

BHIDE & HALL ARCHITECTS, P.A.
License #AAC000569

PEGASUS TECHNOLOGIES INC.
932 PILOT DRIVE
GREEN COVE SPRINGS, FL 32043

ADDENDUM 001 - 12/10/2019

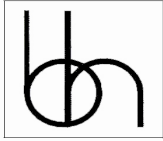
*Please note that drawings with adjustments and clarifications have all been clouded for reference. All modifications to Specification Sections have been included in **BOLD** print for reference.*

INCLUDED DOCUMENTS:

- *Specification sections: all revisions are in **BOLD** print*
 - **07 61 00**
 - **08 41 13**
 - **08 51 13**
 - **08 71 00**
 - **10 14 00**
 - **10 21 00**
 - **10 28 13**
 - **10 51 00**
- **A101, A508, A701, A702, A801, A802, A803, A901, C1.1, C3.0**

RFI'S / RESPONSES (IN BOLD)

1. *The cover page shows a "L-1.0 landscape plan 11/20/2019." Our set does not have this drawing.*
 - **PLEASE SEE ATTACHED PLAN L1.0.**
2. *C2.0 has a note that states "utilities and storm water connection provided by Reynolds Industrial Park." Please clarify what contractor will be responsible for? Taps are already in place and do we provide meter? C4.0 sounds like contractor to provide all. Please advise.*
 - **THE WATER SERVICE TAP HAS ALREADY BEEN INSTALL BY THE ROADWAY CONTRACTOR. THE SEWER SERVICE WILL TIE INTO AN EXISTING MANHOLE. PLEASE ITEMIZE THE 36" STORM SEWER RUN FROM ST-4 TO THE MES IN THE POND, AND THE SECTION OF PIPE FROM ST-4 TO THE UPSTREAM INLET.**
3. *Please clarify the scope of work in the South Parking Lot. There are discrepancies between the Civil and Architectural drawings.*
 - **LANDLORD IS TO PROVIDE FINAL PERMANENT FENCING AT CONCLUSION OF PROJECT. CONTRACTOR SHALL COORDINATE SCHEDULE WITH OWNER. REFERENCE ATTACHED SHEET A101 FOR ADDITIONAL INFORMATION.**
4. *On the volume 2 of 2 specifications there is a specification "32 31 13 chain link fencing 11/20/2019." This is on the table of contents, but the specification is missing. Sheet A101 states "new site fencing provided by landlord." Is all fencing N.I.C.? Please advise.*
 - **LANDLORD IS TO PROVIDE FINAL PERMANENT FENCING AT CONCLUSION OF PROJECT. CONTRACTOR SHALL COORDINATE SCHEDULE WITH OWNER. REFERENCE ATTACHED SHEET A101 FOR ADDITIONAL INFORMATION.**
5. *A001 General Note #6 states "maintain work areas secure and lockable during construction. Coordinate this with the owner to ensure security." The work area will need to be temporary fenced. Please clarify temporary fencing scope of work. What areas will be permanently fenced etc.*



- **CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FENCING FOR COURSE OF PROJECT TO MAINTAIN SITE SECURITY. REFERENCE ATTACHED SHEET A101 FOR ADDITIONAL INFORMATION.**

- 6. *A802 detail 12 is just notes. No drawings.*
 - **SHEET HAS BEEN CORRECTED AND IS ATTACHED FOR REFERENCE. THANK YOU FOR BRINGING THIS TO OUR ATTENTION.**

- 7. *Are all TV's N.I.C.? Some are marked as N.I.C. but some are not marked? Please Clarify.*
 - **ALL TV'S ARE NIC. ALL LOCATIONS FOR TV'S REQUIRE F.T. WOOD BLOCKING IN WALLS FOR MOUNTING LARGE SCREENS.**

- 8. *Are all office furniture items N.I.C.? Please Advise.*
 - **ALL OFFICE FURNITURE IS NIC.**

- 9. *On sheet A901 all trim is called to be stained. However, no crown molding is shown on this schedule. A803 shows stain grade chair rail and base. The crown refers to detail 7/A702. Detail 7/A702 calls for "primed and painted MDF crown." Please confirm finish/product on crown.*
 - **SHEET A901 IS AMMENDED TO INCLUDE CROWN MOLDING FOR ST-1. DETAIL 7/A-702 REVISES NOTE FROM MDF/PAINTED TO HARD MAPLE WITH FINISH ST-1.**

- 10. *The residential hood shown in breakroom B-37 does not show a fire suppression system on the architectural and there is not one shown on the mechanical. We have been made to modify these with a suppression system in Jacksonville. Will this be required? Please clarify.*
 - **RESIDENTIAL HOOD IS NOT REQUIRED AND IS DELETED (12/A802).**

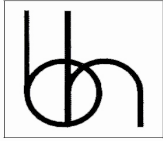
- 11. *The specifications call for an \$8,500 signage allowance. Is the "brandner design" sign included in the allowance?*
 - **SIGNAGE ALLOWANCE INCLUDES THE WAYFINDING/CODE COMPLIANCE INTERIOR SIGNAGE AND MECHANICAL IDENTIFICATION SIGNAGE(NAME PLATES, TAGS, STENCILS, PIPE MARKERS, ETC.) ONLY. BRANDNER DESIGN MANUFACTURERS WC-1 WHICH IS A STEEL PANEL MOUNTED ON MDF SUBSTRATE IS NOT INCLUDED IN THIS ALLOWANCE. THE CUSTUM LOGO/SIGN IN RECEPTION S REMOVED FROM THE CONTRACTORS SCOPE. THE OWNER WILL RE-LOCATE AND RE-MOUNT THEIR EXISTING SIGN.**

- 12. *Where is the Locker Spec?*
 - **SEE ATTACHED 10 51 00**

- 13. *The signage specs for division 10 call for signage by Gemini and show a sign schedule however no sign details can be found such as size and design. ADA Plaques are made from Aluminum, Bronze or Brass. Please Advise on material to be used?*
 - **SIZE: 7" X 8 ½" X ¼" (STANDARD SIZE) - GEMINI SIGNAGE ADA WAYFINDING. CONTACTING GEMINI SIGNS MAY BE REQUIRED. (STANDARD ADA PLAQUES TYPE B, E, F, AND H ARE USED)**
 - **ADA PLAQUES WOULD BE ALUMINUM #5052 WITH**

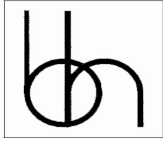
- 14. *B. Please confirm that a 5% bid bond is required on this project since an alternate price for 100% P&P bond is a requested alternate.*
 - **A 5% BID BOND IS NOT REQUIRED.**

- 15. *Please advise which furniture is to be within the millwork scope and which furniture is to be OFOI. It appears that the reception desk, Bar, Training Room upper and lower cabinets, Corridor upper*

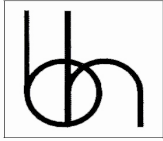


and lower cabinets, Flex Space upper and lower cabinets, and the Lobby Wall with related paneling are to be part of the Millwork – Casework contract scope.

- **MILLWORK ITEMS ARE THOSE INDICATED ABOVE: RECEPTION DESK AND PANELING ON BACK WALL OF RECEPTION DESK, TRAINING ROOM UPPER/LOWER CABINETS, FLEX ROOM UPPER/LOWER CABINETS, TEAM ROOM BAR, THERE IS AN ISLAND IN THE BREAK ROOM THAT IS ALSO IN CONTRACT. NOT FAMILIAR WITH CORRIDOR UPPER/LOWER CABINETS?**
16. Is the plumbing contractor installing chase pipes for refrigerant piping from mech room to cond locations?
- **RESPONSE: ADDITIONAL CLARIFICATION TO FOLLOW**
17. In the spec section 2.13 it shows a permanently mounted load bank. But I don't see it on the Riser.
- **RESPONSE: ADDITIONAL CLARIFICATION TO FOLLOW**
18. In the spec section 2.11 it calls for automatic louvers, just checking to see if that's actually needed
- **RESPONSE: ADDITIONAL CLARIFICATION TO FOLLOW**
19. In the riser section E5.6 note 9 of the generator section it calls for AHCA start up and testing. Is this an AHCA facility?
- **AHCA IS NOT REGULATING THIS FACILITY. IGNORE NOTE.**
20. The mechanical condenser unit pad at the NW side of the building is shown as 6' x 42' on sheet A/102 and shown as 6' x 25' on sheet C/2.0 and there are no details provided for pad thickness, reinforcing, etc. Please advise.
- **6' x 42'**
21. Civil C-3.0 Shows SDR 35 PVC for the storm drain. Is this correct.? SDR 35 is not normally used in this application, especially the larger pipe sizes.
- **PLAN IS REVISED TO SHOW 36" RCP. ROOF DRAIN CONNECTION POINTS HAVE BEEN CHANGED TO CONNECT TO THE 15" PVC SDR35.**
22. There is no elevation given for the 36" M.E.S. in the Dry Pond. Please Clarify.
- **MES INVERT IS THE BOTTOM OF THE POND, EL = 9.00.**
23. There is an existing Inlet and a new inlet shown at the southern end of the new paving, neither of which has type or elevations shown. Please clarify.
- **THE NEW INLET WILL BE INSTALLED BY REYNOLDS PARK (LANDLORD)**
24. Is the intention to remove an existing 36" pipe running in a N/S direction.? If so, is it known what type of pipe is existing?
- **LAND OWNER (REYNOLDS PARK) HAS INDICATED TO THE OWNER THAT THEY WILL REMOVE THE EXISTING 36" PIPE RUNNING IN THE N/S DIRECTION PRIOR TO CONSTRUCTION. PLEASE PROVIDE A LINE ITEM COST TO REMOVE THE PIPE AS NOTED ON SHEET C-1.1**
25. There is a note on C-2.0, "UTILITIES AND STORMWATER CONNECTION PROVIDED BY REYNOLDS INDUSTRIAL PARK". Is there a tap provided Fire and Domestic services or will we need to install a new 6" Tap, if so, what size is the existing water main?
- **TAP HAS BEEN PROVIDED**
26. The existing prints do not seem to match the existing site, as far as elevations shown. Do the prints dated 1/23/19 reflect the state of the site conditions now.?



- **THE ACCESS ROAD IS UNDER CONSTRUCTION AND THE TWO DRIVEWAY CONNECTIONS ARE IN PLACE. THE ELEVATIONS FOR THE NEW BUILDING AND PARKING AREAS ARE AS SHOWN ON THE EXISTING CONDITIONS.**
- 27. When will the "Dry Pond" be built? Before construction begins?
 - **THE DIRECTION RECEIVED FROM REYNOLDS PARK (LAND OWNER) IS THAT THE "DRY POND" WILL BE CONSTRUCTED PRIOR TO CONSTRUCTION BEGINNING.**
- 28. The existing Pre-Cast M.E.S. in the center of the new paving area coming from the roadway is not shown on C-1.0 and looks to be quite a bit lower than the new top of curb shown on C-3.0 (15.30). Will this be adjusted by the awarded Contractor or others?
 - **THE OWNER WILL MAKE THE ADJUSTMENT**
- 29. Are there any addendums yet?
 - **ADDENDUM (001) IS THE ONLY ONE THAT HAS BEEN ISSUED SO FAR.**
- 30. Who do I need to contact to gain access to the site? Particularly, the existing wet well and area for the new sanitary sewer service.
 - **PLEASE CONTACT THE ARCHITECT OF RECORD TO GAIN ACCESS TO THE SITE.**
- 31. Will there be a pre-bid meeting on site?
 - **A NON-MANDATORY PRE-BID MEETING OCCURRED AS SCHEDULED ON DECEMBER 3**
- 32. Interior Partition Type "E" on A5.08 indicates a varying thickness material. Please advise what this material is and where the thickness can be found.
 - **VARYING THICKNESS MATERIAL IS INCORRECTLY LABELED. DETAIL HAS BEEN UPDATED.**
- 33. How are we going to be able to factory form and caulk the roof panels some of the panels are 96' long
 - **CONTACT SPECIFIED MANUFACTURER (PAC-CLAD). STANDING SEAM PANELS CAN BE SITE ROLLED OVER 100'-0" LENGTH.**
- 34. Please provide a spec or product for the metal soffit panels. Vented or solid?
 - **SOFFIT PANELS ARE INTENDED TO BE NON-VENTED SPECIFICATION SECTION 07 61 00 HAS BEEN UPDATED**
- 35. Can we replace the wood blocking with 18 ga material? Wood blocking and fascia tend to twist.
 - **YES**
- 36. Regarding the Kawneer 601 T , no FPA to use receptor as in detail on A1002.
 - **SPEC SECTION WAS REFERENCING THE INCORRECT DESIGN SYSTEM. THIS HAS BEEN AMENDED AND IS INCLUDED IN THE UPDATED SPEC SECTION 08 51 13**
 -
- 37. Please clarify whether to use insulated laminated glass or tempered insulated glass on exterior storefront.
 - **INSULATED GLASS ONLY IS REQUIRED. LAMINATED GLASS IS NOT REQUIRED.**
- 38. Clearstory window type D , use window system or Kawneer 601 T storefront ?



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- **REFERENCE SECTION 08 51 13. - TRI-FAB 601T OR APPROVED EQUAL IS ACCEPTABLE.**

- 39. Interior frames V2 and V3 clarify whether to use Insulated per detail or ¼ clear tempered .
 - **¼" CLEAR TEMPERED.**

- 40. Will Robe hooks and Towel bars be required for the project. Spec indicates them but they are nowhere on the plans. Please clarify.
 - **ROBE HOOKS ARE REQUIRED AS INDICATED ON THE UPDATED ENLARGED PLAN AND PER THE SPECIFICATION. TOWEL BARS ARE NOT REQUIRED.**

- 41. Will ADA grab bars be required in the showers? If so, will blocking be required. Please clarify.
 - **YES, ADA GRAB BARS ARE REQUIRED IN THE ADA SHOWER STALLS ONLY. REFERENCE DETAIL SHEET A-802 FOR ADDITIONAL INFORMATION. SPEC SECTION 10 28 13 HAS BEEN AMENDED.**

- 42. SS Toilet partitions in shower room will not be warranted by manufacturer.
 - **THE TOILET PARTITION SPEC SECTION HAS BEEN MODIFIED TO SUBSTITUTE A SOLID PLASTIC (HDPE) PRODUCT FOR SHOWER ROOM LOCATIONS. PLEASE REFERENCE SPECIFICATION SECTION 10 21 00 FOR ADDITIONAL INFORMATION.**

- 43. Interior Doors B-33 & B-37: These are ½" tempered all-glass architectural doors. What is the finish of the top & bottom rails & handles? What length are handles?
 - **BASIS OF DESIGN IS CR LAURENCE 250 SERIES ENTRANCE DOOR SYSTEM WITH LADDER STYLE HANDLE (PROVIDED ON BOTH SIDES OF DOOR). OVERHEAD CONCEALED CLOSER SIMILAR TO JACKSON 20-330 OR DORMA RTS-88. PROVIDE OVERHEAD DOOR STOP SYSTEM. 4 ½" BOTTOM RAIL; 1 ½" TOP RAIL; ½" LOW-E GLASS WITH EXPOSED/POLISHED EDGES.**

SECTION 07 61 00
PRE-FORMED METAL STANDING SEAM ROOFING
ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Metal roofing, including flashing and accessories.
- B. Non-Vented Metal Soffit Panels

1.2 RELATED SECTIONS

Roof Deck structural steel, and Fire-stopping not included in this section.

1.3 REFERENCES

- A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2001a.
- B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2001.
- C. ASTM E 283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 1991 (Reapproved 1999).
- D. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000.
- E. ASTM E 408/C - 1371: "Standard Test Method for Total Normal Emittance of Surfaces Using inspection - Meter Techniques.
- F. ASTM E 903/C - 1549: Standard Test Method for Solar Absorbance, using Integrating Spheres.
- G. ASTM E 1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference; 1995.
- H. ASTM E 1680 - Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems; 1995.
- I. Dade County County (Florida) Acceptance Report Numbers: 01-1106-01 and 01-1106-02.

- J. FM - Tests Requirements for Class 1 Panel roofs, Factory Mutual Research Corporation.
- K. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; 1994.
- L. UL2218: Class 4 Impact Resistance Rating.
- M. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors National Association; 1993.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors and textures.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data: Include methods for maintaining installed products and precautions relating to cleaning materials and methods that might be detrimental to finishes and performance.
- H. Close Out: Warranty documents specified herein.

1.5 QUALITY ASSURANCE

- A. Petersen Aluminum Corp products establish a minimum of quality required.

Acworth, GA, 800-272-4482
- B. Manufacturer and erector shall demonstrate experience of a minimum of five (5) years in this type of project.

- C. Sheet Metal Industry Standard: Comply with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Architectural Sheet Metal Manual and National Roofing Contractors Association (NRCA) details applicable to wall panels and wall flashings.
- D. Panels shall be factory-produced only. No portable, installer-owned or installer-rented machines will be permitted
- E. Installer Qualifications: Installer with documented experience in performing work of this section who has specialized in the installation of work similar to that required for this project.
- F. Pre-Installation Meeting: Conduct pre-installation meeting to acquaint installers of roofing and related work with project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements.

1.6 SUBSTITUTIONS

- A. The material, products and equipment specified in this section establish a standard for required function, dimension, appearance and quality to be met by any proposed substitution.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.
- B. Store materials protected from exposure to harmful conditions. Store material in dry, above ground location.
 - 1. Stack pre-finished material to prevent twisting, bending, abrasion, scratching and denting. Elevate one end of each skid to allow for moisture to run off.
 - 2. Prevent contact with material that may cause corrosion, discoloration or staining.
 - 3. Do not expose to direct sunlight or extreme heat trim material with factory applied strippable film.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 ROOF SYSTEM PERFORMANCE TESTING

- A. Water Penetration: When tested per ASTM E-283/1680 and ASTM E-

331/1646 there shall be no uncontrolled water penetration or air infiltration through the panel joints.

- B. Roof System shall be designed to meet Florida Building Code wind load requirements. Panel system shall have a Miami-Dade® NOA APPROVAL with current NOA approval number available to Architect upon request.
- C. Roof System shall be designed to meet a UL Class 90 wind uplift in accordance with UL standard 580. Panel attachment and spacing of clip attachment will be certified by a Registered Florida Professional Engineer to show the applicable spacing for Zones 1, 2 and 3 per current Florida Building Code and per the Structural Engineer-of-Record "Cladding & Component pressures" for the roof system on Bid Drawings S001 structural drawings..

1.10 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty document executed by authorized company official covering: finish, including color, fade, chalking and film integrity.
- B. The Manufacturer shall warrant for twenty years (20) from the date of substantial completion of the Work related to this section, that the work is not defective in workmanship or material, and that the roof will be adequate to prevent leaks. This warranty may be provided in the short term by the Contractor/Roof Installer, however must have the backing and assurance of the roof system manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Petersen Aluminum Corp., which is located at: 1005 Tonne Rd. ; Elk Grove Village, IL 60007; Toll Free Tel: 800-323-1960; Tel: 847-228-7150; Fax: 800-722-7150; Email: [request info \(bbatkoff@petersenmail.com\)](mailto:requestinfo@bbatkoff@petersenmail.com); Web: www.pac-clad.com

Other acceptable Manufacturers:

IMETCO: Tucker, GA "Series 300" system 770-908-1030

Whirlwind Building Systems, Douglasville, GA

MBCI, Douglasville, GA ""Batten-Lock" 770-948-7568

2.2 SHEET METAL ROOFING

- A. Roof Panels.

1. Performance Requirements: Provide sheet metal roofing that has been manufactured, fabricated and installed to achieve the following performance without defects, damage, failure or infiltration of water.
 - a. Wind Uplift: Provide UL 580 Class 90 rated assembly.
 - b. FM: Test Requirements for Class 1 panel roofs.
 - c. Static Air Infiltration: 0.06 cu ft/min/sq ft (1.1 cu m/h/sq m) at 6.24 lb/sq ft (300 Pa) air pressure differential, maximum, when tested in accordance with ASTM E 283 or ASTM E 1680.
 - d. Water Infiltration: No evidence of water penetration at inward static air pressure differential of 12.0 lb/sq ft (575 kPa), when tested in accordance with ASTM E 331 or ASTM E 1646.
 - e. Thermal Movement: Accommodate movement expected due to ambient and surface temperature ranges likely to occur at project site.
2. Panel Lengths: As indicated on drawings. Maximum length indicated is 98 feet. These panels will require field fabrication. Panels over 55' in length required to be in one continuous roll.
3. Design Basis: Petersen Aluminum Tite-Loc Plus Panels with Striations & Pencil Ribs; tension-leveled panels with 2 inch (50 mm) high mechanically crimped standing seams.
4. Seam Style: Mechanically seamed together, triple-folded to 180 degrees (Tite-Loc Plus) per FM approval.
5. Material: 24 gage ASTM A 653/A 653M G90 hot-dipped galvanized steel, structural quality.
6. Panel Width: 18 inch wide, center to center.
7. Provide Striations with Pencil Ribs on the panel pan to prevent "oil-canning"
8. Eave Notching: Factory produced eave notching for trimmed eave panels.
9. Sealant Bead: Factory applied sealant bead.
10. Texture: Striated with Pencil-Ribs to prevent "oil-canning"
11. Finish: Factory applied PAC-CLAD finish:
 - a. Topside: Full-strength fluoropolymer, 70 percent Kynar 500 or Hylar resin, 1.0 mil (0.025 mm) total dry film thickness.
 - b. Underside: Wash coat of 0.3 to 0.4 mil (0.076 to 0.1 mm) dry film thickness.
 - c. Color: Standard Colors: Burnished Slate, Slate Grey, or Graphite (Submit color samples for final approval)
12. Exposed Flashing and Trim:

Unless otherwise specified, all exposed adjacent flashing and trim shall be of the same material and finish as panel system.

 - a. Forming: Use continuous end rolling method. No end laps

- on panels.
 - b. Trim: Trim shall be fabricated of the same material and finish to match the profiled sheeting and press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer or their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.
 - c. Closures: Use composition or metal profiled closures at top of each elevation to close ends of the panels. Metal closures to be made in the same material and finish as face sheet.
 - d. Insulation: See Section 07 210: Building Insulation.
- B. Gutters and Downspouts:**
- 1. Aluminum: Kynar finish color to match standing seam roof:
 - 2. High-Back Box Gutter
 - a. Depth: 8in, Aluminum .032in, 10' length min.
 - 3. Square/Rectangular Downspouts and Elbows and Offsets:
 - a. Profile: 8" x 8", Material: Aluminum with Kynar Finish, 0.024 in, Length 120 in.
 - b. Provide strap hangers for downspouts and fascia hangers with snap trim typical. Spacing as required to provide complete installation.
 - c. Provide gutter screens: Powder coated to match gutter system.
- C. Non Vented Soffit Panels:**
- 1. **Manufacturer: PAC-CLAD**
 - 2. **Aluminum Flush Soffit Panel: 12" x 0.032" thick**
 - a. **12" panel span. Secured @ 24" o.c.**
 - b. **16 GA Z-bar substrate @ 18" o.c. (typ)**
 - c. **Secure with #10 x 1" Pancake Hed screw fastened at each support to 16 GA Zeebar or equivalent.**
 - 3. **Aluminum Kynar Factory Finish to match roof system**
 - 4. **Manufacturer roll-formed to exact lengths**
 - 5. **Provide matching trim**
 - 6. **ASTM E330 Compliant**
 - 7. **FPA #23157**

2.3 ACCESSORY MATERIALS

- A. Self-Adhered roofing underlayment: Furnish and install a 40 mil "Peel-n-stick" membrane as required by the metal panel manufacturer. Membrane shall be minimum 40 MIL thickness, smooth, non-granular, and shall be installed as required by the standing seam panel manufacturer to attain the desired 20 year weathertightness warranty.

Product shall be ONE OF the following:

1. Grace: Ice & Water Shield
 2. Carlisle: CCW WIP 300HT
 3. Interwrap: Titanium PSU
 4. MFM Corp: "Wind & Water Shield"
 5. TAMKO: TW Wile and Metal Underlayment
 6. Polyguard: Deck Guard HT or Polyglas HT
- B. Polyiso-cyanurate foamed plastic, 2 pcf (32 kg/cu m) density to Meet R-25 Minimum.
- C. Sealant: Provide Exterior grade silicone sealant as recommended by roofing manufacturer for the application.
- D. Touch-Up Paint: Approved by panel manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrates are acceptable for roofing installation in accordance with manufacturer's instructions.
- B. Do not begin installation until substrates have been properly prepared.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate metal roofing with other work, including but not limited to drainage, flashing and trim, deck substrates, copings, fascia, and other adjoining work.
- C. Install metal roofing panels to profiles, patterns and drainage indicated, in accordance with manufacturer's instructions, and as necessary to achieve specified performance and a leak-free Installation. Allow for structural and thermal movement.
- D. Separate dissimilar metals using bituminous coating to prevent galvanic action.
- E. Use fasteners recommended by panel manufacturer; conceal fasteners wherever possible; cover and seal exposed fasteners. Place fasteners where indicated in manufacturers standards. Secure units to supports.
- F. Provide uniform, neat seams; provide sealant-type joint where indicated and form joints to conceal sealant.

- G. Panels shall be installed plumb and true in proper alignment and relation to the structural framing.
- H. Install metal panels, fasteners, trim and related sealants in accordance with approved shop drawings and as may be required for a weather-tight installation.
- I. Remove all strippable coatings and provide a dry wipe-down cleaning of the panels as they are erected.
- J. Field Inspection of installed panel roof system by Metal Panel Manufacturer Factory-Approved/Authorized inspector will be required for the 20 Year Limited Weathertightness Warranty. Minimum of two (2) inspections by the Factory Inspector will be required with written reports of these inspections.

3.3 FIELD QUALITY CONTROL

- A. Post Installation Testing: Owner reserves right to perform post installation testing of installed sheet metal roofing.
- B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

3.4 CLEANING

- A. Remove temporary coverings and protection of adjacent work areas.
- B. Touch-up, repair or replace damaged products.
- C. Clean in accordance with manufacturer's instructions prior to Substantial Completion.
- D. Remove construction debris from project site and legally dispose of debris.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the architect and owner before Substantial Completion.

END OF SECTION

SECTION 08 41 13

ALUMINUM-FRAMED ENTRANCE DOORS
ADDENDUM 001

1. GENERAL:

1.1 Related Documents: The requirements of Division 1 are hereby made a part of this section as if fully repeated herein.

1.1.1. Work included: Furnish and install all aluminum storefront doors, including all necessary hardware, trim anchors, glazing and miscellaneous items in place, where shown on the drawings and as specified herein.

1.2 Materials specified below are intended to establish a standard of quality. Similar and equal products by other locally represented manufacturers will be considered.

1.2.1 Related Sections: Glazing shall be as specified in Section 08 80 00 "Glass and Glazing".

1.3 Submittals:

1.3.1 Manufacturers' data

1.3.2 Shop drawings showing installation and fabrication details.

1.3.2.1 It is understood that the dimensions of all materials shown are nominal dimensions. Contractor shall be responsible for verification of dimension and job conditions and shall provide window units and related materials to fit. Show actual dimension on shop drawings.

1.3.3 Test reports indicating AAMA rating and performance standards including infiltration and water resistance tests, uniform load deflection tests and uniform load structure tests.

2. PRODUCTS:

2.1 Types: Types are indicated on the drawings based on the following units supplied by KAWNEER.

2.1.1 ~~Model AA 250 Thermal Entrance Tri-Fab 601T~~

2.1.1.1 Construction: Frames and sash members shall be

constructed of aluminum alloy and tempered as recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finishes. NOT LESS THAN 0.090" wall thickness and any location for the main frame and door leaf members. Glazing shall be as specified in Section 08 80 00. Performance Rating Testing in accordance with AAMA C55. Thermal break type of construction is required.

Vertical Stile: **2 ½"**

Top Rail: **2 ½"**

Bottom Rail: ~~10"~~ **6 ½"**

Major portions of door members to be 0.125" nominal thickness and glazing molding to be 0.05" thick.

Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.

Provide Adjustable glass jacks to help center the glass in the door opening.

2.1.1.2 Brackets and accessories: Provide manufacturer standard brackets, reinforcements, fasteners, anchors, and accessories.

2.1.1.2.1 Steel Anchors: Provide butyl or neoprene insulation between steel and aluminum to inhibit galvanic reaction between dissimilar metals.

2.1.1.3 Glazing: All systems shall be glazed with specified glass and shall be back bedded with butyl glazing compound. Glass shall be retained by standard snap-in glazing bead properly fitted.

2.1.1.4 Windows shall be set in a one piece sub-sill of matching finish with sealed end dams.

2.1.2 Hardware:

2.1.2.4 Weather Stripping: The door weathering on a single action butt-hinge door and frame (single or pairs) shall be comprised of a thermoplastic elastomer weathering on a tubular shape with a semi-rigid polymeric backing and a wool pile with polymeric fin.

2.1.2.5 Sill sweep strips: EPDM blade gasket sweep strip in an aluminum extrusion applied to the interior exposed surface of the bottom rail with concealed fasteners

- (Necessary to meet performance tests).
- 2.1.2.6 Threshold: Extruded aluminum, thermally broken, with ribbed surface. Similar or Equal to PEMKO 158A OFFSET SADDLE THRESHOLD. Black Anodized Finish.
 - 2.1.2.7 Butt Hinges: Kawneer Standard: #29 Black Kalcolor
 - 2.1.2.8 Pull (Exterior Side Only): CO-9 Pulls: Black Anodized
 - 2.1.2.9 Exit Device: Ref Door Hardware Section (anodized Black finish)
 - 2.1.2.10 Closer: Ref Door Hardware Section
 - 2.1.2.11 Security Lock: Ref Door Hardware Section
 - 2.1.2.12 Electric Strike: Ref Door Hardware Section

2.2 Finish: Manufacturer's standard Permanodic™ Color Finish.

- (1) Color: Permanodic™ Color Finish: #29 BLACK ANODIZED ALUMINUM. (AA-M10C21A44). Architectural Class I (.7 mils minimum)

3. INSTALLATION

- 3.1 Install in accordance with manufacturer's instruction and recommendations.
- 3.2 Install door(s) plumb and level, true and square. Support properly and securely anchor.
- 3.3 Separate aluminum from dissimilar metals and coat dissimilar metals that are in drainage cavities, using one of the materials specified. Stainless steel, zinc, cadmium, and small areas of white bronze are not considered dissimilar metals.
- 3.4 Install joint sealers between frame members and adjacent surfaces as indicated.
- 3.5 Install glazing as specified elsewhere in Section 08 80 00.
- 3.6 Adjust operable hardware to operate smoothly and close tightly.
- 3.7 Clean glass and frames. Vacuum sill and frames. Remove excess sealant and debris.

