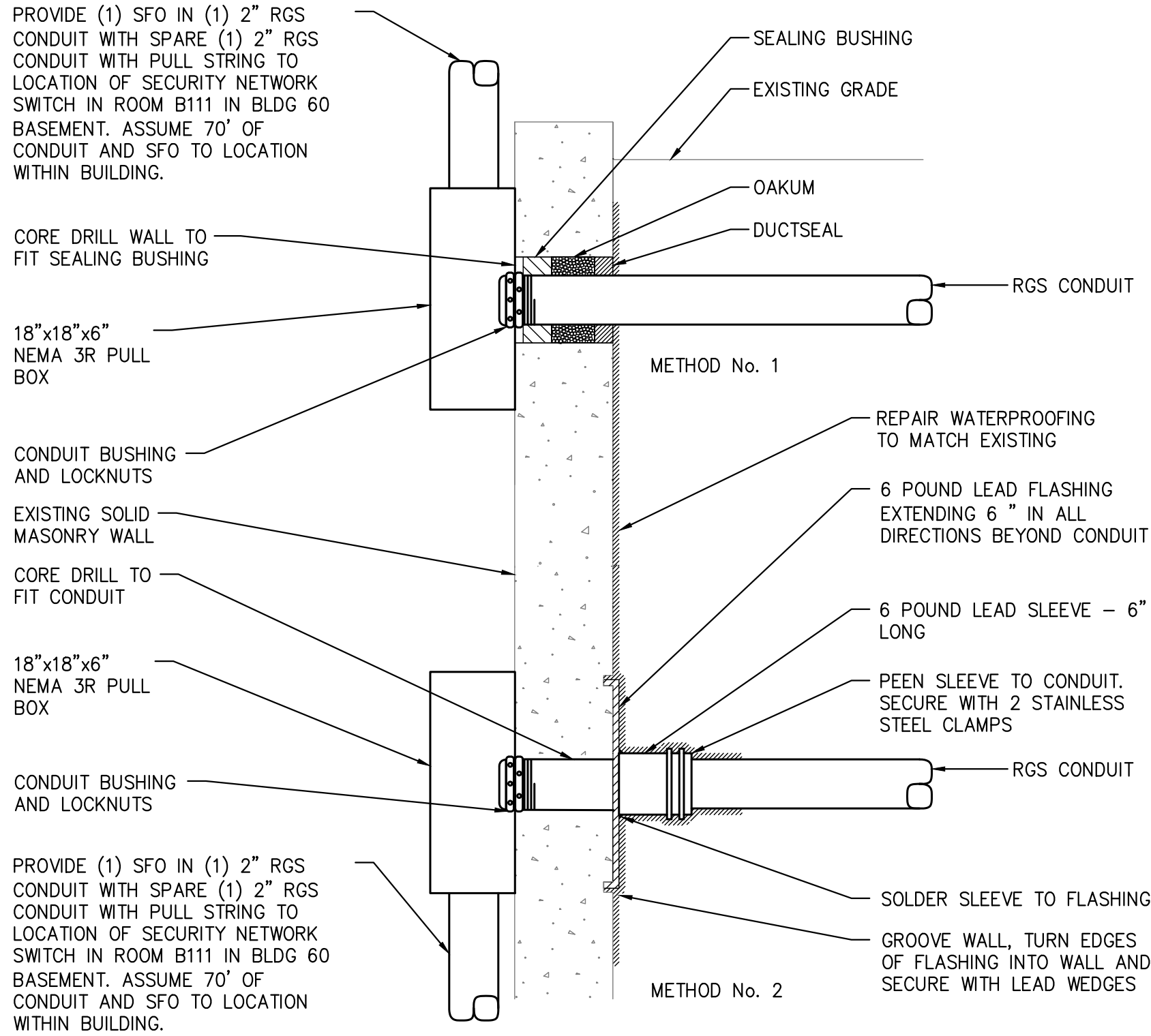
GROUNDING DIAGRAM CODED NOTES

- 1 PROVIDE #6 BARE COPPER WIRE WITH GREEN, THWN INSULATION BONDED TO SECURITY EQUIPMENT RACK.
- 2 ENGRAVED PHENOLIC PERMANENTLY ATTACHED LABEL READING "ELECTRICAL EQUIPMENT GROUND BUS".
