Georgia Tech

Signage Standards and Guidelines

Exterior Sign System

Updated December 19, 2024

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
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DRAWING SHEET
SG.001

Principal-In-Charge:
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CB/PN
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Drawn by:
CB
File Path:
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1 / SG.002 Project Arrow(Use arrows only in the configurations above)

SCALE: NTS

Accessible

Parking

2 / SG.002 Project Pictograms

SCALE: NTS

3 / SG.002 Project Logo 1 - Standard Logo

SCALE: NTS

4 / SG.002 Project Logo 2 - Full Logo for Primary Building ID

SCALE: NTS

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PROJECT DATA

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TITLE

Project Symbols & Logos

DRAWING SHEET

SG.002

Principal-In-Charge:
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Drawn by:
CB

File Path:
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P PAINT SPECIFICATIONS

P1
MATTHEWS PAINT
SOA202SP NATURAL
WHITE

P2
MATTHEWS PAINT
MP51300 LEAD

P3
PAINT TO MATCH
PI MILE
PANTONE 427C

P4
Paint to match
TECH NAVY
PANTONE 540C

P5
Paint to match
PANTONE BLACK C
SW-6258 TRICORN BLACK

P6
PAINT TO MATCH
GEORGIA TECH BRONZE TONE
(SW-7048 URBANE BRONZE)

P7
Paint to match
TECH GOLD
PANTONE 4515C

P8
Paint to match
PANTONE 422C
SW-7059 Unusual Gray

P9
Paint to match
PANTONE 7541tC
SW-7056 Reserved White

P10
Paint to match
PANTONE 425C
SW-7061 Night Owl

P11
Paint to match
PANTONE 2727C
SW-9962 Dazzle

P12
Paint to match
PANTONE 374C
SW-6920 Center Stage

P13
Paint to match
PANTONE 265C
SW-6831 Clematis

P14
Paint to match
PANTONE 284C
SW-6794 Flyway

P15
Paint to match
PANTONE 1635C
SW-6878 Animated Coral

P16
Paint to match
PANTONE Cool Gray 5C
SW-7066 Gray Matters

P17
Paint to match
PMS 7462C
SW-6804 Dignity Blue

P18
POWDER-COAT TO MATCH
GEORGIA TECH BRONZE TONE
(SW-7048 URBANE BRONZE)

P19
Paint MATTHEWS MP30136
BRUSHED ALLUMINUM

NOTE:
1. Apply clear coat, satin finish, with UV protection to all sides of all exterior signs.
2. Colors P11-P15 are not for general use. They represent district color on sign type XI and XJ only.

M MATERIAL AND FINISHES SPECIFICATIONS

M1
3M OPAQUE GRAPHIC FILMS
BLACK
7725-12, 7125-12

M2
3M OPAQUE GRAPHIC FILMS
INTENSE BLUE
7725-47, 7125-47

M3 (PRINTED VINYL)
3M SCOTCHCAL GRAPHIC FILMS
IJ3650-10
3M SCOTCHCAL MATTE
OVERLAMINATE 8520
PRINTED WITH UV RESISTANT INKS

M4
3M OPAQUE GRAPHIC FILMS
PAINT TO MATCH
TECH NAVY PANTONE 540C

M5
BRUSHED ALUMINUM
HORIZONTAL GRAIN
FINISH

M6
CUSTOM HIGH
PRESSURE LAMINATE

M7
.1875“ ACRYLIC COPY, PAINTED
AS SHOWN ON INDIVIDUAL
DRAWING SHEETS.

M8
.250" THICK WHITE
TRANSLUCENT ACRYLIC
#7328

M9
.250" THICK WHITE
TRANSLUCENT LEXAN

M10
VINYL TO MATCH 3M GOLD NUGGET
3630-141

M11
VINYL TO MATCH 3M DARK GRAY
7725-41

1 / SG.003 Project Paint Colors and Finishes
SCALE: NTS

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

T1 DIN 2014 Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

T2 DIN 2014 Regular

2 / SG.003 Project Typeface(s)
SCALE: NTS

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

T3 DIN 2014 Demi

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TITLE
Project Colors & Finishes & Typeface

DRAWING SHEET
SG.003

Principal-In-Charge:
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SECTION 10400 - SPECIFICATIONS

PART 1 GENERAL

1.1 RELATED DOCUMENTS:

Drawings and general provisions of Contract or purchase agreement, including General and Supplementary Conditions and Division 1 Specifications sections (Refer to architectural specifications and contract requirements for this project which are part of the architectural construction documents), apply to this section. The work covered in this section consists of providing signs and graphics as shown in the drawings or where scheduled and comprising the interior and exterior sign systems. Contract Documents consist of the drawings, including any supplementary engineering drawings, specific product/manufacturer drawings, the sign locations plans, and the message schedule adjoining this specification section 10400. Any general provisions of Contract, including General and Supplementary Conditions, Division 1 Specifications sections, as applicable to this section, would also be considered as part of the contract documents.

1.2 PROPRIETARY RIGHTS:

All proprietary rights in the subject matter of the material in the ac-companing drawings, descriptions and specifications, and rights to the material itself are reserved to the submitter's use. Reproduction, loaning or transmitting of the descriptions, specifications or drawings without consent in writing of the Architect is not permitted. Acceptance of the specifications and drawings denotes acceptance of these conditions.

1.3 SUBMITTALS:

The following outlines submittal requirements unique to this section of the work, especially shop drawing content and samples: Other requirements from Division 1, Shop Drawings and Submittals section would apply (Refer to architectural specifications and contract requirements for this project which are part of the architectural construction documents).

A. Shop drawings:

1. Submit complete shop drawings for manufactured and fabricated items. Indicate materials, layouts, sizes, methods, finishes, footings and anchorage devices, connections and other details of construction, as well as the relation to supporting and adjacent work where applicable. Identify coatings on the shop drawings along with the method of application. Create and confirm layout conditions not shown on the contract documents.

   a. Identify all pre-fabricated products proposed for use.

   b. Indicate manufacturer, brand name, quality and type coating for each surface to be finished or refinished.

   c. Submit complete shop drawings and erection drawings conforming to all current applicable industry standards and local codes. Preparation of shop drawings shall not be sublet without the written permission of Owner. A message schedule and sign layouts with messages is required

   d. After award of contract, but prior to the beginning of detailed shop drawings, submit drawings showing typical details of connections. The Contractor shall arrange to meet with Architect and Owner's representative approxi mately one (1) week after submittal to review drawings and coordinate com ments. The typical details as accepted shall be used to control detail design, shop drawing preparation and approval.

   e. The Contractor shall submit drawings of sign connections and suspension details; computations shall be prepared and checked by a Registered Professional Engineer in Georgia covering all members, connections (welds, bolts, etc.) and footings, indicating such meets the Design Specifications for Sign Structures stress requirements and dead load deflection tolerances, design computations and drawing accuracy.

   f. Specify procedures for the relocation and refinishing of any existing elements and provide a schedule or clearly outlined plan for the logistics associated with these operations.

B. Samples: Submit four samples of each of the following, unless otherwise specified:

1. Finishes:

   a. Submit 4" x 4" samples of each finish specified, this includes those used in re-finishing on site or off site as well as new finishes applied in the shop.

   b. Surface-applied graphics shall be on actual substrate upon which they will appear, thus vinyl materials shall be applied appropriately to both painted and other vinyl backgrounds as specified in the drawings.

   c. Hardware items: Submit samples of each type of anchor, insert or other fastener to be used, these will be returned to Contractor.

C. Prototypes: Submit for review, approval and demonstration of representative craftsmanship one sign unit (or partial sign as indicated) of the following sign types, to be reviewed and retained for comparison at [Insert Name] General Contractor Job Trailer:

1. [To be determined based on project need]
2. [To be determined based on project need]
3. [To be determined based on project need]
4. [To be determined based on project need]
5. [To be determined based on project need]

Prototype samples shall be retained as control samples. Written approvals or comments shall be furnished

D. Maintenance data: Submit maintenance recommendations and instructions for each material used as part of contract close-out. Include recommendations for cleaning procedures, intervals and touch-ups.

E. Scheduling: Submit the final schedule for construction work and installation within ten (10) days of sample approvals. Indicate dates of completion for prototypical units for approval, dates of partial deliveries and total completion. Dates given shall be consistent with the time requirements submitted with the bid.

1.4 DELIVERY, STORAGE AND HANDLING

A. Store materials where directed by Owner or owner's representative.

B. Maintain neat, clean conditions in all building areas; remove trash, rags and waste materials at end of each day's work. Protect the floor and wall surfaces of this space against damage or defacement.

C. Close any open containers at the end of day's work. Leave no materials open.

D. Acrylic and other glazing materials or finish materials with or requiring protective wrapping shall only have this protection removed as required during fabrication and installation and once the area is clear of work or activities which might cause damage to the installed

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North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

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TITLE

SPECIFICATION 10 400

DRAWING SHEET

SG.004

Principal-In-Charge:
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EGD Designers:
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Drawn by:
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File Path:
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work. Care shall be taken in handling surfaces and products to prevent scratching, chipping, or cracking.

E. Protection: Cover finished work of other trades and/or the existing property of the Owner and/or pre-finished items and surfaces.

F. Store materials a minimum of 4" above ground on framework or blocking and cover with protective waterproof covering. Provide air circulation and ventilation. Store in dry, conditioned space.

1.5 QUALITY CRITERIA

A. Acceptable fabricators shall meet the following criteria:

1. Sign contractors and/or subcontractors shall have been regularly engaged in the manufacture, fabrication and installation of sign systems of comparable scope and quality for a minimum of five (5) years and shall have completed at least one project of similar scope and complexity in the last three years.

2. Sign contractors and/or subcontractors shall submit a minimum of five (5) references listing project type, scope of work, Owner and date of completion, Owner's address and telephone number.

3. Sign contractors and/or subcontractors shall submit one (1) set of shop drawings as a representative sample of those prepared for a previous project.

B. Welders' qualifications:

1. Welders, welding operators and tackers shall be qualified by tests in accordance with the American Welding Society (AWS) Code by an independent agency. Any welder, welding operator or tacker who has not used the process for which he has been qualified for over six (6) months shall be re-qualified.

C. Industry segments: Where referenced in this section, the work shall comply with the requirements of the following standard specifications, unless otherwise specified.

1. Aluminum Association (AA): "Standards for Aluminum Mill Products," "Designation System for Aluminum Finishes," and "Standard for Anodically Coated Aluminum Alloy for Architectural Applications."

2. American Iron and Steel Institute (AISI).

3. American National Standards Institute (ANSI)

4. American Society for Testing Materials (ASTM)

5. American Welding Society (AWS) "Recommended Practice for Resistance Welding," and "Structural Welding Code."

6. Americans with Disabilities Act (ADA) Design Guidelines (ADADG)

7. Concrete Reinforcing Steel Institute (CRSI)

8. National Association of Architectural Metal Manufacturer (NAAMM)" Metal Bar Grading Manual," including Standard Specification, and "Metal Finishes Manual."

1.6 JOB CONDITIONS

A. Field measurements: Take field measurements to ascertain exact sizes before fabrication. Indicate exact dimensions on shop drawings. Field verify all locations specified by the drawings or any condition considered questionable, unclear or not drawn to scale.

B. Field verification for underground utilities and any additional obstructions must occur prior to fabrication and installation.

C. Environmental requirements:

1. Comply with manufacturer's recommendations regarding environmental conditions under which materials may be applied.

2. Apply no adhesive or coating materials in spaces where dust is being generated.

D. Coordination: Coordinate work with the Owner and the work of other sections of the specifications to ensure that surfaces to receive signs are properly completed, inspected, and approved prior to commencement of work. Commencement of work in any space shall constitute acceptance by the Contractor of surfaces to receive identifying devices.

1.7 WARRANTIES

A. Warrant the joints in laminated constructions for a period of five (5) years from Date of Substantial Completion against failure or delamination.

B. Warrant all room signs for a period of five (5) years from Date of Substantial Completion against discoloration and delamination of any portion of the sign.

C. Warrant vinyl film for a period of five (7) years from Date of Substantial Completion against delamination from the substrate.

D. Warrant raised letters for a period of five (5) years from Date of Substantial Completion against delamination from the substrate.

E. Paints or inks and finishes shall be guaranteed not to cause discoloration, deterioration, or delamination of any materials used in fabrication. Warrant paint finishes for a period of f five years from the date of substantial completion.

F. Warranty Provisions: During the warranty period, restore defective work to the standard of the contract documents without cost to the Owner, including all labor, materials, refinishing and all costs incidental to the work.

G. Warrant all electrical components and signs for a period of at least one year, parts and labor, or greater if stipulated elsewhere in the specification section for electrical work.

1.8 GRAPHICS, ARTWORK AND ELECTRONIC FILES:

The designer and consultants shall only furnish artwork in an electronic form if it already exists or was created in that form during the course of designing the project. Formats for graphic designs shall be in that of its original creation and may be manual or photo-mechanical or electronic/ digital, and if digital, are likely to have been prepared in graphic design industry standard computer software. Contract document drawings or layouts for the work shall not be transferred or transmitted electronically to the contractor for purposes of creating shop drawings or for fabrication.

PART 2 PRODUCTS

2.1 ADA SIGNAGE COMPONENTS

A. ADA Panels:

BASE OPTION (As noted in the design drawings.)

1. Material: Provide horizontally brushed finish 1/8" Aluminum panels with 1-ply, 1/32"

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Atlanta, GA 30332

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SPECIFICATION 10 400

DRAWING SHEET
SG.005

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profile acrylic material chemically bonded to aluminum to create tactile copy and pictograms to be applied to aluminum panel. Use Raster method pantented process for placing Braille dots on aluminum panel; computer engineered, using special carbide engraving bit, press-fit tool with vacuum pump, and stainless-steel Rasters.

2. Finish: Paint components per design drawings and clear coat per these specifications (Section 2.7)

B. ADA Panels:

ALTERNATE OPTION (As noted in the design drawings.)

1. Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to phenolic substrate. Adhesive-fixed characters are not acceptable.

2. Finish: Paint to match colors specified, per manufacturer's standard for phenolic backed photopolymer material.

3. Finish: Paint per design drawings and clear coat per these specifications (Section 2.7).

2.2 PLASTICS

A. This Section includes the Plastic Fabrication as shown and specified in the described system(s):

1. Signage

B. The extent of Solid Polymer Fabrication is shown on the drawings.

1. Additional fabrication and installation details can be found on the 3Form Partner Preliminary Project Review, if applicable.

2.3 CUSTOM HIGH PRESSURE LAMINATE

A. The specification section applies only to the manufacture and supply of custom digitally printed artwork in Custom High Pressure Laminate.

B. DEFINITIONS

1. INTERIOR AND EXTERIOR GRADE CUSTOM HIGH PRESSURE LAMINATES

a. Custom High Pressure Laminate material composed of layers of FSC Certified phenolic resin impregnated kraft filler paper to produce specified thicknesses. Available in sanded back 0.040" laminate and the following compact laminate thicknesses; 0.06", 0.09", 0.125", 0.25", 0.5", 0.75".

b. All graphics are imaged on saturation grade paper with UV resistant pigmented inks. Custom High Pressure Laminate sheets and panels are surfaced by a layer of melamine overlay. Exterior grade panels have an additional optically clear UV overlay that will resist no less that 99% of all sunlight and UV rays, as well as providing a graffiti resistant surface that allows for removal with standard cleaners.

2 MANUFACTURE

a. For purposes of this specification, layers of material described in 1.3.1 are to be assembled, and heat / pressure consolidated at approximately 1200 PSI at temperatures exceeding 275° Fahrenheit at manufacturer's prescribed time frames.

b. All manufacturing processes of printing, pressing, machining, finishing and crating to be accomplished within a single stand alone manufacturing facility to ensure consistent quality control and providing standard product delivery times of three weeks.

3 IMAGING / ARTWORK

a. The graphic material and images are to be supplied by and under the supervision of the architect, designer or end user on this project. To include mechanicals, text, photographs, transparencies, film and other graphic source materials incorporated into digital graphic production artwork files in manufacturer's required file formats. All graphics must be assembled by computer designers familiar with and experienced in the process of digital printing and submitting production artwork files that meet the artwork requirements of the manufacturer.

4 APPROVALS

a. Approvals are the responsibility of the owner, end user, designer or architect at every stage of process and production as submitted by the manufacturer to the above. Work shall not proceed without receipt of written approval authorizations.

C. GENERAL REQUIREMENTS

1. Supply Custom High Pressure Laminate panels as specified and shown on the drawings and supplemental specifications, as approved by the architect, designer or end user before fabrication.

D. REFERENCES

1. Manufacturer shall provide references from a minimum of four (4) customers with projects of similar scope and size and whom have used their service in the past two years and achieved the satisfaction of end user/architect/designer.

E. RELATED WORK

1. Related work shall be carried out by a qualified contractor specializing in such scope of work and as approved by the end user/architect/designer.

F. INSTALLATION

1. Shall be performed in a workmanlike fashion consistent with standard industry practices and per approved fabrication shop drawings related to installation of Custom High Pressure

2. Laminate and conforming to NEMA – LD3. Prime Project Fabrication Contractor shall provide all necessary shop drawings, manufacturing specifications and installation instruction to manufacturer and respective installation resources.

G INSTALLATION MATERIALS

1. Provide as specified and detailed in approved shop drawings provided by the Prime Project Fabrication Contractor.

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SPECIFICATION 10 400

DRAWING SHEET
SG.006

Principal-In-Charge:
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H. QUALIFICATION

1. Manufacturer to illustrate a minimum of five (5) years previous experience with projects of similar size and scope.

I. QUALITY ASSURANCE

1. Quality of entire project must conform to specification and bid submittals as approved by end user/architect/designer.

2. Quality assurance to be provided by all printing, pressing, machining, finishing and crating of project products to be accomplished within a single stand alone manufacturing facility.

3. Manufacturer to provide evidence of third party Accelerated Weather Testing (ASTM GS90) to confirm materials will perform to the ten (10) year warranty.

J. WARRANTY

1. Provide a written warranty issued in the name of the owner and authorized by the Manufacturer stating that the Custom High Pressure Laminate panels are warranted for exterior durability for ten (10) years against fading, delaminating or other material defect from date of substantial completion. Warranty is not to be pro rated.

2.4 MANUFACTURING PROCESS

A. CUTTING AND SHAPING

1. All fabrication tools used in shaping and cutting of custom high pressure compact laminate panels must be carbide-tipped. Precision machining to be completed utilizing computer assisted cutting equipment with tooling, feed rates and spindle RPM as required for smooth mill finish edges. When used, saw blades must be no less that 10” diameter, hollow ground, 60-80 tooth, carbide tipped, running at a minimum of 3600 rpm. All cutting and shaping must be conducted in the same facility as all other manufacturing processes.

2. The finished product will be smooth on all edges, and machined within a tolerance of +/-0.060” to size specified for final installation.

B. SURFACE FINISH

1. Provide surface finish to match the Manufacturer’s standard finishes of Ice, Matte or Satin and as specified in project design specifications.

2. Continuity of panel surfaces: Visual inspection of each panel shall reveal no visible nicks or cuts, hairline cracks, blemishes or surface defects in the surface of the finished panel.

2.5 ART AND IMAGING

A. ART PREPARATION

1. Manufacturer shall produce panels from digital production art files as supplied by the end user/ architect/designer. Designated resource supplying production ready artwork files will review files and prepared per Manufacturer’s artwork requirements for digital image processing.

2. Artwork submitted to Manufacturer shall be in required file format, (and stored on a or may be uploaded to Manufacturer’s FTP site.

B. ART APPROVALS

1. All files to be reproduced in custom High Pressure Laminate shall be submitted to the end user/ architect/designer in electronic PDF Proof format for content approval. An optional 8” x 10” x.060” actual material color sample submitted for color and finish approval prior to production in Custom High Pressure Laminate.

C. ORIGINAL ARTWORK

1. Original artwork provided for use in production shall not be harmed in any way (writing, cutting, etc.) and will be returned to the end user/architect/designer upon successful completion and acceptance of the project.

D. DIGITAL IMAGING

1. Digital imaging shall be printed on Manufacturer’s required saturation grade substrate for inclusion in lamination process and will be of even color consistency throughout the image. All imaging shall be reproduced using UV stable pigmented i inks at a resolution of no less than 300 DPI and up to 2400DPI. (Dots per Inch).

E. MAGING INKS

1. Imaging inks used in the printing process shall be UV resistant. The imaging inks shall be pigment based to assure maximum durability, with minimal environmental impacts.

F. COLOR REFERENCE

1. Pantone Solid Coated colors preferred for color reference.

2. Manufacturer to incorporate calibration of all systems of color management in order to provide fidelity and consistency of reproducing available color gamut.

G. MECHANICAL PERFORMANCE PROPERTIES

1. These standards represent the minimum acceptable qualities as tested for Custom High Pressure Laminate materials.

Property	Grade Unit	Values
Weight per square foot	1/4” 1/2” 3/4”	1.81 lb/sf 3.62 lb/sf 5.40 lb/sf
Flexural Strength	MPa (psi) MD, min MPa (psi) CD, min	125 (18000) 82.7 (12000)
Impact Strength	mm (in), min	1900 (75)
Tensile Strength	MPa (psi) MD, min MPa (psi) CD, min	124 (18000) 82.7 (12000)
Modulus of Elasticity	MPa (psi) MD, min MPa (psi) CD, min	11000 (1600000) 9650 (1400000)
iZone Fire Rated (Class A) Flame Spread Smoke Development	ASTM E84	15 40
iZone Standard (Class B) Flame Spread Smoke Development	ASTM E84	60 175
Rockwell Hardness	Rating, *min	70 (E Scale)
Dimensional Stability	%MD, max %CD, max	0.3 0.7
UV Resistance	Rating, *min	No change after 2000 hours
Boiling Water Resistance	Rating, *min	No Change

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TITLE
SPECIFICATION 10 400

DRAWING SHEET
SG.007

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Drawn by:
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H. MAINTENANCE

1 Manufacturer's documentation covering the care, cleaning and maintenance of Custom High Pressure Laminate materials to be incorporated into project maintenance manuals to be provided with Manufacturer's product delivery.

I. INSTALLATION

1. Installation shall be the responsibility of the End User, Prime Fabrication Contrator, Designated Qualified Installation Subcontractor or under the direction of the General Contractor and as specified in the contract documents and specifications. All installation processes to be executed based on Prime Fabrication Contractor's approved shop drawings and specifications and/or in accordance with NEMA Standards Section LD 3-2005.

J. INSPECTION – CUSTOM HIGH PRESSURE LAMINATE PANELS

1. Inspect completed panels for general workmanship including clarity of images, proper alignment of images on color separations, clean backgrounds, correct colors, appropriate thickness and verify all surfaces are free from blemishes and defects prior to installation.

K. ADHESIVES

1. Apply only applicable and approved adhesives as shown in approved shop drawings, as provided by Prime Fabrication Contractor, and/or NEMA LD3. All surfaces to be cleaned and prepared per adhesives manufacturer's instructions

L. CLEANING

1. Clean completed panel surfaces with a soft cloth and any good quality glass cleaner. Abrasive cleaners should be avoided for long-term usage.

2.6 SUBMITTALS

A. General: Submit the following in accordance with conditions of contact and Division 1 specification section 01 33 00 "Submittal Procedures".

B. Product Data: Submit manufacturer's product data; include product description, fabrication information, and compliance with specified performance requirements.

C. Submit product test reports from a qualified independent 3rd party testing agency indicating each type and class of panel system complies with the project performance requirements, based on comprehensive testing of current products. Previously completed test reports will be acceptable for current manufacturer and indicative of products used on this project.

1. Test reports required are:

a. Rate of Burning (ASTM D 635)

b. Self-Ignition Temperature (ASTM D 1929)

c. Density of Smoke (ASTM D 2843)

2.7 QUALITY ASSURANCE

A. Manufacturers Qualifications

1. Materials and systems shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least three (3) consecutive years and which can show evidence of those materials being satisfactorily used on at least three (3) projects of similar size, scope and location. At least one (1) of the projects shall have been successful for use one year or longer.

