

APPENDIX F - EXHIBIT DRAWINGS

MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

Design Development Document

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Kei Space Design Ltd in collaboration with Ian C McLennan Consulting & Bill Peters Consulting

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Drawing		
COVER PAGE		
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# MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

## GENERAL FABRICATION SPECIFICATIONS

### GENERAL

All materials and products provided shall be constructed from new materials and free from defects that may impair the strength, functionality, operability, longevity, or appearance. All work product shall be free of defects, errors, or omissions, upon completion of installation.

All materials and products provided shall be intended for commercial use and should be of the appropriate characteristics to withstand the use of general visitors of all ages to a museum. This includes making provisions for longevity and durability based on constant user operation and abuse as may occur in an interpretive environment.

Fabricator will be responsible for reviewing all design drawings, specifications, graphic schedules, component sheets and any other part of the documentation included within this package, clarifying any questions, or omissions prior to fabrication.

Fabricator is responsible for reviewing all architectural drawings and specifications, confirming site measurements and conditions prior to fabrication of all items.

### WOODWORK

- All woodwork shall be fabricated to the specifications and dimensions shown on the drawings.
- All structures and wood construction to be made with zero formaldehyde products.
- Avoid interior solid wood construction to minimize expansion and contraction within structures & casework.
- Exterior wood materials should match the finishes sheet provided in this document.
- Avoid high resinous or acid woods for wood exterior wood finishes.

### FINISHES

The contractor will produce sample finish boards that follow the design intent illustrated. The Finishes and materials will be subject to review and approval.

- Fabricator will submit three sample sets of each finish to be used as part of the exhibit fabrication.
- Fabricator may recommend alternative materials and methods of construction to the ones specified in the drawings for review and approval of the Design Authority .
- Plastic Laminate Samples must be minimum 6" x 6". Each sample set to represent range of color and grain expected.
- Paint finishes must meet or exceed the equivalent of a Matthews commercial grade paint.
- All finishes to be completed at the fabricator's facilities.

### GLASS

- All Glass components should be tempered glass thicknesses should be minimum 8.mm, TBC by an engineer
- Where applicable, glass should be UV glued for maximum resistance according to manufacturers specifications
- All glass should have beveled and polished edges
- Fabricator will propose hardware appropriate for each situation. All hardware for glass components (hinges, fasteners and locks) must be submitted for review with cut sheets to design team, prior to ordering.

### EXHIBIT SYSTEM

- The exhibits have been designed to use a modular system, this will allow the client to re-configure the exhibits in the future as needed.
- All Metalwork, assemblies and integration of materials should be completed at fabricator's shop.
- Assembly system show in drawings may be substituted for an equivalent system. Must meet museum grade standards for traffic and interaction with visitors.
- All aluminum materials should be clear anodized aluminum.
- Fabricator to verify all parts, assemblies, locks, connectors, feet, levelers, and any other materials needed to build the structures as shown in the drawing package.

### GRAPHICS

- Proponents should include the graphic materials and finishes they are recommending for each application listed in the documentation.
- Refer to the graphic schedule provided for reference to quantity and sizes.
- Graphic materials should be durable and interchangeable, as the content for each unit will change in the future.
- Fabricator may recommend alternative materials and process of production of graphics to those specified in the documentation for review and approval of the Design Authority.
- All colors on the graphics shall match the Pantone colors specified in the Interpretive Text and Graphics Document.
- Three samples of all graphic processes and materials, using final colors specified must be submitted to the Design Authority (1) and representatives of NOIRLab (2) for review and approval.
- The Design Authority must review and approve color proofs of all graphic panels with final artwork and images before production begins.
- Provide three samples of all typical mounting and laminations, sufficient to demonstrate their resistance to de-lamination due to normal visitor handling.
- Provide three test strips using final color palettes and final layouts for all graphic processes at final high resolution. Size of each test strip shall be a minimum of 12” x 12”. All test strips shall show full tonal variations of images.

### MECHANICAL INTERACTIVE ELEMENTS


- Mechanical interactive elements must be built to fulfill the functionality described in the documentation, any changes to the function must be previously reviewed by the Design Authority.
- Design Drawings include a recommended approach to how interactive elements will work and function. Fabricators may recommend alternative mechanisms, forms of production, assembly and finishes for approval by Design Authority and representatives of NOIRLab.
- Any and all alternatives must meet or improve the minimum standards outlined in the documentation.
- Mechanical elements within the exhibitry must use robust mechanisms that will withstand daily use for prolonged periods of time.
- Shop drawings and prototypes where applicable will be submitted to the design authority for review and approval.

### MEDIA & AV EQUIPMENT

- All AV Equipment and Media Content & Programming are not part of the exhibit fabrication package. To be provided be an AV integrator.
- Fabricator will be responsible for integration of AV equipment into exhibit millwork.
- Final AV equipment specs to be confirmed by AV integrator.
- Fabricator is responsible for identifying any Base Building requirements or infrastructure needed to complete the work.
- There are five (5) media & AV equipment components not part of this package, as follows:
  - 2.1.2 - Welcome Message - Video
  - 3.0.1 - Theater
  - 5.7.2 - The Many faces of the Sun - Media Interactive
  - 6.2.1 - NSF Observatories - Media Interactive
  - 7.7.3 - Infrared Camera - Media Playback

### MISCELLANEOUS

- Props and decorative items added to the exhibits must be reviewed and approved by the design team prior to purchasing.
- All props and decorative items must be easy to re-acquire or produce in the case of loose parts that may be damaged or go astray.
- Fabricator will produce duplicate sets of parts for exhibits that require loose parts.