END OF SECTION

SECTION 08 51 13

ALUMINUM WINDOWS (EXTERIOR)

ADDENDUM 001

1. GENERAL:

1.1 Related Documents: The requirements of Division 1 are hereby made a part of this section as if fully repeated herein.

1.1.1. Work included: Furnish and install all aluminum windows, including all necessary hardware, trim anchors, glazing and miscellaneous items in place, where shown on the drawings and as specified herein.

1.2.1 Related Sections: Glazing shall be as specified in Section 08 80 00 "Glass and Glazing".

1.3 Submittals:

1.3.1 Manufacturers' data

1.3.2 Shop drawings showing installation and fabrication details.

1.3.2.1 It is understood that the dimensions of all materials shown are nominal dimensions. Contractor shall be responsible for verification of dimension and job conditions and shall provide window units and related materials to fit. Show actual dimension on shop drawings.

1.3.3 Test reports indicating AAMA rating and performance standards including infiltration and water resistance tests, uniform load deflection tests, uniform load structure tests. Comply with ASTM E283, ASTM E547, ASTM E330, and ASTM E331 and AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS).

2. PRODUCTS:

2.1 Types: Types are indicated on the drawings based on the following units supplied by KAWNEER.

2.1.1 ~~Model AA 6600 WINDOWS~~ Tri-Fab 601T

2.1.1.1 Construction: Frames members shall be constructed of aluminum alloy and tempered as recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finishes. NOT LESS THAN 0.070" wall thickness and

any location for the main frame and door leaf members.
Thermal Barrier: The thermal barrier shall be KAWNEER, consisting of two parallel glass fiber-reinforced nylon strips installed continuously and mechanically bonded to the aluminum.

Glazing shall be as specified in Section 08 80 00.

Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.

Provide Adjustable glass jacks to help center the glass in the door opening.

2.1.1.2 Brackets and accessories: Provide manufacturer standard brackets, reinforcements, fasteners, anchors, and accessories. All materials shall be compatible with aluminum window members.

2.1.1.2.1 Steel Anchors: When steel anchors are used, provide butyl or neoprene insulation between steel and aluminum to inhibit galvanic reaction between dissimilar metals.

2.1.1.3 Glazing: All systems shall be glazed with specified glass and shall be back bedded with butyl glazing compound. Glass shall be retained by standard snap-in glazing bead properly fitted.

2.1.1.4 Windows shall be set in a one piece sub-sill of matching finish with sealed end dams.

2.1.1.5 Sealant: For sealants required within fabricated windows, provide window manufacturer's standard, permanently elastic, non-shrinking, and non-migrating type recommended by the sealant manufacturer for joint size and movement. Reference Division 7 for joint sealants

2.2 Finish: Manufacturer's standard Permanodic™ Color Finish.

(1) Color: Permanodic™ Color Finish: #29 BLACK ANODIZED ALUMINUM. (AA-M10C21A44). Architectural Class I (.7 mils minimum)

3. INSTALLATION

- 3.1 Install in accordance with manufacturer's instruction and recommendations.
- 3.2 Install windows plumb and level, true and square. Support properly and securely anchor.
- 3.3 Separate aluminum from dissimilar metals and coat dissimilar metals that are in drainage cavities, using one of the materials specified. Stainless steel, zinc, cadmium, and small areas of white bronze are not considered dissimilar metals.
- 3.4 Install joint sealers between sill members and the surface below, as indicated.
- 3.5 Install glazing as specified in Section 08 80 00.
- 3.6 Clean glass and frames. Vacuum sill and frames. Remove excess sealant and debris prior to turning over to owner.

END OF SECTION

SECTION 08 71 00
DOOR HARDWARE
ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Door hardware for doors specified in "Hardware Sets" and required by actual conditions. Include screws, bolts, expansion shields, electrified door hardware, and other devices for proper application of hardware.
- B. Products supplied but not installed under this Section:
 - 1. Hardware for aluminum doors will be furnished under this Section, but installed under Division 08 Openings.
 - 2. Electrified hardware will be furnished under this Section, but installed by the security contractor.
 - 3. Final replacement of cylinder cores shall be installed by Owner.
 - 4. Hold open wall magnets.

1.2 RELATED DIVISIONS

- A. Division 08 - Openings.
- B. Division 13 - Special Construction.
- C. Division 26 - Electrical.
- D. Division 28 - Fire Detection and Alarm.

1.3 SUBMITTALS

- A. Submit in accordance with Conditions of the Contract and provisions of Section 01 30 00 - Administrative Requirements.
- B. Shop Drawings: Hardware schedule shall be organized in vertical format illustrated in DHI Publications Sequence and Formatting for the Hardware Schedule. Include abbreviations and symbols page according to DHI Publications Abbreviations and Symbols. Complete nomenclature of items required for each door opening as indicated
 - 1. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of hardware.
 - 2. Architectural Hardware Consultant (AHC), as certified by DHI, who shall affix seal attesting to completeness and correctness, shall review hardware schedule prior to submittal.
- C. Submit manufacturer's catalog sheet on design, grade and function of items listed in hardware schedule. Identify specific hardware item per

sheet, provide index, and cover sheet.

- D. Coordination: Distribute door hardware templates to related divisions within fourteen days of receiving approved door hardware submittals.
- E. Electrified Hardware: Provide electrical information to include voltage, and amperage requirements for electrified door hardware and description of operation.
 - 1. Description of operation for each electrified opening to include description of component functions including location, sequence of operation and interface with other building control systems.
 - 2. Wiring Diagrams: Detail wiring for power, signal, and control system and differentiate between manufacturers installed and field installed wiring. Include the following:
 - a. System schematic.
 - b. Point to point wiring diagram.
 - c. Riser diagram.
 - d. Elevation of each door.
 - 3. Detail interface between electrified door hardware and fire alarm, access control, security, and building control systems.
- F. Upon door hardware submittal approval, provide for each electrified opening, three copies of point to point diagrams.
- G. Maintenance Tool and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, removal and replacement of door hardware.
- H. Closeout Submittals: Submit to Owner in a three ring binder or CD if requested.
 - 1. Warranties.
 - 2. Maintenance and operating manual including list of maintenance tools.
 - 3. Maintenance service agreement.
 - 4. Record documents.
 - 5. Copy of approved hardware schedule.
 - 6. Copy of approved keying schedule with bitting list.
 - 7. Door hardware supplier name, phone number and fax number.

1.4 QUALITY ASSURANCE

- A. Electrified door hardware shall be Listed and Labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authority having jurisdiction.
- B. Hardware supplier shall employ an Architectural Hardware Consultant (AHC) as certified by DHI and a member of the seal program who shall be available at reasonable times during course of work for Project hardware consultation.

- C. Door hardware shall conform to ICC/ANSI A117.1. Handles, Pulls, Latches, Locks and operating devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
- D. Fire Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL 10C, unless otherwise indicated.
- E. Pre-installation Meeting: Comply with requirements in Division 1 Section "Project Meetings".
 - 1. Convene meeting seven days before installation. Participants required to attend:
- F. Within fourteen days of receipt of approved door hardware submittals contact Owner with representative from hardware supplier to establish a keying conference. Verify keyway, visual key identification, number of master keys and keys per lock. Provide keying system per Owners instructions.
- G. Installer Qualifications: Specialized in performing installation of this Section and shall have five years minimum documented experience.
- H. Hardware listed in Par.: Hardware Schedule is intended to establish a type and grade.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Provide a clean, dry and secure room for hardware delivered to Project but not yet installed.
- B. Furnish hardware with each unit marked and numbered in accordance with approved finish hardware schedule. Include door and item number for each type of hardware.
- C. Pack each item complete with necessary parts and fasteners in manufacturer's original packaging.
- D. Deliver permanent key, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to Owner shall be established at "Keying Conference."

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside

manufacturer's recommended limits.

1.7 WARRANTY

- A. General Warranty: Owner may have under provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by Contractor under requirements of the Contract documents.
- B. Special Warranty: Warranties specified in this article shall not deprive Owner of other rights. Contractor, hardware supplier, and hardware installer shall be responsible for servicing hardware and keying related problems.
 - 1. Ten years for manual door closers.
 - 2. Five years for mortise, auxiliary and bored locks.
 - 3. Five years for exit devices.
 - 4. Two years for electromechanical door hardware.
- C. Products judged defective during warranty period shall be replaced or repaired in accordance with manufacturer's warranty at no cost to Owner. There is no warranty against defects due to improper installation, abuse and failure to exercise normal maintenance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Hager Companies, which is located at: 139 Victor St.; St. Louis, MO 63104; Toll Free Tel: 800-325-9995; Tel: 314-772-4400; Fax: 800-782-0149; Email: [request info \(bwilkins@hagerco.com\)](mailto:requestinfo@hagerco.com); Web: www.hagerco.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 HINGES

- A. Hinges, including electric hinges and self-closing hinges when scheduled, shall be of one manufacturer as listed for continuity of design and consideration of warranty and shall be certified and listed by the following:
 - 1. Butts and Hinges: ANSI/BHMA A156.1
 - 2. Template Hinge Dimensions: ANSI/BHMA A156.7
 - 3. Self-Closing Hinges: ANSI/BHMA 156.17
- B. Butt Hinges:
 - 1. Hinge weight and size unless otherwise indicated in hardware sets:

2.3 ELECTRIC STRIKES

A. Provide for use with type of locks shown on hardware schedule.

2.4 LOCKS AND LATCHES (GRADE 1 MORTISE)

A. Locks and latches shall be of one manufacturer as listed for continuity of design and consideration of warranty. Product to be certified and listed by following:

1. ANSI/BHMA A156.13 Series 1000 Certified to Grade 1 for Operational and Security.
2. UL/cUL Labeled and listed up to 3 hours for single doors up to 48 inches (1219 mm) in width and up to 96 inches (2438 mm) in height.
3. UL10C/UBC 7-2 Positive Pressure Rated.
4. ICC/ANSI A117.1.

B. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets. Material and Design:

1. Lock cases from fully wrapped, 12 gauge steel, Zinc dichromate for corrosion resistance.
2. Non-handed, field reversible without opening lock case.
3. Break away spindles to prevent unlocking during forced entry or vandalism.
4. Escutcheons are to be of solid Brass or Stainless Steel material.
5. Armor fronts are to be self-adjusting to accommodate a square edge door or a standard 1/8 inch (3 mm) beveled edge door.

C. Latch and Strike:

1. Stainless Steel latch bolt with minimum of 3/4 inch (19 mm) throw and deadlocking for keyed and exterior functions.
2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4 inches (32 mm) by 4-7/8 inches (124 mm) with proper lip length to protect surrounding trim.
3. Deadbolts to be 1-3/4 inches (44.5 mm) total length with a minimum of a 1 inch (25 mm) throw and 3/4 inch (19 mm) internal engagement when fully extended and made of Stainless Steel material.

D. Electric Locks:

1. Fail Safe (power lock) outside trim is locked when power is applied and unlocked when power is removed. Lockset will unlock in the event of a power failure. (EL).
2. Latchbolt monitoring: Single switch SPDT mounted inside lockset monitors full extension of latchbolt. (LM).
3. Door Position Monitor: Single switch SPDT Reed magnetic switch mounted inside lockset monitors whether door is fully closed. (DPM).
4. Request to Exit: Monitors inside lever rotation. (RX).

2.5 PUSH/PULL LATCH

- A. Latches shall be of one manufacturer as listed for continuity of design and consideration of warranty. Product shall meet the following:
 - 1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities (2009).
 - 2. UL listed.
- B. Material and Design:
 - 1. Latch: Stainless Steel.
 - 2. Push/Pull levers 1-15/16 inches (49 mm) by 4-1/2 inches (114 mm), escutcheon 3-1/16 inches (78 mm) by 5 inches (127 mm), and projection 2-5/8 inches (67 mm)
 - 3. Latch Bolt Throw 1/2 inch (13 mm) with 2-3/4 inches (70 mm) backset or 5 inches (127 mm) backset (optional).
 - 4. Mounts five positions: Levers down, levers up, one lever up one lever down (push), one lever up one lever down (pull), and levers point away from latch.
 - 5. Engraving: "PUSH", "PULL" (optional).
- C. Acceptable Manufacturer:
 - 1. Hager Companies: 311H or 311L for lead lined.

2.6 EXIT DEVICES (GRADE 1)

- A. Shall be touch pad type, finish to match balance of door hardware. Exit Devices shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be certified and or listed by the following:
 - 1. BHMA Certified ANSI A156.3 Grade 1.
 - 2. UL/cUL Listed for up to 3 hours for "A" labeled doors.
 - 3. UL10C/UBC 7-2 Positive Pressure Rated.
 - 4. UL10B Neutral Pressure Rated.
 - 5. UL 305 Listed for Panic Hardware.
 - 6. 2007 Florida Building Code Certification Number: FL9481.1.
 - 7. ANSI/BHMA A250.13 Severe Windstorm Resistant Component.
- B. Material and Design:
 - 1. Touch pad shall extend a minimum of one half-door width. Freewheeling lever design shall match design of locks levers. Exit device to mount flush with door.
 - 2. Latchbolts: Rim device - 3/4 inch (19 mm) throw, Pullman type with automatic dead-latching, stainless steel. Surface vertical rod device - Top 1/2 inch (13 mm) throw, Pullman type with automatic dead-latching, stainless steel. Bottom 1/2 inch (13 mm) throw, Pullman type, held retracted during door swing, stainless steel.
 - 3. Fasteners: Wood screws, machine screws and thru-bolts.

- C. Lock and Latch Functions: Function numbers and descriptions of manufacturer's series and lever styles indicated in door hardware sets.
- D. Electric Modifications:
 - 1. Electric Latch Retraction: Continuous duty solenoids retract the latch bolt for momentary or maintained periods of time.
 - 2. Provide Request to Exit (REX) switches as scheduled.
 - 3. Electrified Trim: Outside trim locked (EL) or unlocked (EU) by electric current.
 - 4. Delayed Egress with Wall Mounted Controller (4501 DE).

2.7 CYLINDERS AND KEYING

- A. Cylinders shall be of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Manufacturer shall meet the following:
 - 1. Auxiliary Locks: ANSI/BHMA A156.5
 - 2. DHI Handbook "Keying systems and nomenclature" (1989)
- C. Cylinders:
 - 1. Manufacturer's standard tumbler type, seven-pin IC core and seven-pin conventional core supported by the Hager H1 keyway.
 - 2. Shall be furnished with cams/tailpieces as required for locking device that is being furnished for project.
- D. Keying:
 - 1. Copy of Owners approved keying schedule shall be submitted to Owner and Architect with documentation of which keying conference was held and shall include the Owners sign-off.
 - 2. Provide a bitting list to Owner of combinations as established, and expand to twenty five percent for future use or as directed by Owner.
 - 3. Key into Owner's existing keying system if applicable:
(Consultation with owner is required)
 - 4. Keys to be shipped to Owner's representative, individually tag per keying conference.
 - 5. Provide visual key control identification on keys.
 - 6. Provide interchangeable cores with construction cores as per hardware schedule.
 - 7. Single seven-pin key shall operate both conventional cores and SFIC small format interchangeable cores.

2.8 PUSH/PULL PLATES AND BARS

- A. Push and pull plates shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer to be certified by the following:

1. Architectural Door Trim: ANSI/BHMA A156.6.
2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).

2.9 CLOSERS (ALUMINUM BODY GRADE 1)

- A. Shall be product of one manufacturer. Unless otherwise indicated on hardware schedule, comply with manufacturer's recommendations for size of closer, depending on width of door, frequency of use, atmospheric pressure, ADAAG requirements, and fire rating. Manufacturer to be certified by the following:
 1. BHMA Certified ANSI A156.4 Grade 1.
 2. ADA Complaint ANSI A117.1.
 3. UL/cUL Listed up to 3 hours.
 4. UL10C Positive Pressure Rated.
 5. UL10B Neutral Pressure Rated.
- B. Material and Design:
 1. Provide aluminum non-handed bodies with full plastic covers.
 2. Closer shall have separate staked adjustable valve screws for latch speed, sweep speed, and backcheck.
 3. Provide Tri-Pack arms and brackets for regular arm, top jamb, and parallel arm mounting.
 4. Double heat-treated steel, tempered springs.
 5. Precision machined, heat-treated steel piston.
 6. Triple heat-treated steel spindle.
 7. Full rack and pinion operation.
- C. Mounting:
 1. Out swing doors shall have surface parallel arm mount closers except where noted on hardware schedule.
 2. In swing doors shall have surface regular arm mount closers except where noted on hardware schedule.
 3. Provide brackets and shoe supports for aluminum doors and frames to mount fifth screw.
 4. Furnish drop plates where top rail conditions on door do not allow for mounting of closer and where backside of closer is exposed through glass.
- D. Size closers in compliance with requirements for accessibility (ADAAG). Comply with following maximum opening force requirements. Interior hinged openings: 5.0 lb (2.25 Kg) Fire rated and exterior openings shall have minimum opening force allowable by authority having jurisdiction.
- E. Fasteners: Provide self-drilling and tapping wood screws, machine screws and sex nuts and bolts for each closer.

2.10 LOW ENERGY POWER OPERATORS

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Manufacturer shall meet the requirements for:
 - 1. Power Assist and Low Energy Power Operated Doors: ANSI/BHMA A156.19
 - 2. ADA Complaint ANSI A117.1
- C. Materials and Design:
 - 1. Self-contained electrical control unit, including necessary transformers, relays, rectifiers, and other electronic component for proper operation and switching. Control of door up to 350 pounds shall also include time delay for normal cycle.
 - 2. On pair of doors, either door to be opened manually without the other door opening.
 - 3. Operates as a mechanical closer if power is disconnected. Forces consistent with ANSI A117.1 and ANSI A156.19.
 - 4. Provide delay switches for motor activation, exit device latch retraction interfacing and hold open times. Hold open times to be adjustable from 1 second to continuous seconds.
 - 5. Adjustable vestibule sequencing input for operation of two or more units. Specify 2-659-0240.
 - 6. Adjustable powered swing degree from 80 degrees to 110 degrees.
 - 7. Integral obstruction detection for closing and opening cycle.
 - 8. Adjustable built in stop, set from 80 degrees maximum to 180 degrees manual swing.
 - 9. When in "blow open "operation for smoke ventilation, operator will stay in the open position when loss of power.
 - 10. Boost to close selectable on/off switch.
- D. Signage: Provide signage in according to the requirements of ANSI/BHMA A156.19.
- E. Acceptable Manufacturer:
 - 1. Hager Companies: 8400 Series.
- F. Actuators:
 - 1. Opening cycle shall be activated by pressing switches with international symbol of accessibility and "PUSH TO OPEN" engraved on faceplate.
 - 2. Switches shall be installed in standard 2-gang electrical wall box and placed in a location in compliance with ANSI A117.1.
 - 3. Wireless actuators optional.

2.11 STOPS AND HOLDERS

- A. Wall Stops: Provide door stops wherever necessary to prevent door or hardware from striking an adjacent partition or obstruction. Provide wall stops when possible. Door stops and holders mounted in concrete floor or masonry walls shall have stainless steel machine screws and lead expansion shields. Manufacturer shall meet requirements for Auxiliary Hardware: ANSI/BHMA A156.16.
 - 1. Hager Companies: 380 Series.

2.12 PROXIMITY/ PIN READER

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Provide access up to 650 card users and shall be a HID compatible proximity reader. Material and Design:
 - 1. Weather resistance two-piece enclosure stand alone access control reader.
 - 2. Access mode selectable, proximity card only, proximity card plus pin number, or key in card number only.
 - 3. Key pad programmable does not need software or computer.
 - 4. Key pad lockout and flashing red LED activated when wrong password is entered more than five times.
 - 5. Lock and alarm outputs relays programmable 1-99 seconds or on-off latching.
- B. Options:
 - 1. HID ProxCards II, 25ea. cards 2-679-0021.
 - 2. HID ProxCards II, 100ea cards 2-679-0022.
 - 3. HID ProxKey II, 10ea key fobs 2-679-0023.
 - 4. HID ProxKey II, 100ea. key fobs 2-679-0024.

2.13 KEYPADS

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Standalone digital keypad, control access of single entry point with up to 500 users. Material and Design:
 - 1. 1-6 digit PIN codes with 4 outputs, 2 relays and solid status outputs timed or latching (on/off).
 - 2. LED status: access, lockout.
 - 3. Tactile audible key press with selectable volume.
 - 4. Timed anti-pass back with keypad tamper lockout.
 - 5. Choice of door sense/relay inhibit input functions; Forced Entry/Door prop alarm; Door ajar; Inhibit relay 1 or 2; Auto re-locks when door closes;
 - 6. Choice of 2 solid status output functions: Alarm shunt; Forced entry; Door ajar; Tamper lockout; Keypad active.

2.14 DOOR GASKETING AND WEATHERSTRIP

- A. Provide continuous weatherstrip gasketing on exterior doors and

provide smoke, light, or sound gasketing where indicated on hardware schedule. Provide non-corrosive fasteners for exterior applications.

1. Perimeter gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting stile gasketing: Fasten to meeting stiles, forming seal when doors are in closed position.
3. Door bottoms: Apply to bottom of door, forming seal with threshold or floor when door is in closed position.
4. Sound Gasketing: Cutting or notching for stop mounted hardware not permitted.
5. Drip Guard: Apply to exterior face of frame header. Lip length to extend 4 inches (102 mm) beyond width of door.

2.15 THRESHOLDS

- A. Set thresholds for exterior and acoustical openings in full bed of sealant with lead expansion shields and stainless steel machine screws complying with requirements specified in Division 7 Section "Joint Sealants". Notched in field to fit frame by hardware installer. Refer to Drawings for special details. Manufacturer to be certified by the following:
 1. Thresholds: ANSI/BHMA A156.21.
 2. Americans with Disabilities Act Accessibility Guidelines (ADAAG).

2.16 SILENCERS

- A. Where smoke, light, or weather seal are not required, provide three silencers per single door frame, two per double door frame and four per Dutch door frame. Manufacturer shall meet requirements for: Auxiliary Hardware: ANSI/BHMA A156.16.

2.17 KEY CABINET

- A. Provide key cabinet, surface mounted to wall. Key control system: Include two sets of key tags, hooks, labels, and envelopes. Contain system in metal cabinet with baked enamel finish. Capacity shall be able to hold actual quantities of keys, plus 25 percent. Provide tools, instruction sheets and accessories required to complete installation.
- B. Acceptable Manufacturer:
 1. Lund Equipment.
 2. Telkey Incorporated.
 3. Key Control.

2.18 SIGNAGE

- A. Shall be of one manufacturer as listed for continuity of design and consideration of warranty. Manufacturer shall meet requirements for:

Signage: ANSI/BHMA A156.16. Grade 2 Braille Translation conforming to section 4.3 requirements.

- B. Materials and Design: Provide 0.125 inch (3 mm) thick plastic. Size of sign to be 6 inches by 8 inches (152 mm by 203 mm) fastened with double-sided pressure sensitive tape.

2.19 FINISHES

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if within range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples.
- B. Comply with base material and finish requirements indicated by ANSI/BHMA A156.18 designations in hardware schedule.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install hardware per manufacturer's instructions and in compliance with the following as applicable:
 - 1. NFPA 80; NFPA 105; ICC/ANSI A117.1; ANSI/BHMA A156.115 Hardware Preparation in Steel Doors and Steel Frames; ANSI/BHMA A156.115W Hardware Preparation in Wood Doors with Wood or Steel Frames; DHI Publication - Installation Guide for Doors and Hardware; UL10C/UBC7-2; Local building code.
 - 2. Approved shop drawings.
 - 3. Approved finish hardware schedule.
- B. Do not install surface mounted items until finishes have been completed on substrates involved. Set unit level, plumb and true to line location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

3.3 FIELD QUALITY CONTROL

- A. Material supplier to schedule final walk through to inspect hardware installation ten business days before final acceptance of Owner. Material supplier shall provide a written report detailing discrepancies of each opening to General Contractor within seven calendar days of walk through..

3.4 ADJUSTMENT, CLEANING AND DEMONSTRATING

- A. Adjustment: Adjust and check each opening to ensure proper operation of each item of finish hardware. Replace items that cannot be adjusted to operate freely and smoothly or as intended for application at no cost to Owner.
- B. Cleaning: Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no cost to Owner.
- C. Demonstration: Conduct a training class for building maintenance personnel demonstrating the adjustment, operation of mechanical and electrical hardware. Special tools for finished hardware to be turned over and explained usage at this meeting.

3.5 PROTECTION

- A. Leave manufacturer's protective film intact and provide proper protection for all other finish hardware items that do not have protective material from the manufacture until Owner accepts Project as complete.

3.6 HARDWARE SETS

Hardware Group No. 01 - EXTERIOR STOREFRONT

For use on mark/door #(s):

B-01A

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
1	EA	MORTISE CYLINDER	20-062 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC STRIKE	6210-FS-24-US32D-CON	US32D	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-99-L-E996-06-FSE-CON-SNB	626	VON
1	EA	SURFACE CLOSER	4050 EDA TBSRT	689	LCN

ALL HARDWARE BY SYSTEM MFR.

VERIFY CYLINDER REQUIREMENTS WITH STOREFRONT SUPPLIER

CARD READER, POSITION SWITCH, MOTION SENSOR AND BALANCE OF SECURITY
HARDWARE BY DIV 28

Hardware Group No. 01A - INTERIOR STOREFRONT

For use on mark/door #(s):

B-33 B-37

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
1	EA	MORTISE CYLINDER	20-062 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
2	EA	STRAIGHT PULL	STRAIGHT LADDER PULL	SS-BR	CRL

ALL HARDWARE BY SYSTEM MFR.: CR LAURENCE CO, INC. (OR SIMILAR)

VERIFY CYLINDER REQUIREMENTS WITH STOREFRONT SUPPLIER

Hardware Group No. 02 - EXTERIOR HM - PAIR - EXIT

For use on mark/door #(s):

C-03A

Provide each PR door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
8	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-9927-EO-299F-SNB	626	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-9927-L-E996-17-FSE-CON-SNB	626	VON
1	EA	RIM CYLINDER	20-057 ICX	606	SCH
1	EA	FSIC CORE	23-030	626	SCH
2	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
2	EA	RAIN DRIP	11A	A	ZER
4	EA	GASKETING	139A-S	A	ZER
1	EA	RAIN DRIP	142AA	AA	ZER
2	EA	MEETING STILE	328AA-S	AA	ZER
2	EA	GASKETING	8150SBK PSA	BK	ZER
1	EA	THRESHOLD	566A-223	A	ZER

CARD READER, POSITION SWITCH, MOTION SENSOR AND BALANCE OF SECURITY
HARDWARE BY DIV 28

Hardware Group No. 03 - EXTERIOR HM - SGL - EXIT

For use on mark/door #(s):

C-01 C-03B

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-99-L-E996-06-FSE-CON-SNB	626	VON
1	EA	RIM CYLINDER	20-057 ICX	606	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA TBSRT	689	LCN
1	EA	GASKETING	139A-S	A	ZER
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	THRESHOLD	566A-223	A	ZER

CARD READER, POSITION SWITCH, MOTION SENSOR AND BALANCE OF SECURITY
HARDWARE BY DIV 28

Hardware Group No. 04 - INTERIOR PAIR - IT

For use on mark/door #(s):

B-50

Provide each PR door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
8	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	SET	AUTO FLUSH BOLT	FB41P	630	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	CLASSROOM LOCK	ND70PD SPA	626	SCH
2	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

ASTRAGAL BY DOOR MFR.

Hardware Group No. 05 - INTERIOR - SGL - CARD READER - STC - SECURE WORK/TRAINING

For use on mark/door #(s):

B-42A B-42B B-42C B-44B

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	652	IVE
1	EA	STOREROOM LOCK	ND80PDEU SPA RX	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	119WB PSA	B	ZER
1	EA	GASKETING	770AA-S	AA	ZER
1	EA	DOOR BOTTOM	367AA	AA	ZER
1	EA	THRESHOLD	564A-223	A	ZER
1	EA	MOUNTING BRACKET	770SPB		ZER

VERIFY SEAL AND HINGE REQUIREMENTS WITH STC DOOR MFR.

CARD READER, POSITION SWITCH, AND BALANCE OF SECURITY HARDWARE BY DIV 28

Hardware Group No. 05A - INTERIOR - SGL - CARD READER - STC - SECURE WORK

For use on mark/door #(s):

B-44A

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	ELECTRIC HINGE	5BB1HW 4.5 X 4.5 TW8	652	IVE
1	EA	STOREROOM LOCK	ND80PDEU SPA RX	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	119WB PSA	B	ZER
1	EA	GASKETING	770AA-S	AA	ZER
1	EA	DOOR BOTTOM	367AA	AA	ZER
1	EA	THRESHOLD	564A-223	A	ZER
1	EA	MOUNTING BRACKET	770SPB		ZER

VERIFY SEAL AND HINGE REQUIREMENTS WITH STC DOOR MFR.

CARD READER, POSITION SWITCH, AND BALANCE OF SECURITY HARDWARE BY DIV 28

Hardware Group No. 06 - INTERIOR - SGL - CARD READER - CORRIDOR

For use on mark/door #(s):

B-01B

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	652	IVE
1	EA	STOREROOM LOCK	ND80PDEU SPA RX	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

CARD READER, POSITION SWITCH, AND BALANCE OF SECURITY HARDWARE BY DIV 28

Hardware Group No. 06A - INTERIOR - SGL - CARD READER - FILE/ SERVER RM.