2. Manufacturer must offer a documented reclaim process that will take back, at the manufacturers cost, panels that are at their end-of-life cycle. Return process is preceded by following requirements highlighted in Section 02 42 00 Removal and Salvage of Construction Materials.

3. Manufacturer must have documented training and qualification

2.8 FABRICATION - GENERAL NOTES

A. General: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, attachment methods, chassis specifications and details of construction.

B. Clear Protective Finish: All signs, unless noted otherwise on design drawings, will have a satin clear coat applied over the paint color. For interior ADA signs, this clear coat shall cover all tactile copy and braille. Clear coat shall be compatible with paints. Refer to Section "2.7 Coatings, paragraph L".

C. Preassemble: Preassemble signs in the shop to the greatest extent possible to minimize field assembly. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in a location not exposed to view after inal assembly.

D. No Visible Fasteners: Conceal fasteners if possible; otherwise, locate fasteners to appear inconspicuous. Fasteners should not appear on the face of a sign, unless this is documented with an approved shop drawing. Fasteners should be located on sign returns whenever possible if they cannot be concealed. If fasteners are visible, detail on shop drawing submittal for review and approval prior to fabrication.

E. Countersink Fasteners: Any exposed fasteners shall be countersunk, flush with surrounding area. If this is not possible, detail on shop drawing for review and approval prior to fabrication.

F. Paint Exposed Fasteners: Always paint any exposed or visisble fasteners to match the surrounding sign material finish.

G. Form Panels to Required Size and Shape: Comply with requirements indicated for design, dimensions, finish, color, and details of construction.

H. Joints and Seams: Coordinate dimensions and attachment methods to produce sign panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.

I. Welds: Ensure welded joints are smoothed and any gaps are filled and smoothed prior to finishing.

2.9 ACCESSORIES:

A. Adhesive tape:

1. Clear, acrylic adhesive transfer tape, very high bond.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
SPECIFICATION 10 400

DRAWING SHEET
SG.008

Principal-In-Charge:
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2. Thickness shall be required to achieve maximum adhesion with minimum visibility. Follow manufacturer's instructions/recommendations for the application of tapes, pressures applied, and selection of correct adhesive formulation.

3. Use clear adhesive silicone as supportive attachment in cases where tape will not provide adequate adhesion, particularly rough surfaces.

B. Anchors and fasteners:

1. Anchors, inserts or fasteners shall be compatible with sign materials, shall not result in galvanic action or chemical interaction of adhesives and shall have demonstrable and sufficient strength for intended use.

2. Anchors and fastenings for aluminum shall be stainless steel, zinc or cadmium coated steel. Anchors and fasteners shall be concealed where possible. Indicate locations on shop drawings.

3. Anchors and fastenings for exterior use shall be galvanized steel in accordance with ASTM A153-82.

4. Wherever possible, anchors to concrete and masonry shall be cast-in-place. Use expansion shields where anchors cannot be located before concrete is poured.

5. Fasteners to solid masonry and concrete shall be one of the following:

a. flat-head drop-in expansion bolts.

b. Powder-actuated fasteners; appropriate size drive pin for concrete and for masonry.

c. Fasteners to cells of hollow masonry shall be drive pins of the appropriate size.

d. Fasteners to roll or formed steel members shall be powder-actuated fasteners of the appropriate size.

e. Fasteners to metal deck shall be self-drilling, self-tapping screws.

f. Expansion shields shall be machine bolt type, tubular type, or self-drilling tubular type.

6. Anchor bolts for wood blocking to concrete and masonry shall be the appropriate size steel for masonry, unless otherwise noted, and provided with washer and nut at both ends.

7. Anchor bolts for wood blocking to steel members shall be appropriate size steel and provided with washer and nut.

8. Provide miscellaneous anchors and fasteners as required to secure work in place.

9. Versilok® brand (mfr.: Parker US Adhesives) or an approved equal shall be used as a structural adhesive for aluminum and may be employed in the concealed fastening of components for signs. Follow manufacturer's instructions for the correct formulation, preparation and procedures.

D. Non-shrink grout:

1. Non-shrink Grout: Use a premixed, factory-packaged, non-staining, non-corrosive, non-gaseous grout specifically recommended by manufacturer for applications such as those in this project.

2. Place grout under bearing surfaces after they have been aligned and leveled. Completely fill space so as to give full and even bearing. Prepare concrete surfaces, mix and apply grout and cure in accordance with the grout manufacturer's printed instructions for the purpose intended.

2.10 COATINGS (PAINTS):

A. Acceptable manufacturer: Except as otherwise noted, products specified as a standard of quality in the industry of manufacturing and fabricating signage shall be those manu factured by Matthews Paint Company, an acrylic polyurethane, UltraLow (<50g/L) VOC and lead-free coating system (or equal).

B. Miscellaneous materials:

1. Paint thinners and tints shall be products of same manufacturer as paints or approved by manufacturer for use with their products.

2. Shellac, turpentine, patching compounds and similar materials required for execution of work shall be pure, best quality products.

3. As required by governing law, compounds used in finishing products shall be free of Volatile Organic Compounds (VOCs) and meet all environmental requirements for manufacture, handling, application and disposal of materials.

C. Colors: Sign colors shall match approved samples and shall be exactly as specified in unit descriptions. Sign colors shall be consistent in chroma and value, shall maintain proper opacity or translucency and shall be free of all imperfections.

D. Finishes: Sign finish shall be satin and not exceed 15 degrees of gloss for all ADA compliant signage. All other sign finishes shall be satin unless noted otherwise in design drawings. Sign finish shall be smooth and free of all imperfections.

E. Paint selection: Paints and inks required shall be made for the surface material on which they are to be applied and as recommended by the manufacturer of the paint or ink. Exact identification of paint and ink shall be noted on the shop drawings with method of application. Prime coats or other surface pre-treatments, where recommended, shall be included in the work. Select sign paint finishes for durability and resistance to graffiti.

F. Preparation:

1. Surfaces to receive finishes shall be free of debris, oils, dust or other deleterious materials.

2. Previously painted masonry:

a. Where existing paint is loose or blistered, remove by scraping

b. Remove debris and chalking from surfaces after scraping, by washing with detergent and water. Flush with clean water.

3. Galvanized metals: Wash with an appropriate solvent to remove grease, oil and contaminants. Wipe dry with clean cloth.

4. Ferrous metals: Prepare surface by removing loose mill scale, rust, accessible slag or flux deposit, dirt or any foreign matter by power brushing. Remove oil and grease deposits by solvent.

5. Aluminum:

a. Sand or scrape to remove oxide.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

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1	Updated XM.1, XM.2 and XM.3

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SPECIFICATION 10 400

DRAWING SHEET
SG.009

Principal-In-Charge:
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b. Remove grease and soil in a solution of detergent.

c. Etch surface of aluminum in a sodium hydroxide solution 4 to 5 ounces per gallon at 60 C for 6 minutes.

d. Deoxidize in a nitric oxide base chromate solution at room temperature. Vary time according to type of aluminum alloy used.

e. At room temperature, rinse in clear running water between each step above.

f. Apply appropriate aluminum compatible primer.

g. Paint surface as soon as possible after drying.

G. Application:

1. Apply paint, sealers and spackles only when moisture content of surfaces is 12% or less for interior wood.

2. Apply paint when the relative humidity is below 85% and ambient temperature is above 55 F.

3. Apply paint materials using clean brushes, rollers or spraying equipment.

4. In general, paint application shall be by brush or airless spray. Paint applications by brushing shall be free of objectionable brush marks. All applications must meet approval of the Architect with representative sample submittals.

5. Apply materials at rate stated on label placed on can by paint manufacturer for the type of surface being painted.

6. Comply with manufacturer's recommendations for drying time between coats.

7. Sand and dust between coats to remove defects visible from a distance of 3'-0".

8. Finish coats shall be smooth, free of brush marks, streaks, laps or pile-up of paint.

9. Make edges of paint adjoining other materials or colors clean and sharp without overlapping.

10. Primer coats may be omitted for surfaces specified to receive factory applied primer if primer is compatible with finish coats. If a primer coat is not compatible, substitute a bond coat as recommended by paint manufacturer for specified primer coat.

11. Primer coats may be omitted for surfaces previously painted only if existing paint is compatible with specified new paint.

12. Contractor shall be responsible for application of any additional coats necessary to achieve required coverage and color uniformity.

13. All acrylic paints shall be 100% acrylic resins.

H. Enamels:

1. Air dried enamel finish shall have a minimum coating thickness of 1.5 mils and show no corrosion when tested in accordance with salt spray test, federal test method no. 151, for 96 hours. Finished work shall be smooth and free of imperfections.

2. Baked enamel finish shall have minimum coating thickness of 1.5 mils and show no corrosion when tested in accordance with salt spray test, federal test method no. 151, for 96 hours.

I. Urethane Paint on Aluminum:

1. Aluminum shall be pre-treated as recommended by the paint manufacturer, including:

a. degreasing process and rinse.

b. chemical etching process and rinse.

c. deoxidizing process and rinse.

d. compatible priming process, rinse and dry.

2. Prime surfaces with the manufacturer's recommended primer.

3. Apply paint at the rate of 2.5 mils per coat by air or airless spray, brush or roller. Coating shall be even and free from any marks or streaks.

J. Ferrous Metal:

1. Ferrous metal items, except items to be encased in concrete and areas adjacent to field welds, shall be thoroughly cleaned.

2. After cleaning, give the surface one shop coat of an industry standard primer paint. Apply thoroughly and evenly to a dry surface. Surfaces inaccessible after assembly or erection shall be given an additional shop coat of a different color than the first coat. Each coat shall have a minimum dry film thickness of 2.5 mils.

3. After erection, touch up with prime paint members where shop coat has been damaged, welds, areas adjacent to welds and field bolts.

K. Ink:

1. Inks required shall be made for the surface material on which they are to be applied and shall be applied as recommended by the manufacturer of the ink.

2. Exact identification of the ink shall be noted on the shop drawings along with method of application.

3. Prime coats or other surface pre-treatment where recommended shall be included in the work.

4. Inks and finishes shall be guaranteed not to cause discoloration, deterioration, or delamination of any materials used in fabrication.

5. Apply ink when the relative humidity is below 85% and ambient temperature is above 55 degrees F.

6. Ink shall not be applied until the preceding coat has dried.

7. Graphic colors shall match approved samples and shall be exactly as specified. Graphic colors shall be consistent in chroma and value, shall maintain proper opacity or translucency and shall be free of all imperfections.

8. Screened sign finish shall be high gloss. Sign finish shall be smooth and free of all imperfections.

9. See PART 3, Serigraphy/Screen Printing.

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PROJECT DATA

Project Number:
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Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

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SPECIFICATION 10 400

DRAWING SHEET
SG.010

Principal-In-Charge:
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L. Protective coating / graffiti resistance:

1. To protect paint finish, apply a clear, water-based plastic coating. The coating shall not yellow or discolor, shall not be affected by pollutants or by climatic erosion. Graffiti shall not penetrate its surface. Application and maintenance shall follow manufacturer's instructions.

2. Coatings applied by the approved method shall be thinned only to provide the required workability. Apply coats uniformly, free from runs and brush marks or streaking.

2.11 DIGITALLY PRINTED FILM :

A. Acceptable manufacturer: Except as otherwise noted, products specified as a standard of quality in the industry of manufacturing and fabricating signage shall be those manu factured by 3M, specifically 3M Controltac IJ180Cv3 printed using 3M inks and utilizing 3M 8520 Matte overlam and SCPM-44X premask (or equal) to allow the product to be removed from the wall in the future without damaging the wall surface.

B. Application:

1. Wall surface to receive digitally printed film shall be painted thoroughly with a latex based paint, that has dried completely.

2.12 GRAPHIC FILM (Translucent, Opaque, Reflective, and Specialty):

A. Acceptable manufacturer: Except as otherwise noted, products specified as a standard of quality in the industry of manufacturing and fabricating signage shall be those manufactured by 3M, specifically 3M Controltac, 3M Scotchcal, and 3M Scotchlite (or equal).

B. Application:

1. Surface to receive film shall be prepped according to manufacturer's instructions.

C. Fabrication:

1. Film shall be cut and applied using tools and processes in accordance with manufacturer's instructions to maintain manufacturer's warranty.

PART 3 EXECUTION

3.1 INSPECTION

A. Inspection of substrates:

1. Before installation, surfaces to receive identifying devices shall be free from defects and imperfections that would prevent an acceptable installation.

2. Commencing of work in any space shall constitute acceptance by the Contractor of surfaces to receive identifying devices as being in a satisfactory condition to permit an acceptable installation. If the Contractor's inspection of such surfaces discloses unsatisfactory conditions, he shall notify the Owner in writing and by telephone and then await further instruction; otherwise, no claims will be considered for unsatisfactory work due to real or alleged faulty surfaces.

3.2 PREPARATION AND PROTECTION:

A. Aluminum shall be separated from direct contact with metals other than stainless steel, zinc, cadmium, or nickel bronze by painting contact surfaces with aluminum compatible primer and paint and coated with heavy-bodied bituminous paint or by non-absorptive tape or gasket.

B. Exterior aluminum imbedded or in contact with wood, concrete or masonry shall be painted with aluminum compatible primer and paint and with heavy-bodied bituminous (asphalt) paint. The painted area shall extend 1" above grade.

C. Protect the work and adjacent work, landscape /hardscape and materials against damage during progress of work until completion. Drop cloths of paper or plastic shall be used around all areas where paint is being applied and appropriate precautions shall be taken to prevent overspray, hazardous conditions or damage to adjacent work.

3.3 INSTALLATION, APPLICATION AND ERECTION:

A. Serigraphy / Screen Printing / Silver & Gold Leaf:

1. Screen printed images shall be executed with screens prepared from original or electronically imaged digital printing. No hand cut screens will be accepted. Original art shall be defined as artwork that is a first-generation reproduction of the specified art.

2. Edges and corners of images shall be clean; rounded corners, cut or ragged edges, edge build-up, bleeding or surface pinholes will not be accepted.

3. Edges and corners of finished letterforms shall be precise, crisp, clean and free of ticks, discontinuous curves, line wave, cut or ragged edges, edge build-up, bleeding, surface pinholes and other imperfections. Letterforms shall conform to the prescribed letterform proportions.

4. Screens shall be of a mesh count fine enough to eliminate any texture or pattern in screened graphic images.

5. Letterforms shall be aligned to maintain a base line parallel to the sign format.

6. Message copy on the drawings is for layout purposes only. Actual copy for signs shall be printed using camera-ready art or typesetting.

B. Installation of sign panels and graphic units:

1. Erect, mount or install all panels and units to be level, plumb and true.

2. Use sufficient concealed fasteners and anchors to hold sign panels and graphic units in place. Use only concealed shims. Visible fasteners may only be used where approved in shop drawings or as part of an intentional design detail.

3. Make Owner or Owner's project manager aware of conflicts in sign locations as shown in the drawings.

4. Mount all graphic units and sign panels at consistent heights indicated by the drawing.

C. Structural steel:

1. In planning the method of erection, make full allowance for obstructions encountered which may result from work performed by other trades as well as the operations of the Owner.

2. Furnish and deliver to the job site anchor bolts leveling plates and templates for setting the bolts.

3. Furnish and place all temporary bracing necessary for erection before bolting and welding. Only light drifting will be permitted to draw parts together. Drifting to match unaligned holes will not be permitted. Enlargement of holes necessary to

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PROJECT DATA

Project Number:
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Project Name:

Georgia Institute of Technology
North Ave NW,
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Date: 07/26/2024

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1	Updated XM.1, XM.2 and XM.3

TITLE
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DRAWING SHEET
SG.011

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make connections resulting from misfit shall be done by drilling and reaming and the proper size bolt shall then be used.

4. Concrete footings with embedded anchor bolts with nuts and washers shall be in place to receive steel beam.

5. Field Connections: Field connections shall be bolted or welded as indicated. High strength bolts shall be used for bolted connections or primary framing members, struts, ties, and other members which form a part of the bracing system.

6. High Strength Bolt: High strength bolting, including materials and installation, shall comply with code requirements. Connections shall be bearing type and shall be designed based on allowable stresses without threads in the shear plane, except that friction type connection shall be used for moment connections and bracing systems.

7. Field Welding: Field welding will be permitted only where indicated on design and approved shop drawings. Field welding shall be in accordance with the approved welding procedures and the AWS Structural Welding Code.

8. Flame-Cutting: No flame-cutting will be permitted without the consent of the Owner or Architect. If consent is given, flame-cut members shall be finished to an acceptable appearance equal to a sheared finish.

9. Cleaning and touch-up painting:

   a. After erection, field welds, field bolts and voids or abrasions in shop coat shall be cleaned, degreased and touched up with same paint used for shop coats. Surfaces to be field painted shall be cleaned and left in a condition acceptable for the application of finish paint. Brush strokes are not acceptable.

   b. Where necessary for a subsequent contractor to remove mud or other foreign material or repair shop coat in preparation for finish painting, this will be done at the Contractor's expense.

   c. Installation of metal and steel fabrications and assemblies: adjust assembly prior to anchoring to ensure matching alignment at abutting joints. Anchor posts to concrete by the means specified in the engineer's drawings.

E. Lighting and electrical provisions:

   1. Study the drawings for indications that electrical power is required for a sign type. If so, the Contractor shall make provisions for the appropriate supply of power to the location of the sign. Coordinate hookup in accordance with the prevailing building code.

   2. Build all electric signs in accordance with the Underwriter's Laboratories specifications.

3.4 ADJUSTING, CLEANING AND PROTECTION:

A. Remove and replace damaged identifying devices with new identifying devices free of defects.

B. Clean exposed surfaces promptly after completion of installation in accordance with recommendations of manufacturer.

C. Clean exposed metal work with cleanser recommended by manufacturer of materials and rinse with clean water. Do not use harsh chemicals or abrasive. Surfaces with stains which cannot be removed by cleaning shall be refined or replaced to the satisfaction of the Owner at no extra cost to Owner.

D. Signs shall be free of tape, packing paper, dirt, smudges, and other foreign material.

E. Spatters, drippings, smears, and / or spray shall be completely removed.

F. Plastic surfaces shall be cleaned upon completion in accordance with manufacturer's i nstructions. Supply one pint of manufacturer's recommended cleaner for Owner's use.

G. Touch up work after installation shall be performed by the sign manufacturer and approved by Owner.

H. Protection:

   1. Work in progress shall be protected at all times from staining, scratching, chipping or |other damage until acceptance by the Owner.

   2. Provide final protection in a manner acceptable to the fabricator and installer until Date of Substantial Completion.

3.5 METAL FABRICATION AND CONSTRUCTION:

A. General information: All sign panels shall be fabricated with precision and high standards of quality craftsmanship. All seams, where necessary shall be hairline. All removable panels shall operate smoothly and fit accurately. Polyester (catalyst activated) filler, where used shall be sanded smoothly and painted to achieve an undetectable smooth effect. All edges shall be sanded and corners slightly rounded. Fasteners shall be hidden or if visible shall be countersunk and painted to match the surrounding finish. Flawed or faulty workmanship is subject to rejection by the Owner and shall be replaced with an acceptable unit. Allow for thermal movement resulting from changes in ambient temperature in the design, fabrication, and installation of installed metal assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners. Base design calculations on actual surface temperatures of metals due to both solar heat gain and nighttime sky heat loss.

B. Form metal fabrications from materials of size, thickness, and shapes indicated but not less than that needed to comply with performance requirements indicated. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support. Use type of materials indicated or specified for various components of each metal fabrication.

C. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.

D. Shear and punch metal cleanly and accurately. Remove burrs.

E. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

F. Remove sharp or rough areas on exposed traffic surfaces.

G. Weld corners and seams continuously to comply with AWS recommendations and the following:

   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

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DRAWING SHEET
SG.012

Principal-In-Charge:
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2. Obtain fusion without undercut or overlap.

3. Remove welding flux immediately.

4. At exposed connection, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and contour of welded surface matches those adjacent. Fill and smooth any voids/gaps between seams prior to finishing with paint.

H. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat-head (countersunk) screws or bolts. Locate joints where least conspicuous.

I. Provide for anchorage of type indicated, coordinate with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.

J. Shop Assembly: Pre-assemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for re-assembly and coordinated installation.

K. Cut, reinforce, drill and tap miscellaneous metal work as indicated to receive finish hard ware, screws, and similar items.

L. Fabricate joints that will be exposed to weather in a manner to exclude water or provide weep holes where water may accumulate.

M. Waterjet Technology:

All aluminum that is specified to be cut with waterjet technology shall maintain a smooth edge. Fabricator is to use vector artwork of design provided by designer. For applications where material pushes through cut aluminum, there must be a tolerance between the aluminum and push-through material of 1/64” or less. Fabricator is to use vector artwork of the design provided by designer. Maintain smooth cut edge through out so that push-through material fits tightly.

3.6 SIGN LOCATIONS AND MESSAGE SCHEDULES:

A. Message copy on the drawings is for layout purposes. Actual copy for signs shall be printed using digitally generated fonts or vector art provided by designer.

B. Sign locations and messages: The Owner will provide verification of an updated edition of the sign location plans and sign message schedules (attached as part of these contract documents).

3.7 SUBSTITUTIONS:

A. Document each request with complete data substantiating compliance of proposed Substitution.

B. A request constitutes a representation that the Contractor:

1. Has investigated proposed Product and determined that it meets or exceeds the quality level of the specified Product.

2. Will provide the same warranty for the Substitution as for the specified Product.

3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.

4. Waives claims for additional costs or time extension which may subsequently become apparent.

5. Is acceptable as an alternative to regulatory officials.

D. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

E. Substitution Submittal Procedure:

1. Submit three copies of the request for Substitution for consideration. Limit each request to one proposed Substitution.

2. Submit shop drawings, Product data, and certified test results attesting to the proposed Product equivalence.

3. The signage consultant and owner’s representative will notify the Contractor, in writing, of decision to accept or reject request.

------- END SPECIFICATION 10400-------

Georgia Tech

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TEL 404-524-2200

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
SPECIFICATION 10 400

DRAWING SHEET
SG.013

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021

1 **ARROWS**
- CIRCLE - 5" DIAMETER
- ARROW HT - 3 " P4

2 **DIRECTIONAL COPY**
- CAP HT - 3" T1 P4

3 **PARKING SYMBOL**
- CUSTOM ART
- CIRCLE HT- 4"
- "P" HT- 2 3/8"

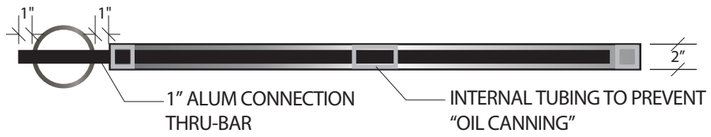
4 **GA TECH LOGO 1**
- CUSTOM ART
- LOGO HT-5 1/4" P7

MATERIAL:
- FABRICATED ALUM. CABINET - 2" SQ. TUBE ALUM FRAME & 1/8" ALUM SKIN FACES
- 5" DIA. ALUM POST WITH "L-BRACKETS" ATTACHED TO BOTTOM OF POST TO SECURE IN CONCRETE
- SURFACE PAINTED AS SPECIFIED
- CLEAR COAT OF UV PROTECTION ON ALL EXTERIOR SIGNS. FRONT AND BACK.