- 3 PROVIDE #6 BARE COPPER WIRE WITH GREEN, THWN INSULATION. CONNECT TO BUILDING GROUND SYSTEM.
- 4 PROVIDE #6 BARE COPPER WIRE WITH GREEN, THWN INSULATION.
- 5 PROVIDE (2) HOLE COMPRESSION LUG CONNECTION.

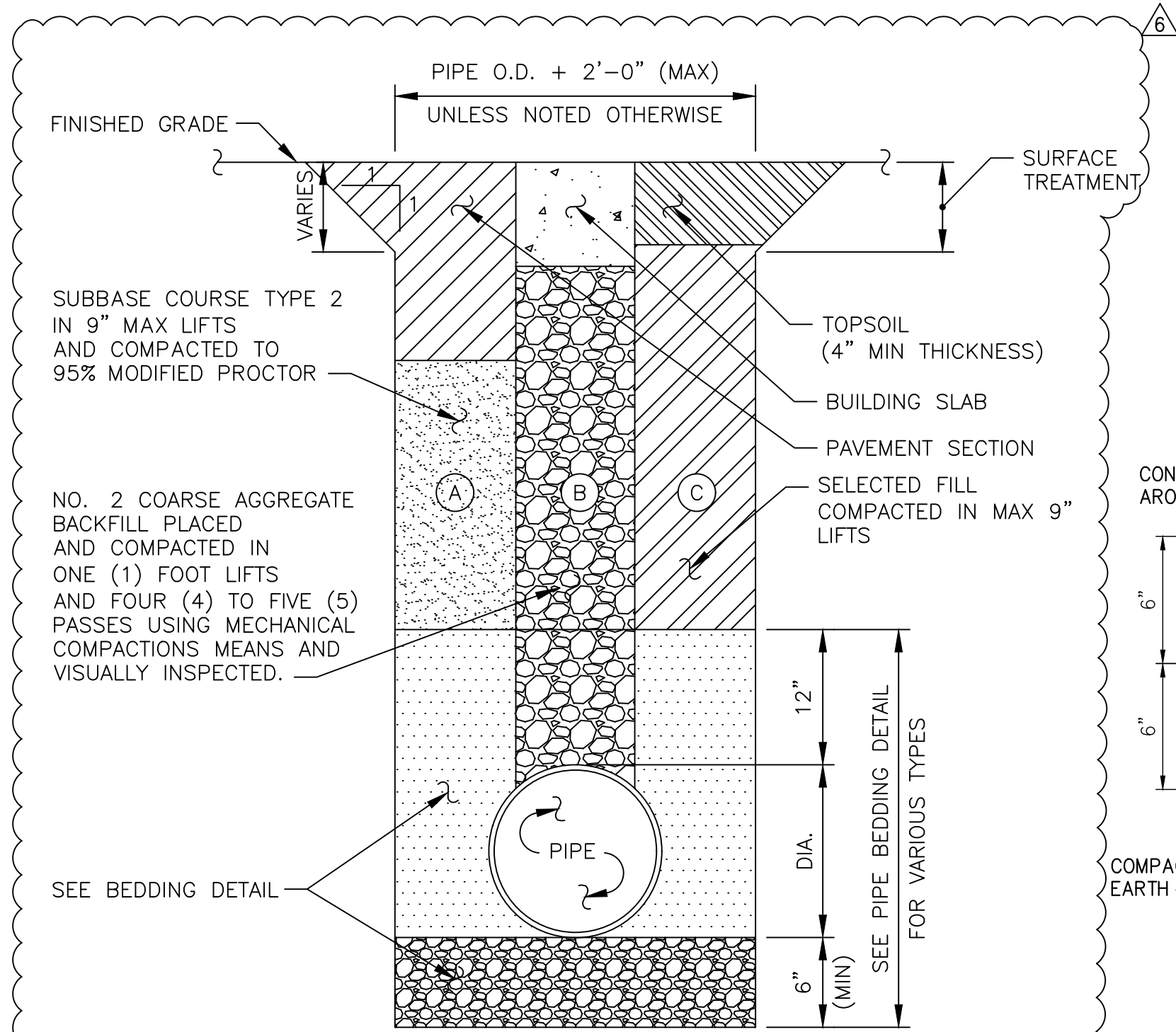
1 GROUNDING SYSTEM — SCHEMATIC DIAGRAM
- NOT TO SCALE