For use on mark/door #(s):

B-45

B-46

B-54

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	ELECTRIC HINGE	5BB1HW 4.5 X 4.5 TW8	652	IVE
1	EA	STOREROOM LOCK	ND80PDEU SPA RX	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

CARD READER, POSITION SWITCH, AND BALANCE OF SECURITY HARDWARE BY DIV 28

Hardware Group No. 07 - INTERIOR - SGL - STC - MECH. RM.

For use on mark/door #(s):

B-06A B-41

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	GASKETING	119WB PSA	B	ZER
1	EA	GASKETING	770AA-S	AA	ZER
1	EA	DOOR BOTTOM	367AA	AA	ZER
1	EA	THRESHOLD	564A-223	A	ZER
1	EA	WALL STOP	WS406/407CVX	630	IVE

Hardware Group No. 07A - INTERIOR - SGL STORAGE/ELEC/ RM.

For use on mark/door #(s):

B-20 B-32 B-35

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 07B - INTERIOR - SGL - STORAGE/ELEC/ RM.

For use on mark/door #(s):

B-13 B43

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80PD SPA	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 08 - INTERIOR - SGL - STC - MEETING ROOMS

For use on mark/door #(s):

B-01AA B-38 B-49

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	119WB PSA	B	ZER
1	EA	GASKETING	770AA-S	AA	ZER
1	EA	DOOR BOTTOM	367AA	AA	ZER
1	EA	THRESHOLD	564A-223	A	ZER
1	EA	MOUNTING BRACKET	770SPB		ZER

VERIFY SEAL AND HINGE REQUIREMENTS WITH STC DOOR MFR.

Hardware Group No. 09 - INTERIOR - SGL - RESTROOM

For use on mark/door #(s):

B-01BA B-18 B-19

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S SPA	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 10 - INTERIOR - SGL - RESTROOM

For use on mark/door #(s):

B-34A B-34B B-36A B-36B

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	626	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 11 - INTERIOR - SGL - OFFICE

For use on mark/door #(s):

B-02	B-03	B-04	B-05	B-07	B-08
B-09	B-10	B-11	B-12	B-14	B-15
B-16	B-17	B-21	B-22	B-23	B-24
B-25	B-26	B-27	B-28	B-29	B-30
B-31	B-39	B-40	B-47	B-48	B-51
B-52	B-53				

Provide each SGL door(s) with the following:

Qty		Description	Catalog Number	Finish	Mfr
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53PD SPA	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	COAT AND HAT HOOK	574	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

3.7 PROTECTION

- A. Guide: Door hardware items have been placed in sets which are intended to be a guide of design, grade, quality, function, operation, performance, exposure, and like characteristics of door hardware, and may not be complete. Provide door hardware required to make each set complete and operational.
- B. Hardware schedule does not reflect handing, backset, method of fastening and like characteristics of door hardware and door operation.
- C. Review door hardware sets with door types, frames, sizes and details on drawings. Verify suitability and adaptability of items specified in relation to details and surrounding conditions.

END OF SECTION

SECTION 10 14 00
INTERIOR SIGNAGE

ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Signage of the following types:
 - ~~1. Custom Laser-cut and Etched plaques.~~
 - 2. Panel plaques for ADA/wayfinding.

1.2 RELATED SECTIONS

- A. Section 01 20 00 Price and Payment
- B. Section 09 21 16 - Gypsum Board Assemblies.

1.3 REFERENCES

- A. Underwriter's laboratory (UL) 746c - Standard for Safety of Polymeric Materials -- Use in Electrical Equipment Evaluations.
- B. Underwriter's laboratory (UL) 94 and 94v-0 - Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances.
- C. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's illustrated product literature and specifications to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit detailed drawings of products and assemblies.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer to have a minimum of 20 year experience in manufacturing letters.
- B. Installer Qualifications: Minimum 2 year experience installing similar products.
- C. Sourcing: All signage shall be manufactured by one manufacturer.

1.6 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handle materials to avoid damage.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty against defects in materials and workmanship. Letters shall be guaranteed for the life of the business against defects.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Gemini Inc., which is located at: 103 Mensing Way; Cannon Falls, MN 55009; Toll Free Tel: 800-538-8377; Tel: 507-263-3957; Fax: 800-421-1256; Email: [request info \(kenan.hanhan@geminishignproducts.com\)](mailto:kenan.hanhan@geminishignproducts.com); Web: www.geminishignproducts.com | www.geminiplaques.com
- B. Requests for substitutions will be considered in accordance with

provisions of Section 01 60 00 - Product Requirements.

~~2.2 Flat Cut - Logo and Text (Lobby)~~

~~Logo and Text CAD file to be provided by owner~~

~~A. Signage shall be manufactured by Gemini Inc.~~

- ~~1. Material: 5052 Anodized Aluminum - 1/8" (Flat Cut)~~
- ~~2. Finish: Powder Coated (Black 2025)~~

~~B. Design:~~

- ~~1. Text shall be Standard letter style (per manufacturer) with letters that are 1/8" deep x 3 5/8" inches high, as indicated on drawings.~~
- ~~2. Edges: Square Edge.~~
- ~~3. Text and Logo shall be clear coated and oven-baked with a two-part hardened seal of clear acrylic polyurethane.~~

~~C. Mounting:~~

- ~~1. Hardware: Blind Stud standard mounting. To be mounted on WC-1 (sealed steel panel pre-mounted on MDF. Core drill hole and mount directly to panel.)~~
 - ~~a. Letters to stand off from wall to achieve desired halo effect.~~
 - ~~b. Studs provided threaded into custom mounting bracket~~
 - ~~c. Spacer Sleeves: Provided per stand-off requirements. (1" standoff)~~
- ~~2. Mounting shall be templated designating stud locations required for mounting on substrate surface as indicated.~~
- ~~3. Brackets shall be soldered on the inside of the letters to receive threaded studs.~~
- ~~4. Standard fabricated letters shall use 3/16 inch (4.8 mm) aluminum studs.~~

2.3 PANEL PLAQUES FOR WAYFINDING / ADA

A. Design: Wayfinding / ADA

1. ADA compliant with raised copy, emblems and Braille shall be integral to the body of the wayfinding plaque (one-piece construction).
2. Letter shall be Arial letter style or as directed by owner.
3. **TYPE A: STANDARD ADA RESTROOM SIGNAGE:** Similar to Gemini ADA Wayfinding Aluminum Plaque - **Style B, F, and H depending on location.**
4. **TYPE B:** Similar to Gemini Standard Aluminum Basic Signage: Powder coated Black with standard white copy - copy to be room number only; Text: Standard per manufacturer
5. **TYPE C:** Similar to Gemini Standard Aluminum Basic Signage:

Powder Coated Black with standard white copy - copy to be as determined by owner/architect, Text: Standard per manufacturer

- B. Fabrication:
1. Material Thickness: 1/8 inch (3 mm).
 2. Edges: Single Line.
 3. Background Colors:
 - a. Color: Standard Powder Coated Black.
- C. Mounting:
1. Hardware and instructions are provided for selected mounting methods.
 2. Mounting Method: Double-Face Tape.

2.4 WAYFINDING / ADA SIGNAGE SCHEDULE

A. SIGNAGE SCHEDULE

**Standard rooms shall not receive signage. Use schedule below for pricing:*

ROOM NO.	ROOM NAME	SIGN TYPE
B-01BA	RESTROOM	A
B-06A	MECHANICAL	B
B-06B	MECHANICAL	B
B-13	ELECTRICAL/TEL	B
B-18	MEN'S RESTROOM	A
B-19	WOMEN'S RESTROOM	A
B-20	JANITOR	B
B-32	ELECTRICAL	B
B-34A	MEN'S RESTROOM	A
B-36A	WOMEN'S RESTROOM	A
B-35	JANITOR	B
B-41	MECHANICAL	B
B-42A	TRAINING ROOM	C
B-42B	TRAINING ROOM	C

B-42C	TRAINING ROOM	C
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PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and in proper relationship to adjacent construction.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 10 21 00
SOLID PLASTIC TOILET COMPARTMENTS
ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. **Solid polymer partitions.**

1.2 RELATED SECTIONS

- A. Section 05 40 00 - Metal Fabrications.
B. Section 10 28 00 - Toilet, Bath, and Laundry Accessories.

1.3 REFERENCES

- A. ASTM International:
1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
2. ASTM D 1735 - Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus
3. ASTM D 2247 - Standard Practice for Testing Water Resistance of Coatings in 100 percent Relative Humidity
B. United States Green Building Council (USGBC): LEED Green Building Rating System.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Literature indicating typical panel, pilaster, door, hardware and fastening.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.
C. Shop Drawings:
1. Dimensioned plans indicating layout of toilet compartments.
2. Dimensioned elevations indicating heights of doors, pilasters, separation partitions, and other components; indicate locations and sizes of openings in compartment separation partitions for toilet and bath accessories to be installed in partitions; indicate floor and ceiling clearances.
3. Details indicating anchoring components (bolt layouts) and methods for project conditions; indicate components required for installation, but not supplied by toilet compartment manufacturer.
D. Selection Samples: For each finish product specified, one complete set of color selection

guides representing manufacturer's full range of available colors, textures and patterns.

- E. Verification Samples: For each finish product specified, two samples representing actual product, color, texture and pattern.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
- B. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.
- C. Lay cartons flat, with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.
- D. Do not store where ambient temperature exceeds 120 degrees F (49 degrees C).

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Do not deliver materials or begin installation until building is enclosed, with complete protection from outside weather, and building temperature maintained at a minimum of 60 degrees F (15.6 degrees C).

1.7 WARRANTY

- A. Manufacturers Standard Warranty: Provide warranty for Solid polymer HDPE Material: Against breakage, corrosion, and delamination for 25 years.

1.8 COORDINATION

- A. Coordinate Work with placement of support framing and anchors in walls and ceilings.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ASI Global Partitions, which is located at: 900 Clary Connector; Eastanollee, GA 30538; Tel: 706-827-2700; Fax: 706-827-2710; Email:[request info \(sales@asi-globalpartitions.com\)](mailto:request_info@asi-globalpartitions.com); Web:<http://asi-globalpartitions.com>
 - 1. Other Acceptable Manufacturer: ASI Accurate Partitions; Burr Ridge IL; Tel: 708-442-6800; Web: <http://www.asi-accuratepartitions.com>.
 - 2. No other manufacturer will be accepted without ASTM performance compliance.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 COMPARTMENTS AND SCREENS

- A. Toilet Compartments: Floor anchored/overhead braced solid polymer.

1. Compartment Depth and Width: As scheduled and indicated on Drawings.
 2. Door Width: 24 inches (610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum.
 3. Height Above Floor: 12 inches (356 mm).
 4. Door/Panel Height: 64 inches - ULTIMATE PRIVACY - 64.
 5. Pilaster Height: 82 inches (2083 mm).
 6. No-Sight System: REQUIRED
- B. Privacy and Urinal Screens: Wall hung.
1. Screen Panel Size: 24 inches (610 mm) wide by 48 inches (1219 mm) high.
- C. Shower Privacy Screens: Floor anchored/overhead braced solid polymer
1. Compartment Depth and Width: As scheduled and indicated on Drawings.
 2. Height Above Floor: 12 inches (356 mm).
 3. Pilaster Height: 82 inches (2083 mm).

2.3 SOLID POLYMER TOILET COMPARTMENTS

- A. Doors, Panels, Screens, and Pilasters: Single sheet solid, homogenous HDPE plastic material formed from waterproof, non-absorbent, high-density polyethylene resins; mark-resistant self-lubricating surface; edges finished smooth.
1. Material: Solid, homogenous HDPE; 1 inch (25 mm) thick.
 2. Rating: Class "B" Fire Rated per ASTM E 84.
 3. Material shall be compliant with IBC 2012 or later and must be solid HDPE; foamed material is not allowed. Material shall be NFPA 286 compliant.
 4. Edges: 1/4 inch (6 mm) radius machined edges.
 5. Heat Sink: Aluminum heat sink, to dissipate heat from incendiary devices used by vandals, attached to bottom of doors and panels.
- B. Finish: Pebble-textured homogenous color throughout material. Color as selected from manufacturer's standard colors.
- C. Door Hardware: 8 inch (203 mm) aluminum wrap-around hinge.
1. Hinges: Hinges shall be 8 inches (203 mm) and fabricated from heavy-duty extruded aluminum (6463-T5 alloy) with a brushed anodized finish with wrap-around flanges, surface mounted and through bolted to doors and pilasters. Hinges operate and are field set with adjustable nylon cams. Cams can be set in 30 degree increments.
 2. Latch: Anodized extruded aluminum, with housing, slide bolt and button.
 3. Strike and Keeper: 6 inch (152 mm) wrap-around flanges fabricated from heavy-duty extruded aluminum (6463-T5 alloy) with a brushed anodized finish.
 4. Coat Hook and Bumper: Non-ferrous, chrome-plated, with black rubber tip for doorstop.
 5. Fastening Hardware: Manufacturer's standard, Type 304 stainless steel, No. 4 satin finish, theft-resistant barrel nuts and machine screws.
 6. Door Pulls: Non-ferrous, chrome-plated. Standard on ADA compartments. Two per ADA door.
- D. Mounting Brackets: Provide optional aluminum continuous brackets with theft resistant barrel nuts and shoulder screws.
- E. Pilaster Shoes: Type 304 Stainless Steel No. 4 satin finish. Easy Stall shoe shall be of a one piece design and integral to the mounting system and formed from 304 stainless steel 3 inch (76 mm) high with a No. 4 satin finish. Pilaster shoes are anchored to the pilaster with No. 10 stainless steel, vandal-resistant screws.
- F. Headrail: Manufacture's standard anodized aluminum rail with anti-grip profile.
- G. Pilaster Anchors: Floor Anchored/Overhead Braced.

1. Easy Stall shoe system. 1/4 by 2 inch (6 by 51 mm) steel screws attach Easy Stall shoe to floor.
2. Pilaster to be inserted into shoe and secured after height adjusted. Leveling adjustment to be concealed by pilaster shoe.
3. Height/leveling adjustment to be made via machine thread bolts inserted into factory installed threaded insert in bottom of pilaster.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.
- B. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
 1. Verify dimensions of areas to receive compartments.
 2. Verify locations of built-in framing, anchorage, bracing, and plumbing fixtures.

3.2 INSTALLATION

- A. Install in accordance with approved shop drawings and manufacturer's instructions.
- B. Fasten components to adjacent materials and to other components using purpose-designed fastening devices.
- C. Adjust pilaster anchors for substrate variations; conceal anchors with pilaster shoes.
- D. Equip each compartment door with hinges and door latch.
- E. Install door strike keeper on pilasters in alignment with door latch.
- F. Equip each compartment door with one coat hook and bumper.
- G. Installation Tolerances:
 1. Maximum variations from plumb or level: 1/8 inch (3 mm).
 2. Clearance between wall surface and panels or pilasters: 1-1/2 inch (38 mm) maximum.

3.3 ADJUSTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors.
- B. Adjust adjacent components for consistency of line or plane.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.
- C. Remove factory protective coverings and clean finish surfaces in accordance with manufacturer's instructions before substantial completion.

End of Section

10 21 00-4

SECTION 10 28 13
WASHROOM ACCESSORIES
ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Washroom Accessories:
 - 1. Soap dispensers.
 - 2. Paper towel dispensers.
 - 3. Combination towel dispenser and waste receptacle units.
 - 4. Toilet tissue dispensers.
 - 5. Toilet seat cover dispensers.
 - 6. Mirrors.
 - 7. Shower curtains.
 - 8. Folding shower seats.
 - 9. Soap dishes.
 - 10. Grab bars.
 - 11. Towel bars.
 - 12. Hooks.
 - 13. Door bumpers.
 - 14. Combination clothes hooks and bumpers.
 - 15. Custodial/janitorial accessories.

1.2 RELATED SECTIONS

- A. Section 06 10 00 - Rough Carpentry.
- B. Section 10 21 00 - Compartments and Cubicles.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Submit manufacturer's data sheets for each product specified, including the following:
 - 1. Installation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Cleaning and maintenance instructions.
 - 4. Replacement parts information.
- C. Schedule: Submit an accessory schedule, indicating the type and quantity to be installed in each space. Use room numbers as indicated on the Drawings.

- D. Selection Samples: For each finished product specified, provide two complete sets of color chips representing the manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finished product specified, provide two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 2 year experience installing similar products.
- B. Manufacturer: Provide products manufactured by a company with a minimum of 10 years successful experience manufacturing similar products.
- C. Single Source Requirements: To the greatest extent possible provide products from a single manufacturer.
- D. Accessibility Requirements: Comply with requirements applicable in the jurisdiction of the project, including but not limited to FBC 2017 ADA and ICC/ANSI A117.1 requirements as applicable.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations. Protect from damage.
- B. Handling: Handle materials to avoid damage.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 WARRANTY

- A. Manufacturer's Warranty for Washroom Accessories: Manufacturer's

standard 1 year warranty for materials and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Bobrick Washroom Equipment, Inc., which is located at: 6901 Tujunga Ave.; North Hollywood, CA 91605-6213; Tel: 818-764-1000; Fax: 818-765-2700; Email: info@bobrick.com; Web: www.bobrick.com
- B. Basis of Design Products: Specifications are based on the products of Bobrick Washroom Equipment, Inc. www.bobrick.com. Location of manufacturing shall be the United States.
- C. Substitutions: The Architect will consider products of comparable manufacturers as a substitution, pending the Contractor's submission of adequate documentation of the substitution in accordance with procedures in Division 1 of the Project Manual.
 - 1. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 SOAP DISPENSERS

- A. Countertop mounted Soap Dispenser: SD-1
 - 1. Basis of Design: B-822; Bobrick Manual Soap Dispenser, Liquid
- B. Wall mounted Soap Dispenser: SD-2
 - 1. Basis of Design: B-4112; Bobrick Manual Soap Dispenser, Liquid

2.3 COMBINATION TOWEL DISPENSER AND WASTE RECEPTACLE UNITS

- A. Recessed Paper Towel Dispenser and Waste Receptacle: PTW-1
 - 1. Basis of Design: Bobrick Trim Line Series Model B-3803 furnished with Bobrick Part No. 3803-130 Towel Mate Accessory.
 - a. Bobrick Towel Mate Accessory: Dispenses one paper towel at a time without towels sagging or falling through the towel tray opening. Round nylon rod and stainless steel rod screws support stack of paper towels.
 - b. Waste Capacity: 6.3 gallons (24 L).

2.4 TOILET TISSUE DISPENSERS

- A. Surface-Mounted Multi-Roll Toilet Tissue Dispensers: TD-1
 - 1. Basis of Design: Bobrick Classic Series Model B-3588.
 - a. Finish: Satin finish, Stainless Steel.
 - b. Install at each toilet location. Mount as indicated on plans.

2.5 TOILET SEAT COVER DISPENSERS

- A. Surface-Mounted Toilet Seat Cover Dispensers: ND-1
 - 1. Basis of Design: Bobrick Contura Series Model B-4221.

2.6 MIRRORS

- A. Stainless Steel Channel Frame Mirrors:
 - 1. Overall Size: 24 inches W x 30 inches H: MIR-1
 - 2. Overall Size: 24 inches W x 30 inches H: MIR-2
 - a. Basis of Design: Bobrick Model B-165 2436.
- B. Frameless Glass Mirrors:
 - a. Overall Size: As indicated on Plans: MIR-3
 - b. Glass: ¼", Tempered

2.7 SHOWER CURTAINS AND CEILING TRACK

- A. Ceiling Mounted Track:
 - 1. Basis of Design: RECMAR 32124 Aluminum ceiling mounted track. Silver satin finish. Provide 7127 end stops (both ends) for each track.
- B. Shower Curtain Hooks:
 - 1. Basis of Design: Bobrick Part No. 204-1 Shower Curtain Hook.
- C. Vinyl Shower Curtains:
 - 1. Basis of Design: Bobrick Model 204-2.
 - a. Width: 42 inch (1065mm), requires 7 hooks (not included).

2.8 FOLDING SHOWER SEATS

- A. Reversible Folding Shower Seats: SH-1
 - 1. Basis of Design: Bobrick Model B-5181.
 - 2. Mount between 17-19" A.F.F. to finished seat.
 - 3. Provide treated wood blocking in wall framing as required.

2.9 SOAP DISHES (SHOWERS ONLY): S-1

- A. Surface-Mounted Soap Dishes:
 - 1. Basis of Design: Bobrick Model B-6807.
 - a. Finish: Satin finish.

2.10 GRAB BARS

- A. Stainless Steel Grab Bars: With snap flange covers.
 - 1. Satin Finish:
 - a. Basis of Design: Bobrick Model B-5806.99 x 36.
 - 1) Length: 36 inches
 - b. Basis of Design: Bobrick Model B-5806.99 x 42.
 - 1) Length: 42 inches

- c. **Basis of Design: Bobrick Model B-5806.99 x 18.**
 - 1) **Length: 18 inches**

~~2.11 TOWEL BAR~~

- ~~A. Surface Mounted Towel Bar:~~
 - ~~1. Basis of Design: Bobrick Model B-6737 x 24~~
 - ~~a. Finish: Satin.~~

2.12 HOOKS

- A. Robe Hooks/Coat Hooks: **RB-1**
 - 1. Basis of Design: Bobrick Model B-76717.
 - a. Finish: Satin.
 - b. Center on shower partition as indicated. Mount @ 48" AFF max on ADA shower stall. 56" typical for other locations.**

2.13 CUSTODIAL/JANITORIAL ACCESSORIES

- A. Utility Shelf With Mop and Broom Holders and Rag Hooks:
 - 1. Basis of Design: Bobrick Classic Series Model B-239 x 34; with 3 mop/broom holders and 4 rag hooks.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install products in strict compliance with manufacturer's written instructions and recommendations, including the following:
 - 1. Verify blocking has been installed properly.
 - 2. Verify location does not interfere with door swings or use of fixtures.
 - 3. Comply with manufacturer's recommendations for backing and proper support.
 - 4. Use fasteners and anchors suitable for substrate and project conditions.
 - 5. Install units rigid, straight, plumb, and level, in accordance with manufacturer's installation instructions and approved shop drawings.
 - 6. Conceal evidence of drilling, cutting, and fitting to room finish.
 - 7. Test for proper operation.

3.2 CLEANING AND PROTECTION

- A. Clean exposed surfaces of compartments, hardware, and fittings using methods acceptable to the manufacturer.
- B. Touch-up, repair or replace damaged products until Substantial

Completion.

END OF SECTION

SECTION 10 51 00
LOCKERS
ADDENDUM 001

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Solid plastic HDP lockers.

1.2 RELATED SECTIONS

- A. Section 03300 - Cast-in-Place Concrete.
- B. Section 05500 - Metal Fabrications.
- C. Section 06 10 00 - Rough Carpentry.

1.3 REFERENCES

- A. ADAAG - Americans with Disabilities Act, Accessibility Guidelines.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings:
 - 1. Dimensioned drawings including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates.
 - 2. Details of assembly, erection, anchorage and clearance requirements.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum of 10 years experience

manufacturing products specified in this section.

- B. Installer Qualifications: Single installer with a minimum of five years demonstrated experience in installing products of the same type and scope as specified in this section will install all products listed.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened, labeled packaging until ready for installation.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. Warranty: Provide locker manufacturer's limited 20-year warranty against delamination or breakage of any of the plastic components under normal use shall apply. Manufacturer's standard limited 1 year warranty against defects in material or workmanship also applies.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: General Partitions Mfg. Corp., which is located at: 1702 Peninsula Dr. P. O. Box 8370; Erie, PA 16505; Tel: 814-833-1154; Fax: 814-838-3473; Email: [request info \(mikez@generalpartitions.com\)](mailto:requestinfo@mikez@generalpartitions.com); Web: www.generalpartitions.com
- B. Equal substitutions are accepted. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 LOCKERS

- A. Solid Plastic HDP Lockers: Fully assembled high density polyethylene lockers as manufactured by General Partitions Mfg. Corp.
 1. Depth: 18 inches
 2. Width: 15 inches
 3. Height: 72 inches
 4. Configuration: Single Tier.
 5. Color: To Be Determined; 236 Sterling, 250 Onyx.
- B. Materials:
 1. Sides, shelves, sloped tops and bottoms shall be made from 3/8

- inch thick polymer with homogeneous color.
 2. Doors, door frames, and flat tops shall be made from 1/2 inch (13 mm) thick polymer with homogeneous color.
- C. Fabrication: Fabricate locker components square and rigid, with finish free from scratches and chips.
1. Assembly: Locker shall ship fully assembled, requiring only attachment of interior accessory items.
 2. Attachment: Separate solid plastic components will be secured using perimeter dado routing to provide a continuous and solid joint that slides together for assembly.
 3. Locker Sides and Backs: Form a one-piece unit constructed from a single and contiguous sheet of solid plastic requiring no hardware.
 4. Doorframes: Bonded to locker bodies using plastic welding process.
 5. Latch: Continuous spring-loaded latch mechanism provides a vertical finger lift that is capable of accepting a padlock and is securely fastened to the door. Latch mechanism is attached to the length of the door, providing a continuous security latch.
 6. Door Hinge: Continuous and integrate into the full length of the door and main locker body, with no metallic knuckles or pins.
 7. Ventilation: Pattern of 6 horizontal slots in upper and lower ranges of door.
 8. Coat Hooks: Steel, zinc plated, attached to intermediate shelves at locker sides using hardware supplied by manufacturer.
 - a. Provide two per opening on 12 inch (254 mm) and 15 inch (381 mm) wide single, double and triple tier openings.
 - b. 2 additional hooks provided at rear of 18 inch (457 mm) wide lockers.
 9. Finish: Slightly textured for doors, tops, bottoms, shelves and sidewalls.
 10. Handle: All lockers with doors 12 inches (305 mm) and higher shall have a vertical lift handle that requires no pinching, twisting, grasping or lateral motion to disengage.
- D. Accessories:
1. Number Plates: Provide lockers with a polished aluminum number plate, 2-1/4 inches (57 mm) wide by 1 inch (25 mm) high, with Contrasting color numerals not less than 3/8 inch (9.5 mm) high; attach to face of door with two aluminum rivets.
 2. Base: Continuous recessed locker base constructed of 3 inches (76 mm) x 3/4 inches (19 mm) HDPE providing a 3 inch (76 mm) high and deep toe-kick.
 3. Finished End Panels: Constructed of one piece of 1/2 inch (13 mm) thick HDPE and attached using concealed tamper resistant fasteners.

4. Finished Flat Top Panel: Constructed of one piece of 1/2 inch (13 mm) thick HDPE and attached using concealed tamper resistant fasteners.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
- B. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions. Test and adjust doors and latches for smooth operation without binding.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Repair or replace damaged products before Substantial Completion.

END OF SECTION

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NEW PROPERTY FENCING IS TO BE PROVIDED AND INSTALLED BY OWNER AT COMPLETION OF THE PROJECT. CONTRACTOR SHALL ERECT TEMPORARY FENCING FOR THE DURATION OF THE CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE THE FENCING FOR LANDLORD TO INSTALL PERMANENT FENCING. COORDINATE SCHEDULE WITH OWNER.

NEW VEHICLE GATE CONTROLLER WITH WEATHERPROOF ENCLOSURE (NIC). CONTRACTOR TO PROVIDE CONDUIT INFRASTRUCTURE ONLY.

GENERAL NOTES

SITE CALCULATIONS:

PARKING REQUIREMENTS:
 (1:250 GSF)

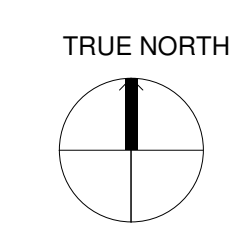
NEW BLDG: 24,535 GSF
 PARKING: 98 REQ'D/134 PROVIDED
 + ADA: 4 / 1 (van)

REFERENCE CIVIL DOCUMENTS FOR ADDITIONAL INFORMATION

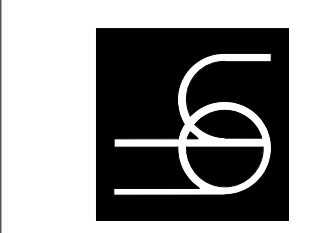
SITE SECURITY:

VEHICLE GATE AND CONTROLLER:
 CONTRACTOR SHALL COORDINATE CONDUIT INFRASTRUCTURE TO SUPPORT THE INSTALLATION OF TWO (2) NEW VEHICLE CONTROL GATES AND REQUIRED GATE CONTROLLERS WITH OWNER. CONTRACTOR SHALL PROVIDE ALL REQUIRED PATHWAYS AND SUPPORT INFRASTRUCTURE.

1 ARCHITECTURAL SITE PLAN OVERALL
 1" = 40'-0"



BHIDE & HALL ARCHITECTS, P.A.
 1205 BENTLEY AVENUE, SUITE C ORLANDO, FL 32837
 TEL: (407) 242-5110
 FAX: (407) 242-5889



PEGASUS
 PEGASUS TECHNOLOGIES
 BUSINESS OPERATIONS CENTER
 932 PILOT DRIVE
 GREEN COVE SPRINGS, FL 32043

ARCHITECT	LICENSE NO.
DAVID S SHIVELY	0099028

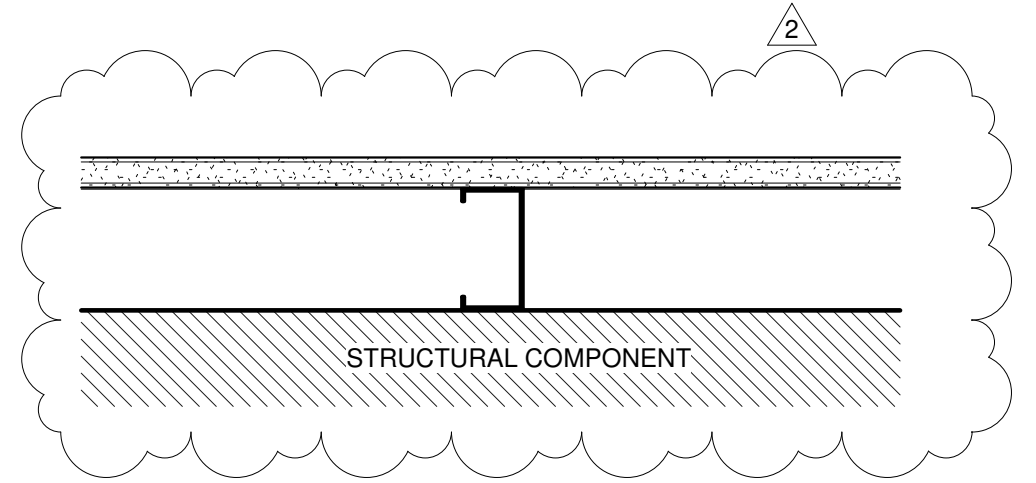
FOR BID
 THESE DRAWINGS ARE RELEASED FOR BIDDING PURPOSES AND ARE NOT INTENDED FOR REGULATORY REVIEW OR APPROVAL.