COPY:
- DIN BOLD
- WATERJET CUT LETTERS (SEE DRAWING SG.1.2 FOR DETAILS
- CAP HT= AS SPECIFIED

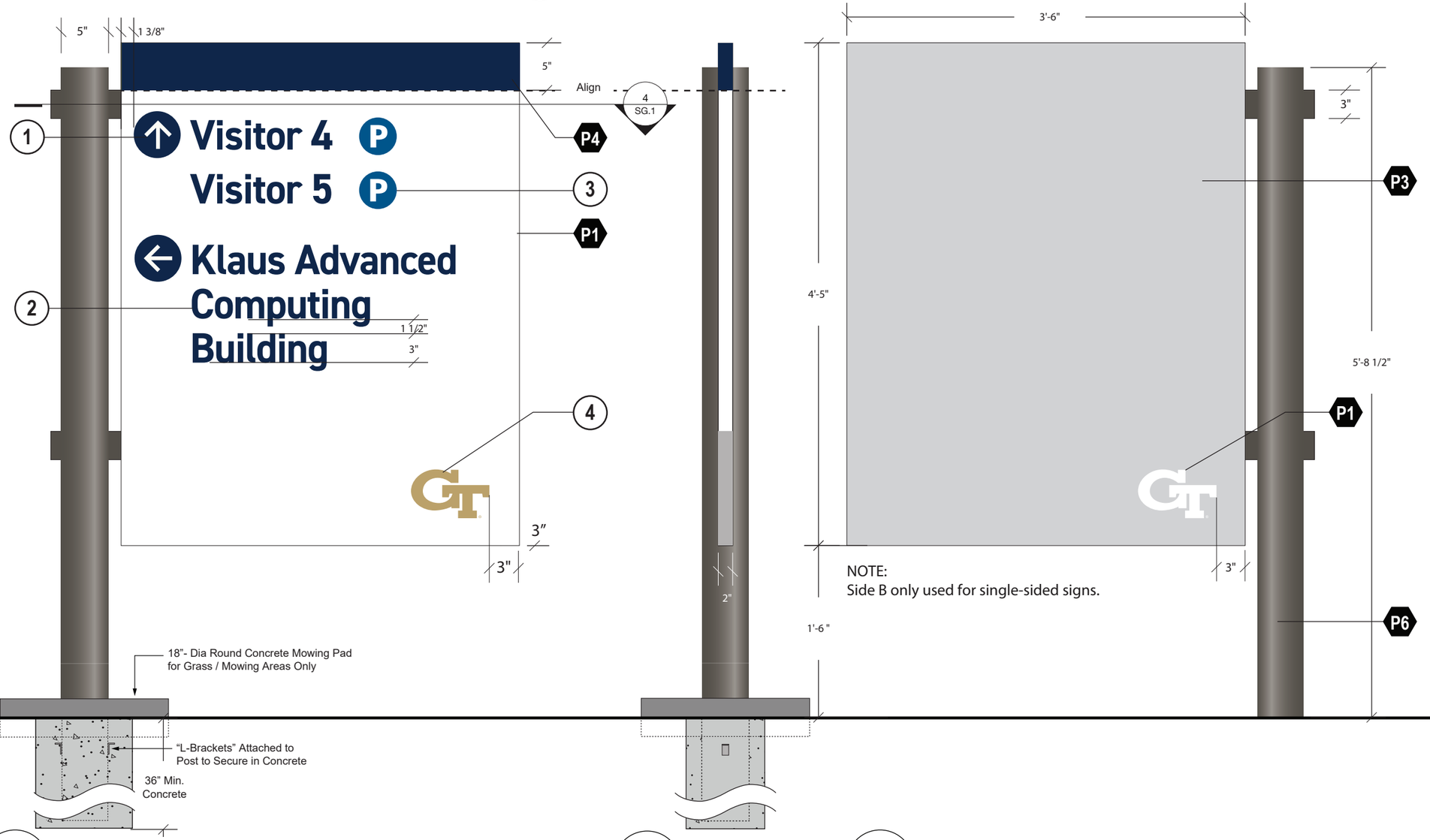
HARDWARE/ FAB:
- NO VISIBLE HARDWARE
- SIGN IS DOUBLE SIDED
- SEAMLESS CONSTRUCTION / ALL SEAMS/WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

INSTALL:
- INSTALL VIA BURIAL INTO CONCRETE FOUNDATION
- ALUMINUM POSTS SET IN MIN. OF 36" CONCRETE
- MINIMUM 4" BACKFILL AROUND POST FOR GRASS/MOWING AREAS



4 SG.1 Section - Top View
Scale 1" = 1'-0"

5 SG.1 Specifications
Scale 1" = 1'-0"



1 SG.1 Elevation - Side A
Scale 1" = 1'-0"

2 SG.1 Elevation - Side View
Scale 1" = 1'-0"

NOTE:
Side B only used for single-sided signs.

3 SG.1 Elevation - Side B
Scale 1" = 1'-0"

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XA

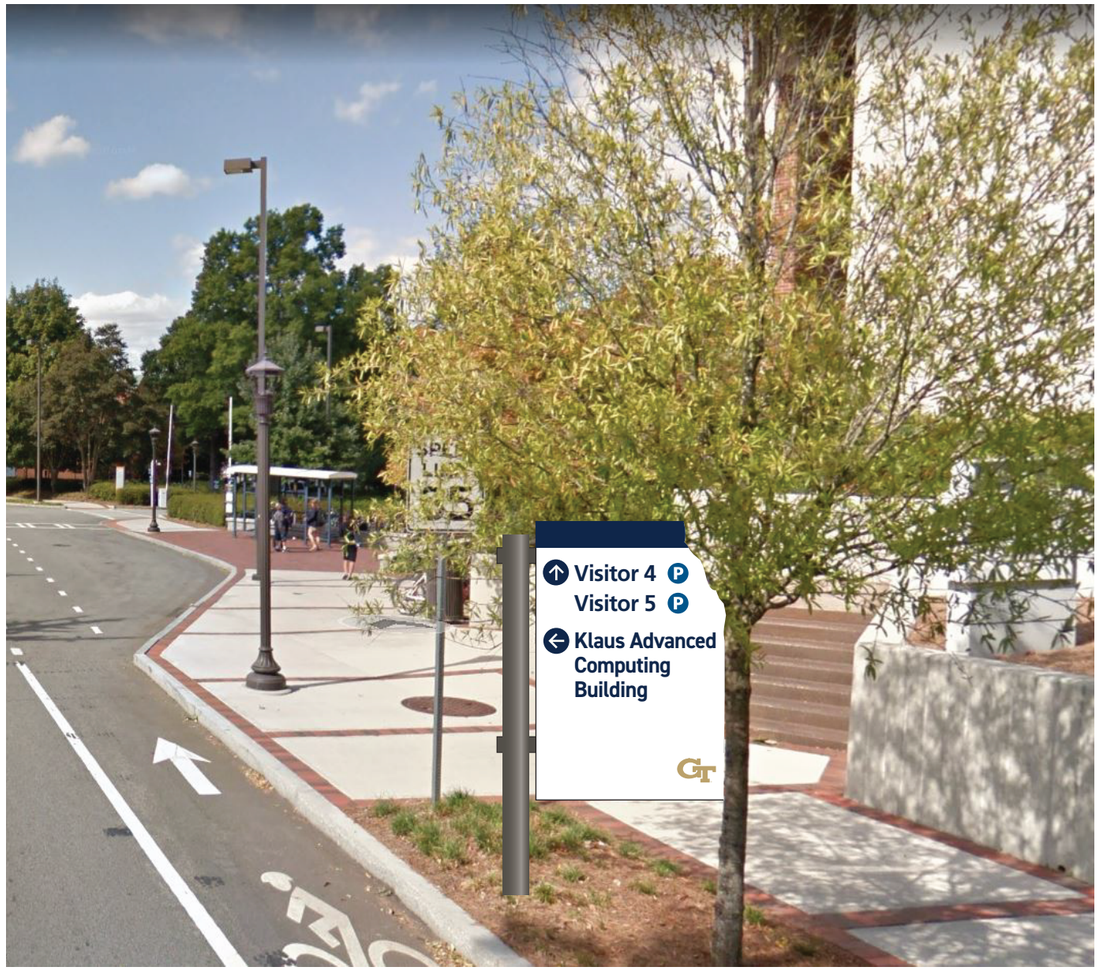
Vehicular Directional

DRAWING SHEET

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021

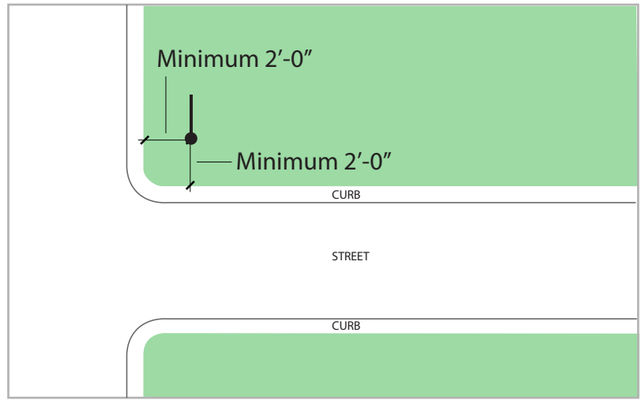
PLEASE NOTE

Field verification for underground utilities and any additional obstructions must occur prior to fabrication and installation.

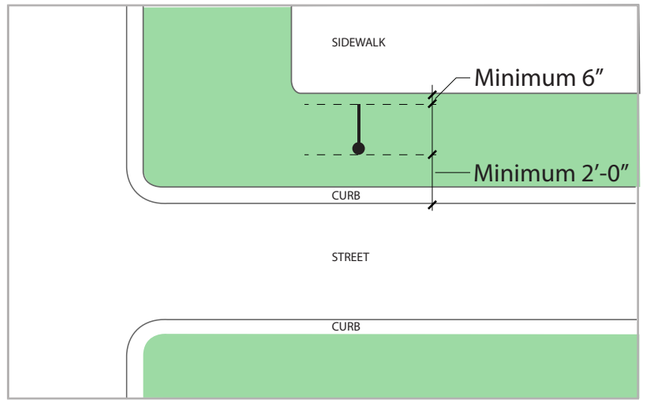


Sign located on sidewalk / travel path only as needed.
Minimum 2′-0″ away from curb.
Verify the travel path is not impeded.

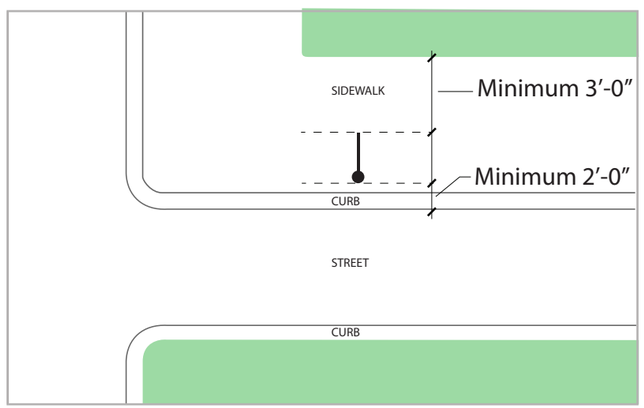
1 / SG.1.1 Reference Image
Scale NTS



LANDSCAPE - NO SIDEWALK



LANDSCAPE - SIDEWALK



SIDEWALK

2 / SG.1.1 Sign Location Guidelines
Scale NTS

Georgia Tech

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

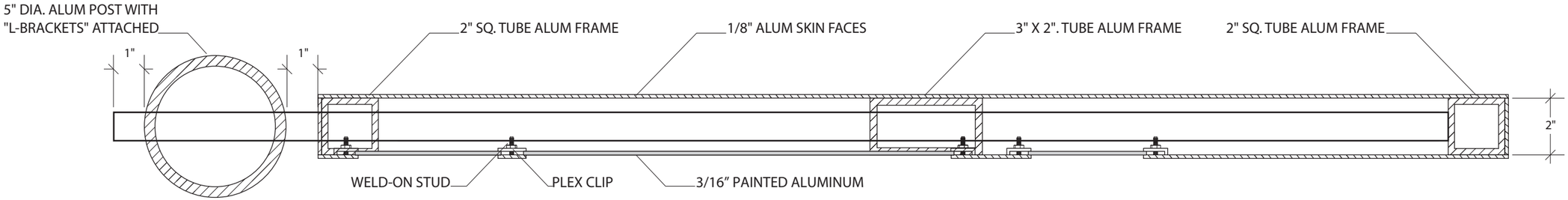
Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XA
Vehicular Directional

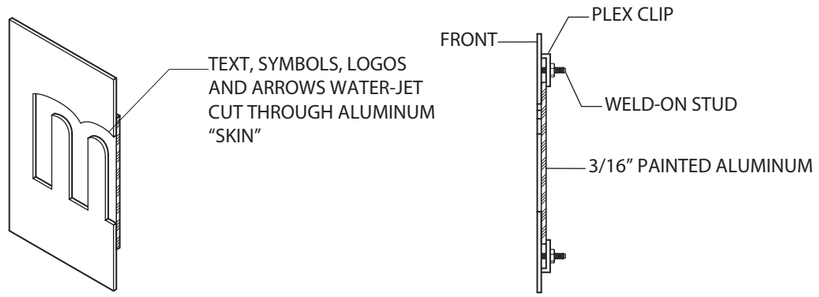
DRAWING SHEET
SG.1.1

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



1 / SG.1.2 Section - Top View

Scale 3" = 1'-0"



WATER-JET CUT .090 ALUMINUM FACE (STANDARD)
BACKED WITH PAINTED ALUMINUM.
COLORS IS PROVIDED BY PAINTED ALUMINUM.
(SEE COLOR CALLOUTS PER INDIVIDUAL SIGN DRAWINGS.
WELD ON STUDS WITH CLIPS TO ATTACHED COLOR
PANELS.

PLEASE NOTE

This detail for water-jet text, symbols, logos and arrows will be the same on the following sign types:
XA, XB, XB.1, XI, XJ,

2 / SG.1.2 Fabrication Detail

Scale NTS

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Denver / Dubai / Houston / Los Angeles / Mexico City /
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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

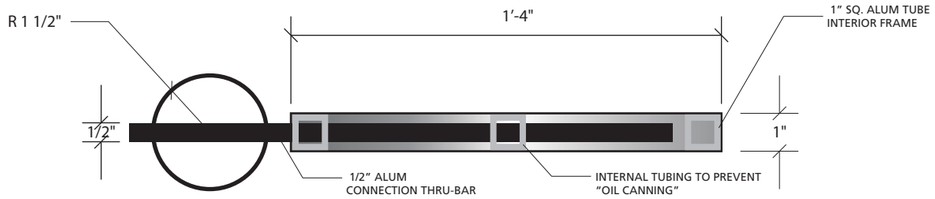
XA

Vehicular Directional

DRAWING SHEET

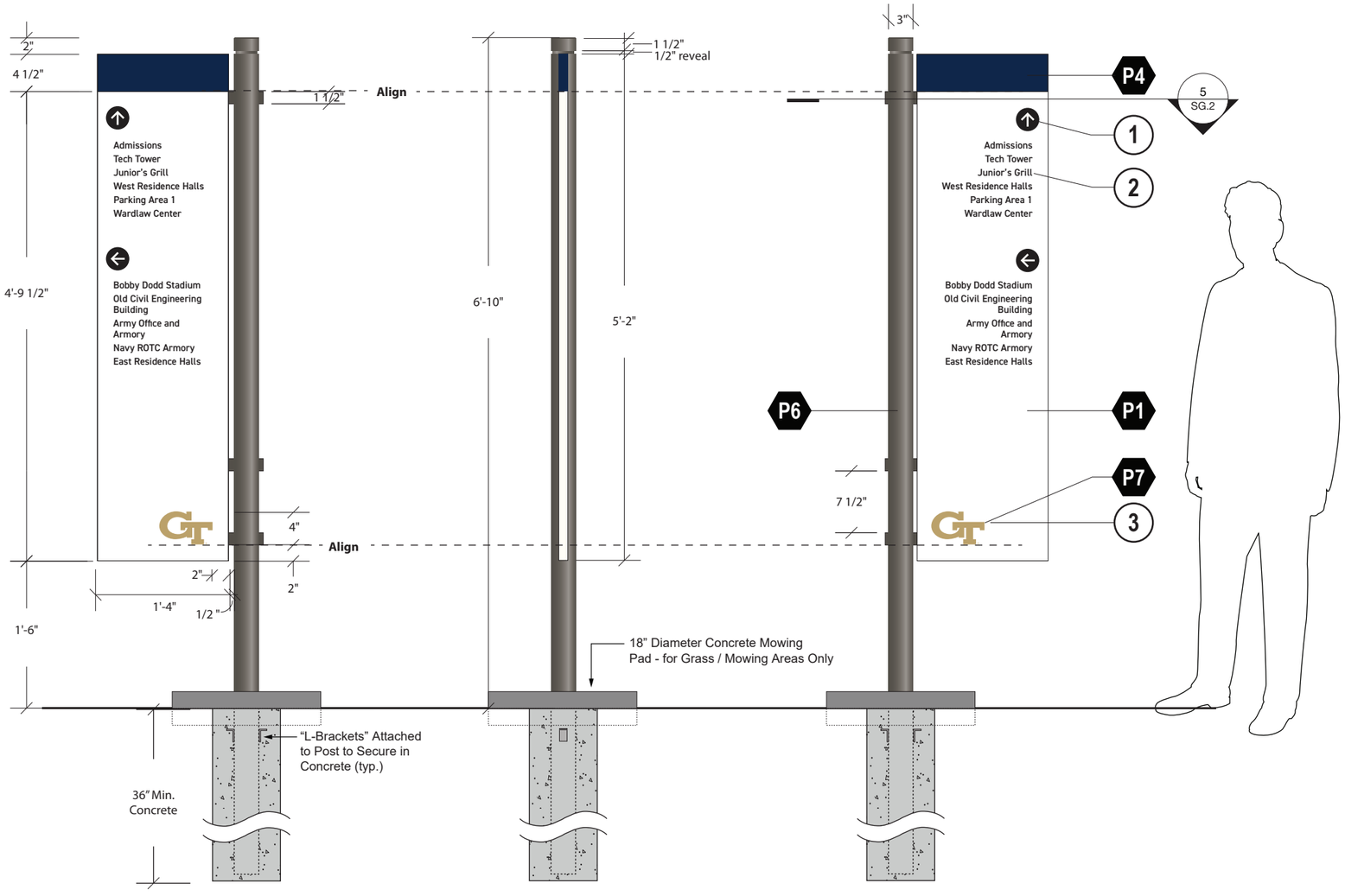
SG.1.2

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding
\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



5 / SG.2 Section - Top View

Scale: 3" = 1' - 0"



1 / SG.2 Elevation: Side A

Scale: 3/4" = 1' - 0"

2 / SG.2 Elevation: Side View

Scale: 3/4" = 1' - 0"

3 / SG.2 Elevation: Side B

Scale: 3/4" = 1' - 0"

1 ARROWS
- CIRCLE - 3" DIAMETER P4
- ARROW HT - 1 3/4"

2 DIRECTIONAL COPY
- DIN 2014 DEMI
- CAP HT - 7/8" P4 T3

3 GA TECH LOGO
- CUSTOM ART P7
- LOGO HT - 4"

MATERIAL:
- FABRICATED ALUM. CABINET -
  1" SQ. TUBE ALUM FRAME & 1/8" ALUM SKIN FACES
- 3" DIA. ALUM POST WITH "L-BRACKETS" ATTACHED TO BOTTOM OF POST TO SECURE IN CONCRETE
- PAINT AS SPECIFIED

HARDWARE/ FAB:
- NO VISIBLE HARDWARE
- SIGN IS DOUBLE SIDED
- SEAMLESS CONSTRUCTION / ALL SEAMS/ WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

COPY:
- DIN 2014 FAMILY
- CAP HT= AS SPECIFIED
- WATERJET CUT LETTERS (SEE DARWING SG.1.2 FOR DETAILS

INSTALL:
- INSTALL VIA DIRECT BURIAL OR CORE DRILL
- ALUM. POSTS SET IN MIN. OF 36" CONCRETE
- MINIMUM 4" BACKFILL AROUND POST
- PROVIDE CONCRETE MOWING PAD FOR GRASS/MOWING AREAS.

4 / SG.2 Specifications

Scale NTS

Georgia Tech

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

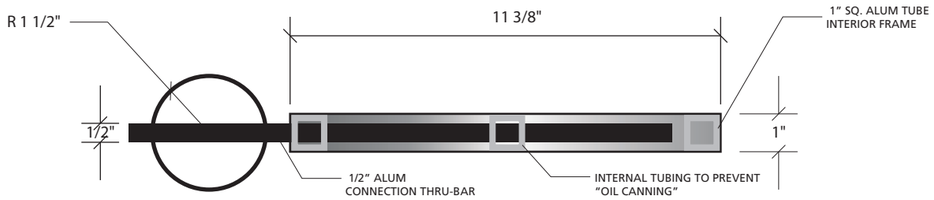
XB

Pedestrian Directional - Primary

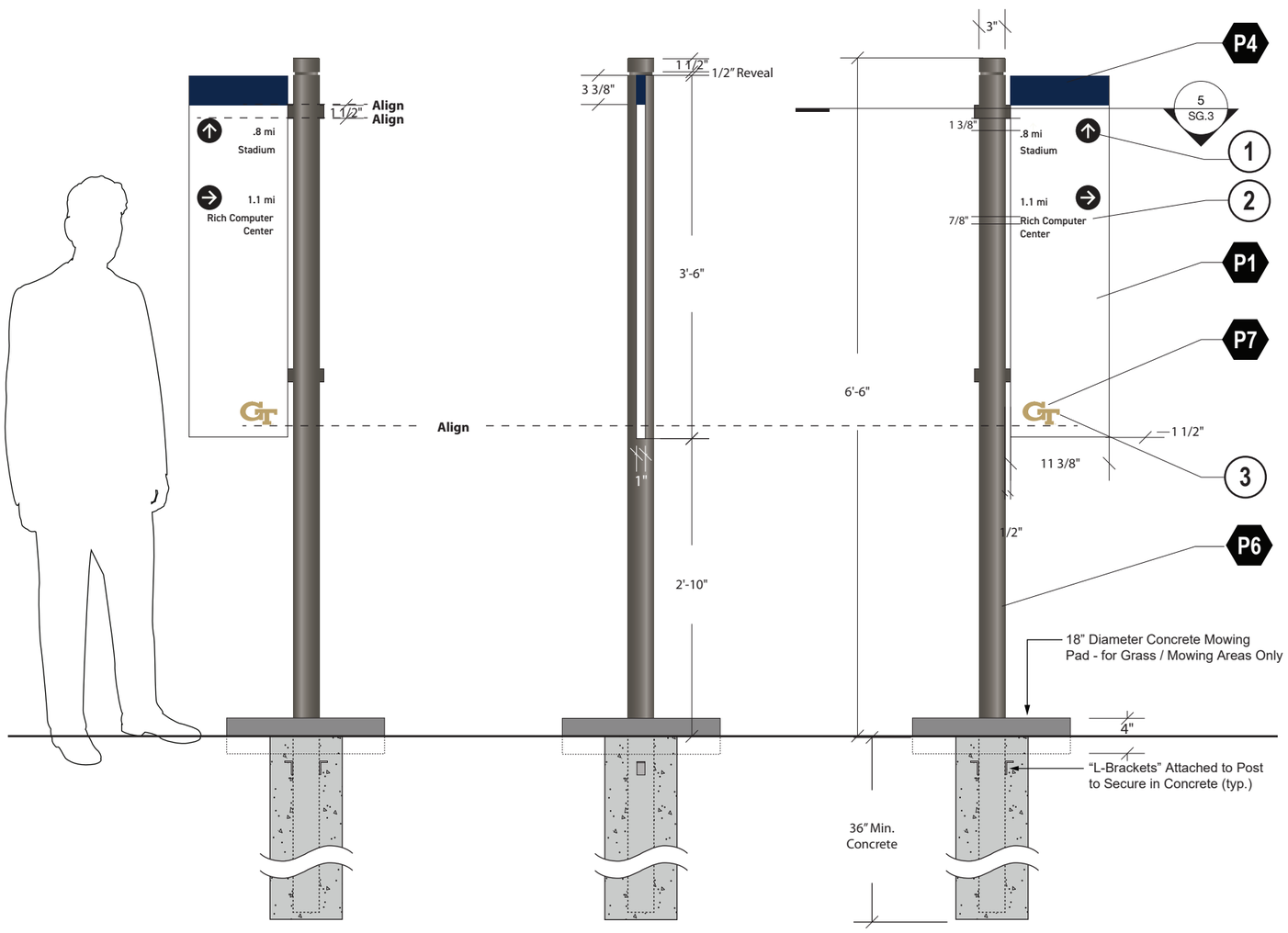
DRAWING SHEET

SG.2

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



5 / SG.3 Section - Top View
Scale: 3" = 1' - 0"



1 / SG.3 Elevation: Side A
Scale: 3/4" = 1' - 0"

2 / SG.3 Elevation - Side View
Scale: 3/4" = 1' - 0"

3 / SG.3 Elevation - Side B
Scale: 3/4" = 1' - 0"

1 ARROWS
- CIRCLE - 3" DIAMETER P4
- ARROW HT - 1 3/4"

2 DIRECTIONAL COPY
- DIN 2014 DEMI
- CAP HT - 7/8" P4 T3

3 GA TECH LOGO
- CUSTOM ART
- LOGO HT-2 5/8" P7

MATERIAL:
- FABRICATED ALUM. CABINET -
  1" SQ. TUBE ALUM FRAME & 1/8" ALUM SKIN FACES
- 3" DIA. ALUM POST WITH "L-BRACKETS" ATTACHED TO BOTTOM OF POST TO SECURE IN CONCRETE
- PAINT AS SPECIFIED

HARDWARE/ FAB:
- NO VISIBLE HARDWARE
- SIGN IS DOUBLE SIDED
- SEAMLESS CONSTRUCTION / ALL SEAMS/ WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

COPY:
- DIN 2014 FAMILY
- CAP HT= AS SPECIFIED
- WATERJET CUT LETTERS (SEE DARWING SG.1.2 FOR DETAILS

INSTALL:
- INSTALL VIA DIRECT BURIAL OR CORE DRILL
- ALUM. POSTS SET IN MIN. OF 36" CONCRETE
- MINIMUM 4" BACKFILL AROUND POST
- PROVIDE CONCRETE MOWING PAD FOR GRASS/MOWING AREAS.