4 J-HOOK
- NOT TO SCALE



2 BUILDING ENTRANCE PENETRATION
- NOT TO SCALE



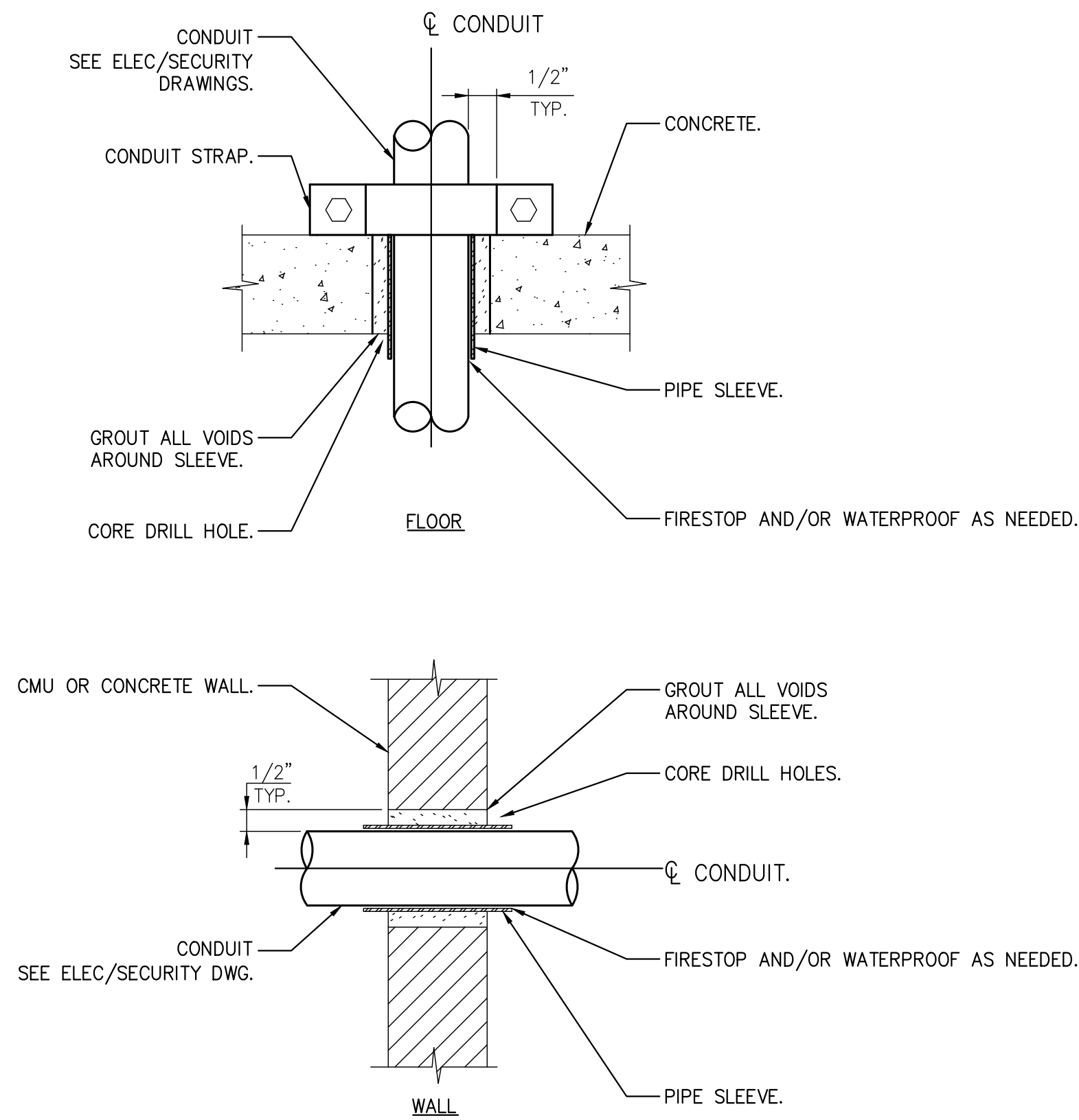
CONSTRUCTION CASES:

- A. TRENCH UNDER ROADWAY (EXTEND 5' OUTSIDE CURB/EDGE OF PAVEMENT)
- B. TRENCH UNDER BUILDING SLAB/FOOTING (EXTEND 5' OUTSIDE BUILDING LINE)
- C. TRENCH UNDER OFF-ROAD AREAS

NOTES:

1. ALL COSTS ASSOCIATED WITH THE PROVISION TRENCH BACKFILL IN ACCORDANCE WITH THIS DETAIL SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXCAVATION AND TRENCHING MEET OSHA REQUIREMENTS.
3. BACKFILL WITH EXCAVATED TRENCH MATERIAL FREE OF DELETERIOUS MATERIAL AND STONES OVER 6" DIAMETER (UNLESS OTHERWISE NOTED). BACKFILL TO BE PLACED IN 9" (MAX) LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D1557) (UNLESS OTHERWISE NOTED)

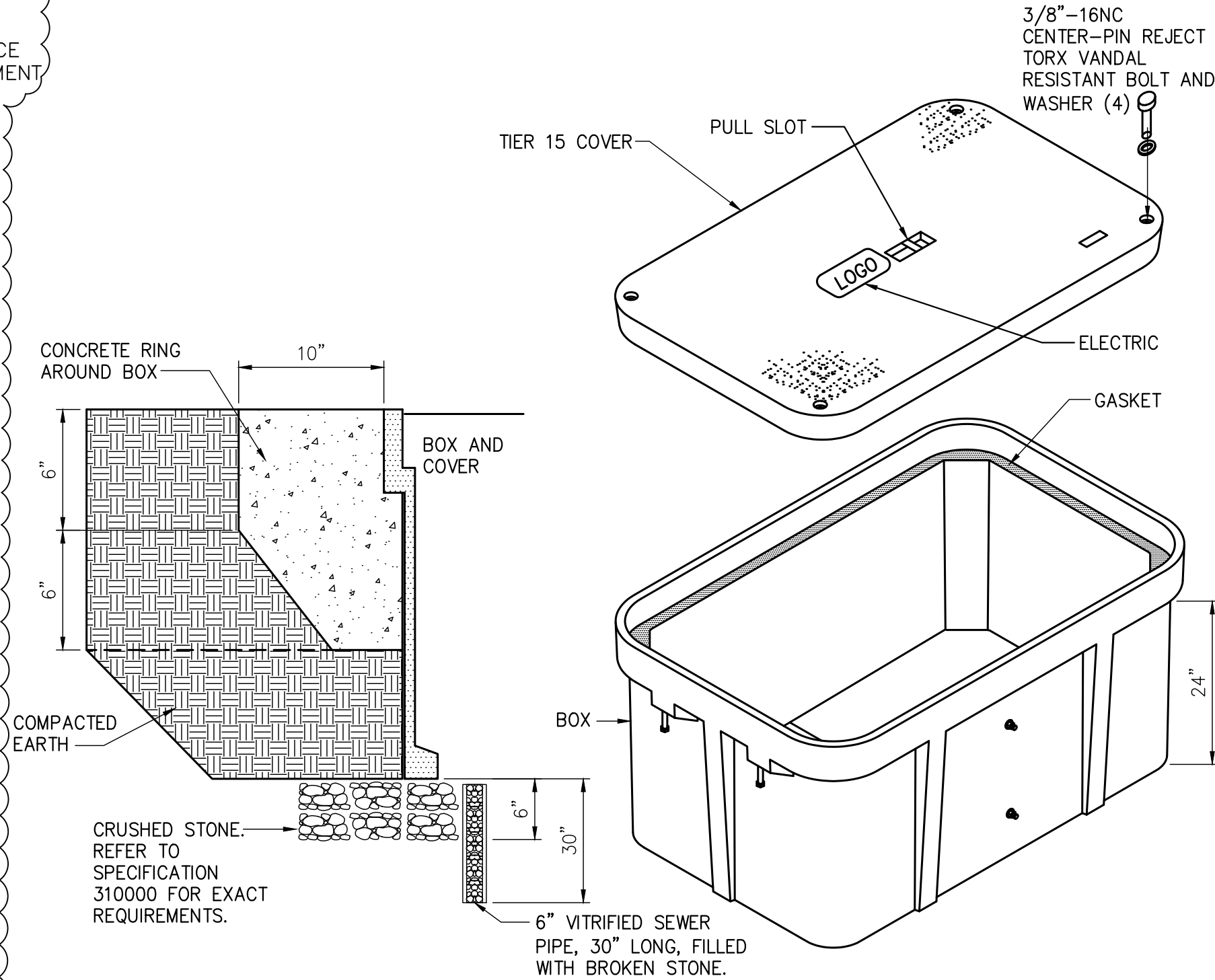
5 TRENCH BACKFILL
- NOT TO SCALE



NOTE:

1. ANCHOR PIPE AS REQUIRED TO PREVENT MOVEMENT THRU PENETRATION.

3 CONDUIT PENETRATION
- NOT TO SCALE



NOTES

1. HAND HOLE SIZE SHALL BE MINIMUM 18"L x 18"W x 24"D.
2. ALL CONDUITS SHALL BE PROVIDED WITH A PULL ROPE.
3. PROVIDE NAMEPLATE ON HAND HOLE LID THAT INDICATES 'SECURITY'.
4. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE, BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT CONCRETE, TOPSOIL AND GRASS.
5. INSTALL HAND HOLE BOX AT DEPTH REQUIRED TO BRING TOP OF HAND HOLE BOX COVER 2" ABOVE FINISHED GRADE IN LAWNS AND FLUSH WITH PAVED SURFACES OF WALKWAY, ROADS, PARKING SPACES, ETC.

6 HANDHOLE
- NOT TO SCALE

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0021745



Tectonic

LAKHANI & JORDAN ENGINEERS, P.C.

UNIFORM CODE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THE DRAWINGS BEARING MY PROFESSIONAL SEAL AND SIGNATURE MEET OR EXCEED THE NEW YORK STATE 2020 ENERGY CONSERVATION CONSTRUCTION CODE.

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 TRANSITIONAL RESIDENCE,
SOUTH CAMPUS CREEDMOOR
PSYCHIATRIC CENTER

LOCATION:
80-45 WINCHESTER BLVD
QUEENS, NY

CLIENT:
OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
6	07/20/2026	ADDENDUM 6
	07/16/2025	BID DOCUMENTS
PROJECT NUMBER:	47688-E	
DESIGNED BY:	MPI	
DRAWN BY:	QTL	
FIELD CHECK:		
APPROVED:		

SHEET TITLE:

SECURITY DETAILS 1 OF 3

DRAWING NUMBER:

SE-501

SHEET

OF