Revision	Date	Seal / Signature
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2	12/02/2019	

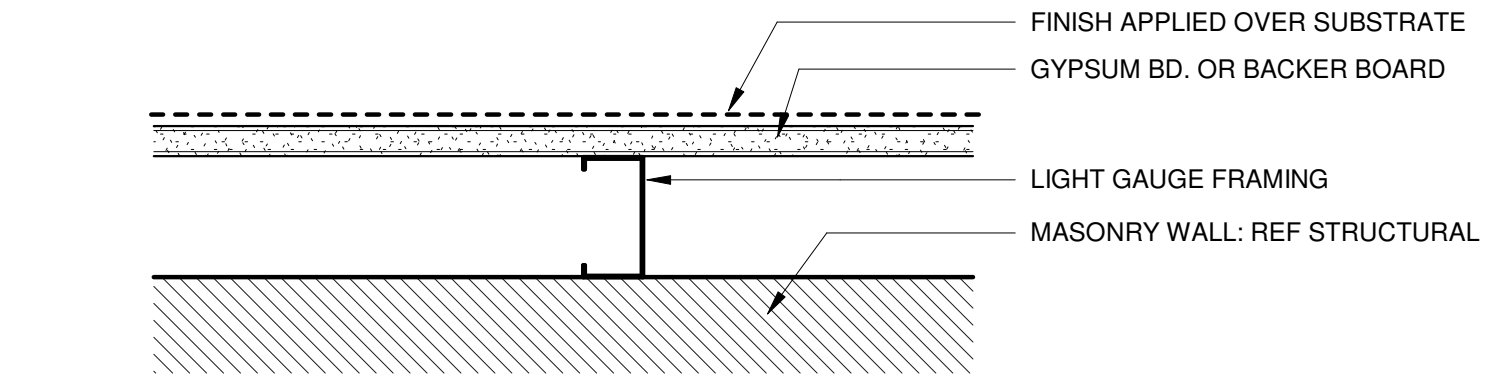
ARCHITECTURAL SITE PLAN (OVERALL)

DATE:	09/07/18
D.B.:	DSS
C.B.:	RM
JOB NO.:	17072

A101

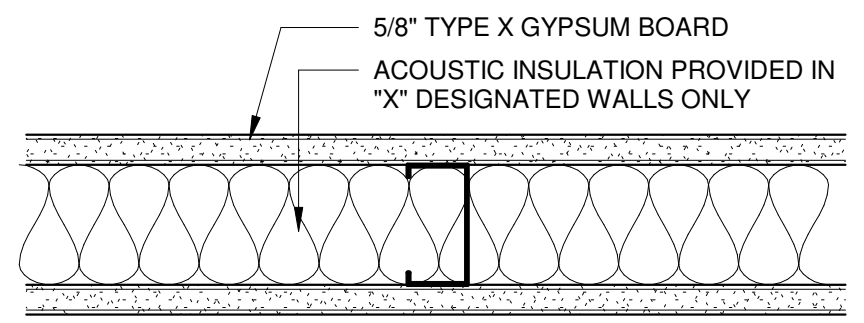


PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (GA)	DEPTH	SPACING	TOP	BOT					
E1	20	1 5/8"	16" O.C.			1 1/2"				N/A
E2	30	2 1/2"	16" O.C.			1 1/2"				N/A
E4	20	3 5/8"	16" O.C.				N/A			N/A



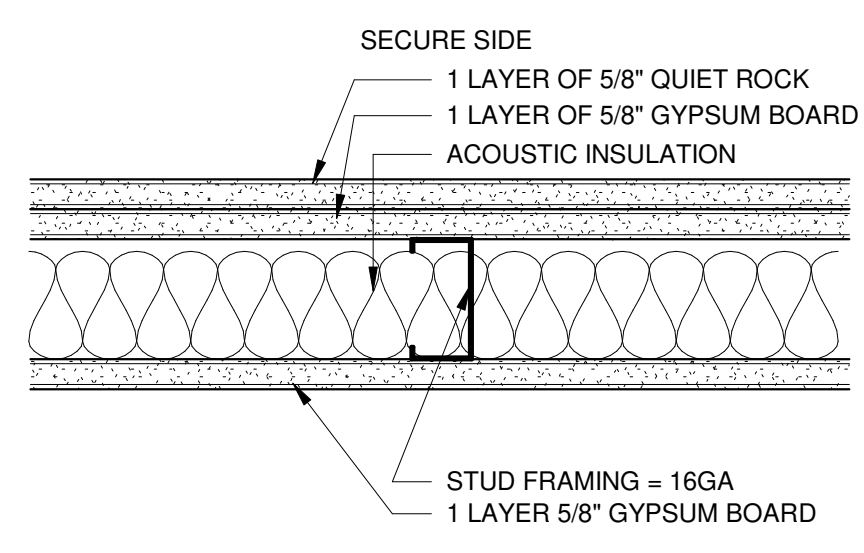
PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (GA)	DEPTH	SPACING	TOP	BOT					
G2	20	1 1/2"	16"							N/A
G6										

REFERENCE STRUCTURAL FOR MASONRY WALL FRAMING
 MASONRY WALL CONSTRUCTION WITH WALL TYPE G-2 MEETS A MINIMUM STC-45: 8" HOLLOW CORE
 MASONRY CONSTRUCTION WITH WALL TYPE G-2 BOTH SIDES.



*TYPICAL WALL ASSEMBLY IS TYPE A4 WITH NO ACOUSTIC BAT INSULATION

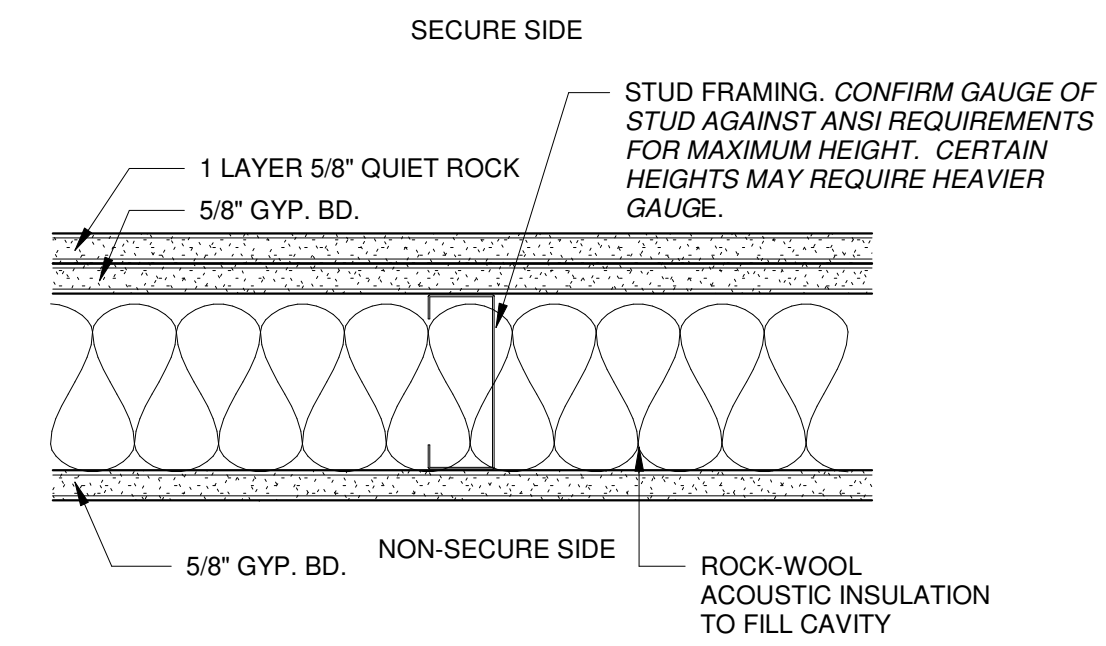
PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (GA)	DEPTH	SPACING	TOP	BOT					
A										
A4	20	3 5/8"	16" O.C.				N/A			
A4X	20	3 5/8"	16" O.C.			3"	N/A	SA-870717	50	
A6	20	6"	16" O.C.				N/A			
A6X	20	6"	16" O.C.			5"	N/A	RAL-TL-84-140	59	



NON-SECURE SIDE

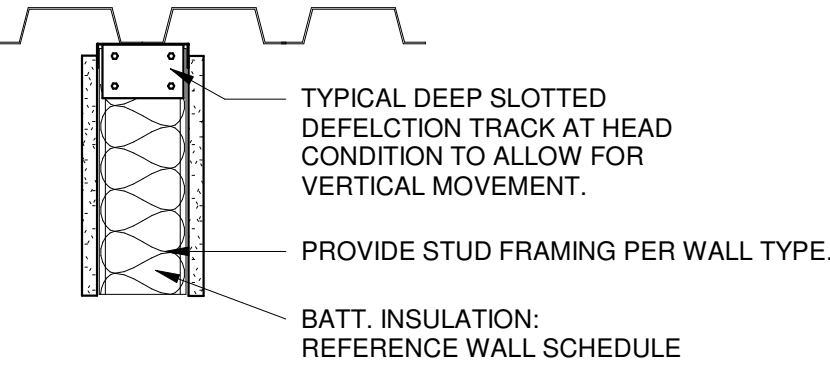
PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (GA)	DEPTH	SPACING	TOP	BOT					
B										
B4	20	3 5/8"	16" O.C.			3 1/2"	N/A		45	
B6	20	6"	16" O.C.			5"	N/A		50	

EXTEND WALLS FROM TRUE FLOOR TO TRUE CEILING
 CONFIRM GAUGE OF STUD FRAMING AGAINST ANSI REQUIREMENTS FOR MAXIMUM HEIGHT. CERTAIN HEIGHTS MAY REQUIRE HEAVIER GAUGE AND ADDITIONAL BRACING TO STRUCTURE. PROVIDE ACOUSTIC SEALANT AT TOP AND BOTTOM OF WALL AND AT ALL PENETRATIONS.

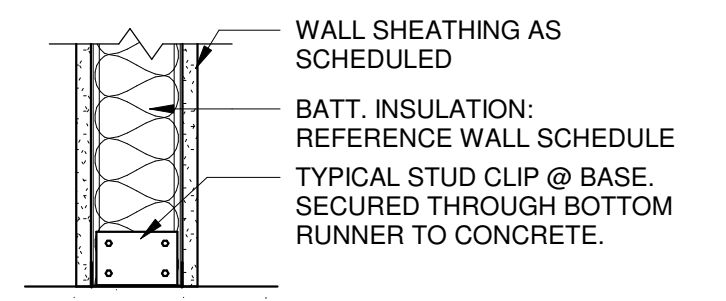


PARTITION TYPE MARK	FRAMING			DETAILS		ATTN THK	FIRE RTG	TESTED ASSEMBLY	STC RTG	SHEET NOTES
	THK (GA)	DEPTH	SPACING	TOP	BOT					
C										
C6	20	6"	16" O.C.			5"	N/A		50	

EXTEND WALLS FROM TRUE FLOOR TO TRUE CEILING
 FILL CAVITY WITH ROCK-WOOL (TYPE SOUND ATTENUATING INSULATION AND PIN TO STUDS TO PREVENT SLIPPAGE.



7 WALL HEAD DETAIL (TYP).
 1 1/2" = 1'-0"



6 WALL BASE DETAIL (TYP).
 1 1/2" = 1'-0"

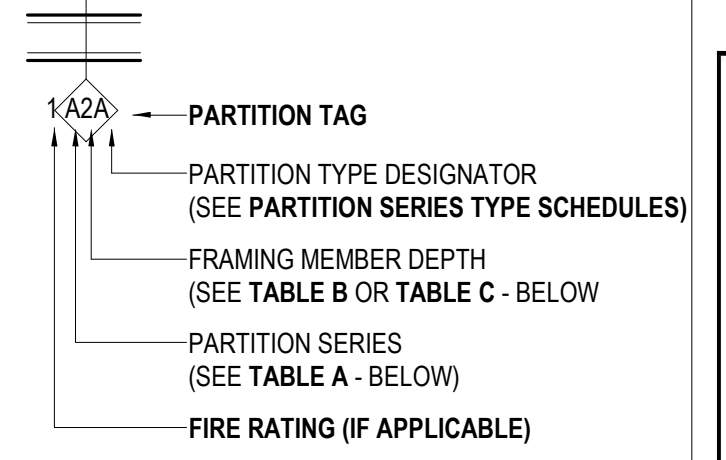


TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBERS	SHEATHING
A	1-LAYER	METAL C-STUD	1-LAYER
B	1-LAYER	METAL C-STUD	2-LAYERS
C	1-LAYER	METAL C-STUD	2-LAYERS OR 1-LAYER QUIET ROCK
D	NOT USED		
E	1-LAYERS	MASONRY + C-STUD	NONE
F	NOT USED		
G	1-LAYER	MASONRY + C-STUD	NONE

TABLE B- FRAMING DEPTH SCHEDULE

TAG NUMBER	MTL STUD DESIGNATION	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FURRING CHANNEL		N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	N/A
4	4"	4"	4"
6	6"	6"	6"
8	8"	N/A	N/A
10	10"	N/A	N/A

TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER DESIGNATION	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

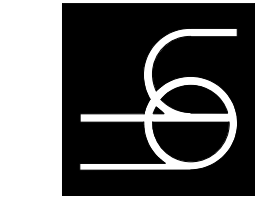
STEEL SHEET THICKNESS FOR STUDS AND RUNNERS

GAGE*	MIN. STEEL BASE METAL THICKNESS (UNCOATED)		
	INCH	MILS	MM
12	0.1017	97	X
14	0.0713	68	X
16	0.0566	54	1.34
18	0.0451	43	1.09
20	0.0312	30	0.84
22	0.0270	27	0.68
25	0.0179	18	0.45

*GAGE 20 IS TYPICAL FOR ALL WALL TYPES UNO.
 *USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED

- GENERAL NOTES**
- GN-01. PARTITION TYPES ARE NOT SEQUENTIAL.
 - GN-02. ALL PARTITION SHEATHING SHALL BE 5/8" TYPE X FIRE RATED GYPSUM BOARD UNLESS OTHERWISE NOTED.
 - GN-03. REFER TO DETAILS THIS SHEET FOR TOP AND BOTTOM OF PARTITION CONDITIONS LISTED IN PARTITION SCHEDULE.
 - GN-04. ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.
 - GN-05. PROVIDE FIRE RATED BLOCKING IN PARTITIONS FOR EQUIPMENT HANGING AS INDICATED. SEE CONSTRUCTION PLAN(S) AND/ OR INTERIOR ELEVATIONS FOR LOCATIONS. IF QUESTIONS REMAIN, CONSULT ARCHITECT
 - GN-06. FOR INTERIOR FRAMING LIMITING HEIGHTS REFER TO SSMA TABLES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS
 - GN-07. CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF ROOF INFORMATION

BHIDE & HALL ARCHITECTS, P.A.
 1205 BIRCHWOOD AVENUE, SUITE 100, ORLANDO, FL 32809
 TEL: (407) 241-0800
 FAX: (407) 241-0800



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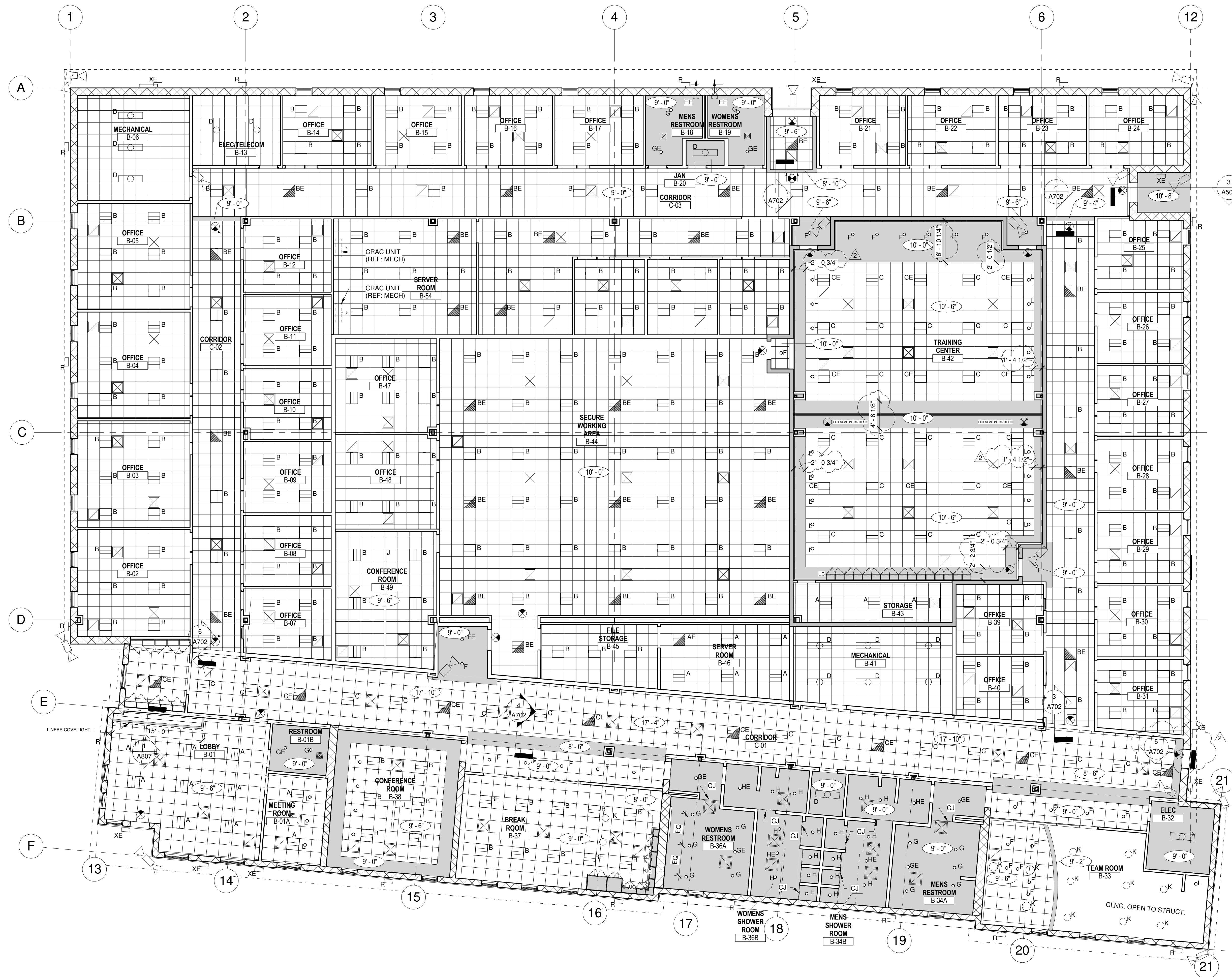
ARCHITECT LICENSE NO.
 DAVID S 0099028
 SHIVELY

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Revision	Date	Seal / Signature
1 ISSUED FOR BID	11/20/2019	
2 ADDENDUM 001	12/10/2019	

DATE: 09/07/18
 D.B.: DSS
 C.B.: RM
 JOB NO: 17072

A508



1 OVERALL REFLECTED CEILING PLAN
1/8" = 1'-0"

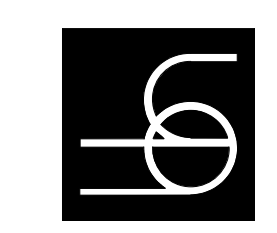
GENERAL NOTES

- A. RE: A00 DRAWING SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
- B. RE: A0.1 AND A0.2 FOR TYPICAL DEVICE MOUNTING LOCATIONS.
- C. ALL ACOUSTICAL CEILINGS ARE 9'-0" UNLESS OTHERWISE INDICATED. PROVIDE "ACT-1" FOR ALL ACOUSTICAL CEILINGS.
- D. CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. IN THE CENTERLINE OF CORRIDORS AND CENTERLINE OF LIGHT FIXTURES, UNO, OR VIOLATION OF APPLICABLE CODES MAY OCCUR.
- E. INSTALL REGISTERS AND LIGHT FIXTURES WITHIN GRID LINES. INSTALL SPEAKERS, LIGHT FIXTURES, AND OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF ACOUSTICAL UNITS OR CEILING PANELS, UNO.
- F. IN ACOUSTICAL CEILINGS, LOCATE ALL SPRINKLER HEADS IN THE GEOMETRIC CENTER OF PANELS, UNO.
- G. IF IT IS NOT POSSIBLE TO LOCATE SPRINKLER HEADS AS REQUIRED ABOVE FOR ANY REASON, INCLUDING, WITHOUT LIMITATION, CODE REQUIREMENTS, DO NOT PROCEED WITH WORK UNTIL SUCH CONDITIONS HAVE BEEN REVIEWED WITH ARCHITECT AND FIRE PROTECTION DESIGN ENGINEER.
- H. PROVIDE SPRINKLER HEAD LOCATIONS FOR ARCHITECT'S REVIEW FOR AESTHETIC PURPOSES PRIOR TO ANY INSTALLATION, AND PRIOR TO SUBMITTING DRAWINGS FOR PERMIT. OTHERWISE CONTRACTOR WILL BE REQUIRED TO RELOCATE HEADS AT ITS SOLE EXPENSE.
- J. RE: MEP DRAWINGS FOR DESIGN OF MECHANICAL AND ELECTRICAL SYSTEMS. ARCHITECTURAL PLANS GOVERN FOR LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT IF CONFLICTS OCCUR.
- K. RE: ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE, EXIT LIGHTS AND OTHER LIFE SAFETY DEVICES.
- L. ARRANGE CONCEALED ITEMS TO PROVIDE ADEQUATE CLEARANCES FOR CEILING AND ITS DEVICES.
- M. PROVIDE ACCESS PANEL LOCATIONS WITH ARCHITECT PRIOR TO LAYOUT OF WORK REQUIRING ACCESS.
- N. PLUMB ALL STEM, AIRCRAFT CABLE, AND APPURTENANCES USED TO SUPPORT SUSPENDED LIGHT FIXTURES, UNO.
- O. REMOVE ALL PAINT FROM EXPOSED DUCTWORK, CONDUIT AND PIPING, UNO. REMOVE ALL TAGS AND LABELS NOT REQUIRED BY CODE.
- P. FINISH HVAC DIFFUSERS AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNO.
- Q. PROVIDE CONCEALED SPRINKLER HEADS WITH CAPS WHICH ARE FACTORY PAINTED TO MATCH THE CEILING IN ALL DRYWALL CEILINGS. LOCATE ALL HEADS TO ALIGN WITH LIGHT FIXTURES, UNO.

LEGEND

- REF: SHEET A001 FOR ADDITIONAL INFORMATION
- 2'x2' LED DIRECT/INDIRECT LIGHT
 - 6' LED CAN LIGHT
 - 6' LED DIRECTIONAL CAN LIGHT
 - DECORATIVE PENDANT FIXTURE
 - LINEAR PENDANT FIXTURE
 - 1' X 4' LED LINEAR UTILITY LIGHT

BHIDE & HALL ARCHITECTS, P.A.
100 BENTLEY AVENUE, SUITE C, ORLANDO, FL 32837
TEL: (407) 443-0889
FAX: (407) 443-0890



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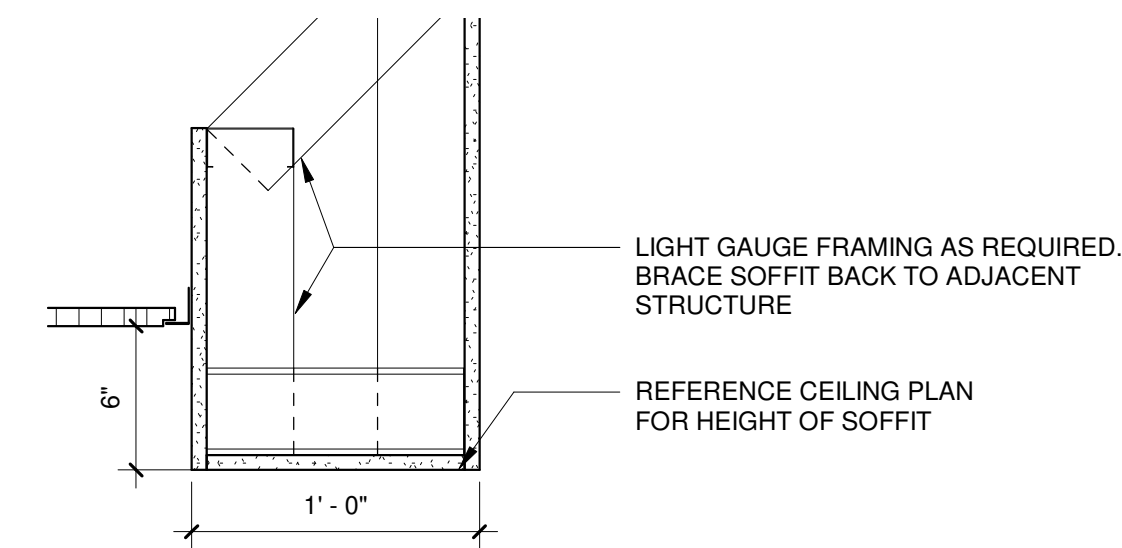
Date	Revision	Seal / Signature
11/20/2019	1	
12/10/2019	2	

REFLECTED CEILING PLAN
DATE: 09/07/18
D.B.: DSS
C.B.: RM
JOB NO: 17072

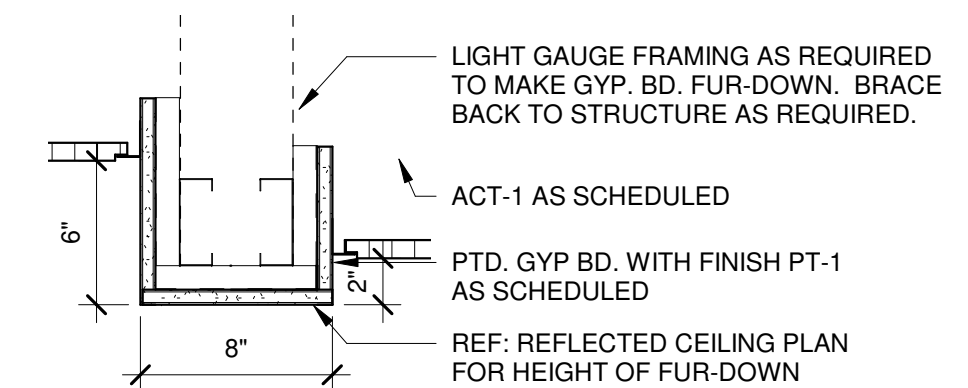
A701

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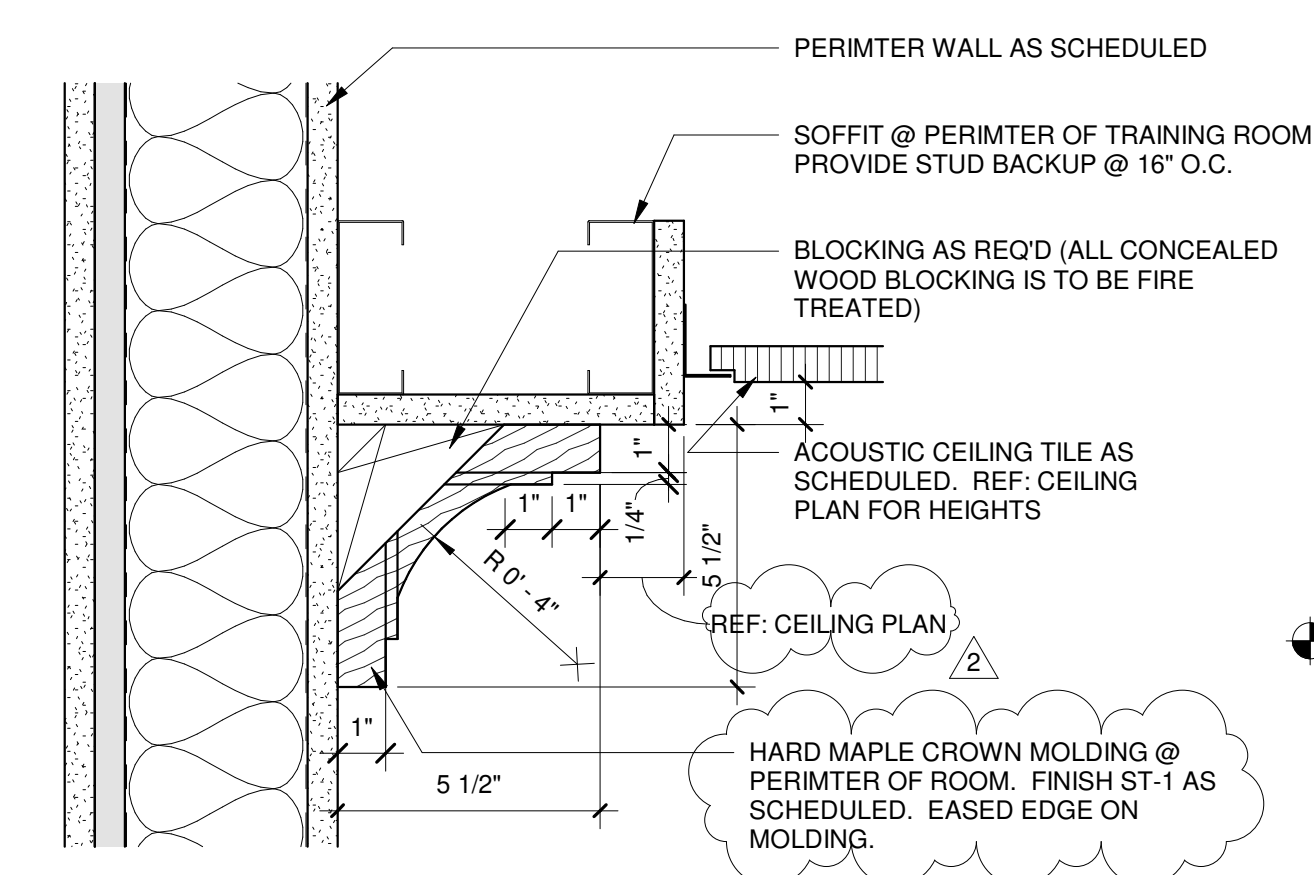
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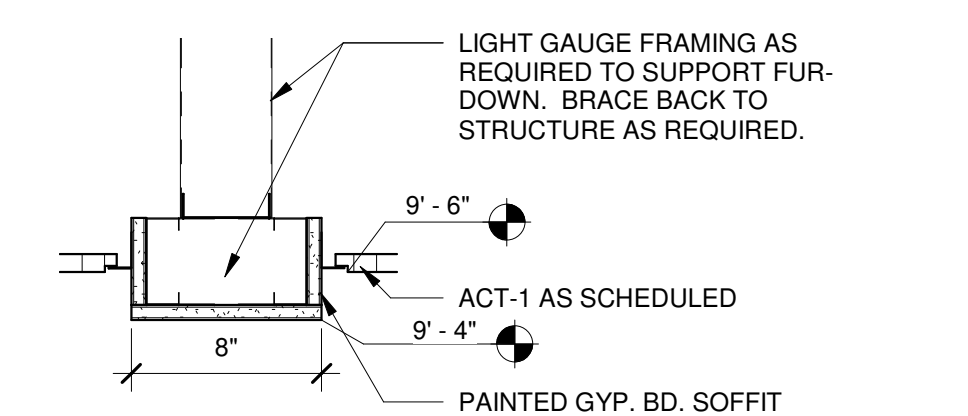
6 CEILING SECTION DETAIL
1 1/2" = 1'-0"