4 / SG.3 Specifications
Scale NTS

Georgia Tech

EYP
eypae.com

100 Peachtree Street NW
Mezzanine
Atlanta, GA 30303

T 404 524 2200

PROJECT DATA

Project Number:

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 1/26/2022

Rev. No.	Description	Revision Date

TITLE

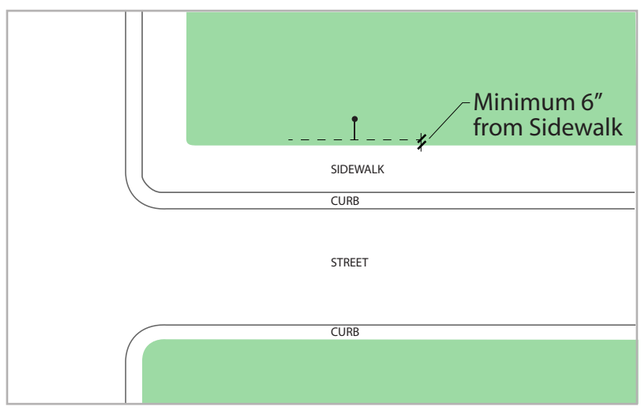
XB.1

Pedestrian Directional-Secondary

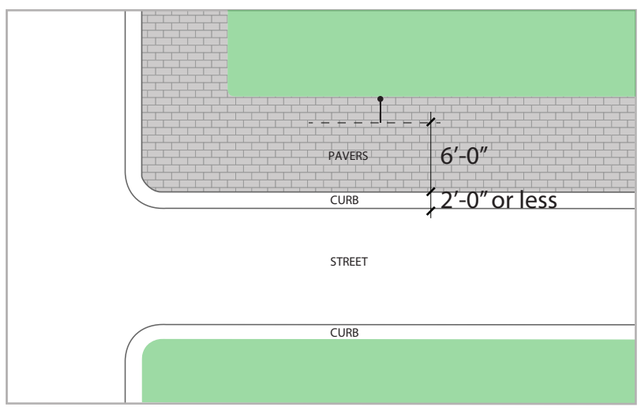
DRAWING SHEET

SG.3

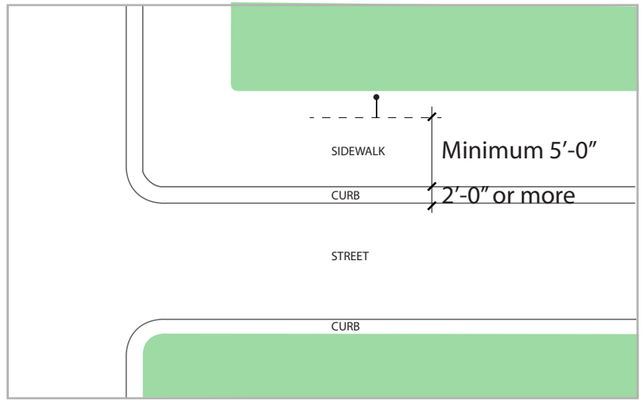
Principal-In-Charge: Veronique Pryor
Project Manager: Robyn Canady
EGD Designers:
Drawn by:
File Path:



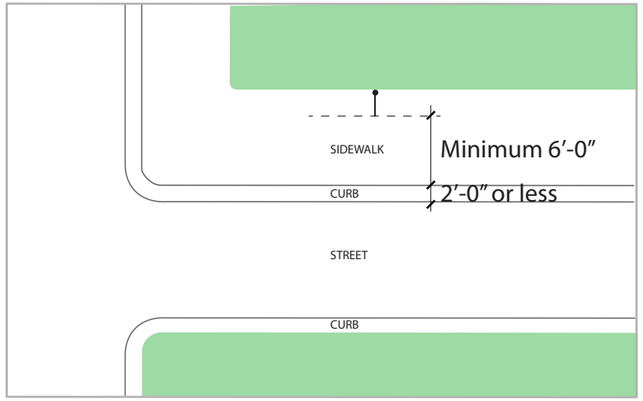
LANDSCAPE - RECOMMENDED



PAVERS



SIDEWALK - CURB WIDTH 2’-0” or more



SIDEWALK - CURB WIDTH 2’-0” or less

PLEASE NOTE

Field verification for underground utilities and any additional obstructions must occur prior to fabrication and installation.

1 / SG.3.1 Sign Location Guidelines
Scale NTS

Georgia Tech

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Mezzanine
Atlanta, GA 30303
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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

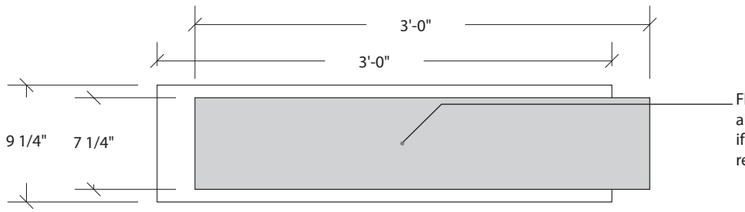
XB & XB.1

Pedestrian Directional-
Sign Location Guidelines

DRAWING SHEET

SG.3.1

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



5 SG.4 Plan View
Scale: 1" = 1'-0"

MATERIAL:
- ALUMINUM FABRICATED PYLON, WITH REVEAL AT BOTTOM, MASKED AND PAINTED WITH REMOVABLE INSIDE SHOEBOX MESSAGE PANELS.

FACE:
- .125" ALUMINUM WITH ROUTED OUT COPY, BACKED WITH .1875" ACRYLIC COPY, PAINTED AS SHOWN.

REMOVABLE NAME AND ADDRESS PANEL:
SHOEBOX DESIGN FASTENED MECHANICALLY WITH COUNTERSUNK SCREWS. FACES TO BE .125" ALUMINUM WITH ROUTED OUT COPY BACKED WITH .1875" ACRYLIC, PAINTED. VARIOUS COLORS, AS SHOWN

CONCRETE BASE:
- 4" DEEP FORMED, POURED CONCRETE BASE SKIRT LARGER THAN SIGN TO PROTECT BOTTOM OF THE SIGN.
- CLEAR COAT OF UV PROTECTION ON ALL EXTERIOR SIGNS. FRONT AND BACK.

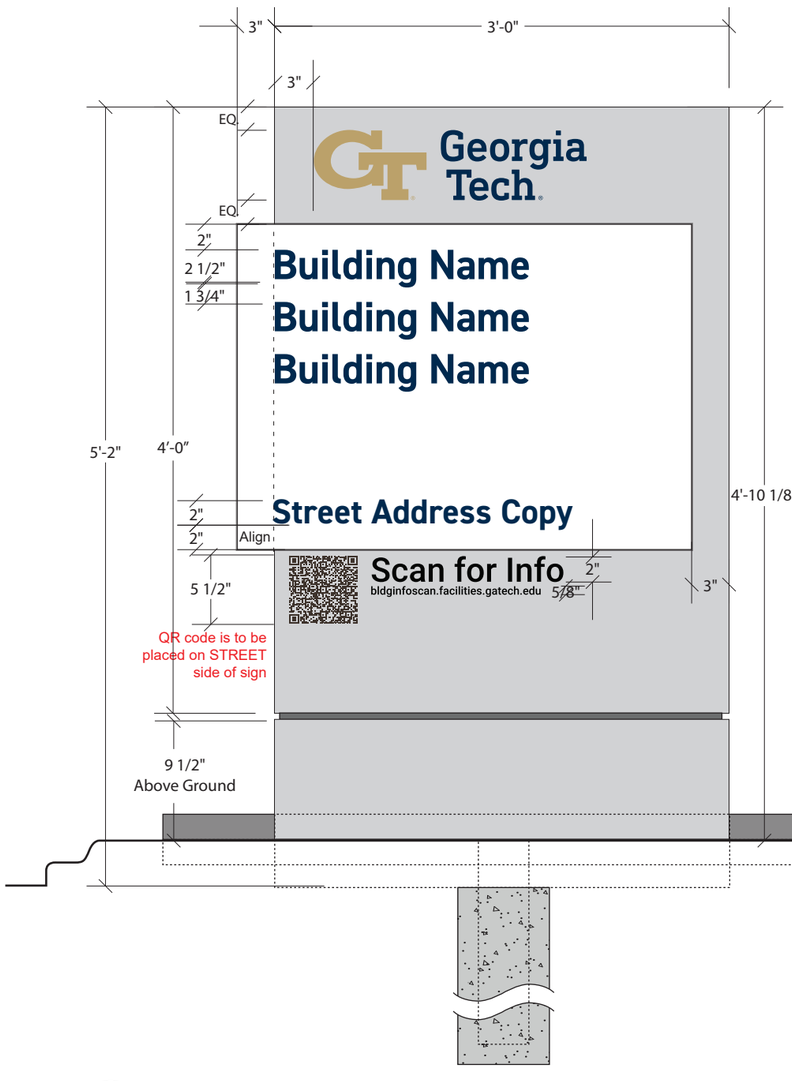
QR CODE SPECS:
DIGITALLY PRINTED VINYL, CONTOUR CUT AND APPLIED TO MONUMENT BASE.

COPY:
- DIN 2014 FAMILY
- CAP HT= AS SPECIFIED
- WATER-JET CUT LETTERS (SEE DRAWING SG.1.2 FOR DETAILS

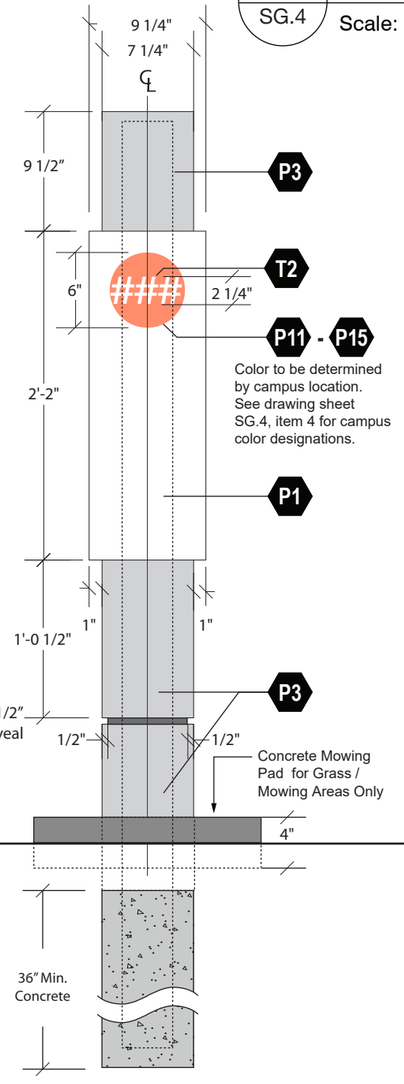
HARDWARE/ FAB:
- NO VISIBLE HARDWARE
- SIGN IS DOUBLE SIDED
- SEAMLESS CONSTRUCTION / ALL SEAMS/WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

INSTALL:
- INSTALL VIA BURIAL INTO CONCRETE FOUNDATION
- ALUMINUM POSTS SET IN MIN. OF 36" CONCRETE
- MINIMUM 4" BACKFILL AROUND BASE SKIRT

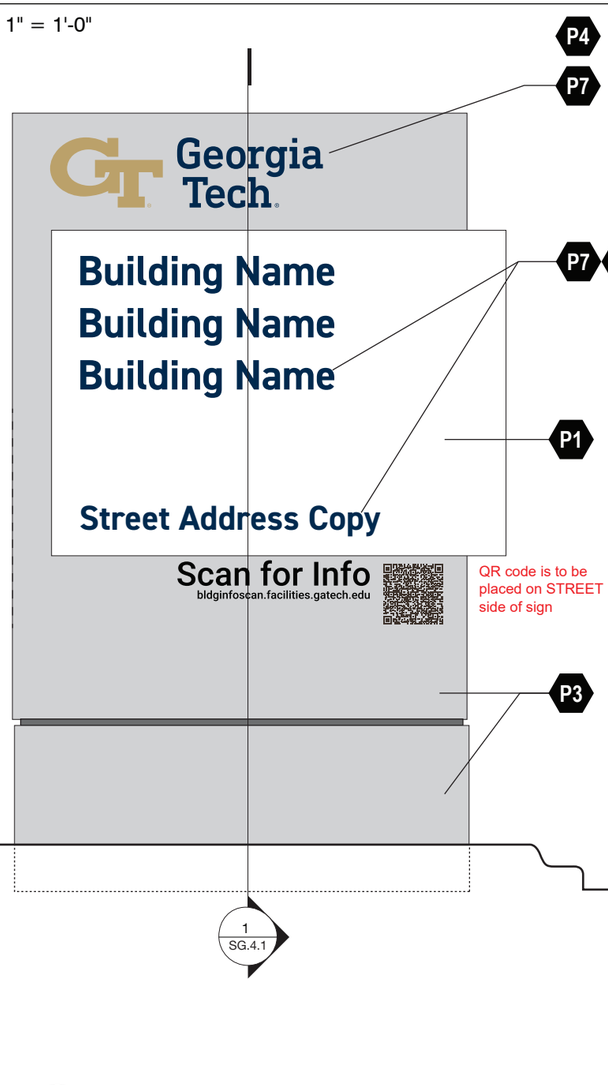
6 SG.4 Specifications
Scale: 1" = 1'-0"



1 SG.4 Elevation_Side A
Scale: 1" = 1'-0"



2 SG.4 Elevation - Side /Street View
Scale: 1" = 1'-0"



3 SG.4 Elevation_Side B
Scale: 1" = 1'-0"

P11 SOUTHWEST
P12 CENTRAL
P13 NORTHEAST
P14 TECH SQUARE
P15 NORTHWEST

4 SG.4 Campus Map Area Colors
Scale: NTS

Georgia Tech

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100 Peachtree Street, NW
Mezzanine
Atlanta, GA 30303
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TEL 404-524-2200

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

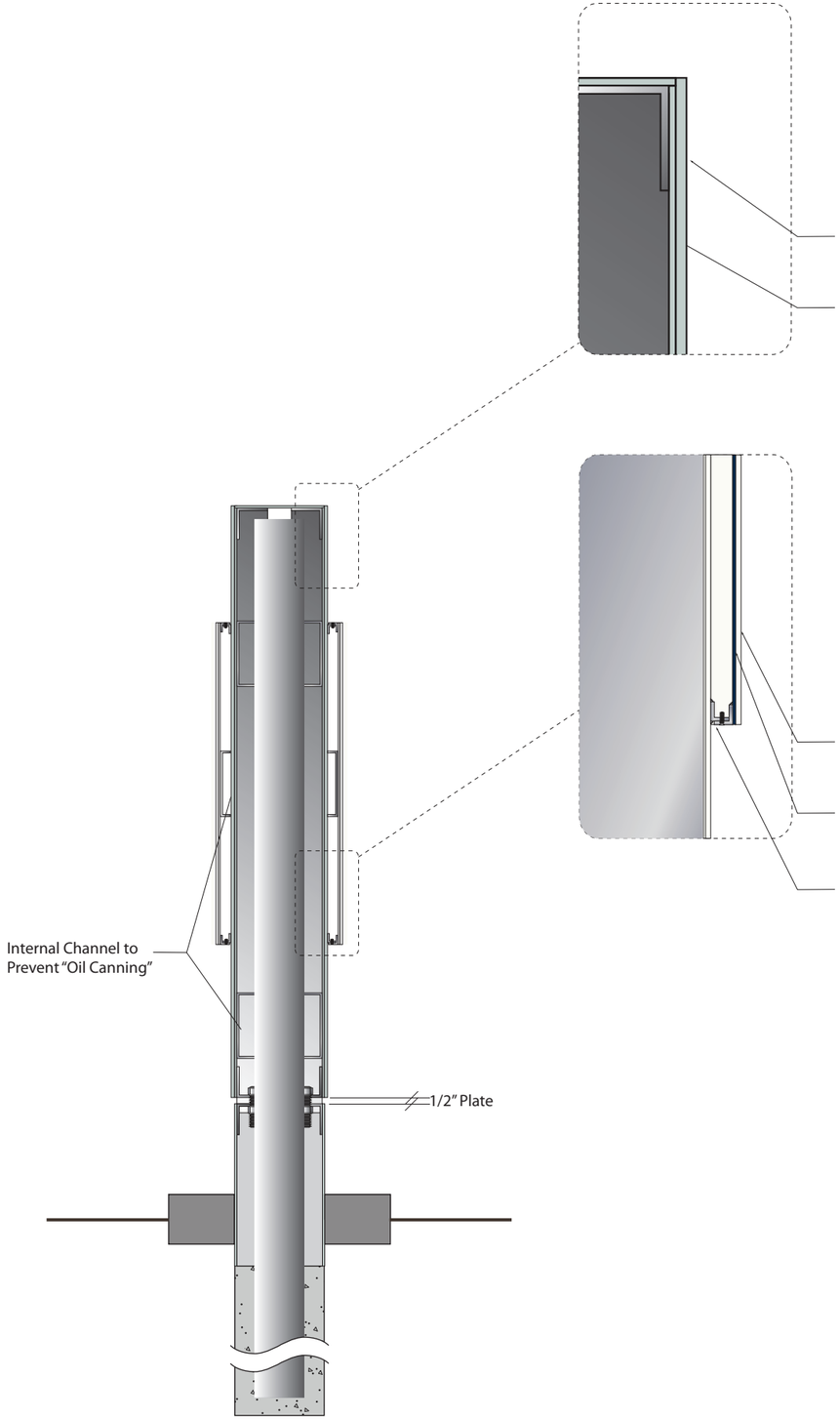
Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XI
Primary Building ID

DRAWING SHEET
SG.4

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021

- MINIMUM 4" BACKFILL AROUND POST FOR GRASS/MOWING AREAS

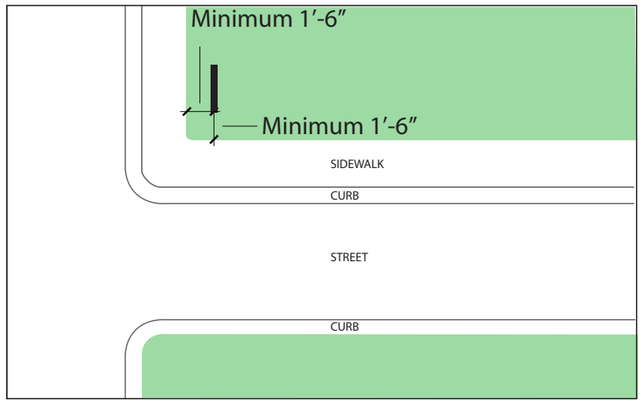


1 SG.4.1 Elevation - Side /Street View

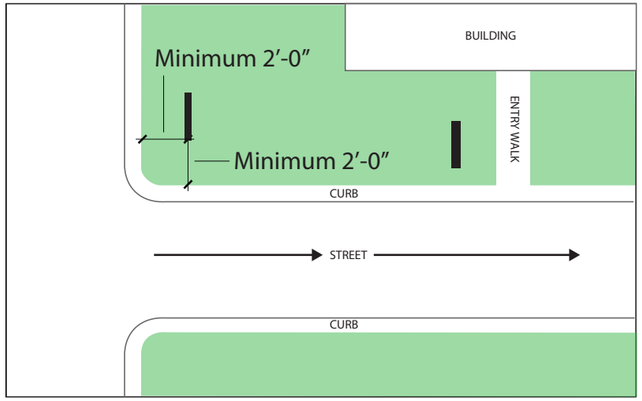
Scale: 1" = 1'-0"

PLEASE NOTE

Field verification for underground utilities and any additional obstructions must occur prior to fabrication and installation.



LANDSCAPE WITH SIDEWALK



LANDSCAPE/NO SIDEWALK

2 SG.4.1 Sign Location Guidelines

Scale: NTS

Georgia Tech

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

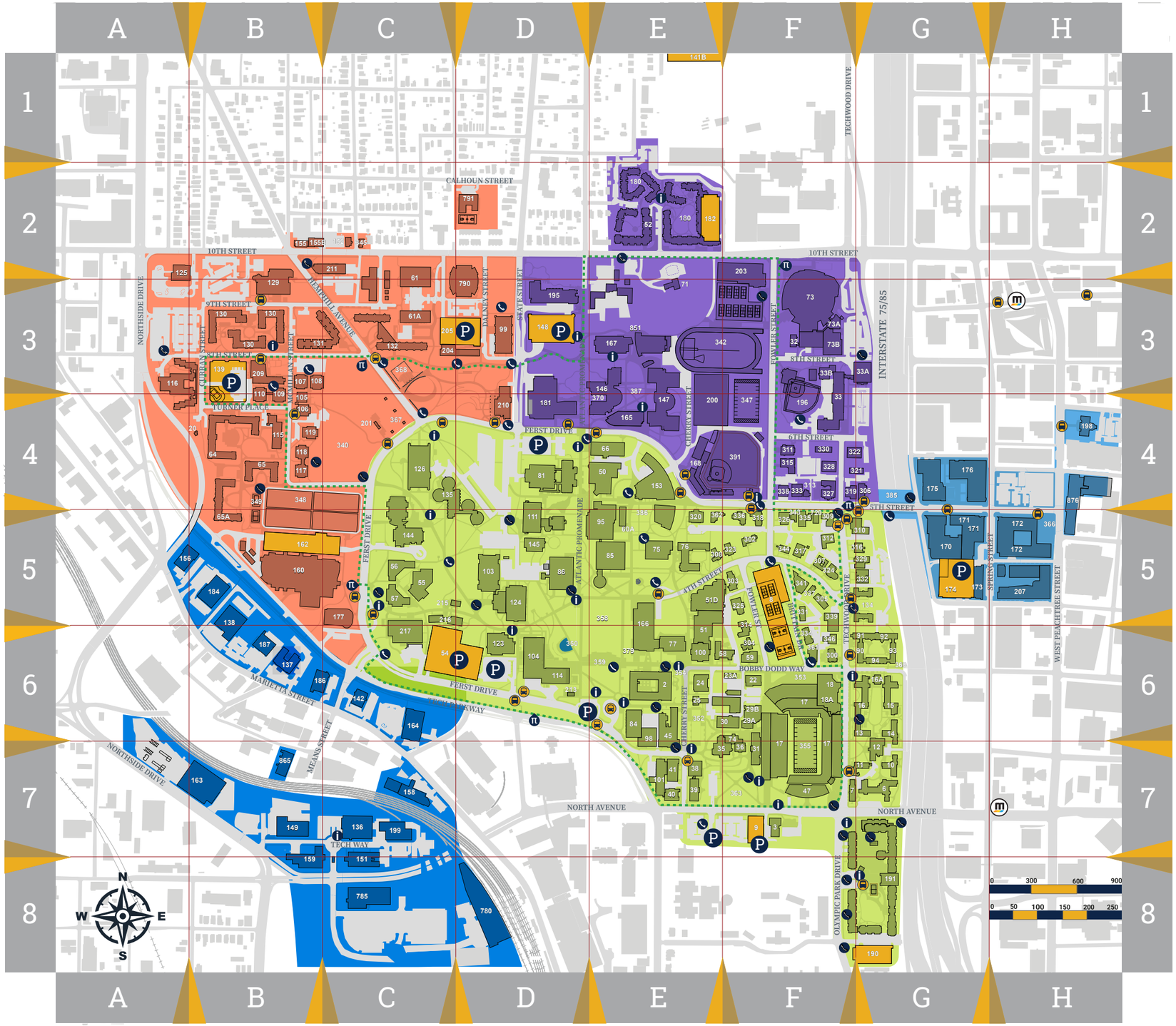
Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XI
Primary Building ID

DRAWING SHEET
SG.4.1

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding \4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



For more information, please visit:
map.gatech.edu

- Marta Station
- Stinger/Bus Stop
- Pi Mile Route
- Construction Zone
- Campus Directory Map
- Visitor Parking
- Pi Mile Entry
- **Emergency Telephones**
  Emergency telephones providing a direct line to Georgia Tech police are located throughout campus. They may be used for any incident, accident, emergency, or fire. After dark, many of these phones are identified by a blue light.