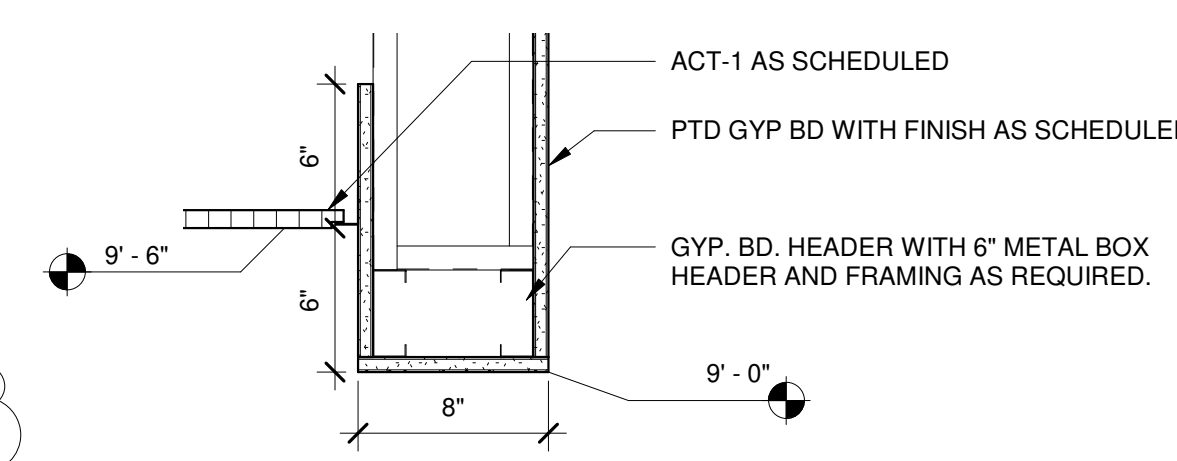
1 CEILING SECTION DETAIL
1 1/2" = 1'-0"



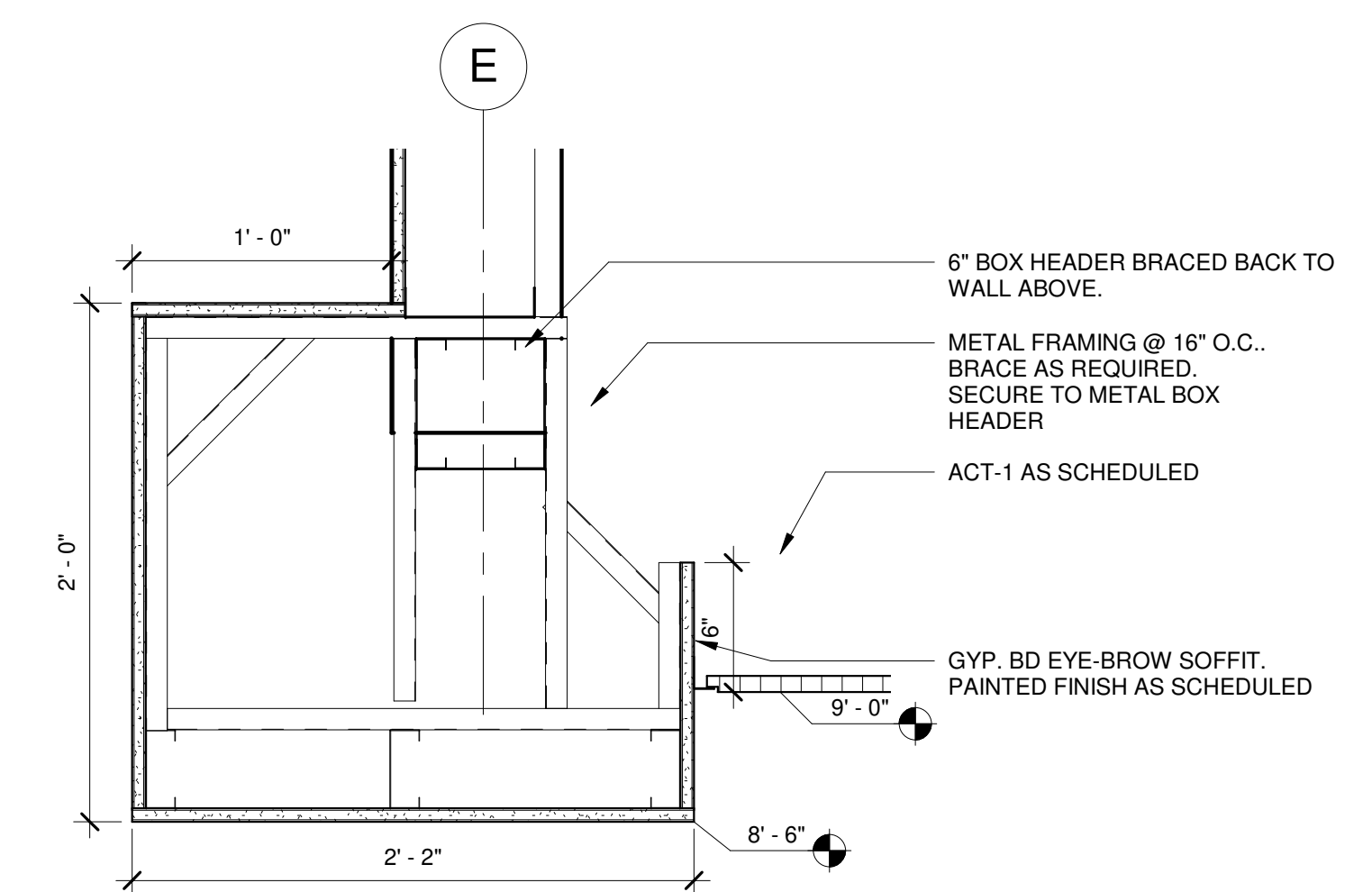
7 CROWN MOLDING DETAIL
3" = 1'-0"



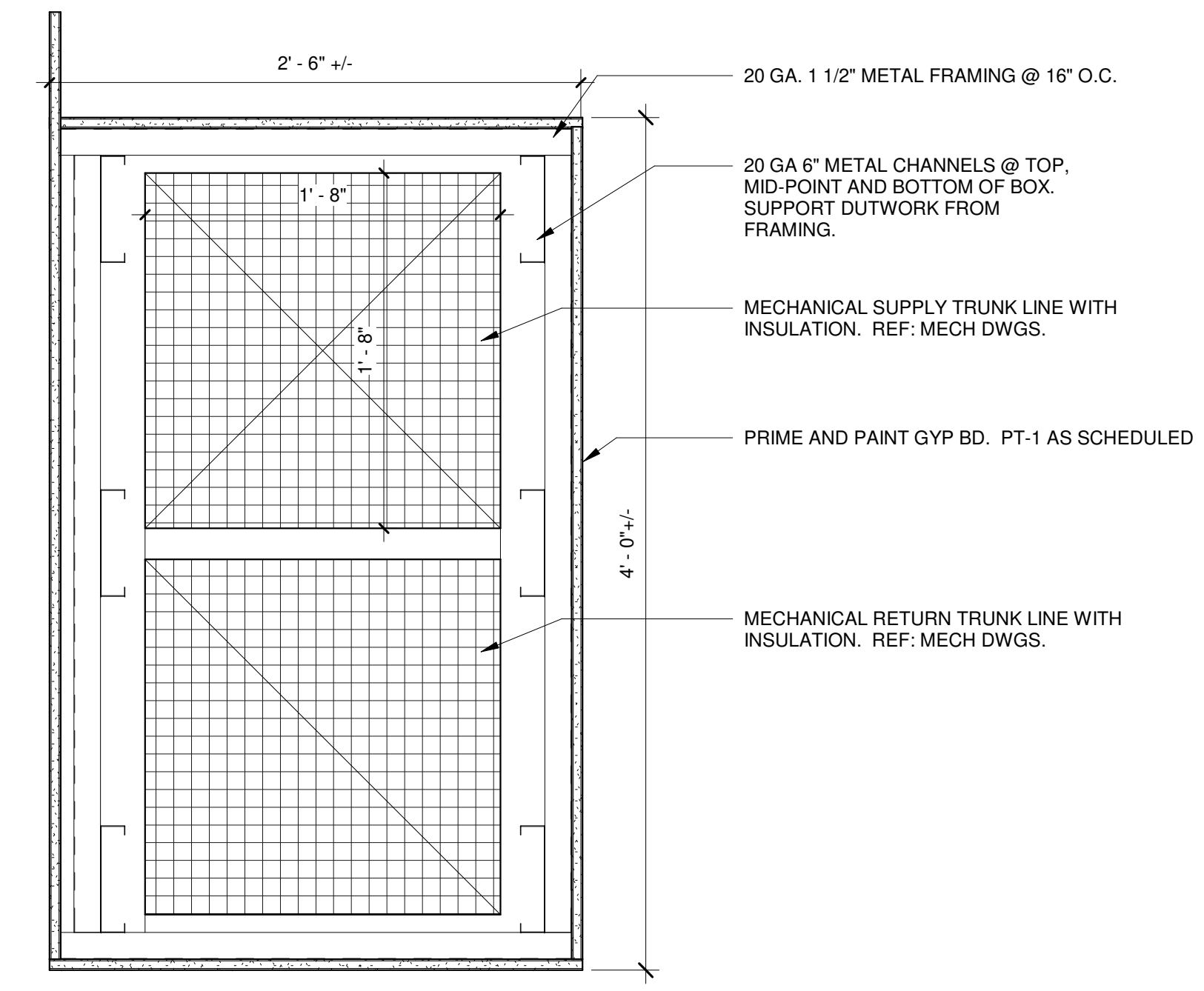
2 CEILING SECTION DETAIL (TYP)
1 1/2" = 1'-0"



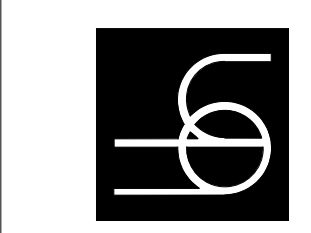
3 CEILING SECTION DETAIL
1 1/2" = 1'-0"



4 CEILING SECTION DETAIL
1 1/2" = 1'-0"



5 CEILING SECTION DETAIL
1 1/2" = 1'-0"



ARCHITECT	LICENSE NO.
DAVID S SHIVELY	0099028

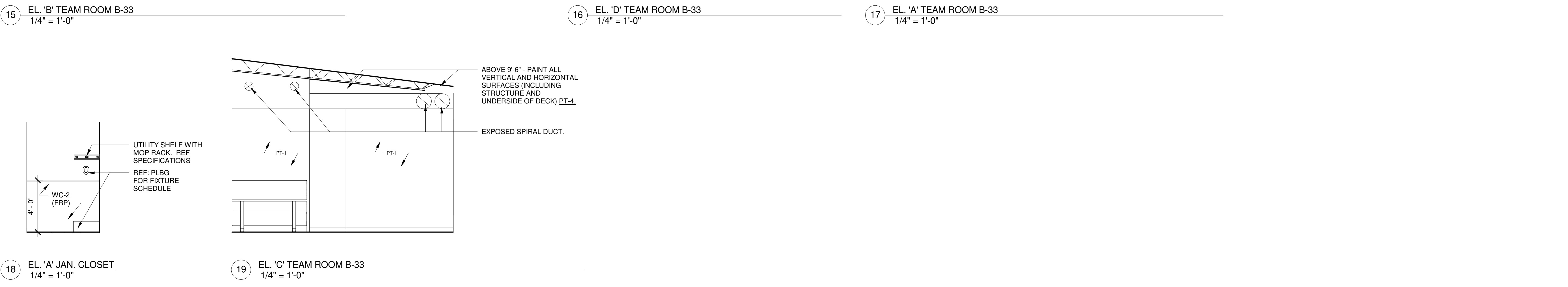
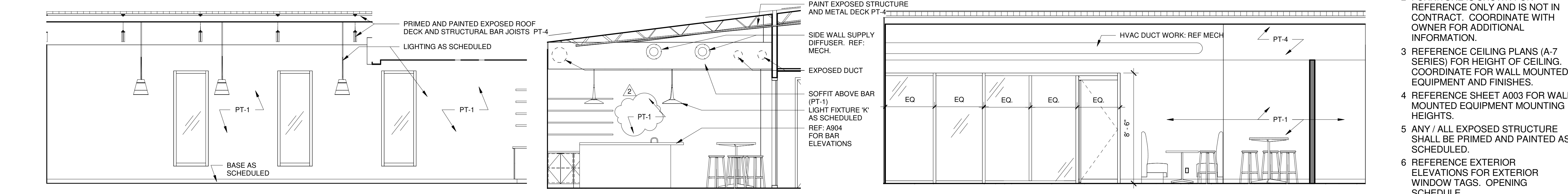
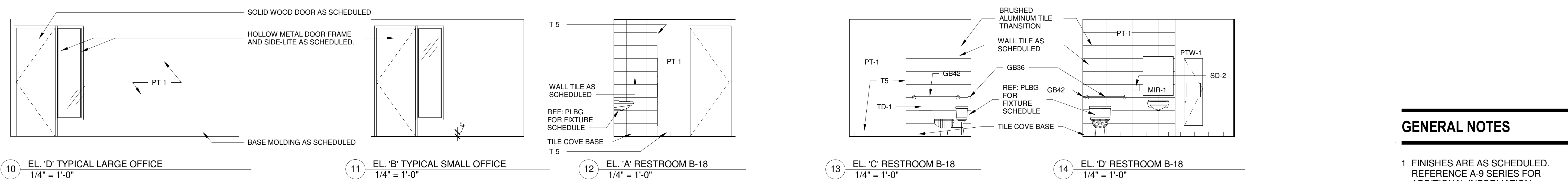
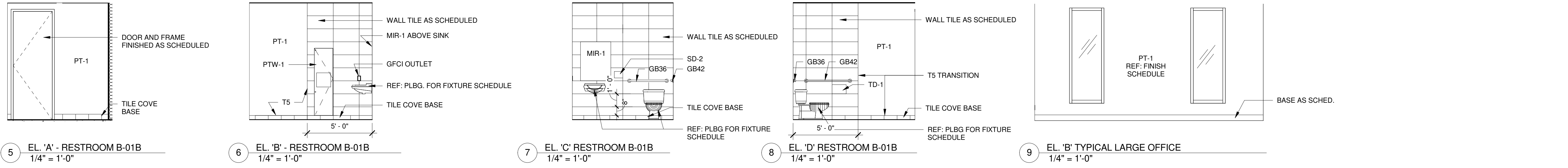
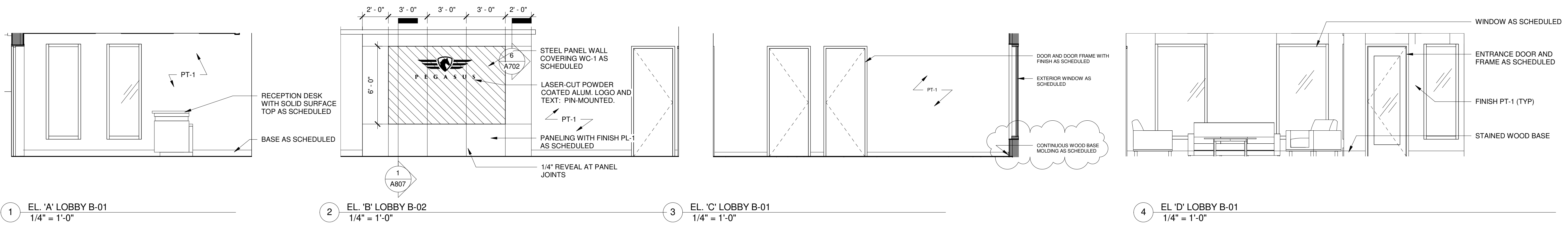
FOR BID
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Revision	Date	Seal / Signature
1 ISSUED FOR BID	11/20/2019	
2 ADDENDUM 001	12/02/2019	

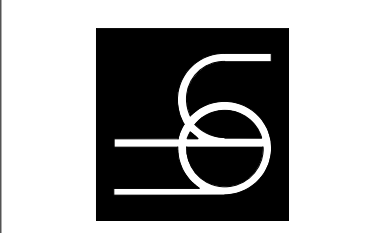
CEILING DETAILS

DATE:	09/07/18
D.B.:	DSS
C.B.:	RM
JOB NO.:	17072

A702



- ### GENERAL NOTES
- FINISHES ARE AS SCHEDULED. REFERENCE A-9 SERIES FOR ADDITIONAL INFORMATION.
 - FURNITURE IS SHOWN FOR REFERENCE ONLY AND IS NOT IN CONTRACT. COORDINATE WITH OWNER FOR ADDITIONAL INFORMATION.
 - REFERENCE CEILING PLANS (A-7 SERIES) FOR HEIGHT OF CEILING. COORDINATE FOR WALL MOUNTED EQUIPMENT AND FINISHES.
 - REFERENCE SHEET A003 FOR WALL MOUNTED EQUIPMENT MOUNTING HEIGHTS.
 - ANY / ALL EXPOSED STRUCTURE SHALL BE PRIMED AND PAINTED AS SCHEDULED.
 - REFERENCE EXTERIOR ELEVATIONS FOR EXTERIOR WINDOW TAGS. OPENING SCHEDULE



ARCHITECT	LICENSE NO.
DAVID S SHIVELY	0099028

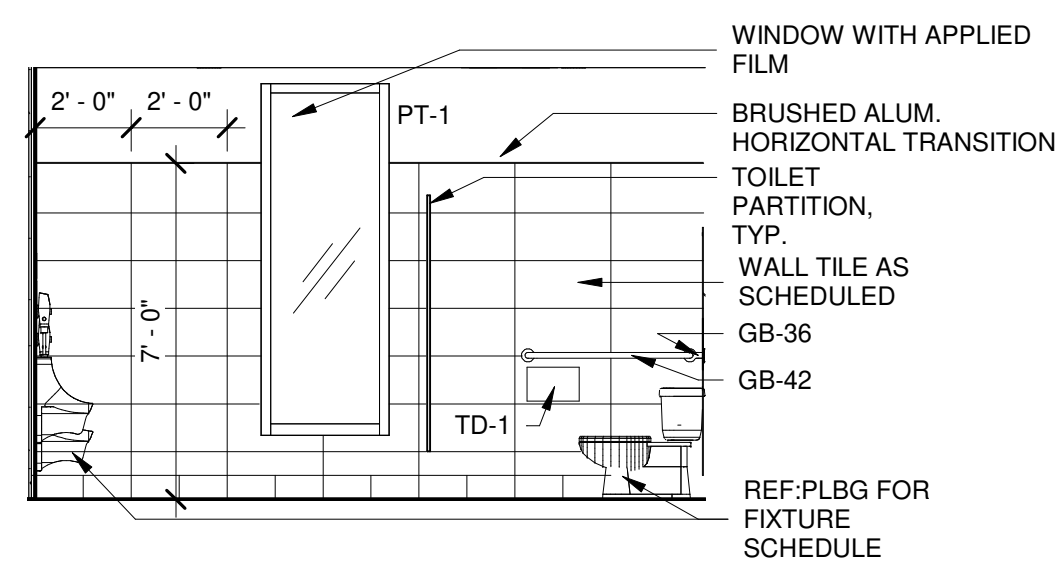
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2 ADDENDUM 001	12/02/2019	

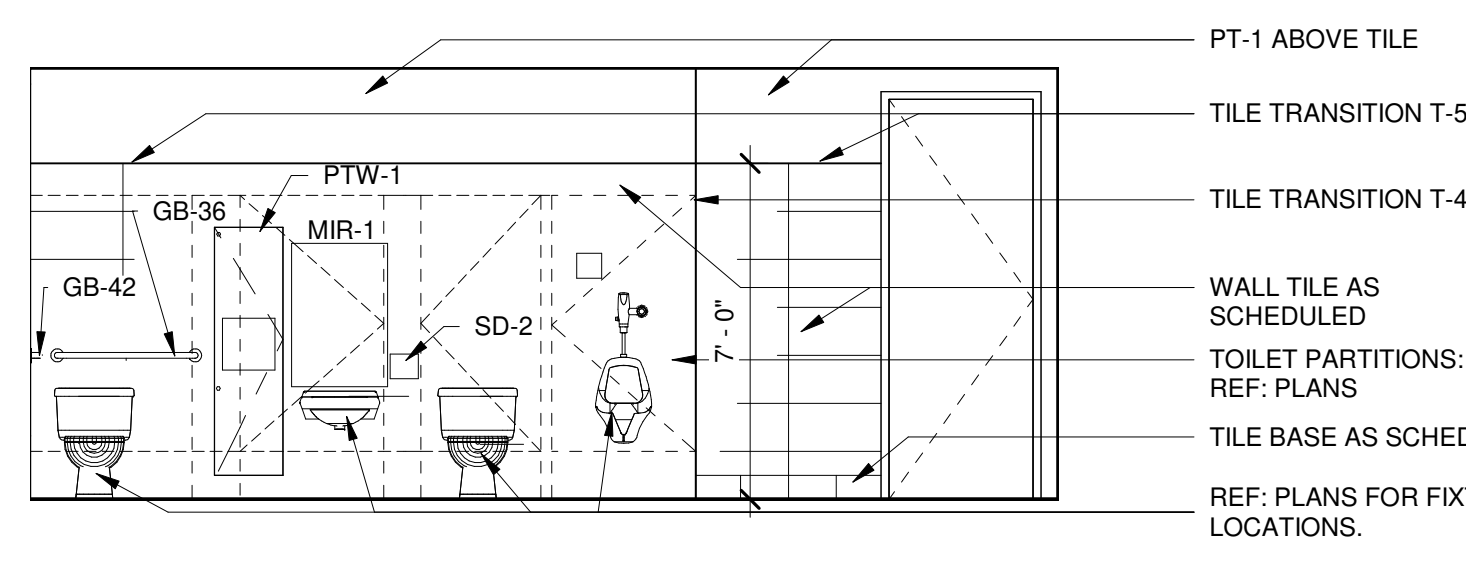
INTERIOR ELEVATIONS

DATE: 09/07/18
 D.B.: IJPG
 C.B.: DSS
 JOB NO: 17072

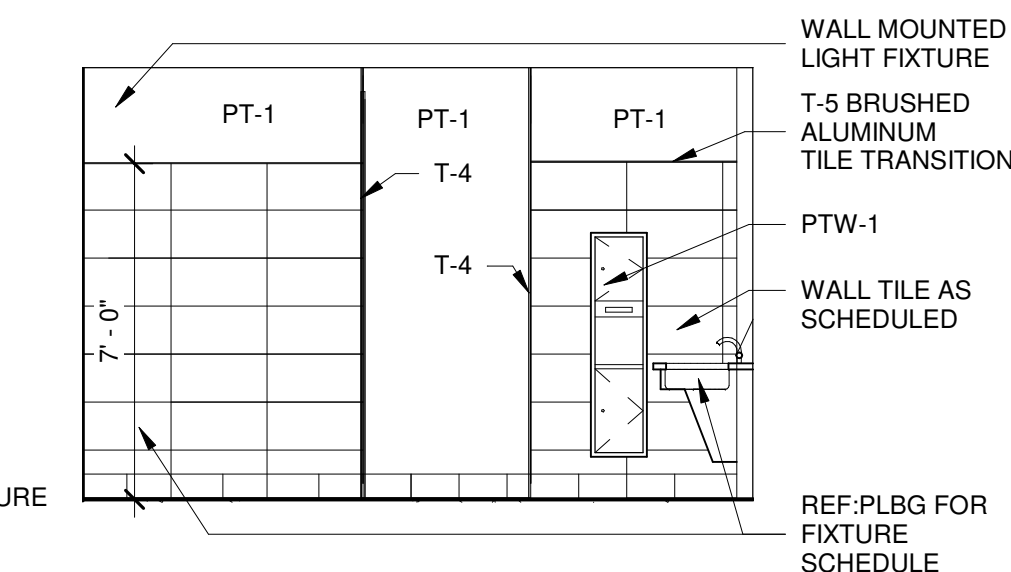
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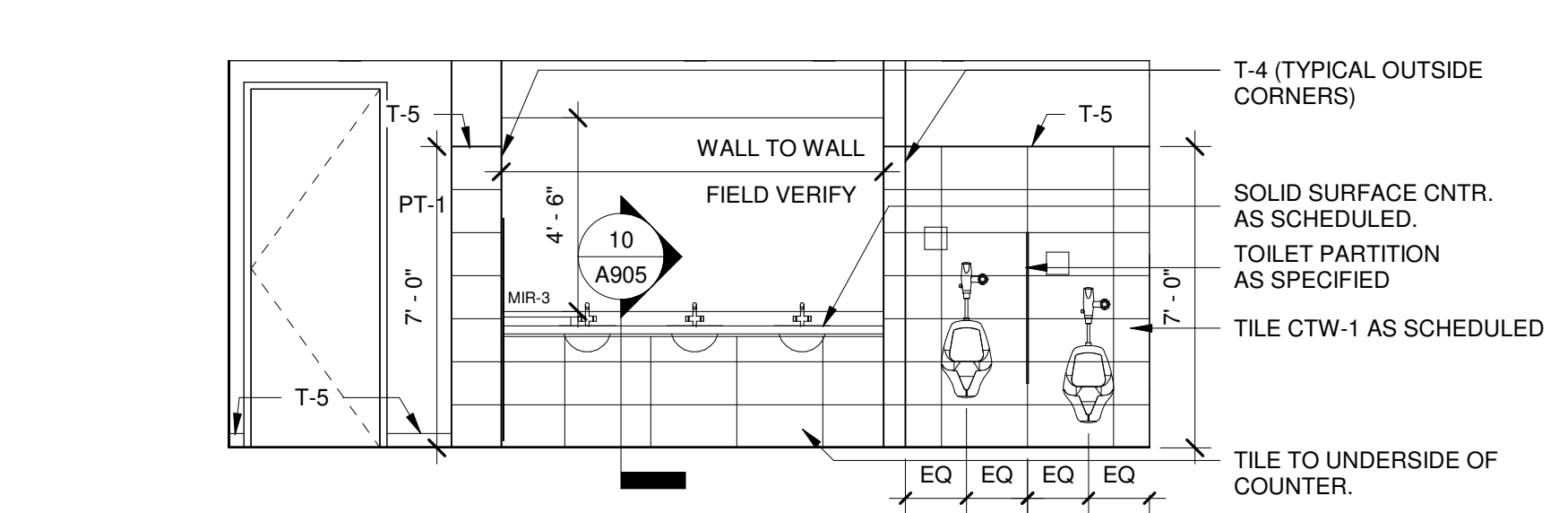
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1/4" = 1'-0"



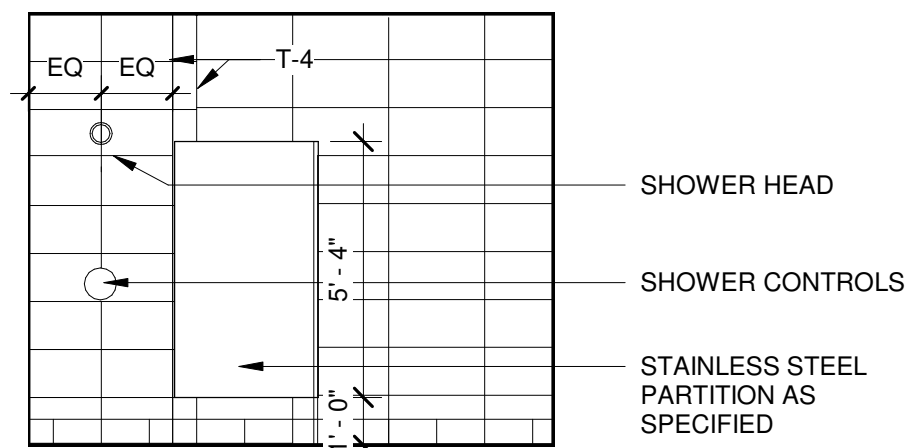
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1/4" = 1'-0"



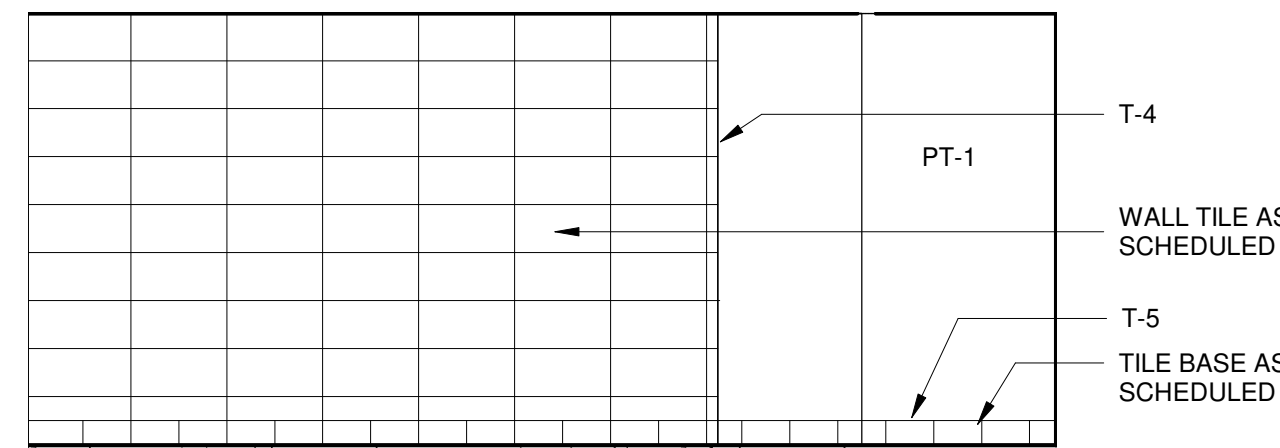
3 EL. 'C' MEN'S RESTROOM B-34A
1/4" = 1'-0"



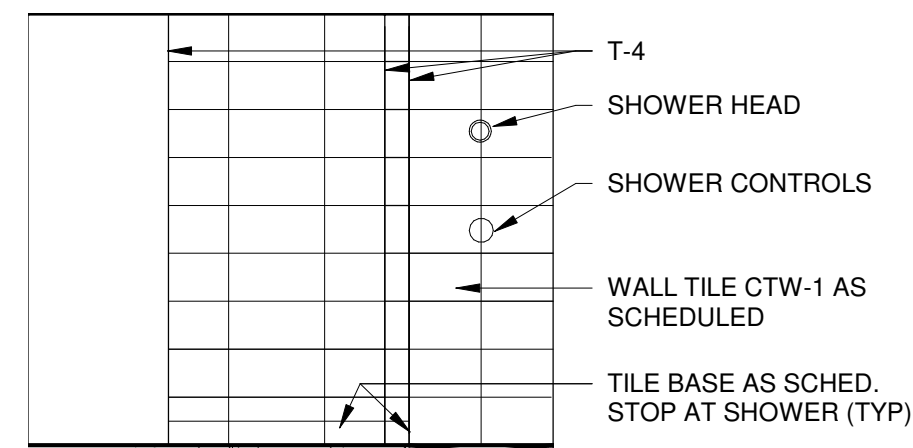
4 EL. 'D' MEN'S RESTROOM B-34A
1/4" = 1'-0"



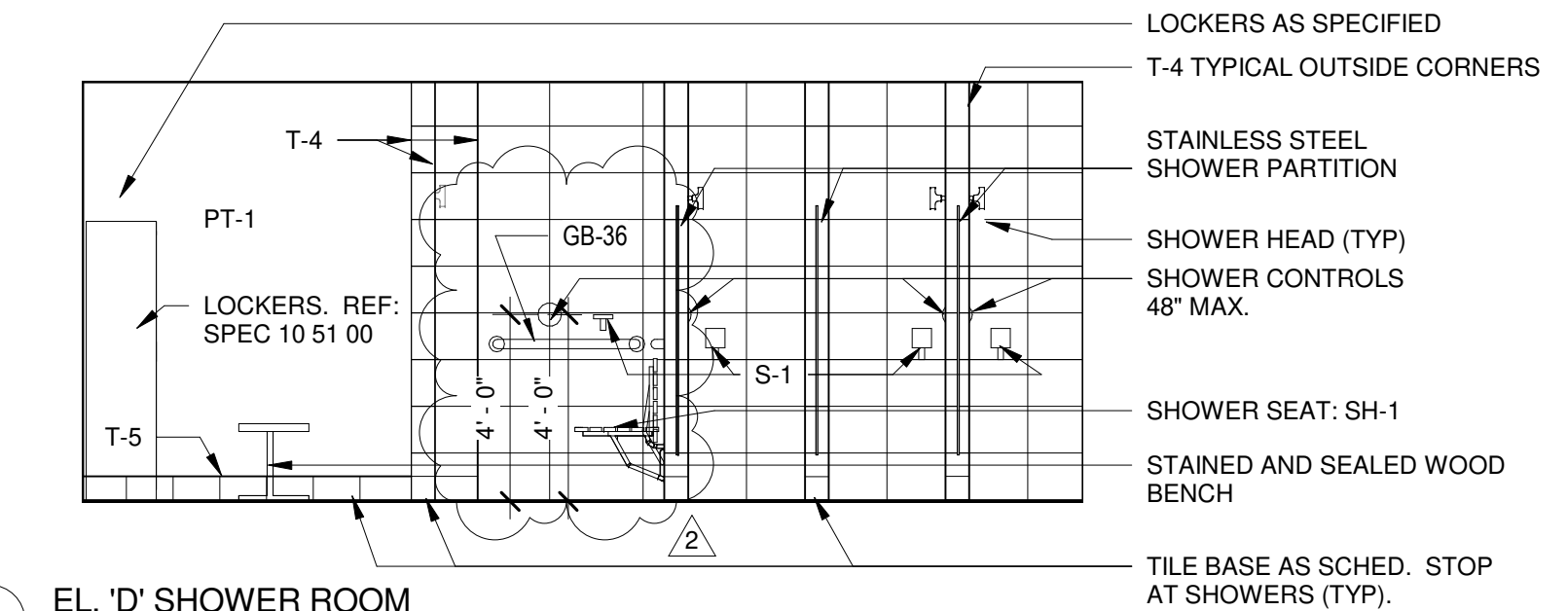
5 EL. 'A' SHOWER ROOM
1/4" = 1'-0"



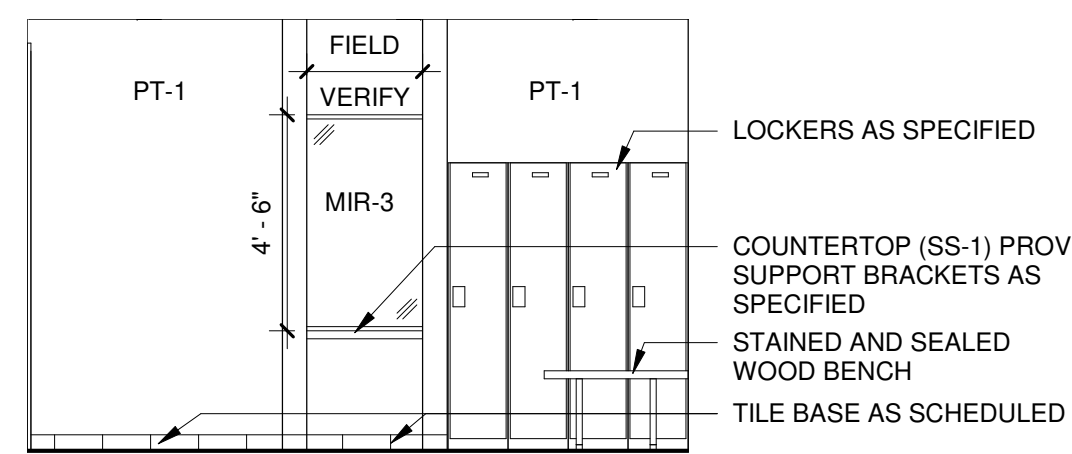
6 EL. 'B' SHOWER ROOM
1/4" = 1'-0"



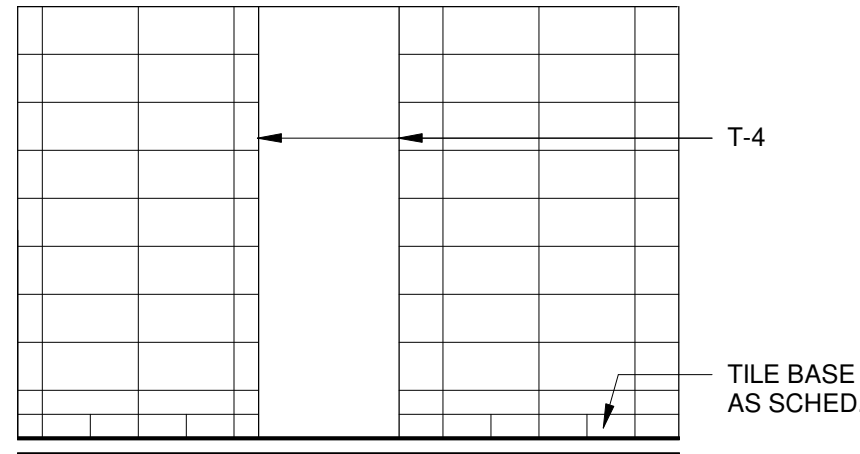
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1/4" = 1'-0"



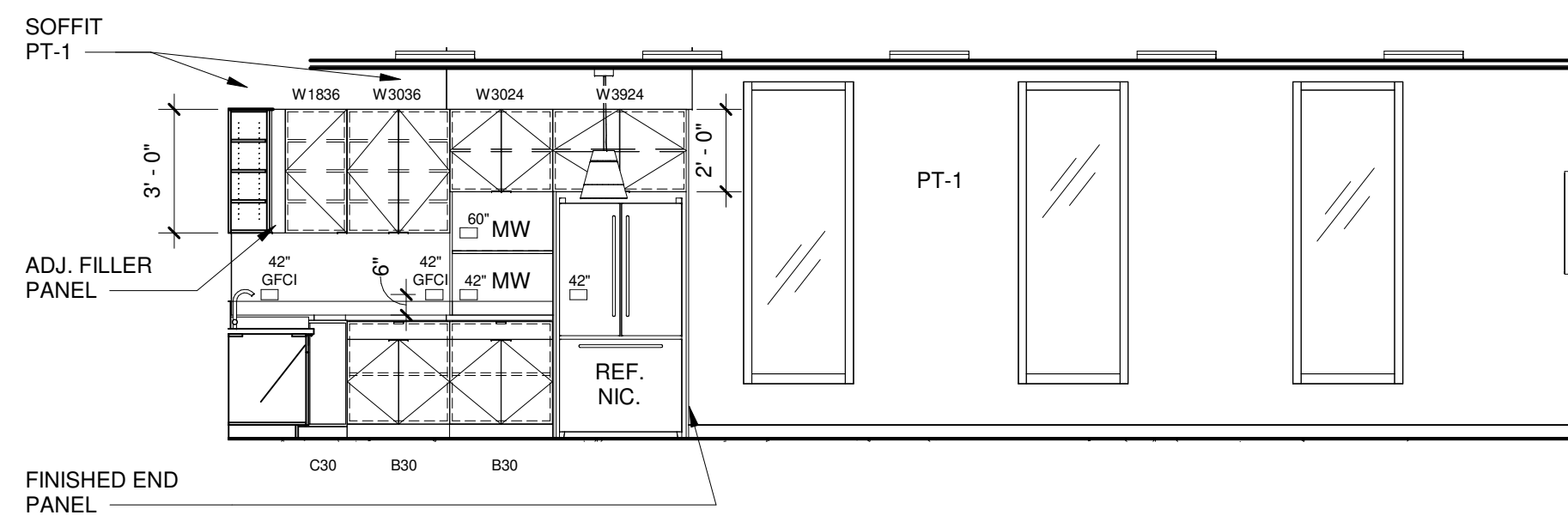
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1/4" = 1'-0"



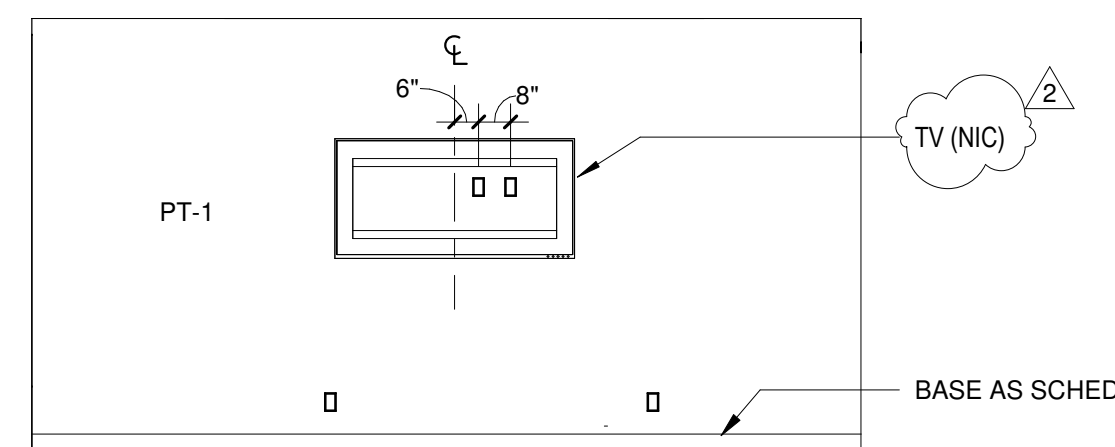
18 EL. 'E' SHOWER ROOM
1/4" = 1'-0"



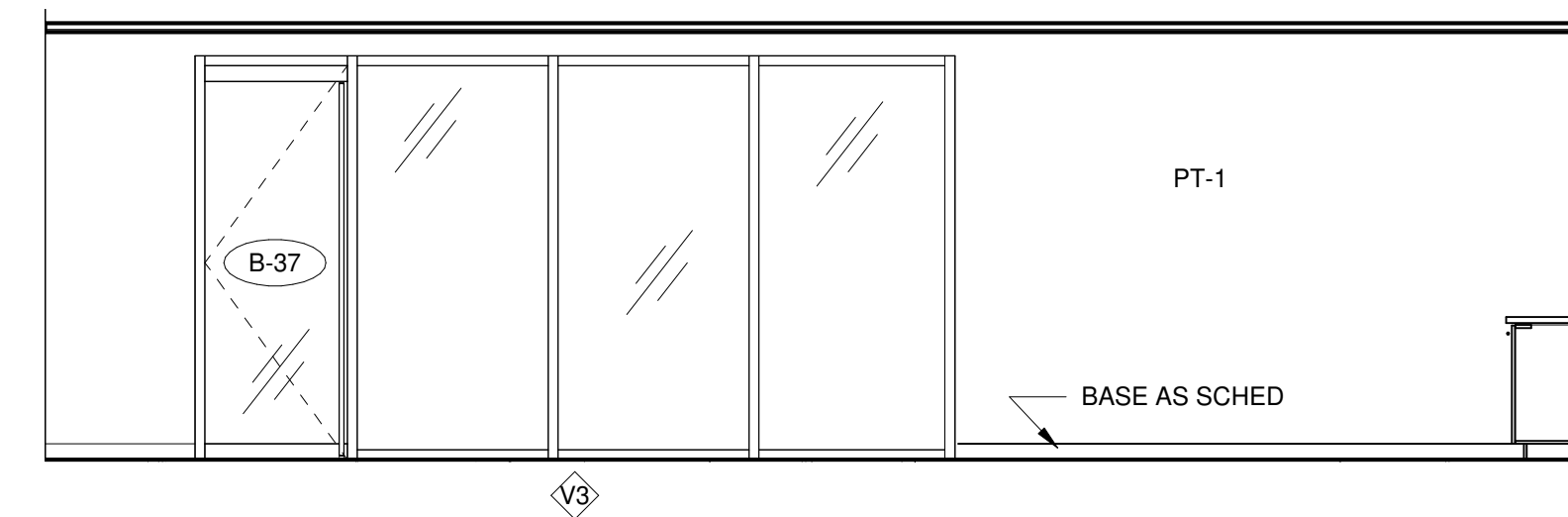
19 EL. 'F' SHOWER ROOM
1/4" = 1'-0"



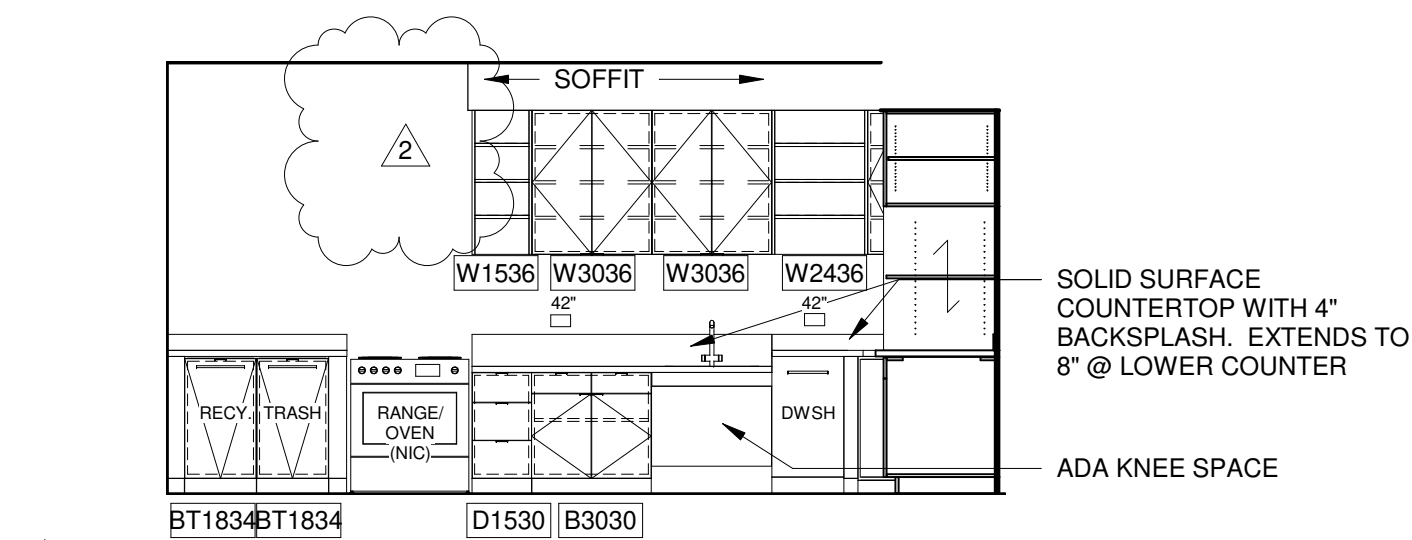
9 EL. 'A' BREAKROOM B-37
1/4" = 1'-0"



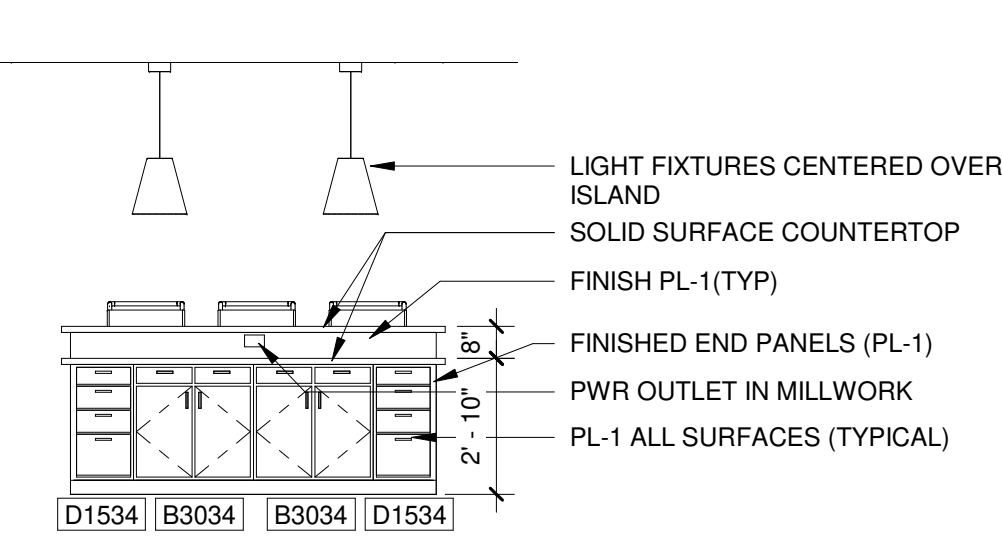
10 EL. 'B' BREAKROOM B-37
1/4" = 1'-0"



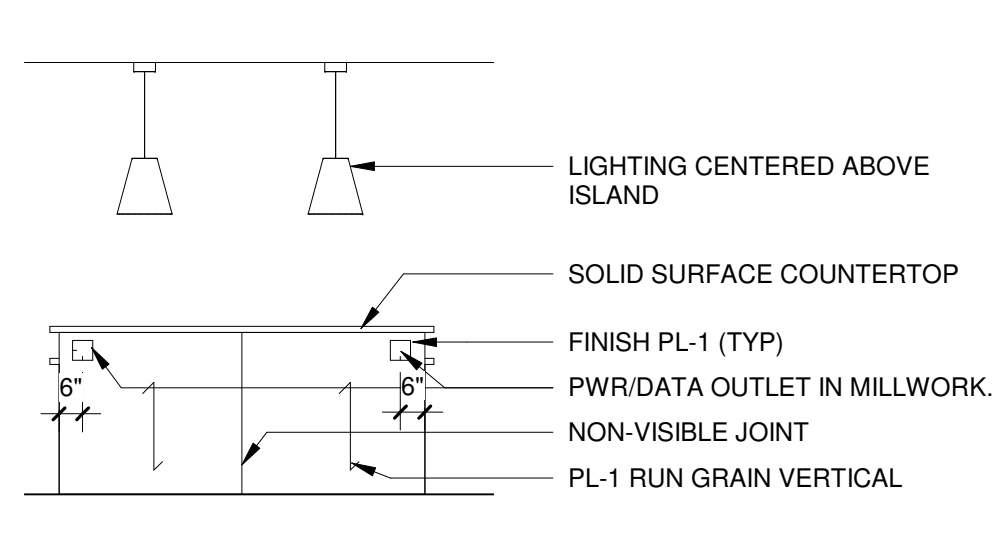
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1/4" = 1'-0"



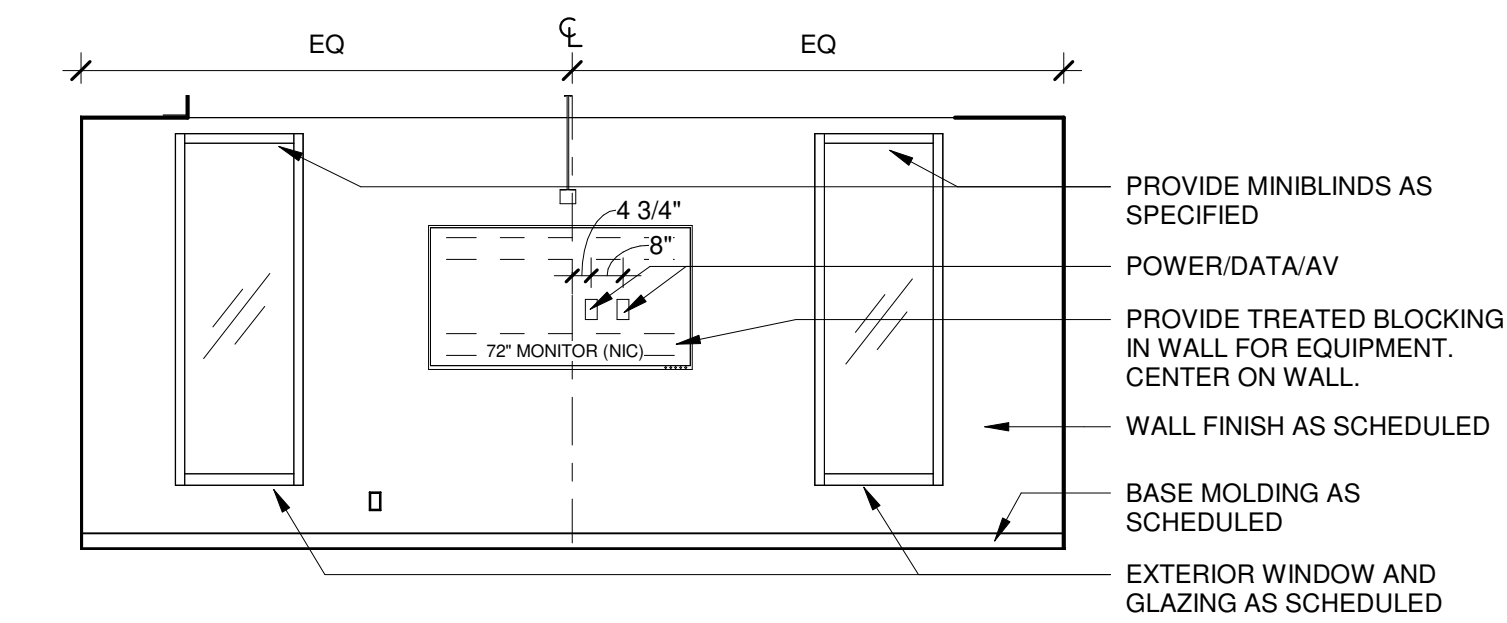
12 EL. 'D' BREAKROOM B-37
1/4" = 1'-0"



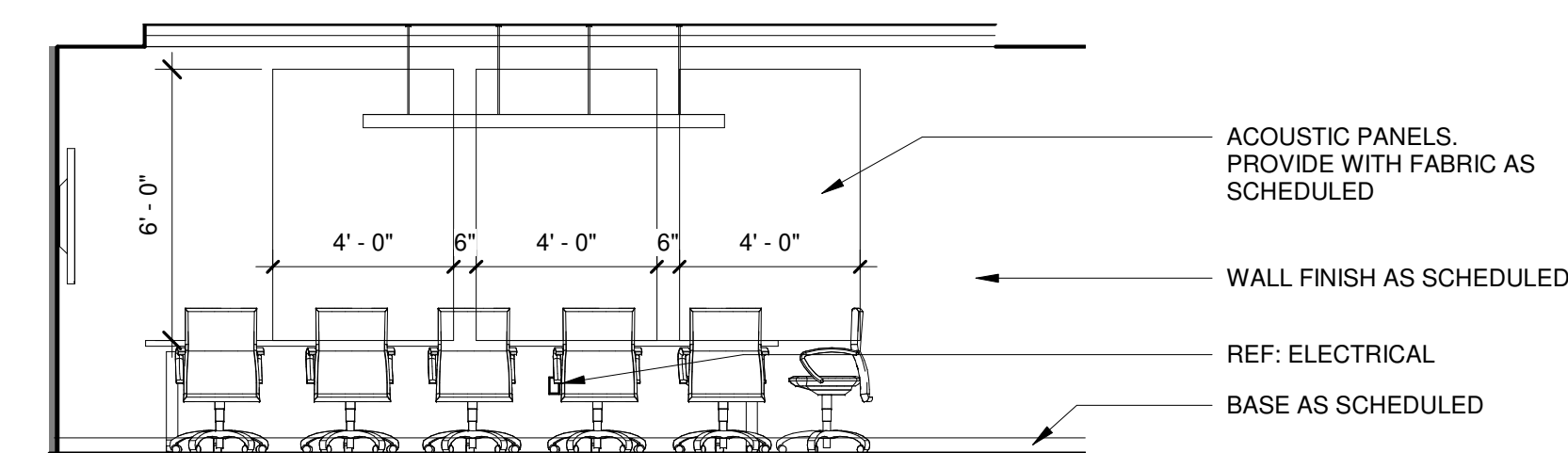
16 EL. 'E' BREAKROOM B-37
1/4" = 1'-0"



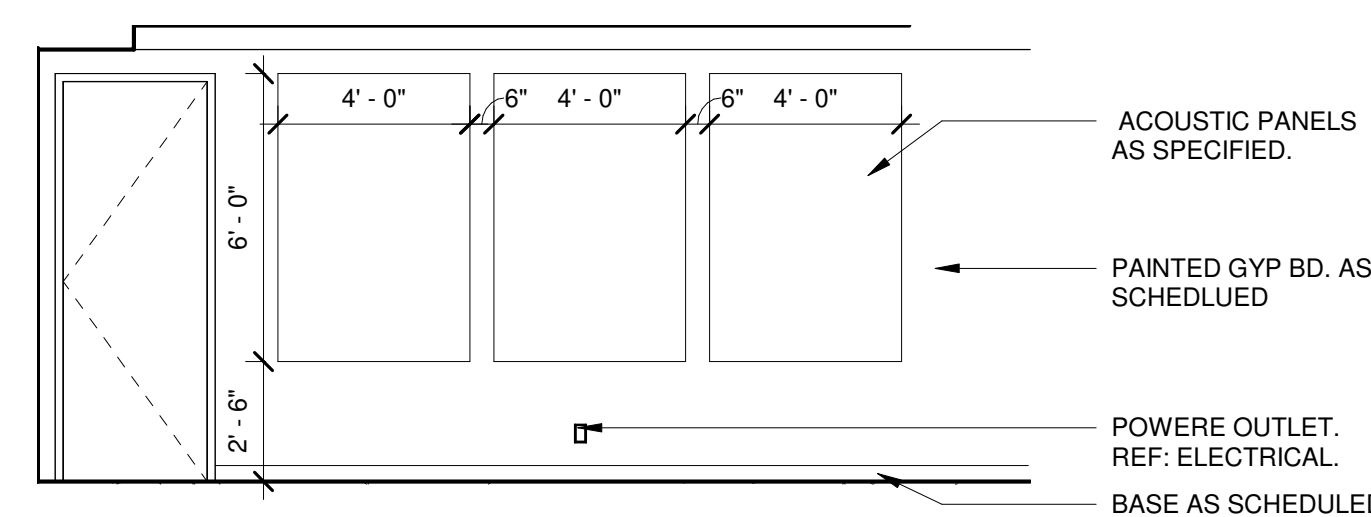
17 EL. 'F' BREAKROOM B-37
1/4" = 1'-0"