Georgia Tech

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PROJECT DATA

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14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XI
Primary Building ID Campus Map

DRAWING SHEET
SG.4.2

Principal-In-Charge: David Deis
Project Manager: CB/PN
EGD Designers: CB
Drawn by: CB
File Path: Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021

P11 SOUTHWEST

P12 CENTRAL

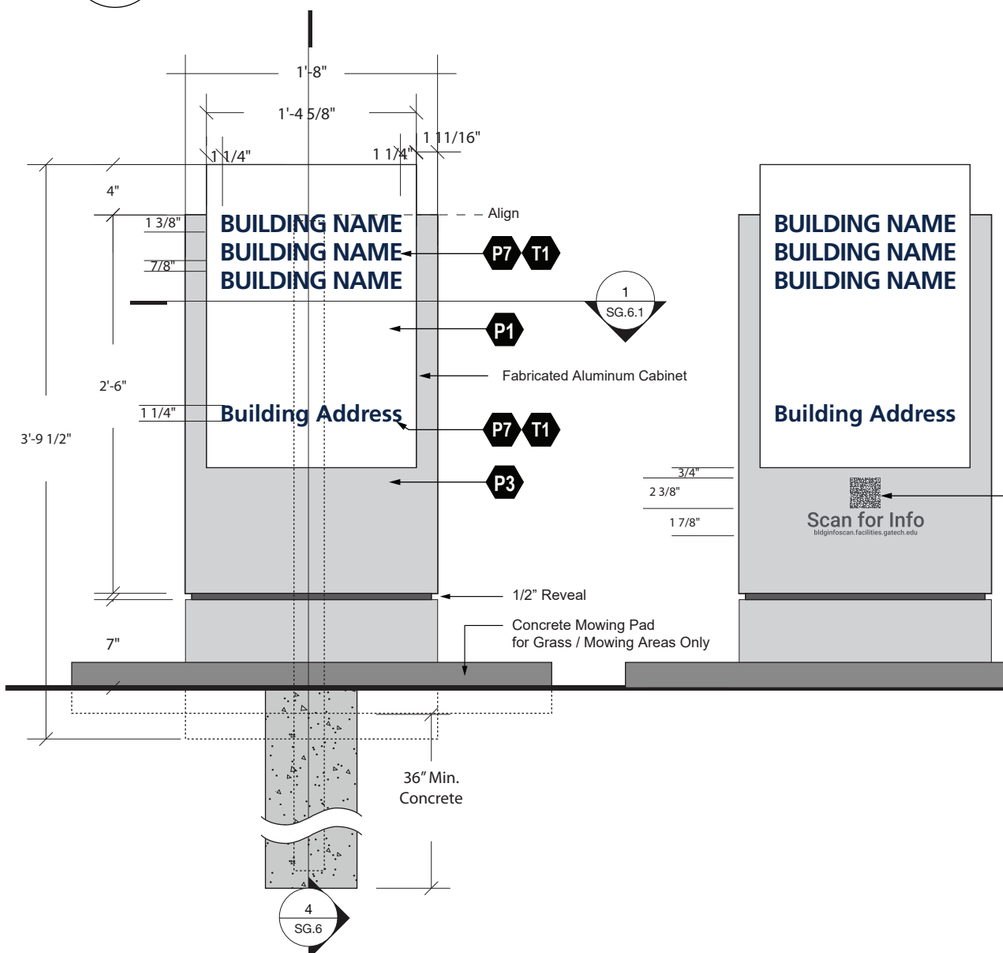
P13 NORTHEAST

P14 TECH SQUARE

P15 NORTHWEST

6 / SG.5 Campus Map Area Colors for Exterior Monument Signs

Scale: 1" = 1'-0"



1 / SG.5 Elevation - Side A&B

Scale: 1" = 1'-0"

1 / SG.5 Elevation - Side A&B With QR Code

Scale: 1" = 1'-0"

MATERIAL:
- ALUMINUM FABRICATED PYLON, WITH REVEAL AT BOTTOM, MASKED AND PAINTED WITH REMOVABLE INSIDE SHOEBOX MESSAGE PANELS.

FACE:
- .125" ALUMINUM WITH ROUTED OUT COPY, BACKED WITH .1875" ACRYLIC COPY, PAINTED AS SHOWN.
- CLEAR COAT OF UV PROTECTION ON ALL EXTERIOR SIGNS. FRONT AND BACK.

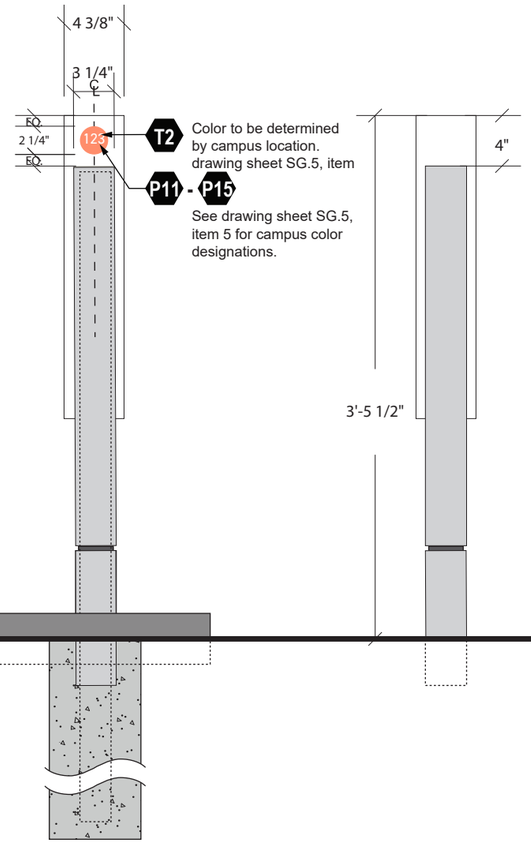
COPY:
- DIN 2014 FAMILY
- CAP HT= AS SPECIFIED
- WATER-JET CUT LETTERS (SEE DRAWING SG.1.2 FOR DETAILS

HARDWARE/ FAB:
- NO VISIBLE HARDWARE
- SIGN IS DOUBLE SIDED
- SEAMLESS CONSTRUCTION / ALL SEAMS/WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

INSTALL:
- INSTALL VIA BURIAL INTO CONCRETE FOUNDATION
- ALUMINUM POSTS SET IN MIN. OF 36" CONCRETE
- MINIMUM 4" BACKFILL AROUND BASE SKIRT

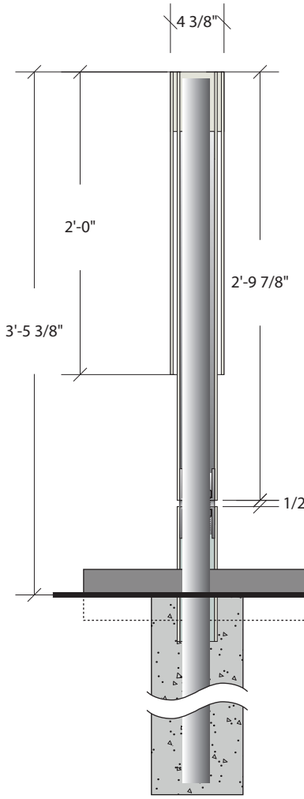
7 / SG.5 Specifications

Scale: 1" = 1'-0"



3 / SG.5 Elevation - Street View

Scale: 1" = 1'-0"



4 / SG.5 Elevation - Building View

Scale: 1" = 1'-0"

5 / SG.5 Section

Scale: 1" = 1'-0"

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Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XJ

Secondary Building ID

DRAWING SHEET

SG.5

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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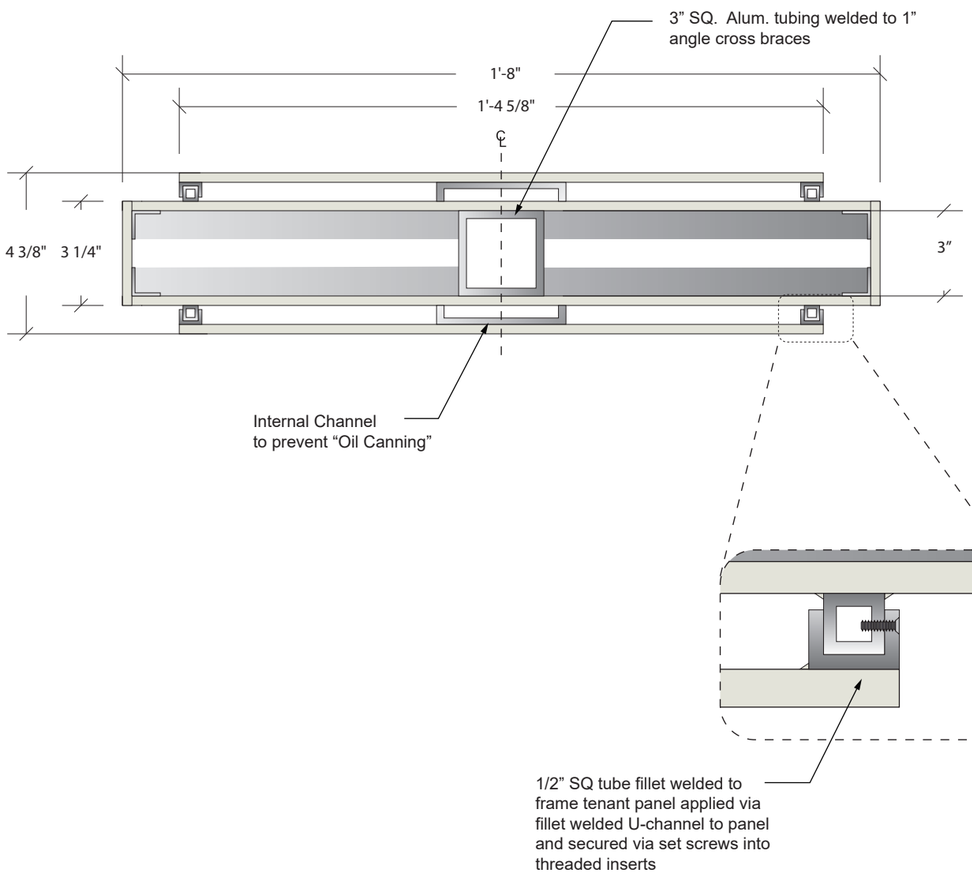
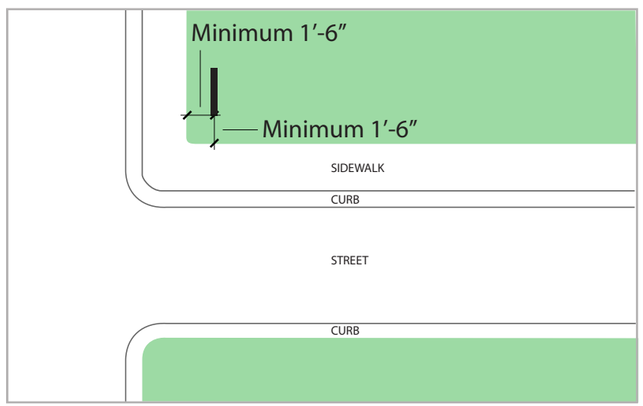


1 SG.5.1 Section

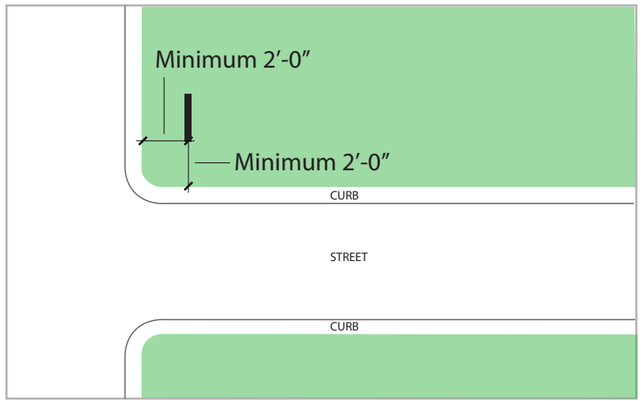
Scale: 3" = 1'-0"

PLEASE NOTE

Field verification for underground utilities and any additional obstructions must occur prior to fabrication and installation.



LANDSCAPE WITH SIDEWALK



LANDSCAPE/NO SIDEWALK

2 SG.5.1 Sign Location Guidelines

Scale: NTS

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1	Updated XM.1, XM.2 and XM.3

TITLE

XJ

Secondary Building ID

DRAWING SHEET

SG.5.1

Principal-In-Charge:
David Deis

Project Manager:
CB/PN

EGD Designers:
CB

Drawn by:
CB

File Path:
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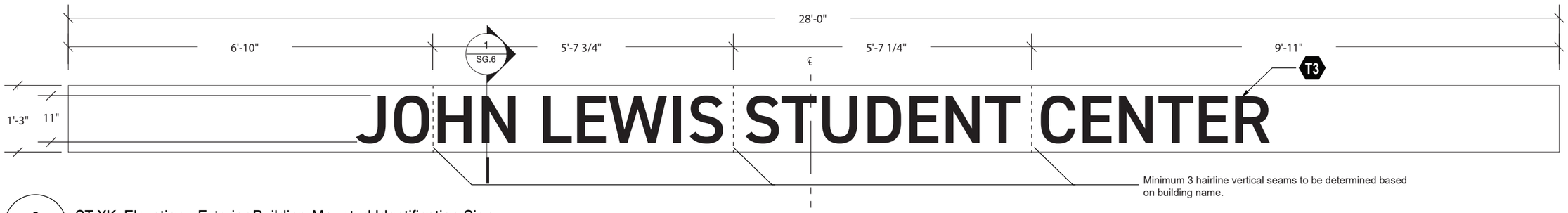
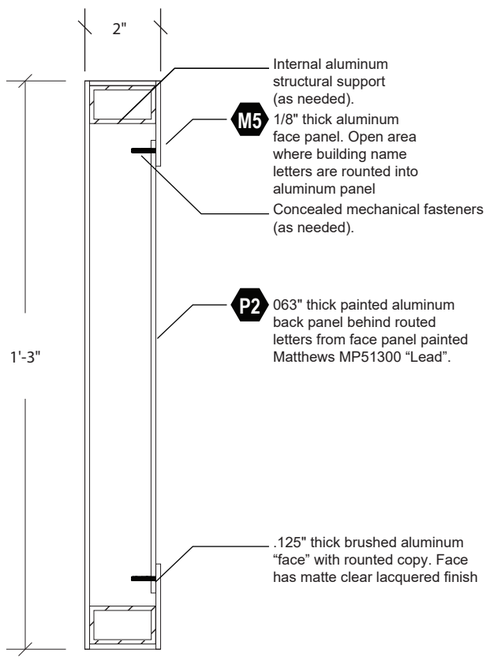


2
SG.6

ST XK. Elevation - Exterior Building-Mounted Identification Sign

Scale: 1" = 1'-0"



1
SG.6

ST XK. Section - Exterior Building-Mounted Identification Sign

Scale: 1" = 1'-0"

MATERIAL:
- FABRICATED ALUM. CABINET - 28’-0" x 1'-3" x 1/8" ALUM SKIN FACES
- 3/4” ALUM ANGLE TUBING WELD TO 2 1/2“ ANGLE CROSS BRACES
- SURFACE PAINTED AS SPECIFIED
- CLEAR COAT OF UV PROTECTION ON ALL EXTERIOR SIGNS. FRONT AND BACK.

COPY:
- ROUTED INTO FACE PLATE AND BACKED WITH .063" THICK ALUMINUM PANEL. PANEL IS PAINTED TO MATCH SC-914/MX 10 LEAD.
- DIN 2014 FAMILY
- CAP HT= AS SPECIFIED

HARDWARE/ FAB:
- NO VISIBLE HARDWARE

- SEAMLESS CONSTRUCTION / ALL SEAMS/WELDS TO BE FILLED, GROUND, SANDED, FINISHED SMOOTH

INSTALL:
- INSTALL VIA FLUSH MOUNT WITH HIDDNENFASTENERS

3
SG.6

Specifications

Scale: 1" = 1'-0"

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Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XK

Exterior Building Mounted ID

DRAWING SHEET

SG.6

Principal-In-Charge:
David Deis

Project Manager:
CB/PN

EGD Designers:
CB

Drawn by:
CB

File Path:
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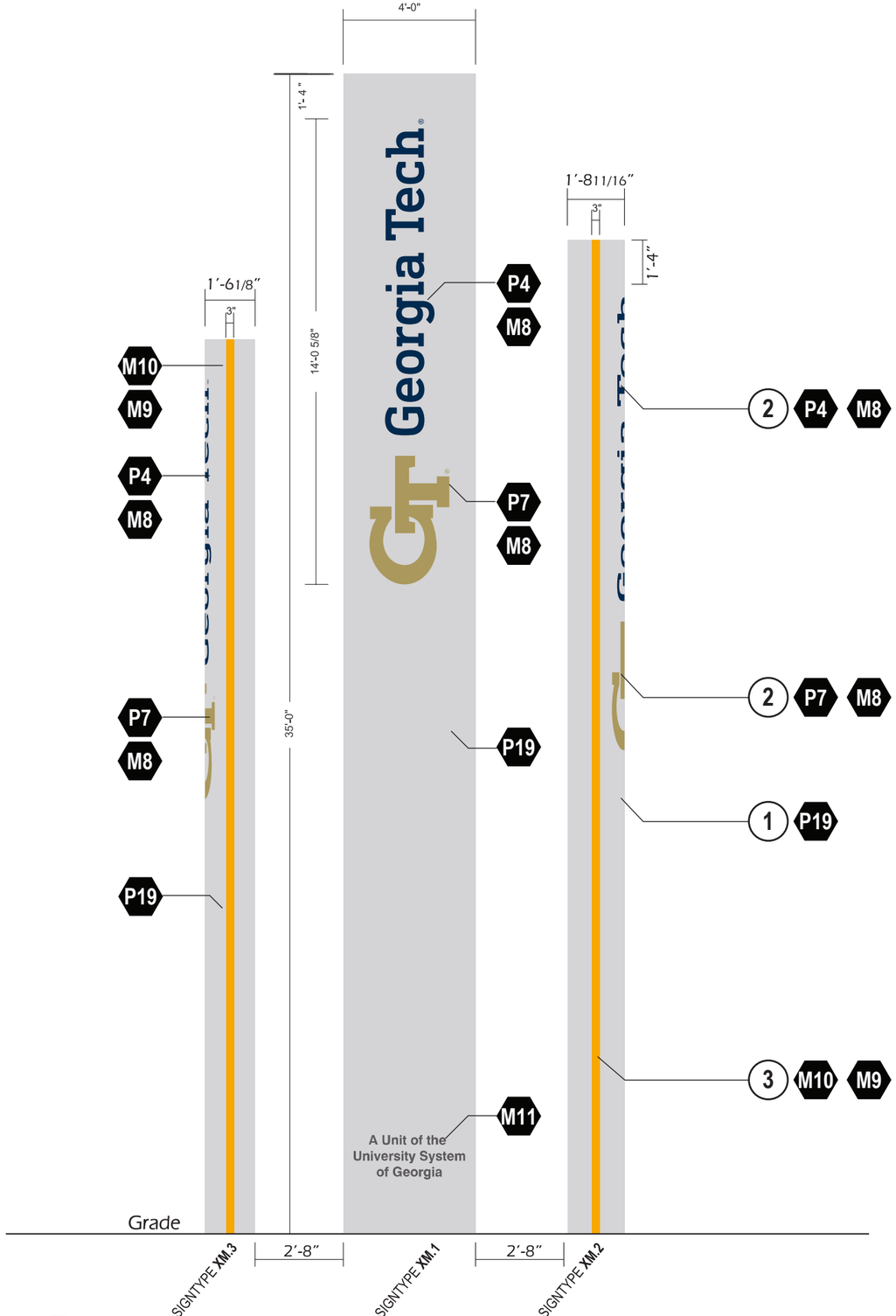

1 MATTHEWS ACRYLIC POLYURETHANE
MP303136 BRUSHED ALLUMINUM
.125 THICK ROLLED WITH ROUTED LETTERS.

2 ROUTED AND BACKED COPY.

3 LEXAN WINDOW ILLUMINATED BY BITRO
OMEGA PRIME LED 2" X 1/4" THICK
POLYCARBONATE (LEXAN) WINDOW
TYPICAL BOTH SIDES.

1 SG.7 ST. XM - COLOR AND MATERIAL CALL-OUTS
Scale: 1/4" = 1' - 0"

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Georgia Institute of Technology
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Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XM.1, 2 & 3

Pylon - Material and Color Callouts

DRAWING SHEET

SG.7

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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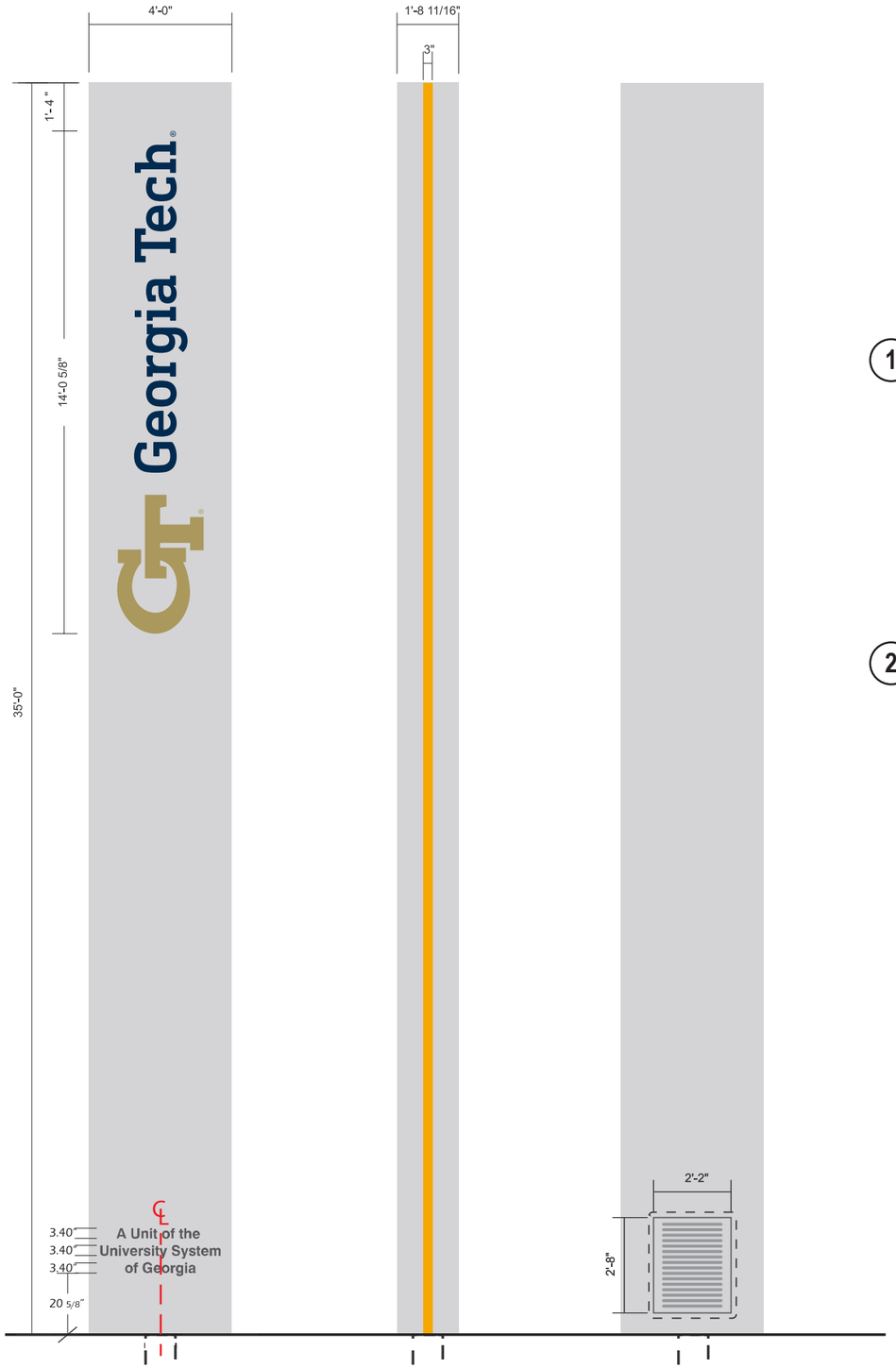
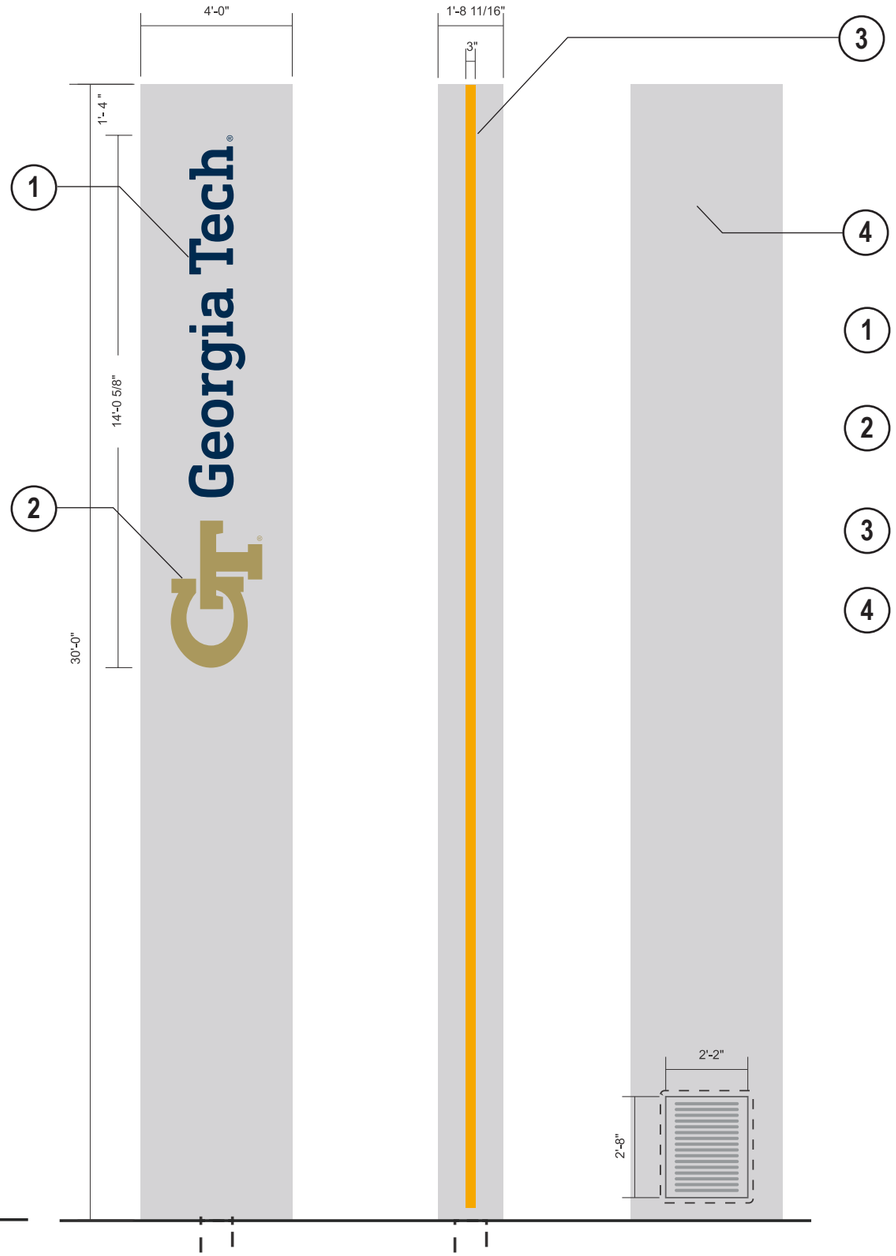
\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



1 SG.7.1 ST. XM.1 - FRONT ELEVATION
Scale: 1/4" = 1' - 0"

2 SG.7.1 ST. XM.1 - SIDE VIEW
Scale: 1/4" = 1' - 0"

3 SG.7.1 ST. XM.1 - BACK ELEVATION
Scale: 1/4" = 1' - 0"



1 DIGITALLY PRINTED TO MATCH P4 "TECH NAVY" - PANTONE 540C ON 3M DUAL WHITE COLOR VINYL.

2 DIGITALLY PRINTED TO MATCH P7 "TECH GOLD" - PANTONE 4515C ON 3M DUAL WHITE COLOR VINYL.

3 VINYL TO MATCH M10 "GOLD NUGGET" 3M 3630-141

4 PAINTED TO MATCH MATTHEWS - MP30136 "BRUSHED ALUMINUM"

4 SG.7.1 ST. XM.2 - FRONT ELEVATION
Scale: 1/4" = 1' - 0"

5 SG.7.1 ST. XM.2 - SIDE VIEW
Scale: 1/4" = 1' - 0"

6 SG.7.1 ST. XM.2 - BACK ELEVATION
Scale: 1/4" = 1' - 0"

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XM.1 and 2
Fabrication Details

DRAWING SHEET
SG.7.1

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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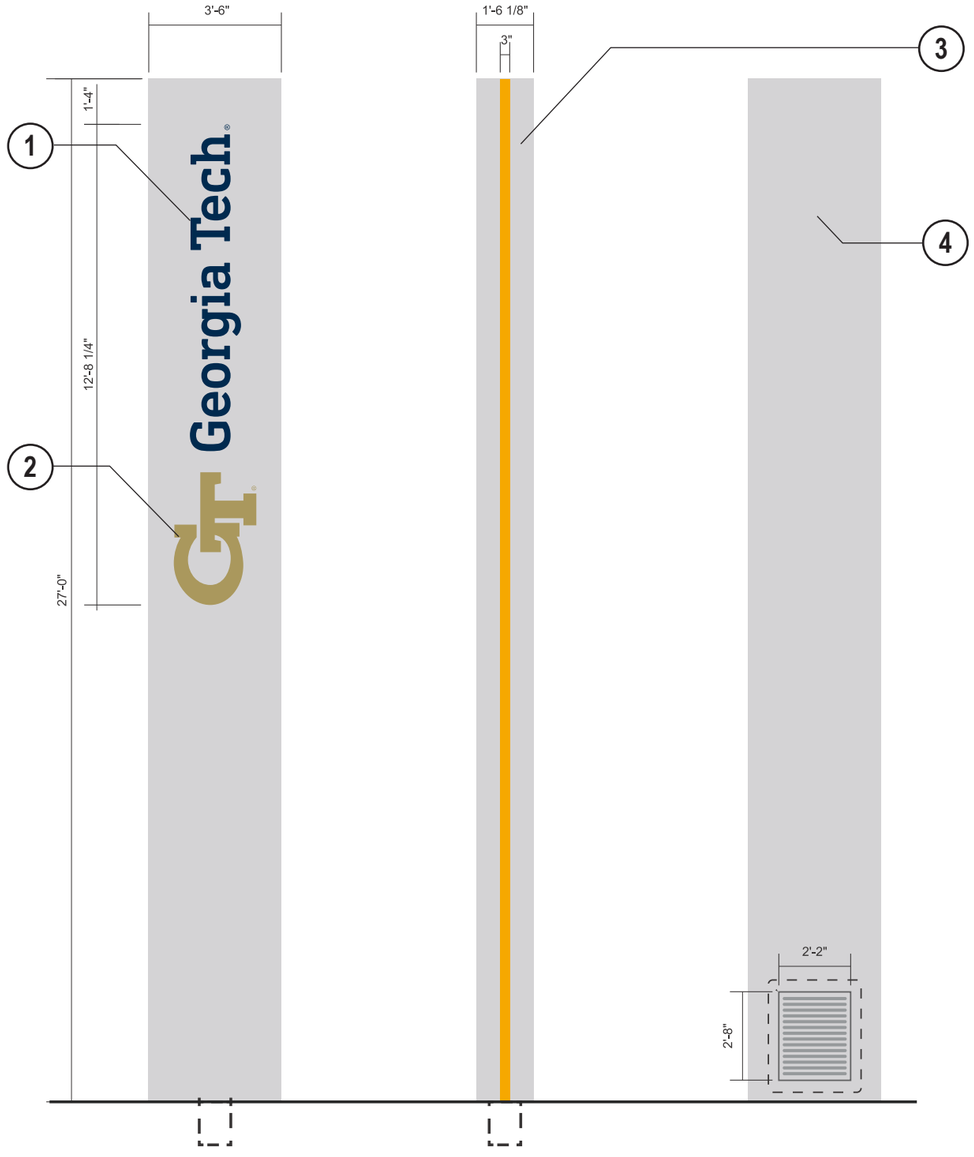

1 ST. XM.3 - FRONT ELEVATION
SG.7.2 Scale: 1/4" = 1' - 0"

2 ST. XM.3 - SIDE VIEW
SG.7.2 Scale: 1/4" = 1' - 0"

3 ST. XM.3 - BACK ELEVATION
SG.7.2 Scale: 1/4" = 1' - 0"

1. DIGITALLY PRINTED TO MATCH P4 "TECH NAVY" - PANTONE 540C ON 3M DUAL WHITE COLOR VINYL.
2. DIGITALLY PRINTED TO MATCH P7 "TECH GOLD" - PANTONE 4515C ON 3M DUAL WHITE COLOR VINYL.
3. VINYL TO MATCH M10 "GOLD NUGGET" 3M 3630-141
4. PAINTED TO MATCH MATTHEWS - MP30136 "BRUSHED ALUMINUM"

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PROJECT DATA

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Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XM.3
Fabrication Detail

DRAWING SHEET

SG.7.2

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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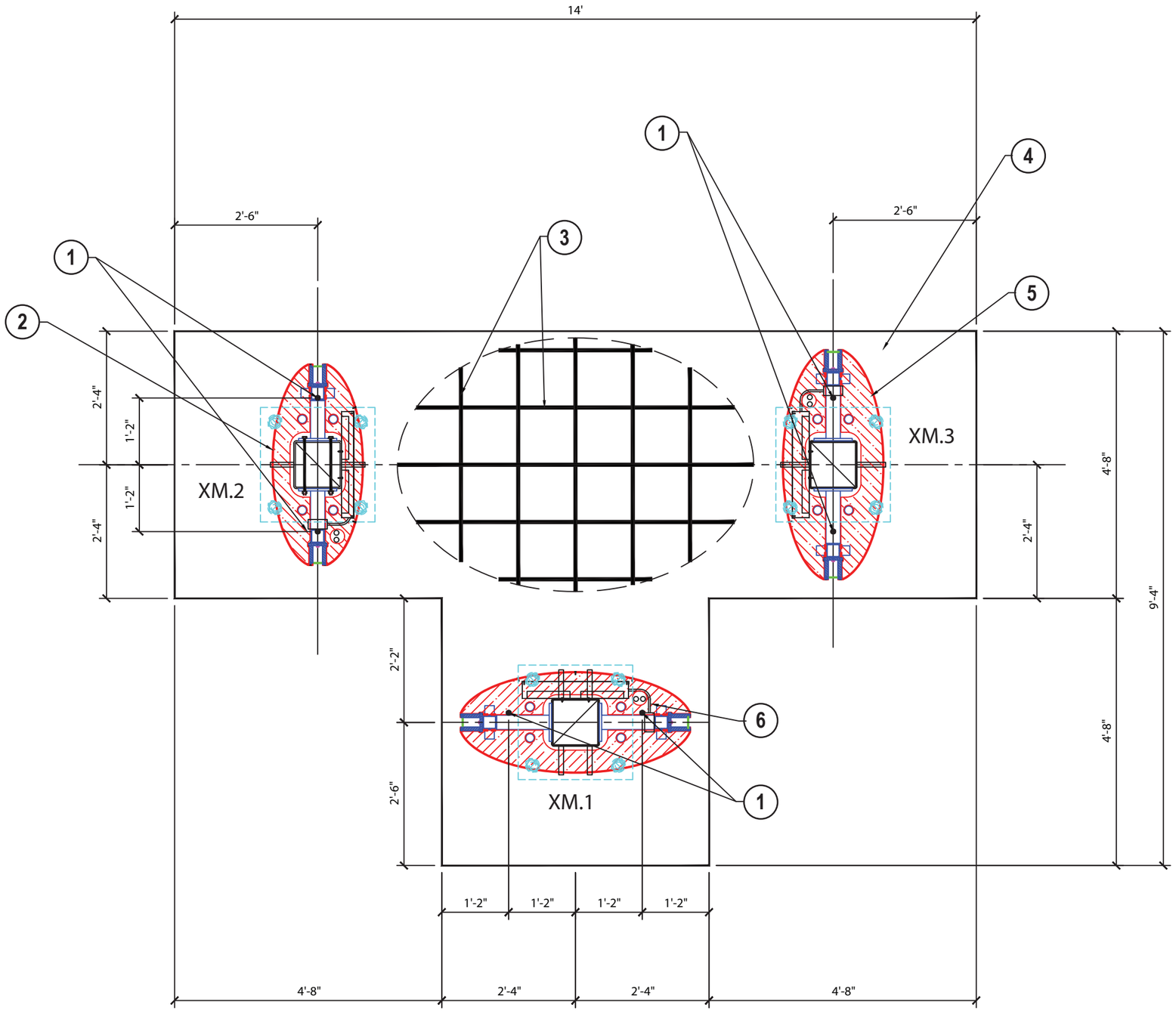

1 #8 X 24" REBAR DOWELS EXPOXYED 12" INTO THE ROCK TO PREVENT LATERAL MOVEMENT.

2 SIGN TYPE XM2 4'-0" X 30'-0"

3 QUANTITY 2 REBAR MATS 1 AT 6" OFF BOTTOM AND 16" FROM TOP. # 6 REBAR @ 12" O.C. BOTH DIRECTIONS, TIED.

4 NEW CONCRETE FOUNDATION CONCRETE TO BE 4000 PSI

5 SIGN TYPE XM3 3'-6" X 27'-0" (SIMILAR DETAILS)

6 SIGN TYPE XM1 4'-0" X 35'-0" (SIMILAR DETAILS)

PLEASE NOTE

The pylon locations shown here is for material and fabrication only. Exact location and number of pylons will be determined for each individual project.

1 / SG.7.3 ST. XM - BACK FOUNDATION PLAN VIEW
Scale: 1/2" = 1' - 0"

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TITLE

XM.1, 2 & 3
Typical Foundation Plan

DRAWING SHEET

SG.7.3

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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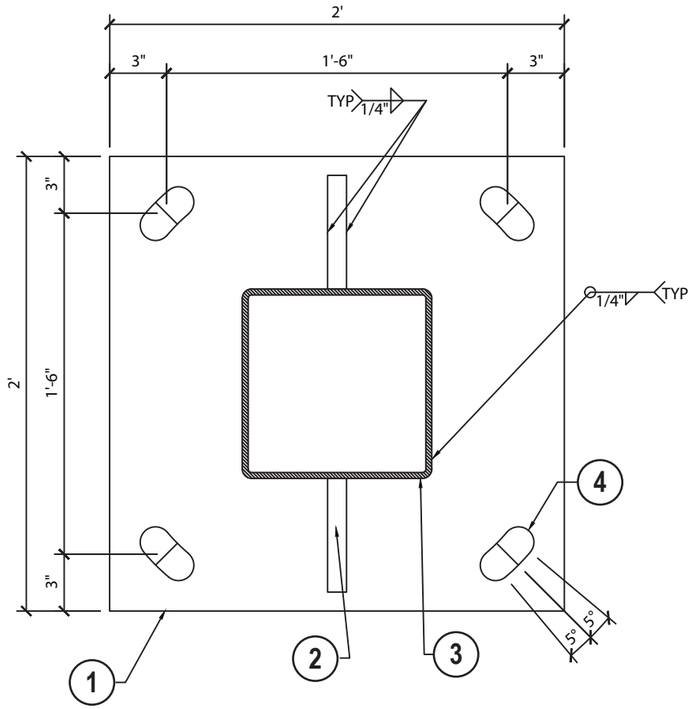
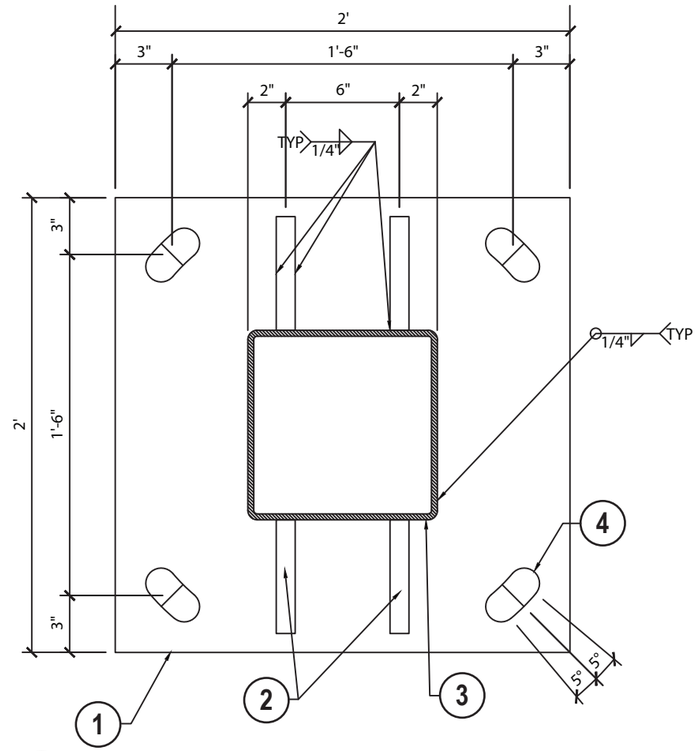


1 SG.7.4 ST. XM.2 & 3 - 2'-0" X 2'-0" X 2 1/2" A36 STEEL BASE PLATE
Scale: 1-1/2" = 1' - 0"



2 SG.7.4 ST. XM.1 - 2'-0" X 2'-0" X 2 1/2" A36 STEEL BASE PLATE
Scale: 1-1/2" = 1' - 0"

1. ASTM A36 STEEL PLATE
2. 6" X 6" X 1" A36 STEEL GUSSET PLATES, TYP. (4)
3. 10" X 10" X 5/16" ASTM A500 GR B CENTER SUPPORT STEEL TUBE
4. 1-5/8" DIA. HOLES

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TITLE

XM.1, 2 & 3
Typical Base Plate

DRAWING SHEET

SG.7.4

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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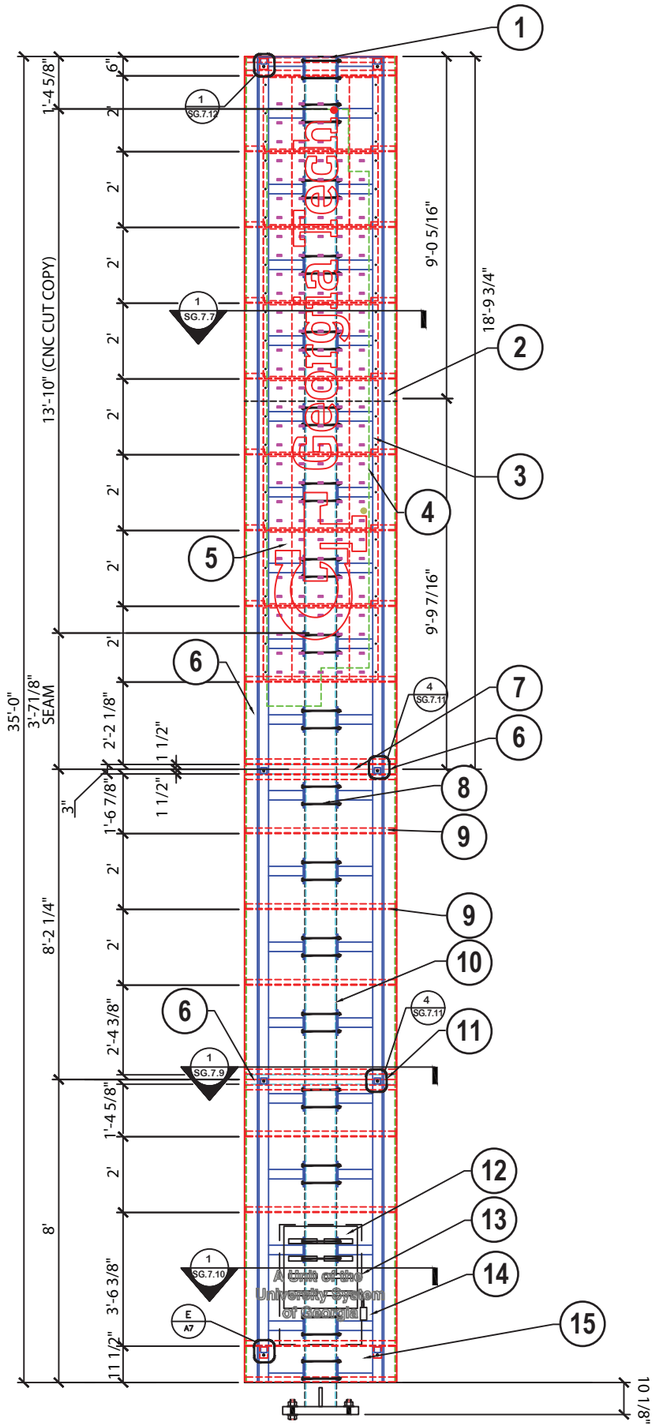
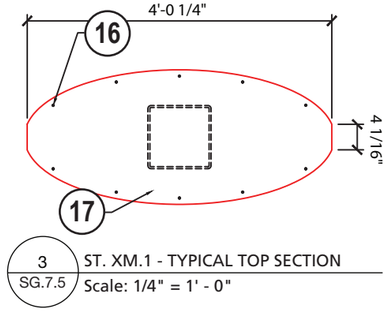
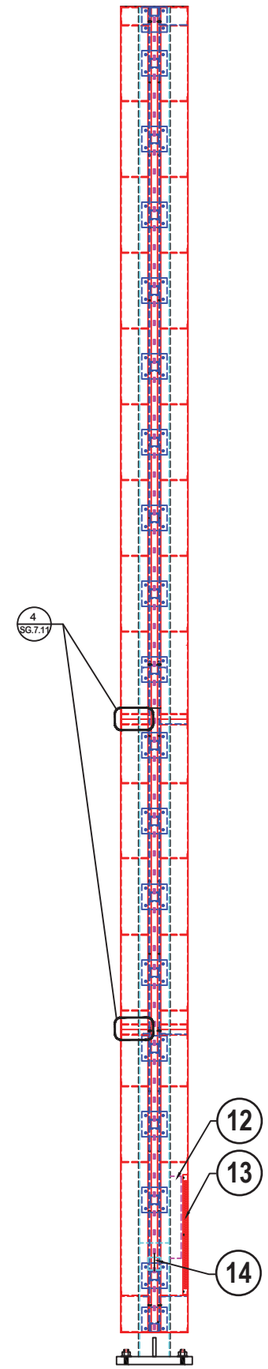


1 SG.7.5 — ST. XM.1 - TYPICAL SECTION
Scale: 1/4" = 1' - 0"



3 SG.7.5 — ST. XM.1 - TYPICAL TOP SECTION
Scale: 1/4" = 1' - 0"



3 SG.7.5 — ST. XM.1 - TYPICAL SIDE SECTION
Scale: 1/4" = 1' - 0"

1. CAP STEEL POLE WITH STEEL PLATE. WELD NUT ON INSIDE OF PLATE FOR LIFTING.
2. THIS SEAM IN THE ALUMINUM SKIN TO BE WELDED AND FINISHED OUT.
3. 3" X 3 1/4" X " ALUMINUM TUBE FRAME (SEE SHEET 7 OF 12 FOR DETAILS).
4. LEXAN BACKER
5. CNC CUT OUT COPY.
6. HAIRLINE SEAM.
7. PROVIDE .125 LAP STRIP BEHIND SEAM.
8. 1/2" DIA. STAINLESS STEEL HEX HEAD BOLTS WITH NUTS AND WASHERS.
9. 1 1/2" TALL .125 ALUMINUM RETURN WELDED TO CNC CUT RIB.
10. 10" x 10" x 5 5/16" ASTM A500 GR B STEEL TUBE.
11. PROVIDE .125 LAP STRIP BEHIND SEAM.
12. FABRICATED ALUMINUM BOX FOR LED POWER SUPPLYS. BOX TO HAVE REMOVABLE COVER.
13. ACCESS PANEL ON OPPOSITE SIDE.
14. 4" X 4" J-BOX ATTACH TO FRAME.
15. 120/277 VOLT ELECTRICAL SERVICE TO SIGN LOCATION BY OTHERS. BONDED CONNECTIONS PER UL (INTERNAL).
16. 10 / 24 STAINLESS STEEL COUNTERSUNK SCREWS.
17. REMOVABLE TOP.