13 EL. 'A' CONFERENCE ROOM B-38
1/4" = 1'-0"



14 EL. 'B' CONFERENCE ROOM B-38
1/4" = 1'-0"



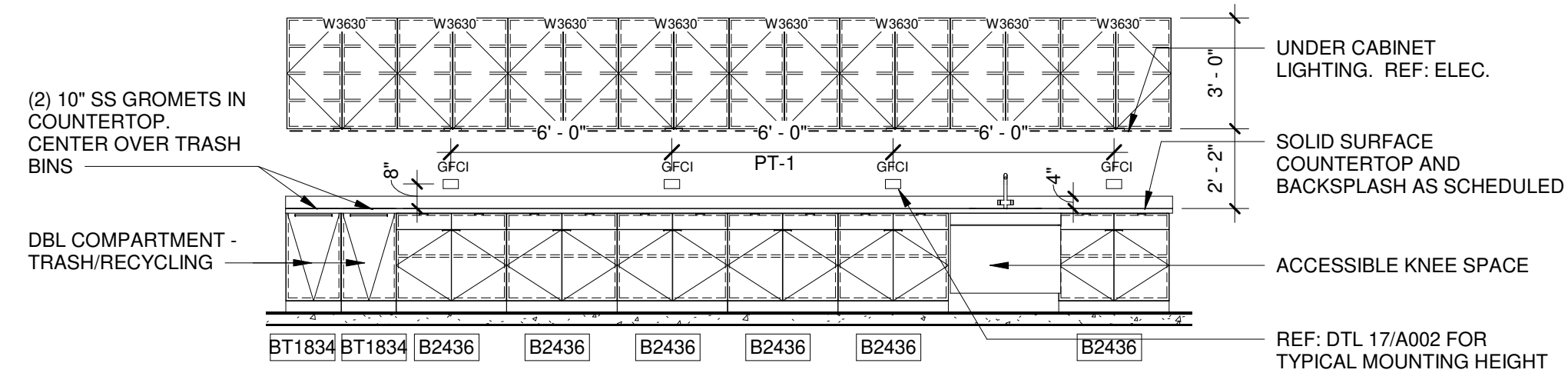
15 EL. 'D' CONFERENCE ROOM B-38
1/4" = 1'-0"

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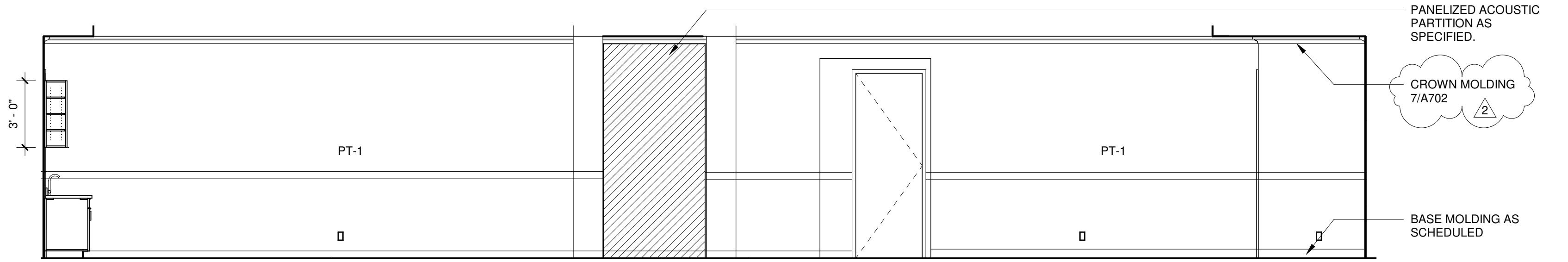


Revision	Date	Seal / Signature
1	11/02/2019	
2	12/02/2019	
1	ISSUED FOR BID	
2	APPENDIX 001	

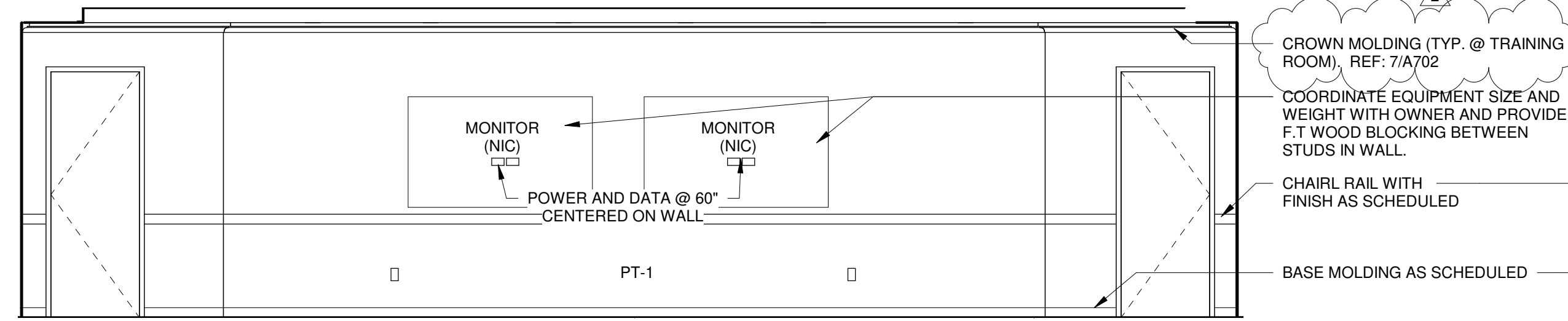
INTERIOR ELEVATIONS



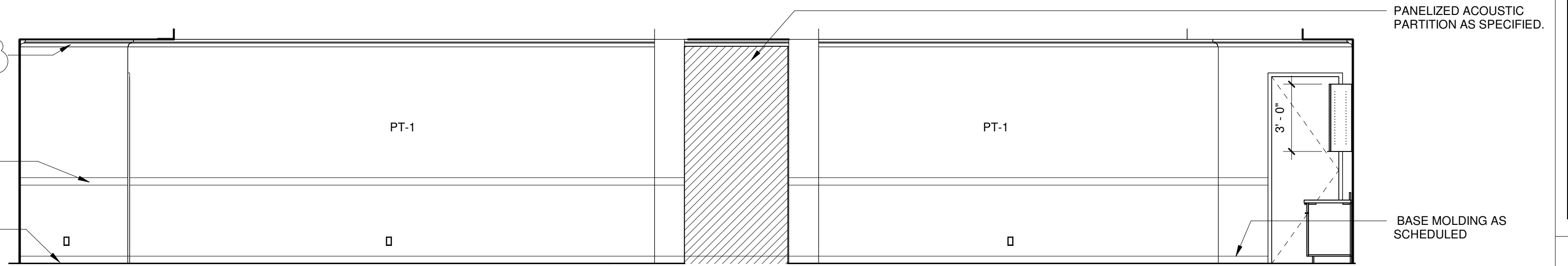
1 AL. 'A' TRAINING ROOM B-42
1/4" = 1'-0"



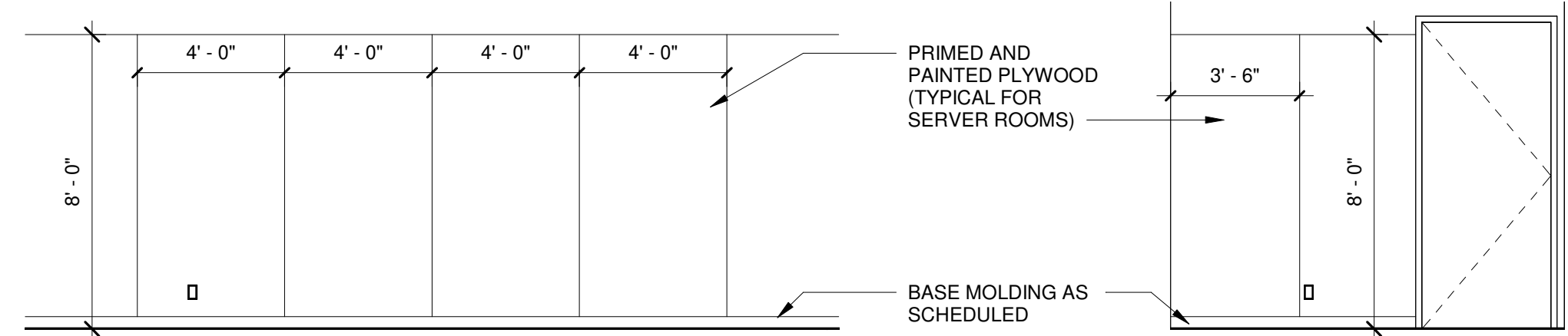
2 EL. 'B' TRAINING ROOM B-42
1/4" = 1'-0"



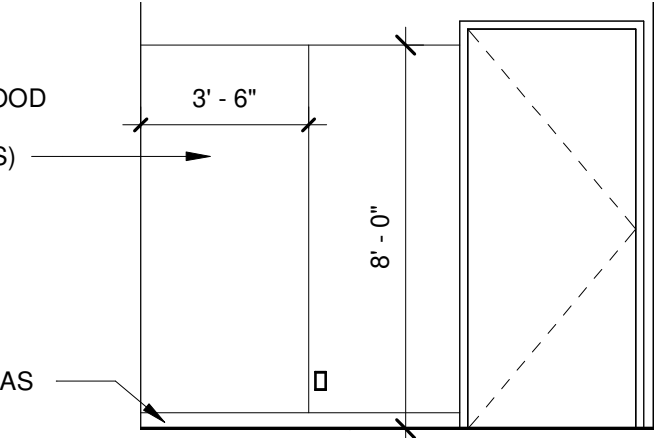
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1/4" = 1'-0"



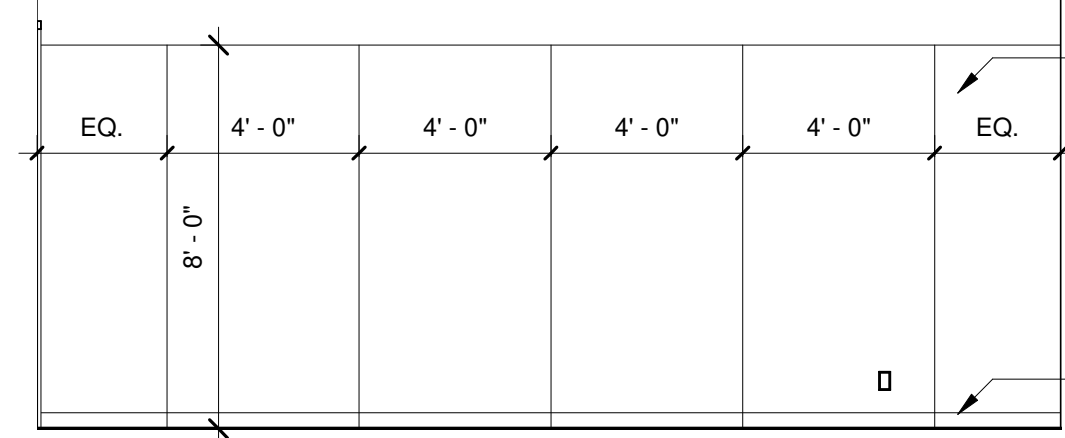
4 EL. 'D' TRAINING ROOM B-42
1/4" = 1'-0"



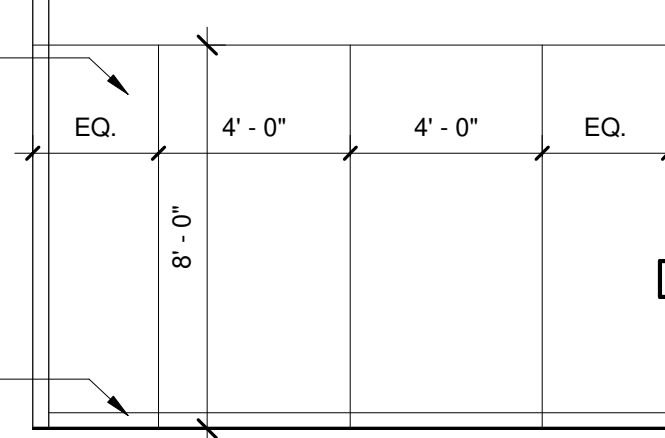
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1/4" = 1'-0"



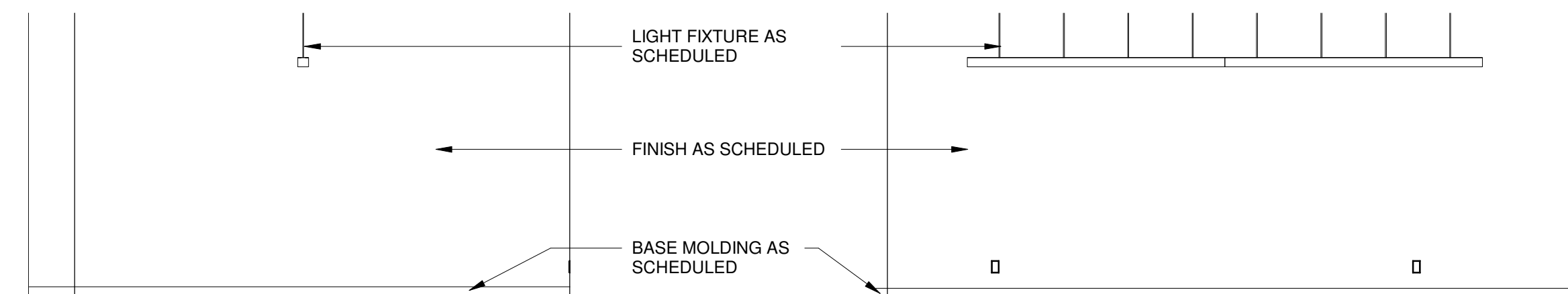
6 EL. 'B' SECURE SRVR. RM B-46
1/4" = 1'-0"



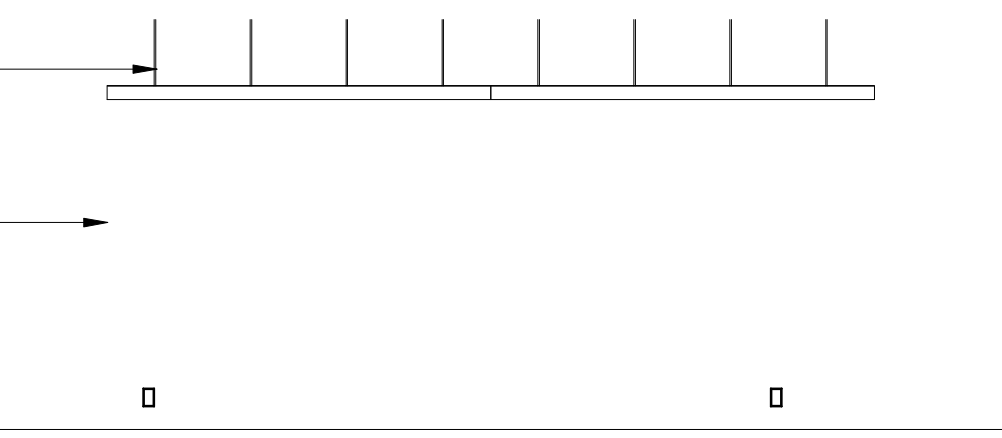
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1/4" = 1'-0"



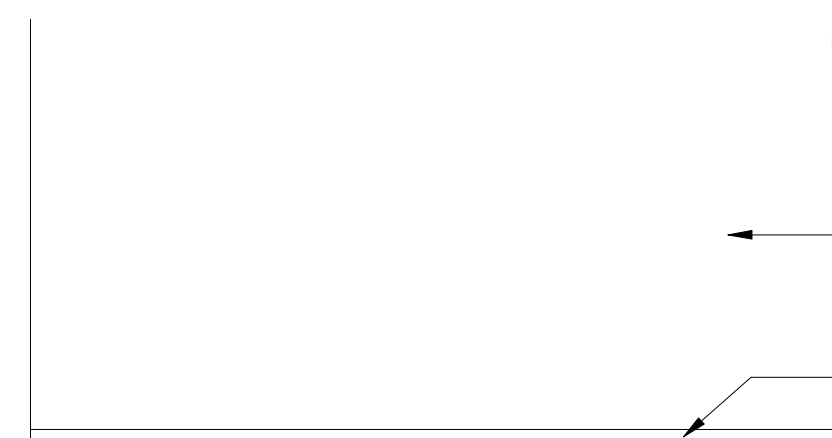
8 EL. 'D' SECURE SRVR. RM B-46
1/4" = 1'-0"



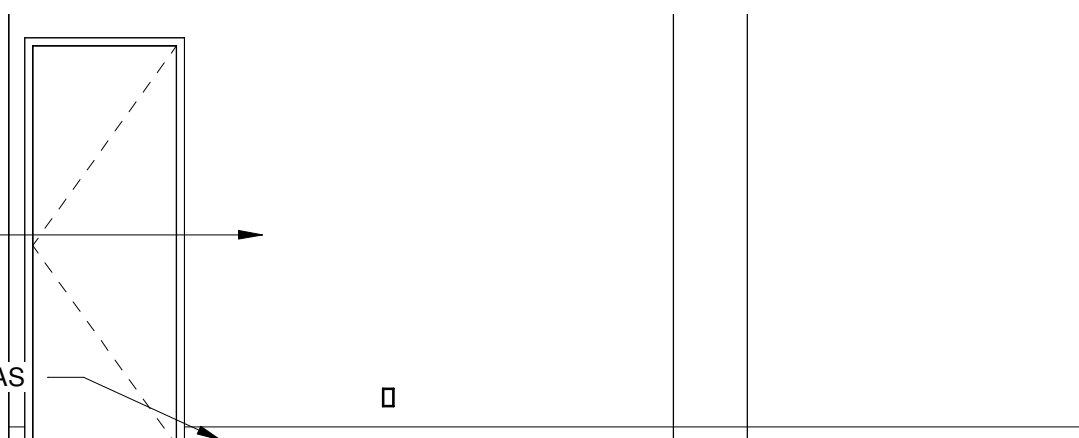
9 EL. 'A' CONFERENCE ROOM B-49
1/4" = 1'-0"



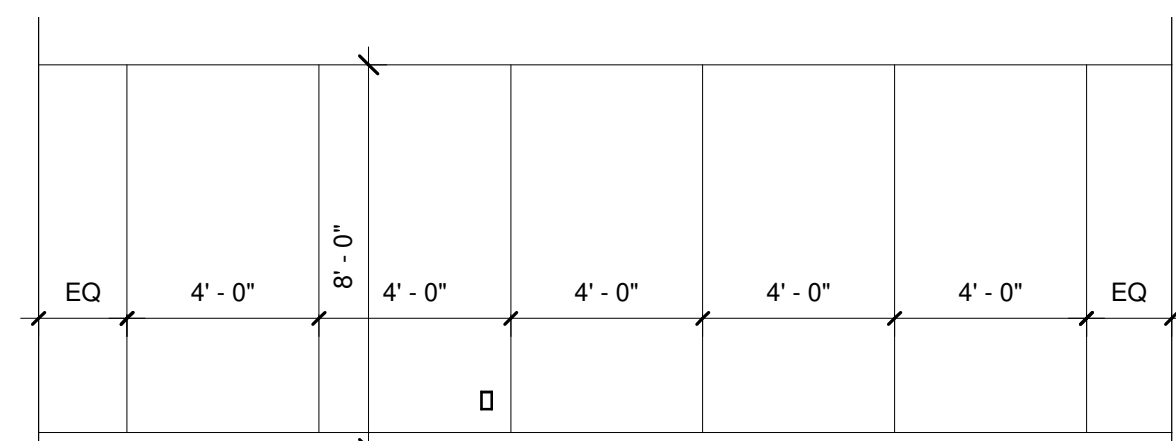
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1/4" = 1'-0"



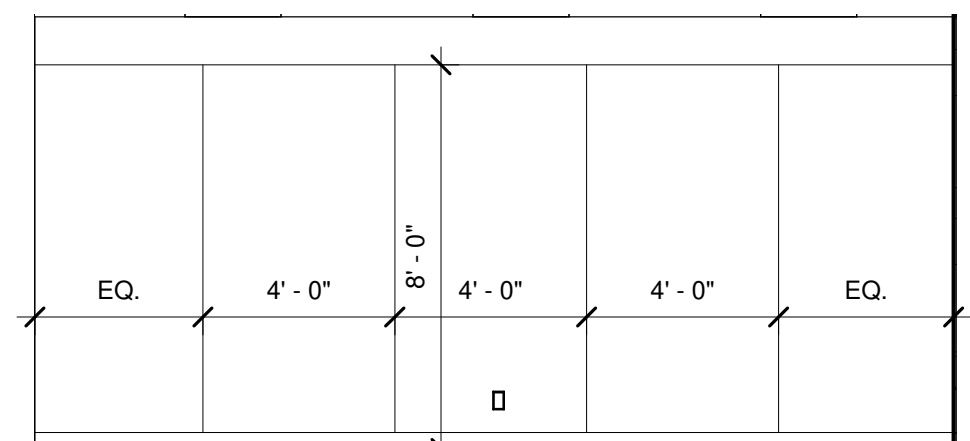
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1/4" = 1'-0"



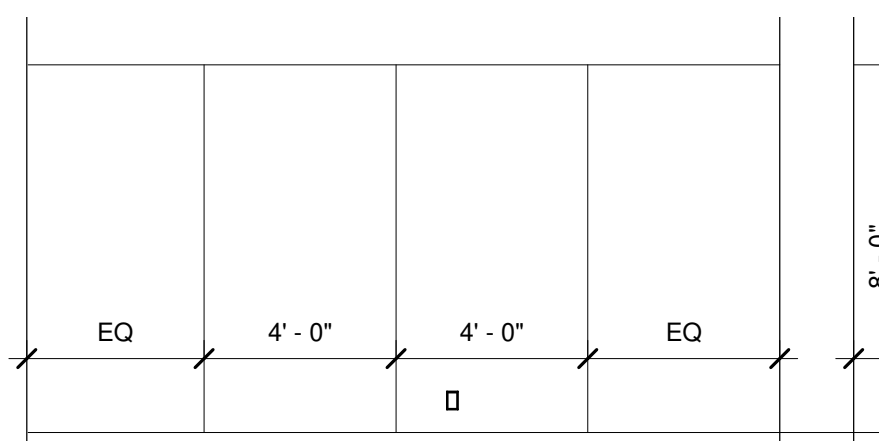
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1/4" = 1'-0"



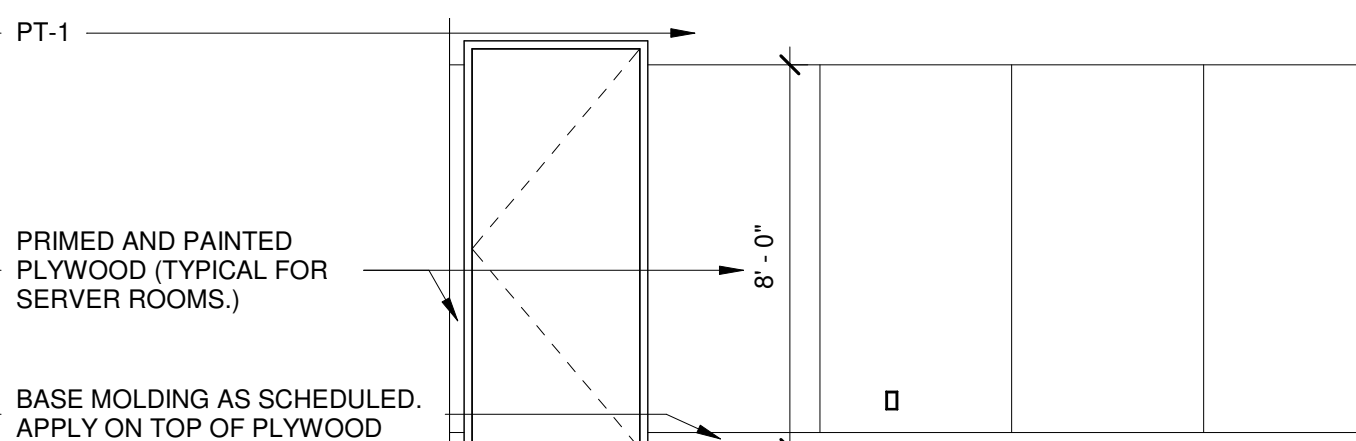
13 EL. 'A' SERVER ROOM B-54
1/4" = 1'-0"



14 EL. 'B' SERVER ROOM B-54
1/4" = 1'-0"



15 EL. 'C' SERVER ROOM B-54
1/4" = 1'-0"



16 EL. 'D' SERVER ROOM B-54
1/4" = 1'-0"

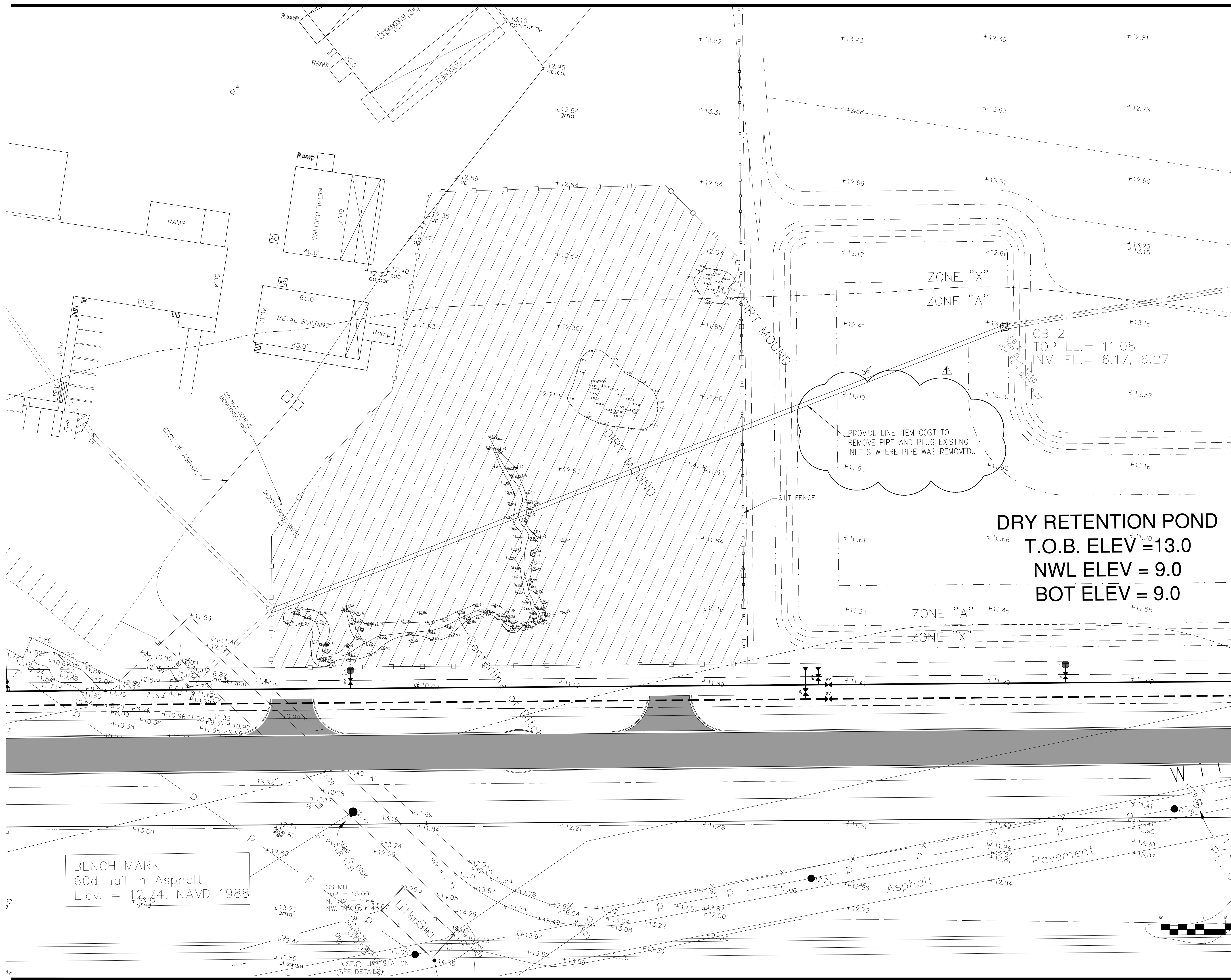
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REGULATORY REVIEW OR
APPROVAL.