PLEASE NOTE
Electrical service and bonded connections to sign location is by others.

PLEASE NOTE
These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.

Georgia Tech

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

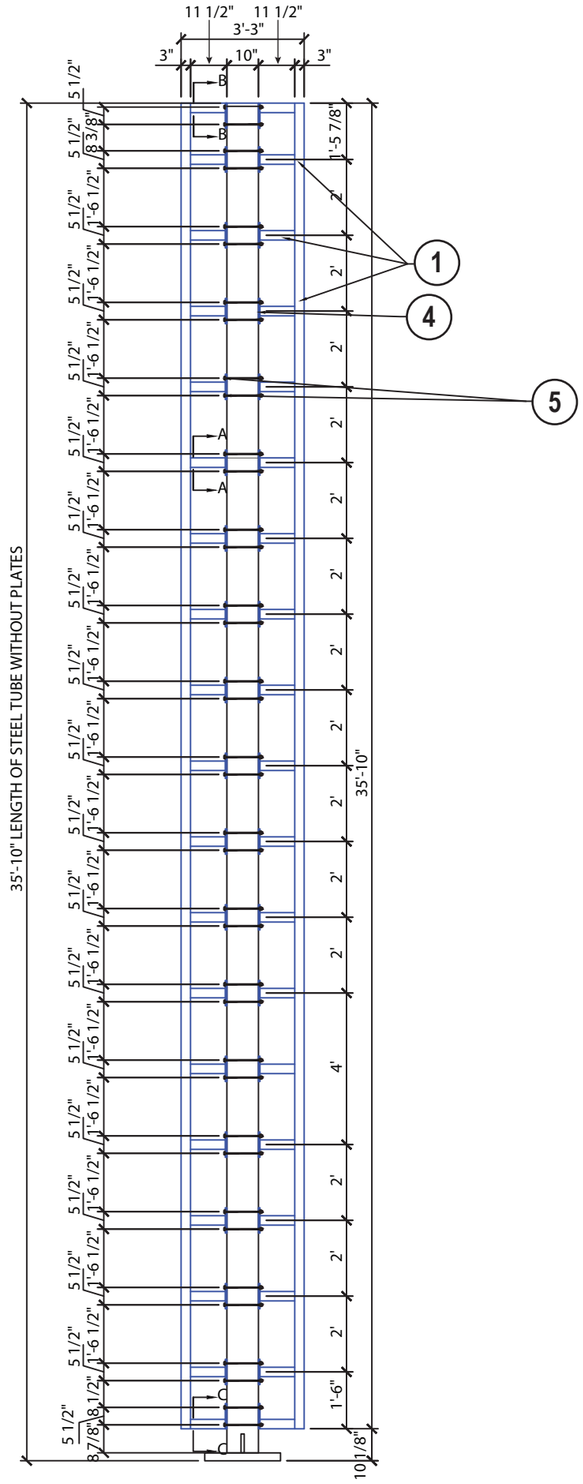
Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

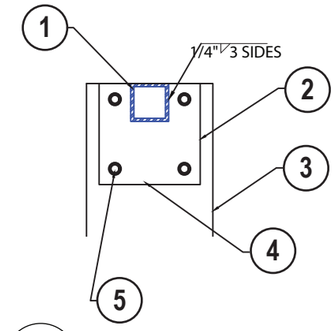
TITLE
XM.1
Typical Vertical Sections

DRAWING SHEET
SG.7.5

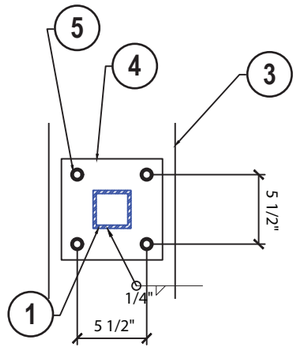
Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding \4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



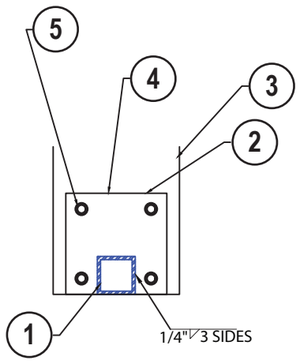
1 SG.7.6 ST. XM.1 - TYPICAL FRAME ELEVATION
Scale: 1/4" = 1' - 0"



2 SG.7.6 ST. XM.1 - SECTION B-B
Scale: 1/4" = 1' - 0"



3 SG.7.6 ST. XM.1 - SECTION A-A
Scale: 1/4" = 1' - 0"



4 SG.7.6 ST. XM.1 - SECTION C-C
Scale: 1/4" = 1' - 0"

1 3" X 3" X 1/4" ALUMINUM TUBE

2 BITUMINUS COATING FOR SEPARATION OF DISSIMILAR METALS: COLD - APPLIED MASTIC MEETING SSPC-PS 9.01(TYP.)

3 10" X 10" X 5/16" ASTM A500 GR B STEEL TUBE

4 8" X 8" X 1/2" ASTM B209-10 6061-T651 ALUMINUM PLATE

5 1/2" DIA. STAINLESS STEEL HEX HEAD BOLTS WITH NUTS AND WASHERS.

PLEASE NOTE

Before assembly, the 10 x 10 steel tube is to be painted MPC Undercoat 274-908sp expoxy-blanco (white)

PLEASE NOTE

These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XM.1
Typical Frame Elevations

DRAWING SHEET

SG.7.6

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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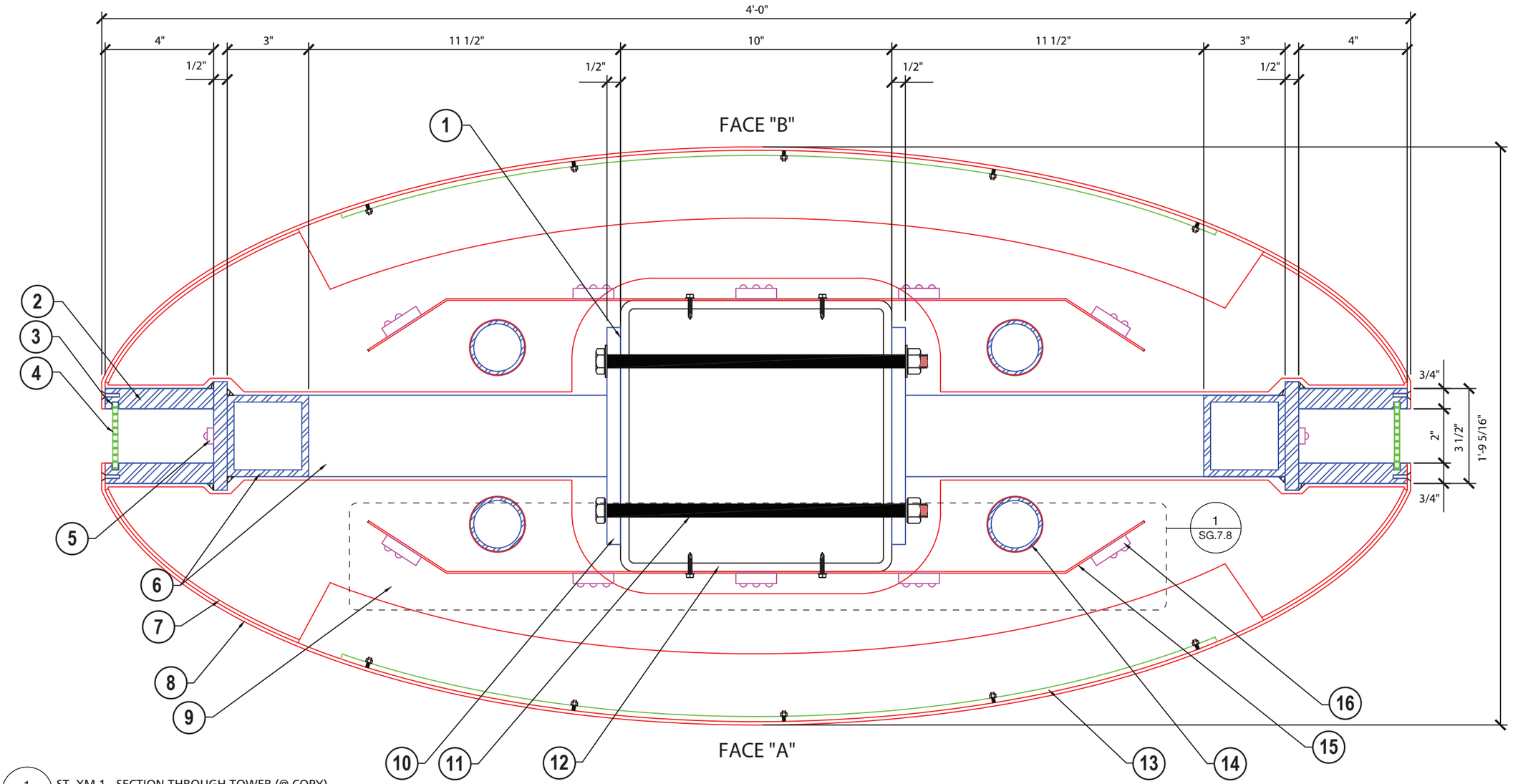

1 / SG.7.7 ST. XM.1 - SECTION THROUGH TOWER (@ COPY)
Scale: 3" = 1' - 0"

1. PROVIDE METAL ADHESIVE TAP BETWEEN ALUMINUM AND STEEL MEMBERS.
2. 3/4" THICK ALUMINUM FLATBAR
3. CUT NOTCH IN FLAT BAR FOR ACRYLIC
4. .188 ACRYLIC WITH YELLOW VINYL APPLIED
5. LED LIGHTING
6. 3" X 3 X 1/8" ALUMINUM TUBE
7. 1 1/2" TALL .125 ALUMINUM RETURN WELDED TO CNC CUT RIB
8. ROLLED .125" ALUMINUM SKIN
9. CNC CUT .25" ALUMINUM RIB
10. 8" X 8 X 1/2" ALUMINUM PLATE
11. 1/2" DIA. STAINLESS STEEL HEX HEAD BOLTS WITH NUTS AND WASHERS
12. 10" X 10 X 5/16" ASTM A500 GR B CENTER SUPPORT STEEL TUBE
13. LEXAN BACKER QTY (8)
14. 2" DIA. X 1/8" ALUMINUM PIPE SECTIONS. WELD RIBS TO 2" PIPES, TO PROVIDE STRENGTH TO FACE STRUCTURES.
15. .063 BREAKFORMED ALUMINUM PAN FOR THE LED MODULES TO ATTACH TO. PAN TO BE WHITE. HEIGHT OF PAN IS 22 3/4"
16. LED MODULES

PLEASE NOTE

These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.

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PROJECT DATA

Project Number:
14AC24003

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Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XM.1

Typical Upper Rib Section Through Pylon

DRAWING SHEET

SG.7.7

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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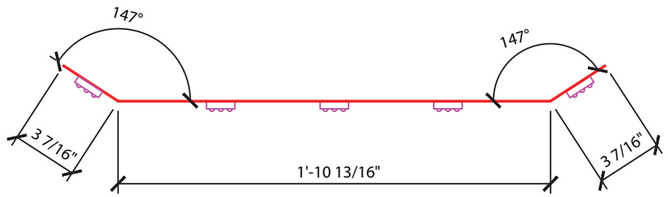
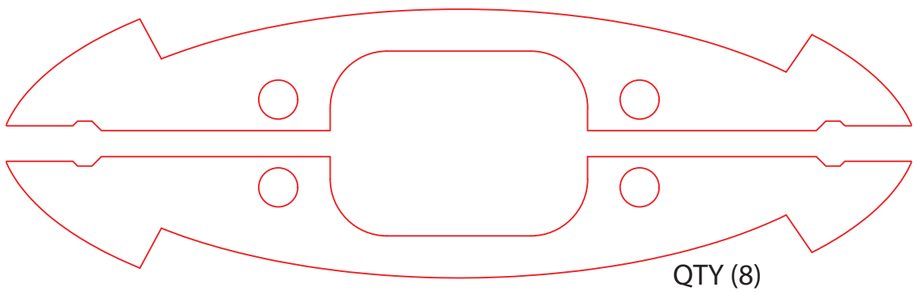


1 SG.7.8 ST. XM.1 - PLAN VIEW OF LED PANEL
Scale: 1-1/2" = 1' - 0"

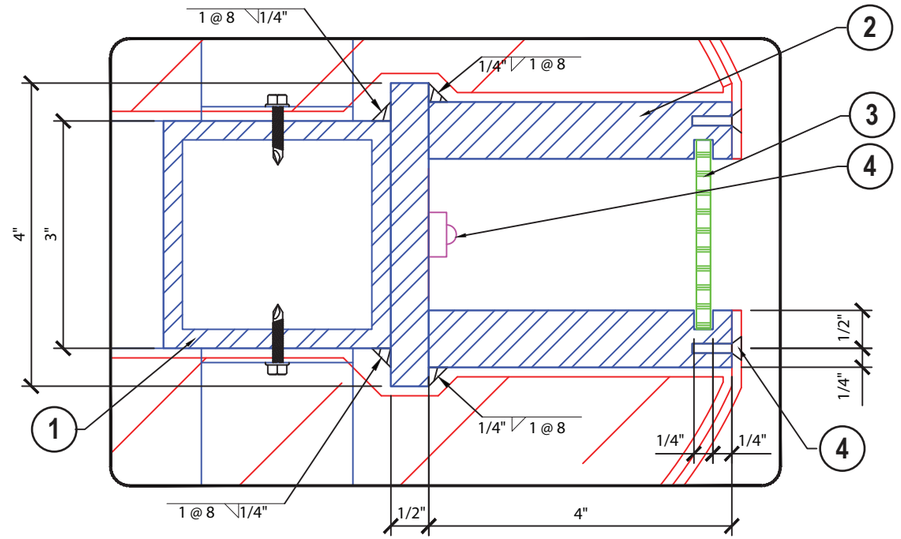


QTY (8)

2 SG.7.8 ST. XM.1 - UPPER RIBS @ COPY
Scale: 1-1/2" = 1' - 0"

QTY (22)

3 SG.7.8 ST. XM.1 - LOWER RIBS
Scale: 1-1/2" = 1' - 0"



4 SG.7.8 ST. XM.1 - LOWER RIBS
Scale: 1-1/2" = 1' - 0"

1 3" X 3" X 1/8" ALUMINUM TUBE

2 3/4" THICK ALUMINUM FLATBAR

3 .188 YELLOW ACRYLIC

4 LED MODULES

5 10 / 24 X 3/4" STAINLESS STEEL
TAMPER PROOF COUNTERSUNK SCREWS.
DRILL AND TAP ALUMINUM
FLAT BAR TO ACCEPT SCREWS

PLEASE NOTE

These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.

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PROJECT DATA

Project Number:
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Project Name:

Georgia Institute of Technology
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Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XM.1
Typical Upper Rib Details

DRAWING SHEET
SG.7.8

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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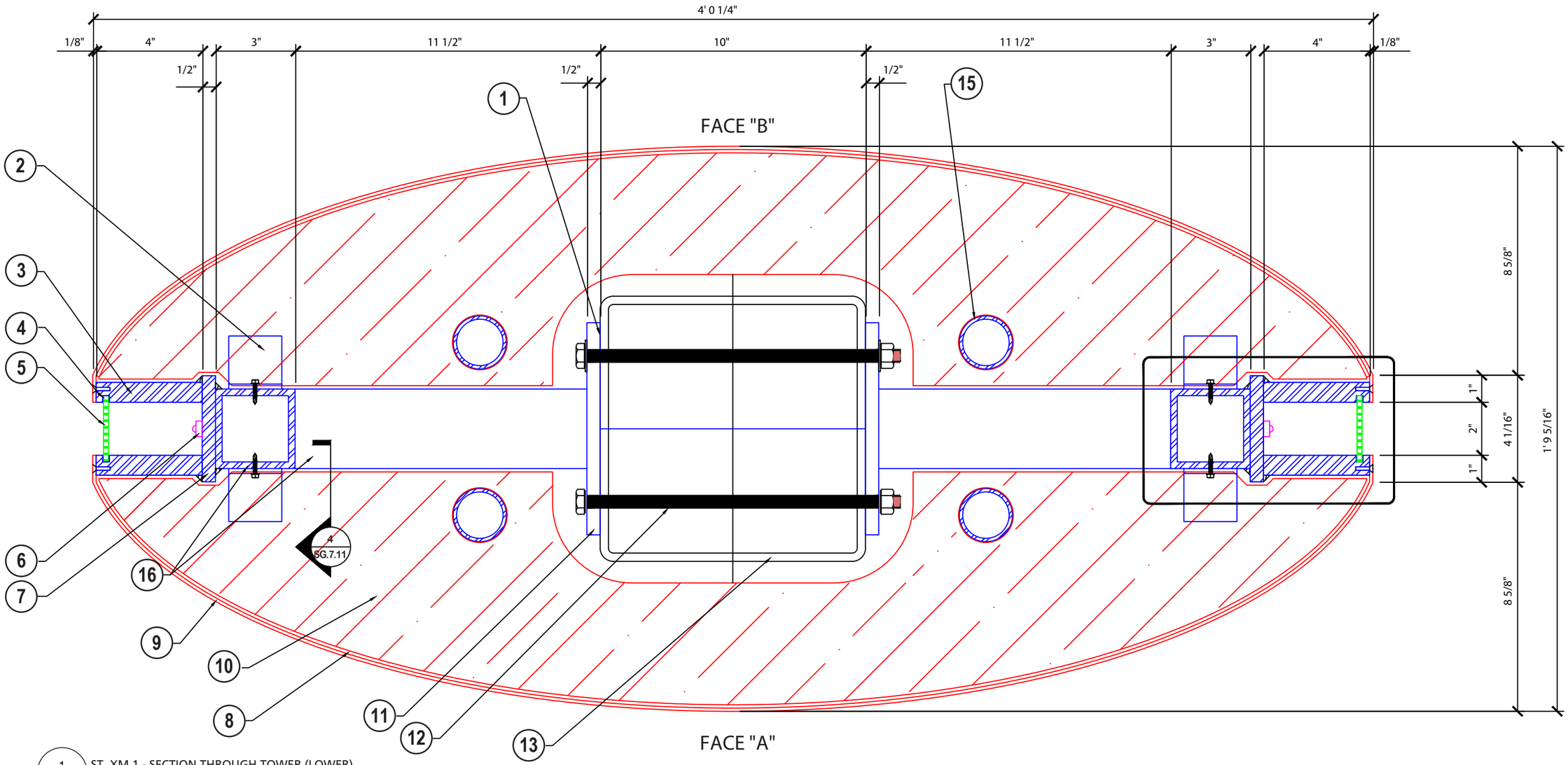

1 SG.7.9 ST. XM.1 - SECTION THROUGH TOWER (LOWER)
Scale: 3" = 1' - 0"

1. PROVIDE METAL ADHESIVE TAP BETWEEN ALUMINUM AND STEEL MEMBERS.
2. 2" X 2" X 3/16" x 2" LONG ALUMINUM ANGLE CLIP WELDED TO RIB AND ATTACHED TO FRAME WITH TEK SCREWS. THIS HAPPENS AT SEAMS ONLY
3. 3/4" THICK ALUMINUM FLATBAR
4. CUT NOTCH IN FLAT BAR FOR ACRYLIC
5. .188 YELLOW ACRYLIC
6. LED LIGHTING
7. 1/2" ALUMINUM FLAT BAR
8. 1 1/2" TALL .125 ALUMINUM RETURN WELDED TO CNC CUT RIB
9. ROLLED .125" ALUMINUM SKIN
10. CNC CUT .25" ALUMINUM RIB
11. 8" X 8 X 1/2" ALUMINUM PLATE
12. 1/2" DIA. STAINLESS STEEL HEX HEAD BOLTS WITH NUTS AND WASHERS
13. 10" X 10 X 5/16" ASTM A500 GR B CENTER SUPPORT STEEL TUBE
14. LEXAN BACKER QTY (8)
15. 2" DIA. X 1/8" ALUMINUM PIPE SECTIONS. WELD RIBS TO 2" PIPES, TO PROVIDE STRENGTH TO FACE STRUCTURES.
16. 3" X 3" X 1/8" ALUMINUM TUBE
17. LED MODULES

PLEASE NOTE
Provide metal adhesive tap between aluminum and steel members.