Revision	Date	Seal / Signature
1 ISSUED FOR BID	11/20/2019	
2 ADDENDUM 001	12/02/2019	

**INTERIOR
ELEVATIONS**



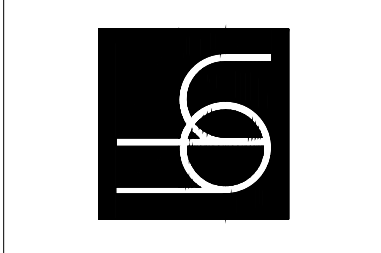
SHEET NOTES



GENERAL NOTES

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11/20/2019	1 ISSUED FOR BID	
12/10/2019	ADDENDUM 1	

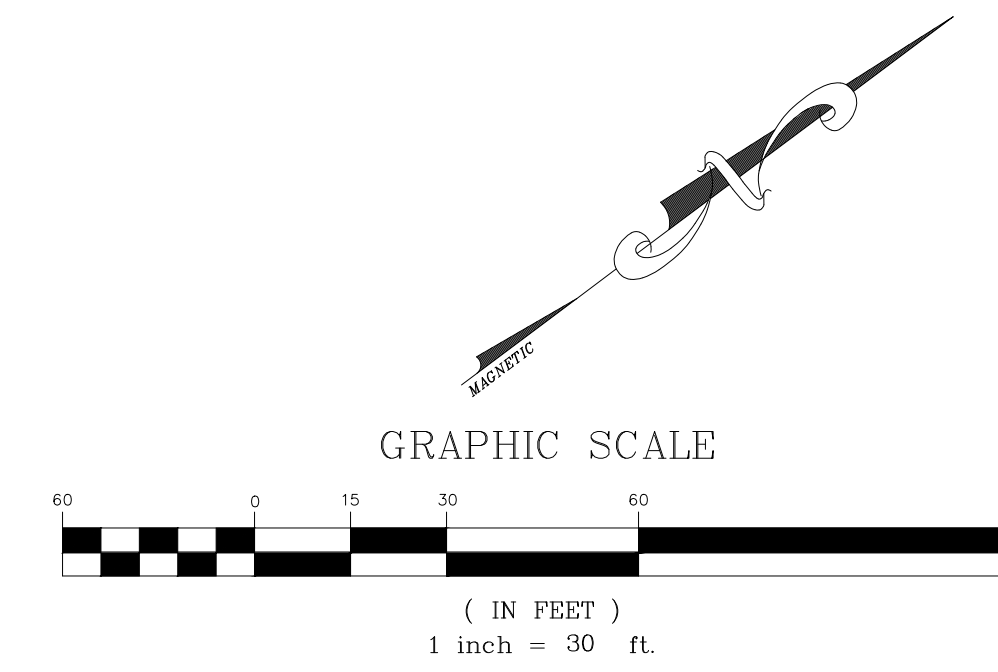
LIMITS OF CLEARING

DATE: 01/23/19
 D.B.: MMA
 C.B.: DSS
 JOB NO.: 17072

C-1.0

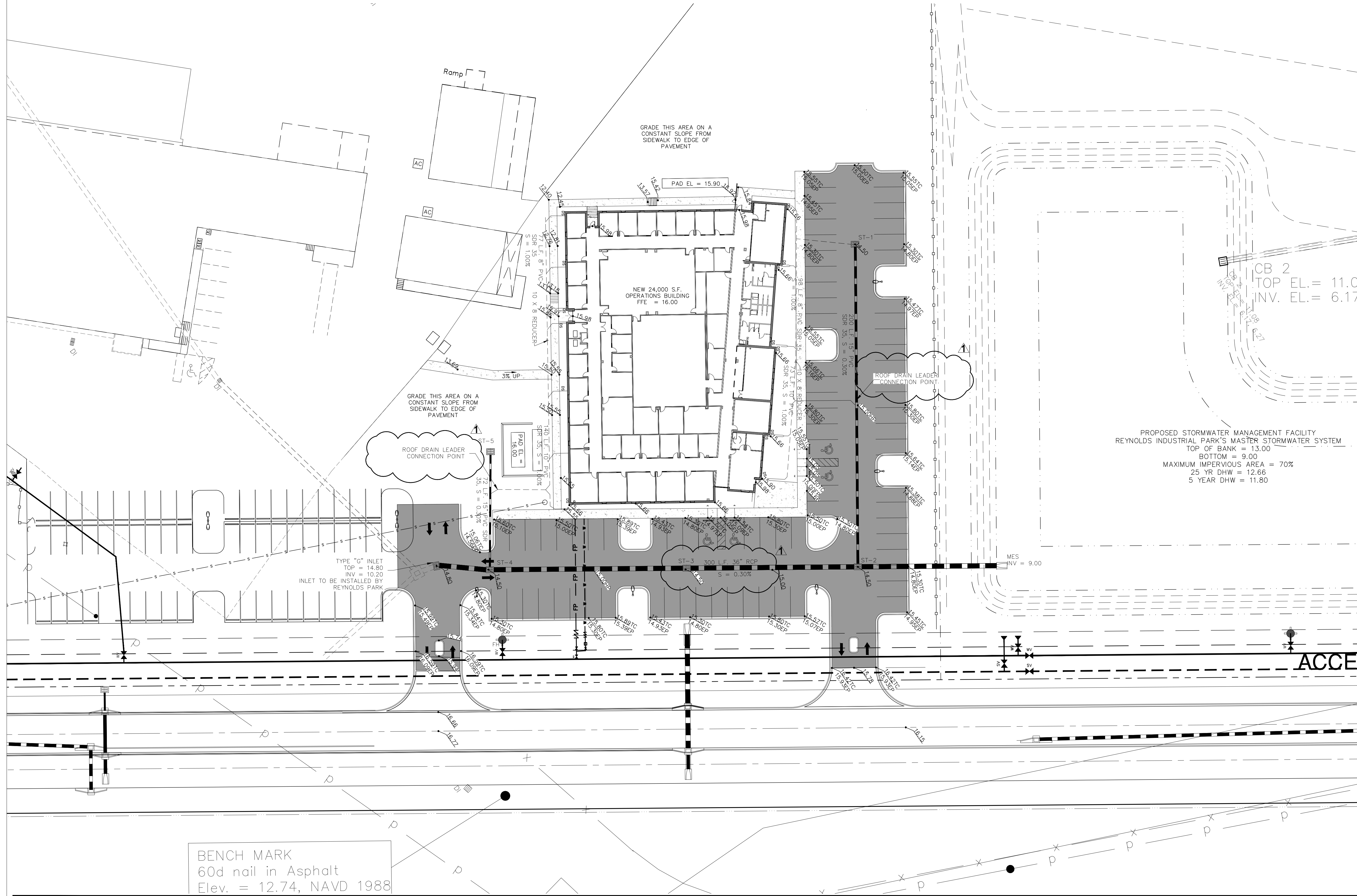
STRUCTURES TABLE

STRUCTURE	TYPE	GRATE EL	INVERTS
ST-1	TYPE "C"	14.50	INV = 11.00 (15" E)
ST-2	TYPE "E"	14.50	INV = 9.30 (36" NE & SW) INV = 10.40 (15" W)
ST-3	TYPE "E"	14.50	INV = 10.10 (36" NE & SW)
ST-4	TYPE "C"	14.50	INV = 10.40 (36" NE & SW) INV = 11.40 (15" W)
ST-5	TYPE "C"	14.50	INV = 11.61 (15" E)



SHEET NOTES

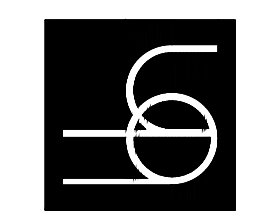
SITE CALCULATIONS:
 TOTAL AREA: 2.09 AC
 IMPERVIOUS AREA:
 24,156 S.F. BUILDING
 34,434 S.F. PAVEMENT
 5,173 S.F. SIDEWALK
 63,763 S.F. TOTAL (1.46 AC)
 % IMPERVIOUS = 70
 CN CALCULATIONS:
 IMPERVIOUS AREA CN = 98
 GREEN SPACE CN = 61
 SITE CN = 86.85



GENERAL NOTES

1. CONNECT ROOF DRAIN LATERALS TO STOM PIPES USING "WYE" CONNECTION AT LOCATION SHOWN ON PLANS.

PROPOSED STORMWATER MANAGEMENT FACILITY
 REYNOLDS INDUSTRIAL PARK'S MASTER STORMWATER SYSTEM
 TOP OF BANK = 13.00
 BOTTOM = 9.00
 MAXIMUM IMPERVIOUS AREA = 70%
 25 YR DHW = 12.66
 5 YEAR DHW = 11.80



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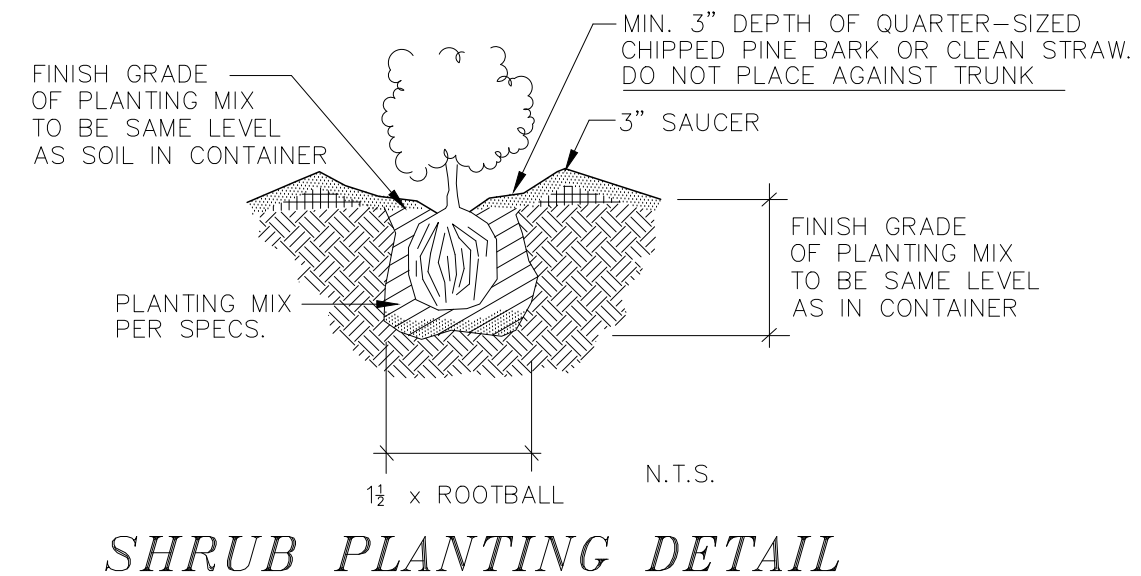
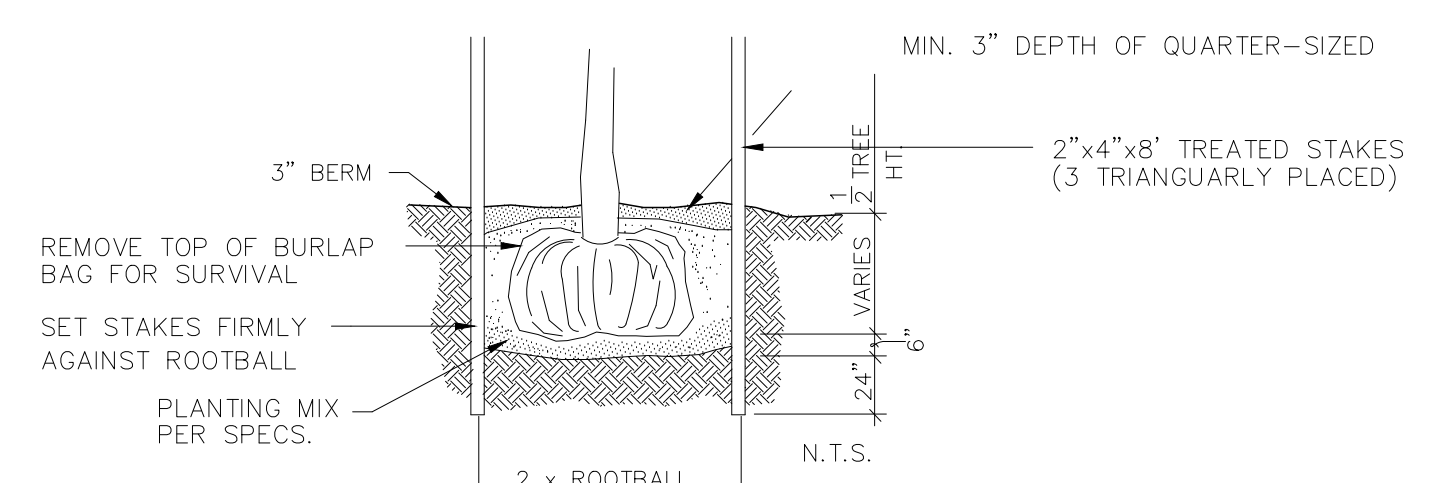
GRADING & DRAINAGE PLAN

PERIMETER LANDSCAPE	
L.F. OF PERIMETER	1169 L.F.
REQUIRED PLANTING: 1 TREE/50'	
TOTAL TREES REQUIRED	23
NEW TREES PROVIDED	23
	QTY.
AMERICAN ELM - CANOPY	9 3"
MAGNOLIA - CANOPY	7 3"
LAUREL OAK - CANOPY	2 3"
CHINESE ELM - UNDERSTORY	5 2"
TOTAL CANOPY TREES	23

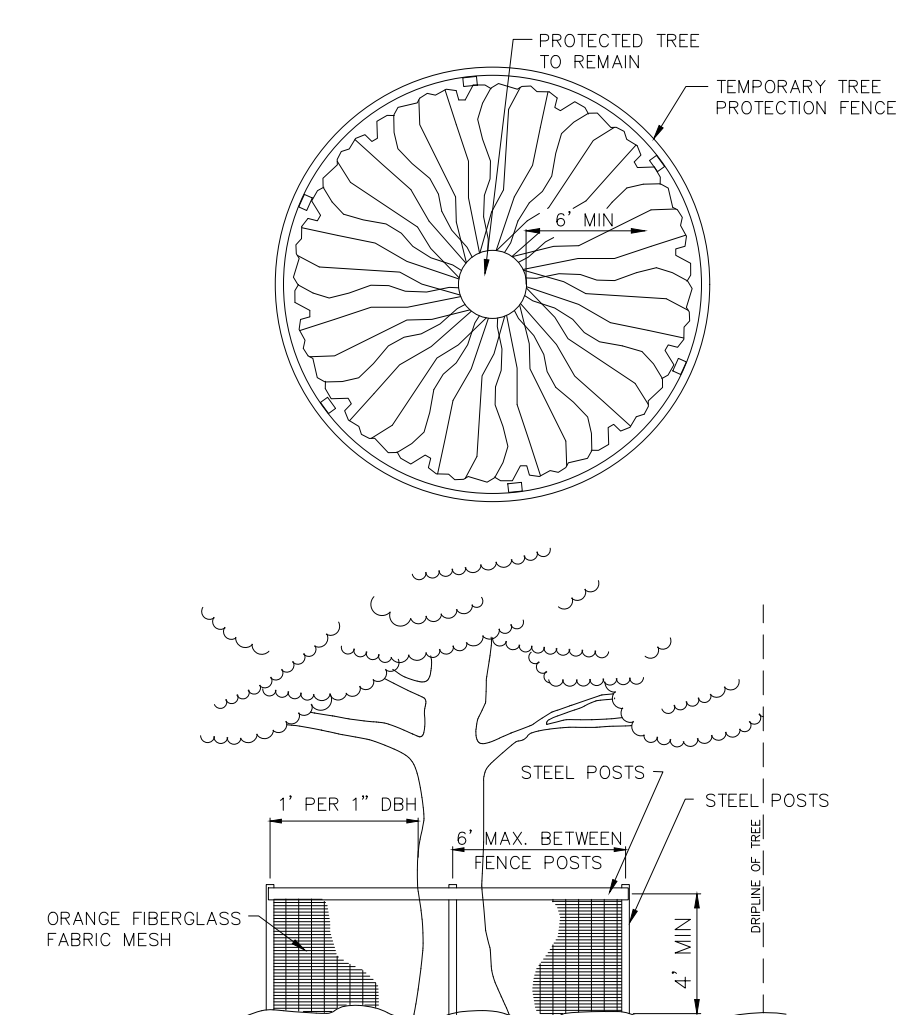
VUA LANDSCAPE	
VUA = 34,434 S.F.	
10% OF VUA = 3443 S.F.	
TOTAL VUA LANDSCAPE PROVIDED = 3944 S.F.	
NEW TREES PROVIDED	16 (12 SHADE, 4 UNDERSTORY)
	QTY.
AMERICAN ELM - CANOPY	3 3"
SOUTHERN MAGNOLIA - CANOPY	3 3"
LAUREL OAK - CANOPY	5 3"
CHINESE ELM - UNDERSTORY	3 2"
INDIAN HAWTHORN SHRUBS	75

LANDSCAPE SCHEDULE

TREES	KEY	SYMBOL	BOTANICAL/COMMON NAME	SPECIFICATION	WATER ZONE
7	QH		Quercus Hemisphaerica (Laurel Oak-Canopy)	3" Cal., Min. 10' Ht., Straight-Trunked	M , L
10	MG		Magnolia grandiflora & cultivar (Southern Magnolia-Canopy)	3" Cal., Min. 6' Ht., Straight-Trunked	L
8	UP		Ulmus parvifolia (Chinese Elm - Understory)	12' High, 2" Caliper Straight-Trunked	H , M
12	UA		Ulmus americana (American Elm-Canopy)	12' High, 3" Caliper, Straight-Trunked	M , L
75	RI		Raphiolepis indica (Indian Hawthorn)	24" High, 2.5' O.C. Plant in groups of 5	M , L



TREE PLANTING DETAIL



TREE PROTECTION DETAIL

- DURING DEVELOPMENT ACTIVITIES, ENCROACHMENT INTO THE UNDISTURBED ARE FOR THE FOLLOWING PURPOSES MAY BE PERMITTED UP TO TWENTY-FIVE PERCENT OF THE RADIUS OR UP TO FIFTY PERCENT OF THE RADIUS ON ONE SIDE BUT NO CLOSER THAN SIX FEET TO THE TRUNK OF THE PROTECTED TREE IN ALL EVENTS:
 - TUNNEL, UTILITY AND IRRIGATION LINE
 - SODDING AND GROUND COVER
 - PAVEMENT UP TO A DEPTH OF SIX INCHES IN DEPTH AND NO LESS THAN FOUR FEET FROM THE TRUNK OF THE TREE.
- ELEVATIONS CHANGES AROUND PROTECTED TREE IS NOT PERMITTED WITHIN PROTECTION BARRIER.
- PRIOR TO CLEARING, TEMPORARY BARRIERS SHALL BE INSTALLED AROUND EXISTING TREES TO REMAIN, UNTIL THE COMPLETION OF THE WORK.
- ANY TREE PRUNING SHALL BE CONDUCTED ACCORDING TO THE NATIONAL ARBORIST ASSOCIATION STANDARDS SET FORTH IN ANSI A300 (PART 1) - 2001 TREE PRUNING DOCUMENT.
- TREE BRANCHES EXTENDING OVER ANY PUBLIC SIDEWALK SHALL BE TRIMMED TO EIGHT (8) FEET ABOVE THE SIDEWALK FOR PEDESTRIAN CLEARANCE/VISIBILITY.
- TREE BRANCHES EXTENDING OVER THE TRAVEL PORTION OF ANY PUBLIC STREET OR ALLEY USED FOR VEHICULAR TRAFFIC SHALL BE TRIMMED TO A HEIGHT OF FIFTEEN (15) FEET FOR VEHICULAR CLEARANCE AND/OR SITE VISIBILITY.
- RETAINED/PRESERVED TREES SHALL NOT BE TOPPED OR SEVERELY PRUNED, SO AS TO APPEAR STUNTED. TREES SHALL BE PRUNED, AS NEEDED, TO MAINTAIN HEALTH AND OVERALL TREE FORM IN SUCH A WAY THAT RETAINS OR IMPROVES NATURAL FORM OF THE PARTICULAR SPECIES.
- NO MATERIALS, TRAILERS, EQUIPMENT, OR CHEMICALS SHALL BE STORED, OPERATED, DUMPED, BURIED, OR BURNED WITHIN PROTECTED TREE AREAS.
- NO ATTACHMENT, WIRES (OTHER THAN PROTECTIVE GUY WIRES), SIGNS, OR PERMITS SHALL BE ATTACHED TO THE TREE.
- ANY DAMAGE TO TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY AFTER DAMAGE OCCURS.

TREE PRUNING NOTES:

- ALL TREE PRUNING SHALL BE CONDUCTED ACCORDING TO THE STANDARDS OF THE NATIONAL ARBORIST ASSOCIATION STANDARDS, SET FORTH IN ANSI A300 (PART 1) - 2001 TREE PRUNING DOCUMENT. 2. TREES INSTALLED OR RETAINED SHALL NOT BE TOPPED OR SEVERELY PRUNED, SO AS TO APPEAR STUNTED. TREES SHALL BE PRUNED, AS NEEDED, TO MAINTAIN HEALTH AND OVERALL TREE FORM IN SUCH A WAY THAT RETAINS OR IMPROVES THE NATURAL FORM OF THE PARTICULAR SPECIES; PROVIDED, TOPIARY MAY BE PRACTICED UPON SUITABLE SPECIES IF PROFESSIONALLY AND CONSISTENTLY MAINTAINED. 3. THE BRANCHES OF A TREE EXTENDING OVER ANY PUBLIC SIDEWALK(S) SHALL BE TRIMMED TO AT LEAST THE HEIGHT OF EIGHT FEET ABOVE THE SIDEWALK. THE BRANCHES OF A TREE EXTENDING OVER THE TRAVEL PORTION OF ANY PUBLIC STREET OR ALLEY USED FOR VEHICULAR TRAFFIC SHALL BE TRIMMED TO THE HEIGHT OF AT LEAST FIFTEEN FEET ABOVE THE STREET OR ALLEY FINISHED GRADE.

IRRIGATION NOTES:

- PER CLAY COUNTY CODE: A STATE CERTIFIED/REGISTERED PLUMBER OR A STATE REGISTERED IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERMITTING OF AN AUTOMATED UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE STANDARD PLUMBING CODE. MOISTURE SENSOR AND/OR RAIN GAUGE EQUIPMENT SHALL BE REQUIRED PER STATE LAW. THE USE OF LOW VOLUME, EMITTER OR TARGET IRRIGATION IS PREFERRED FOR TREES, SHRUBS AND GROUND COVERS. THE MANUAL/AUTOMATIC TIMER CONTROLLING THE IRRIGATION SYSTEM SHALL BE SET TO CONFORM TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT'S WATER USE CONSTRAINTS.
- RETAINED TREES, SHRUBS AND NATIVE PLANT COMMUNITIES NEED NOT BE IRRIGATED, UNLESS DIRECTED TO DO SO BY THE LANDSCAPE REVIEWER, AS PART OF AN ENCROACHMENT PERMIT.
- TURF GRASS AREAS SHALL BE IRRIGATED ON SEPARATE IRRIGATION ZONES FROM TREE, SHRUB AND GROUNDCOVER BEDS PER CLAY COUNTY CODE.
- NO SIGNIFICANT IRRIGATION OVERTHROW SHALL BE ALLOWED ONTO IMPERVIOUS SURFACES.
- THE USE OF A LOW VOLUME, EMITTER OR TARGET IRRIGATION IS PREFERRED FOR TREES, SHRUBS, AND GROUND COVER.
- ALL COMPONENTS SHALL BE LOCATED A MINIMUM OF 18" AWAY FROM ANY TYPE OF STRUCTURAL WALL WITH HEADS SET AWAY FROM SUCH. INSPECTION AND GUARANTEE.
- ALL PLANTING WORK INCLUDING SHRUBS, TREES, GRASS, AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF OWNER'S OR LANDSCAPE ARCHITECT'S ACCEPTANCE. REPLACEMENT SHALL BE MADE IMMEDIATELY AND REPLACED MATERIALS SHALL BE SUBJECT TO GUARANTEE FOR ONE (1) FULL YEAR FROM DATE OF REPLACEMENT. THE CONTRACTOR'S PERFORMANCE OF WORK SIGNIFIES HIS AGREEMENT AND CONCURRENCE TO PERFORMANCE IN ACCORDANCE WITH THE DRAWINGS, PLANT SCHEDULE, AND THESE SPECIFICATIONS. 2. OWNER/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT, REJECT, AND/OR ACCEPT ANY OR ALL PARTS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL BE ENTITLED TO FULL PAYMENT ONLY AFTER THE OWNER/LANDSCAPE ARCHITECT HAS BEEN SATISFIED FULLY AND COMPLETELY.

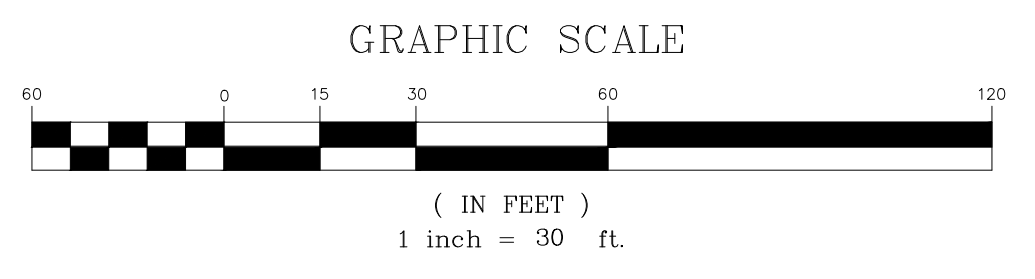
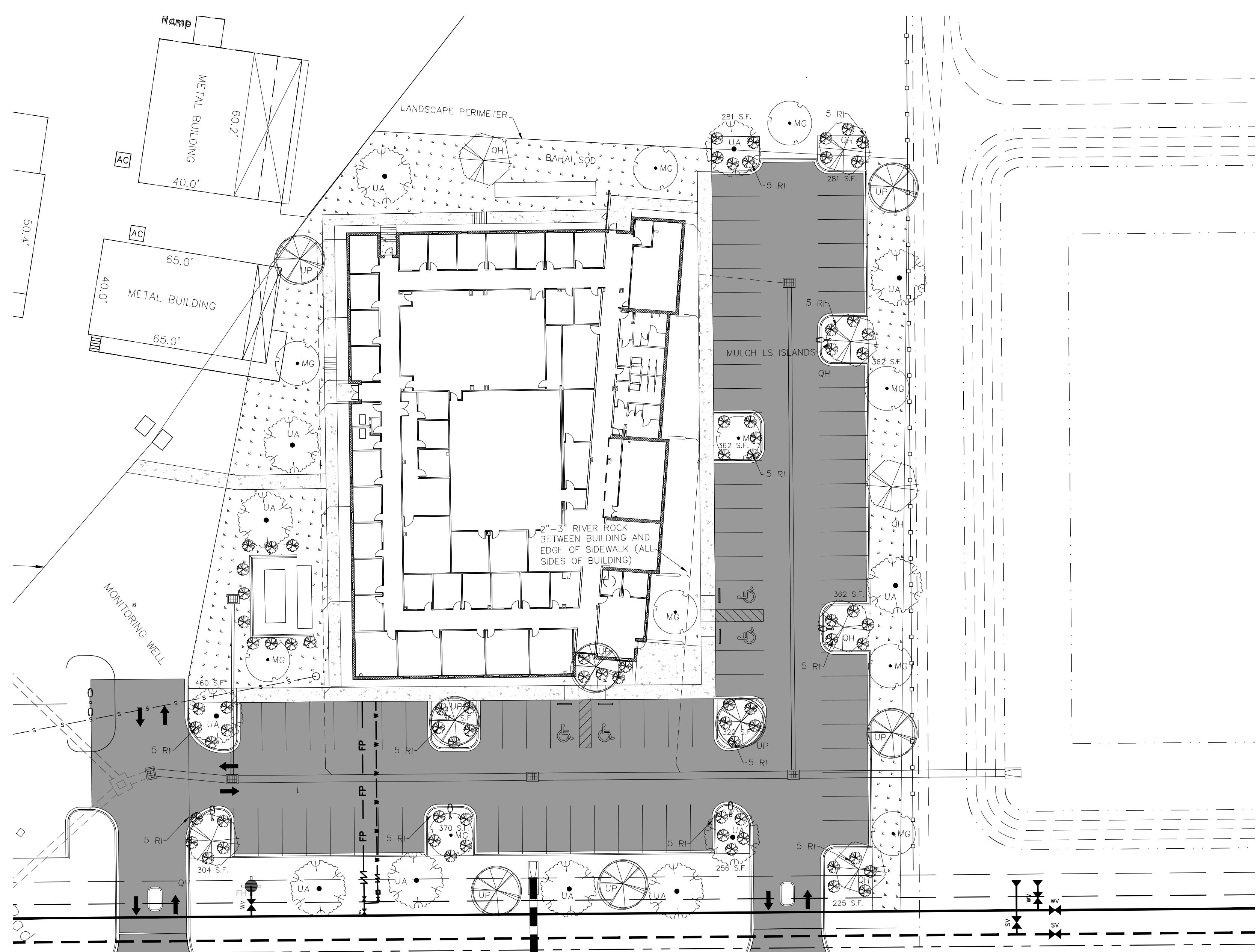
LANDSCAPE CONTRACTOR NOTE:

- ALL LARGE TREES SHALL BE INSTALLED A MINIMUM DISTANCE OF 10' AWAY FROM ANY UNDERGROUND UTILITY LINES, PER ACCEPTANCE OF INSTALLATION BY CLAY COUNTY UTILITY AUTHORITY.
- ALL LARGE CANOPY TREES SHALL BE INSTALLED A MINIMUM DISTANCE OF 5 FEET 6 INCHES AWAY FROM ANY CONCRETE CURB, SIDEWALK OR ANY OTHER HARDSCAPE SITE ELEMENT FOR ACCEPTANCE BY COUNTY LANDSCAPE REVIEWER.
- ALL UNDERSTORY TREES SHALL BE INSTALLED A MINIMUM DISTANCE OF 3 FEET AWAY FROM ANY CONCRETE CURB, SIDEWALK OR ANY OTHER HARDSCAPE SITE ELEMENT FOR ACCEPTANCE BY COUNTY LANDSCAPE REVIEWER.
- CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1 (800) 432-4770 TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY DIGGING ON SITE.
- OWNER TO HAVE A LICENSED IRRIGATION CONTRACTOR INSTALL ADEQUATE IRRIGATION. PLEASE PROVIDE CLAY COUNTY THE IRRIGATION CALCULATION AT TIME OF DESIGN.

BIO-BARRIER ROOT CONTROL NOTE:
THE C.C.U.A. REQUIRES THE INSTALLATION OF THE BIO-BARRIER ROOT CONTROL PRODUCT IN ORDER TO PROTECT ANY OF THEIR UTILITY LINES THAT ARE LOCATED LESS THAN 10 FEET FROM ANY PROPOSED TREES. LANDSCAPE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTALLATION GUIDELINES.

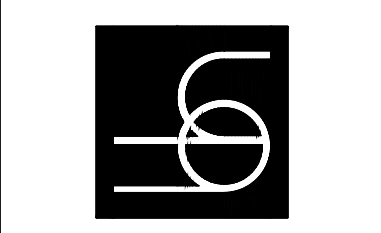
THIS PRODUCT IS MANUFACTURED & MARKED BY:
BBA NONWOVENS, REEMAY, INC. 70 OLD HICKORY BLVD.,
OLD HICKORY, TENNESSEE 37138-3651, (800) 284-2780.
EMAIL: BEDDING@REEMAY.COM, WEBSITE: WWW.BIOBARRIER.COM

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MICHELE AGEE

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Date	Revision
1/12/2019	1 ISSUED FOR BID

LANDSCAPE PLAN

DATE: 01/23/19
D.B.: MMA
C.B.: DSS
JOB NO.: 17072

L-1.0