PLEASE NOTE
The pylon locations shown here is for material and fabrication only. Exact location and number of pylons will be determined for each individual project.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XM.1
Section Through Pylon (Lower)
DRAWING SHEET
SG.7.9

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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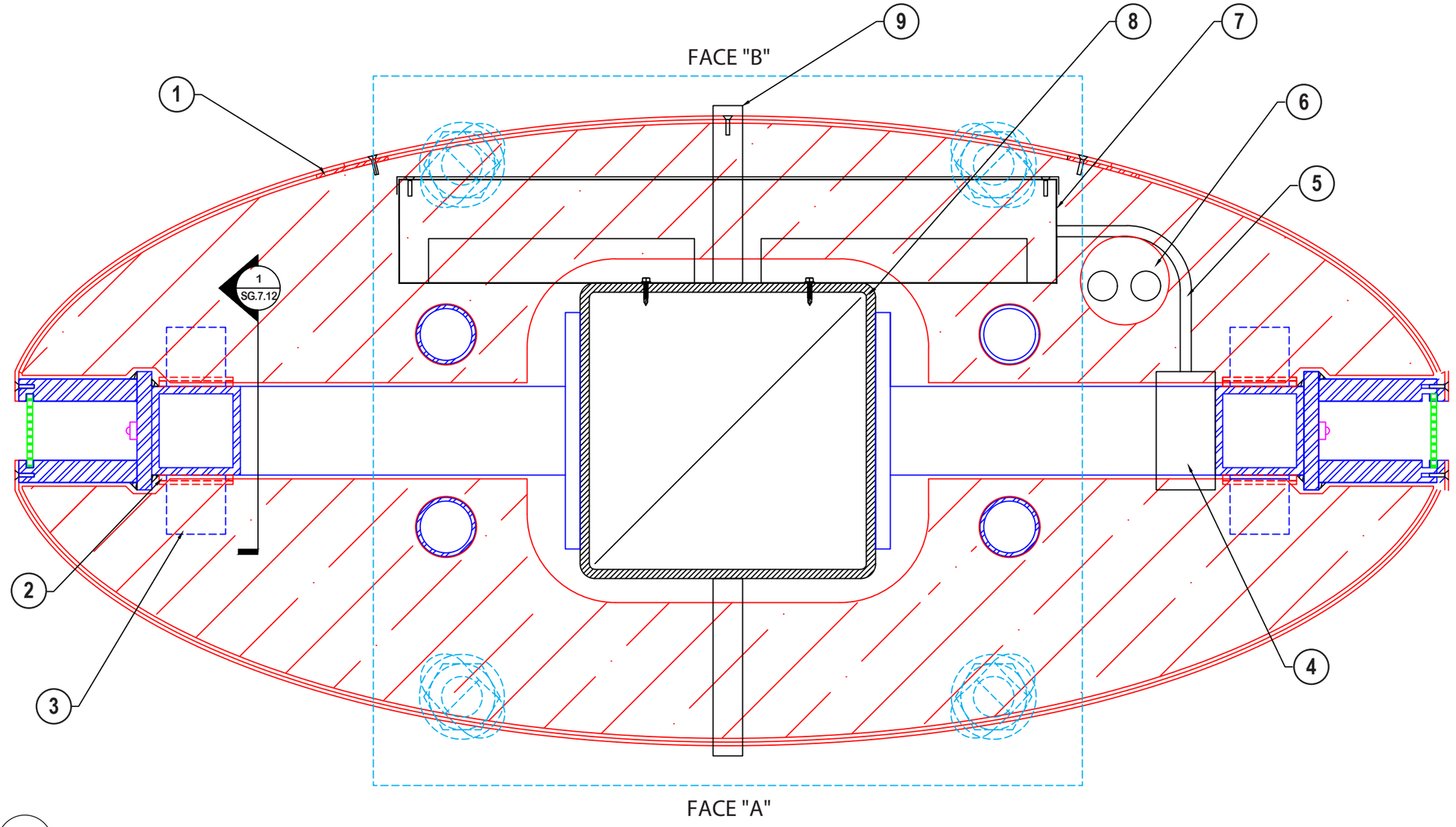

1 SG.7.10 ST. XM.1 - ACCESS PANEL SECTION
Scale: 1-1/2" = 1' - 0"

1. .125 ALUMINUM LAP STRIP AROUND PERIMETER OF OPENING TO PROVIDE A PLACE TO FOR SCREWS.
2. 1 LAYER OF 3/16" ALUMINUM AND 1 LAYER OF 1/8" ALUMINUM TO FORM SLIDE CLIP.
3. 2" X 2" X 1/8" ALUMINUM ANGLE CLIP WELDED TO UNDERSIDE OF RIB.
4. 4" X 4" J-BOX ATTACHED TO FRAME .
5. FLEXIBLE CONDUIT FROM 4" X 4" J-BOX TO POWER SUPPLY BOX.
6. PROVIDE 3" DIA. HOLE IN BOTTOM RIB TO ALLOW ELECTRICAL SERVICE TO ENTER SIGN CABINET.
7. FABRICATED ALUMINUM BOX FOR LED POWER SUPPLYS. BOX TO HAVE REMOVABLE COVER.
8. 10" X 10" X 5/16" ASTM A500 GR B CENTER SUPPORT STEEL TUBE
9. 6" x 6" x 1" A36 STEEL GUSSET PLATES TYP. (2)

PLEASE NOTE

The pylon locations shown here is for material and fabrication only. Exact location and number of pylons will be determined for each individual project.

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE

XM.1

Section Through Pylon Access Panel

DRAWING SHEET

SG.7.10

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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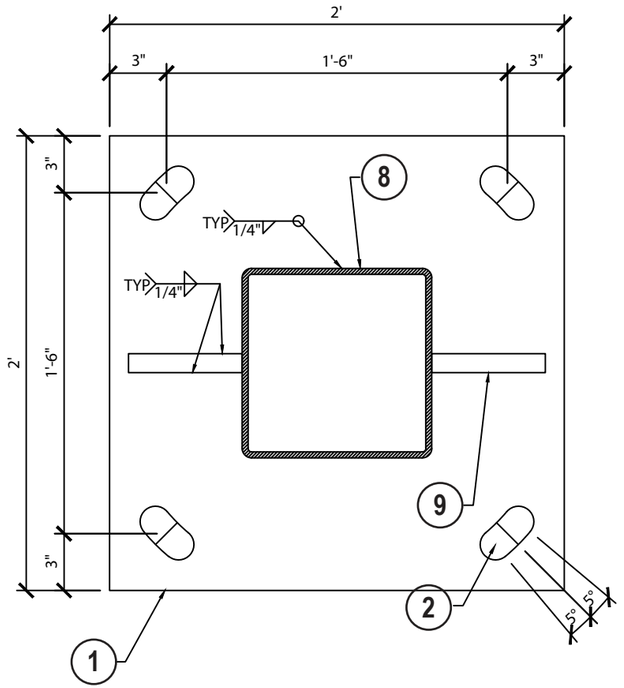
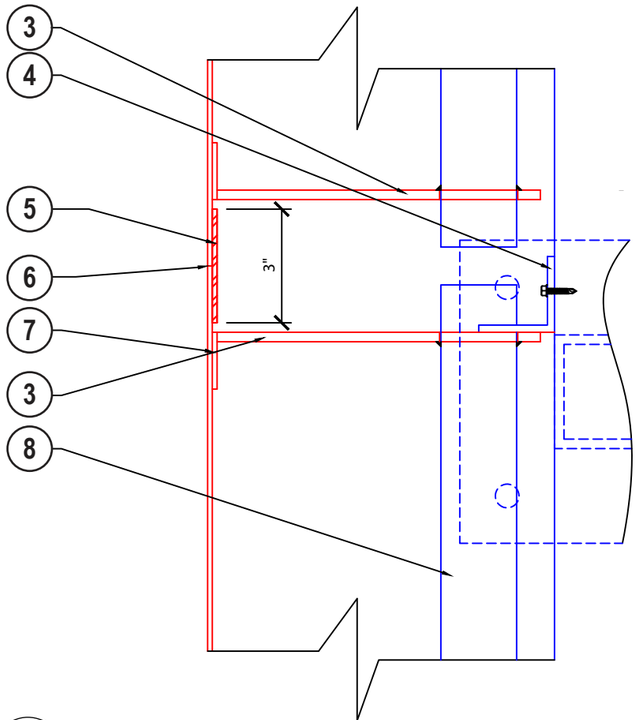


1 SG.7.11 ST. XM.1 - 2'-0" X 2'-0" X 2 1/2" A36 STEEL BASE PLATE
Scale: 1-1/2" = 1' - 0"



4 SG.7.11 ST. XM.1 - DETAIL @ HAIRLINE SEAMS
Scale: 6" = 1' - 0"

1 ASTM A36 STEEL PLATE.

2 1 5/8" DIAMETER HOLES

3 CNC CUT .25 ALUMINUM RIB.

4 2" X 2" X 3/16" X 2" LONG ALUMINUM ANGLE CLIP WELDED TO RIB AND ATTACHED TO FRAME WITH TEK SCREWS. THIS HAPPENS AT SEAMS ONLY

5 PROVIDE .125 LAP STRIP BEHIND SEAM. ATTACH STRIP TO ONE FACE WITH VERSILOK

6 HAIRLINE SEAM

7 1 5/8" TALL .125 ALUMINUM RETURN WELDED TO CNC CUT RIB

8 2" X 2" X 1/8" ALUMINUMTUBE SECTIONS. WELD RIBS TO 2" X 2" TUBES, TO PROVIDE STRENGTH TO FACE STRUCTURES.

9 5/8" A36 STEEL GUSSET PLATES TYP. (2)

10 5/8" DIAMETER HOLES.

11 ASTM B209-10 6061-T651 ALUMINUM PLATE.

12 POWER SUPPLY BOX BEHIND ACCESS PANEL.

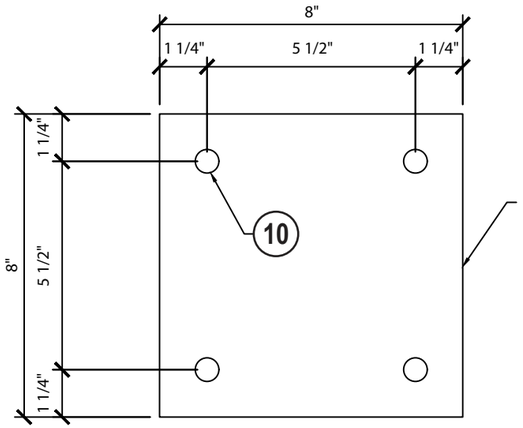
13 ACCESS PANEL TO BE BACKED WITH SCREEN TO PREVENT DEBRIS FROM GETTING IN.

14 PERF MATERIAL BEHIND ACCESS DOOR FOR DEBRIS PROTECTION.

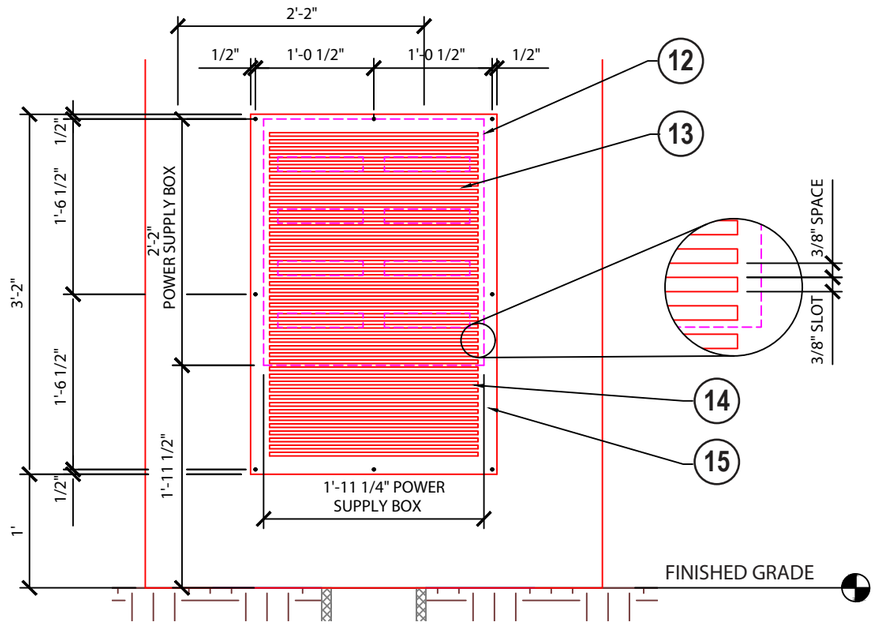
15 10/24" STAINLESS STEEL TAMPER PROOF COUNTERSUNK SCREWS

PLEASE NOTE

These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.



2 SG.7.11 ST. XM.1 - 8" X 8" X 1/2" ALUMINUM PLATE
Scale: 3" = 1' - 0"



3 SG.7.11 ST. XM.1 - ACCESS PANEL
Scale: 3/4" = 1' - 0"

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PROJECT DATA

Project Number:
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Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XM.1
Pylon Details

DRAWING SHEET
SG.7.11

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
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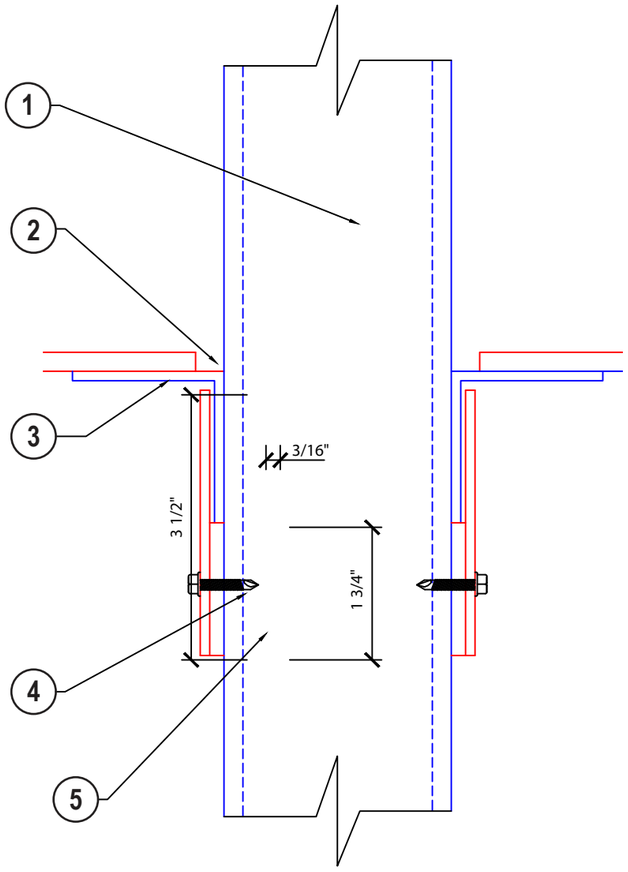

1 SG.7.12 ST. XM.1 - DETAIL @ SLIDE CLIPS
Scale: 6" = 1' - 0"

WIRING:

1. NO WIRE SHALL BE SMALLER THAN #12 AWG UNLESS OTHERWISE INDICATED

2. WIRE AND CABLE SHALL BE ANNEALED SOFT DRAWN COPPER AND HAVE A CONDUCTANCE OF 98%.

3. SPLICES, TAPS AND TERMINATIONS:
   A. SPLICES AND TAPS IN BRANCH CIRCUIT CONDUCTORS, #12 AWG THROUGH #8 AWG, SHALL BE MADE WITH MECHANICAL PRESSURE CONNECTORS.

   B. TERMINATIONS OF STRANDED COPPER CONDUCTORS SHALL BE MADE WITH COPPER COMPRESSION OR INDENTOR TYPE LUGS OR WITH MECHANICAL PRESSURE LUGS.

   C. JOINTS SHALL BE COVERED WITH 7 MIL ELECTRICAL TAPE ON BRANCH CIRCUIT WIRING CONNECTIONS, AND 10 MIL ELECTRICAL TAPE ON MECHANICAL AND INDENT CONNECTORS ON LARGER CABLES. PATENTED PLASTIC CONNECTION COVERS MAY BE USED FOR CONNECTORS IF APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION.

4. WIRE SHALL BE COLOR-CODED TO INDICATE THE VARIOUS PHASES AND NEUTRAL. WHERE COLOR-CODING IS IMPRACTICAL, 0.75" WIDE TAPE BANDS SHALL BE PROVIDED.

5. COLOR-CODING FOR THE VARIOUS SYSTEMS SHALL BE AS FOLLOWS:

FOR 208/120 V SYSTEM:	FOR 480/277 V SYSTEM
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - WHITE
GROUND - GREEN	GROUND - GREEN

ELECTRICAL INFORMATION FOR SIGNS			
ITEM	LOCATION	QTY OF POWER SUPPLES	AMPS
35 LINEAR FEET OF LED MODULES	RIGHT SIDE BEHIND YELLOW ACRYLIC	1	1
35 LINEAR FEET OF LED MODULES	LEFT SIDE BEHIND YELLOW ACRYLIC	1	1
76 LINEAR FEET OF LED MODULES	FACE A	3	1 EACH =3
76 LINEAR FEET OF LED MODULES	FACE B	3	1 EACH =3

TOTAL = 8 AMPS

(1)120/277 VOLT MULTI-TAP, 20 AMP CIRCUIT WILL BE REQUIRED
FOR EACH SIGN LOCATION PER UL CODE. CIRCUIT BREAKER PROVIDED BY OTHERS.

PLEASE NOTE
Electrical service to sign locations provided by others.

1 3" X 3" X 1/4" ALUMINUM TUBE FRAME

2 .25 ALUMINUM RIB.

3 2" X 2" X 1/8" ALUMINUM ANGLE
ALUMINUM ANGLE UNDERSIDE OF RIB

4 #12 TEK SCREWS

5 1 LAYER OF 3/16" ALUMINUM AND 1 LAYER OF 1/8" ALUMINUM TO FORM SLIDE CLIP.

PLEASE NOTE
These details apply to pylon XM.1. However, this detail is similar for pylons XM.2 and XM.3. Individual signage packages will provide exacting details for pylons XM.2 and XM.3.

Georgia Tech

Page/

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PROJECT DATA

Project Number:
14AC24003

Project Name:

Georgia Institute of Technology
North Ave NW,
Atlanta, GA 30332

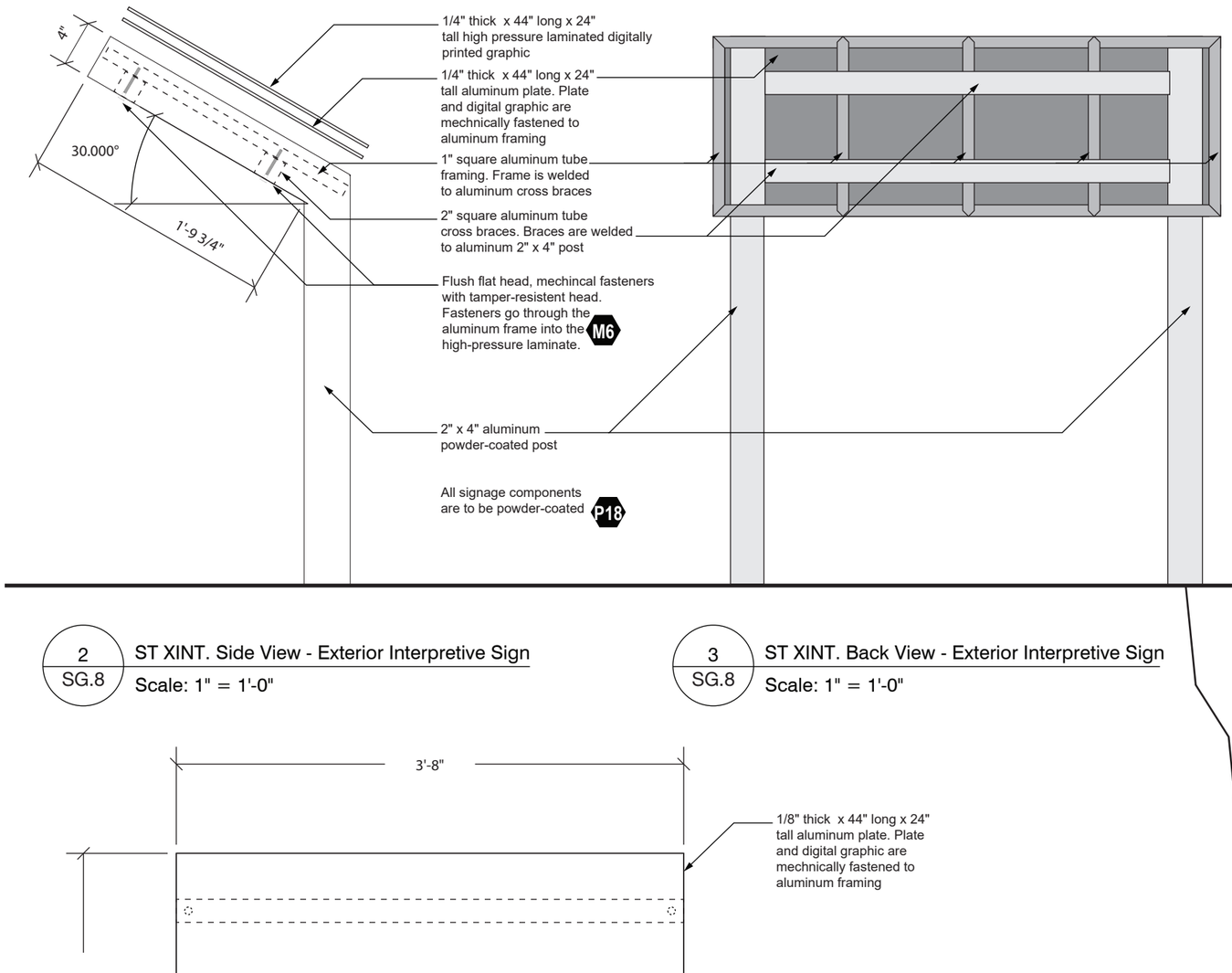
Date: 07/26/2024

Rev. No.	Description
1	Updated XM.1, XM.2 and XM.3

TITLE
XM.1
Electrical Details

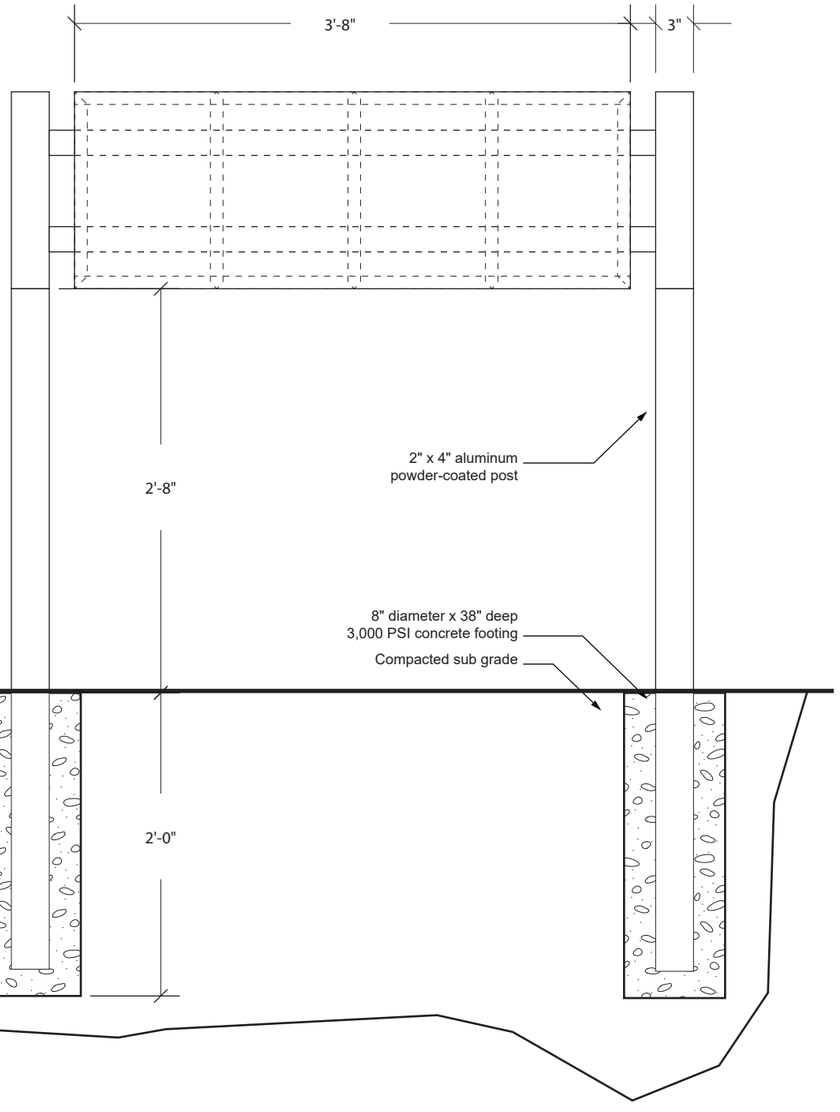
DRAWING SHEET
SG.7.12

Principal-In-Charge:
David Deis
Project Manager:
CB/PN
EGD Designers:
CB
Drawn by:
CB
File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021



2 SG.8 ST XINT. Side View - Exterior Interpretive Sign

Scale: 1" = 1'-0"



3 SG.8 ST XINT. Back View - Exterior Interpretive Sign

Scale: 1" = 1'-0"

1 SG.8 ST XINT. Panel Detail - Exterior Interpretive Sign

Scale: 1" = 1'-0"

4 SG.8 ST XINT. Front View - Exterior Interpretive Sign

Scale: 1" = 1'-0"

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TITLE

XINT

Exterior Interpretive Panel Sign

DRAWING SHEET

SG.8

Principal-In-Charge:
David Deis

Project Manager:
CB/PN

EGD Designers:
CB

Drawn by:
CB

File Path:
Y:\PROJ\ATL\14XX24XXX\14AC24003\3_Design\14_Graphics_Branding\4_Signage Updates\Campus Wayfinding Standards - Update Dec. 2021