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# MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS


## EXHIBIT AND GRAPHICS LIST

No	EXHIBIT	MATERIAL & MOUNT
EXTERIOR		
1.1.1	Entrance Sign Lettering	Exterior grade, 3D Lettering, pin mounted to wall
1.1.2	Orientation Sign - Hours/Functions	Graphics Type A
1.1.3	Entrance Sign - (printed logotypes)	Graphics Type B
1.2.1	Exterior Banner (NSF)	Graphics Type A
1.2.2	Exterior Banner (AURA/NOIRLab)	Graphics Type A
1.2.3	Exterior Banner (KPNO)	Graphics Type A
1.2.4	Exterior Banner (TON)	Graphics Type A
LOBBY		
2.1.1	Intro to KPNO & TON Partnership	Graphics Type C
2.1.2	Intro to KPNO & TON Partnership AV	Video Screen with enclosure, Mounted to Wall
2.1.3	What is NOIRLab?	Graphics Type C
2.1.4	Intro to the McMath-Pierce Solar Telescope	Graphics Type C
2.2.1	Donor Recognition & Exhibition Credits	Graphics Type C
2.3.2 to 5	Photo posters	Graphics Type E
THEATER		
3.1.1	Theater schedule	Wall mounted magnetic panel - updateable
3.2.1 to 9	Photo posters	Graphics Type E
MAIN GALLERY : INTRO		
4.1.1	Solar Research at the MMP	Graphics Type C
4.1.2	Studying the Moon & More	Graphics Type C
4.1.3	Studying the Moon & More	Graphics Type C
4.2.1	Building the World's Largest Telescope	Graphics Type C
4.2.2	Construction on the Mountain	Graphics Type C
4.2.3	Construction on the Mountain	Graphics Type C
4.3.1	Why Study the Sun	Graphics Type C
4.4.1	Meet the Astronomers of KPNO	Graphics Type C
MAIN GALLERY : STARS		
5.1.1	Enter & Exit Sun Portals (2 x doubles sided)	Graphics Type D
5.1.2	Enter & Exit Sun Portals (2 x Edge Graphics)	Graphics Type D
5.2.1	What are stars?	Graphics Type C
5.2.2	What are stars?	Graphics Type C
5.3.1	Types of stars	Graphics Type C + 3D models
5.3.2	Types of stars	Graphics Type C. + 3D models
5.3.2-1	Sticker labels	Numbers printed on translucent vinyl
5.3.3	Types of stars (3D Star Section Graphic)	Graphics Type D
5.4.1	Plasma ball	Re-purpose from VC-Re-house exhibit
5.4.2	Plasma ball - Graphic Panel	Graphics Type E
5.5.1	Stars in 3D	Re-purpose from VC-Re-house exhibit
5.5.2	Stars in 3D - Graphic Panel	Graphics Type C
5.6.1	What does the Sun look like?	Graphics Type C
5.6.2	What does the Sun look like?	Graphics Type C
5.7.1	The many faces of the Sun	Graphics Type C
5.7.2	The many faces of the Sun - Interactive	Video Screen, Built into millwork enclosure
5.8.1	Spectroscopy & Star Composition	Graphics Type C
5.8.2	Spectroscopy & Star Composition	Graphics Type C
5.9.1	Life Cycle of Stars	Graphics Type C
5.9.2	Life Cycle of Stars	Graphics Type C
5.10.1	Our Solar System isn't unique	Graphics Type C
5.10.2	Our Solar System isn't unique	Graphics Type C
5.11.1	What does Earth 2.0 look like?	Graphics Type C
5.11.2	What does Earth 2.0 look like?	Graphics Type C

No	EXHIBIT	MATERIAL & MOUNT
5.12.1	The Goldilocks Zone	Graphics Type C + 3D Models
5.12.2	The Goldilocks Zone	Graphics Type C
5.13.1	Exoplanets & search for life	Graphics Type C
5.13.2	Exoplanets & search for life	Graphics Type C
MAIN GALLERY : NSF		
6.1.1-1	From the Ground Up: NSF Observatories	Graphics Type C
6.1.1-2(3)	flip panels TOP / BOTTOM	Graphics Type D
6.1.2-1	From the Ground Up: NSF Observatories	Graphics Type C
6.1.2-2(3)	flip panels TOP / BOTTOM	Graphics Type D
6.2.1	From the Ground Up: NSF Observatories	Video Screen, Built into millwork enclosure
6.3.1	The Mirrors Above	Graphics Type C
CONTROL ROOM		
7.1.1	Revealing the Heliostats	Graphics Type C
7.2.1	Revealing the Spectrographs	Graphics Type C
7.3.2	Our Sun Close-Up - Label	Graphics Type D
7.4.1	Solar Lab: logo	Graphics Type D
7.5.1	Optics Table	Millwork Table
7.5.2	Optics Table (Graphic Panel)	Graphics Type C
7.5.3	Optics Table Interactive	Off the shelf interactive
7.5.4	Optics Table (Instruction Panel)	Graphics Type C
7.6.1	Spectroscopy	Millwork Table
7.6.2	Spectroscopy (Graphic Panel)	Graphics Type C
7.6.3	Spectroscopy Interactive	Off the shelf interactive
7.6.4	Spectroscopy (Instruction Panel)	Graphics Type C
7.7.1	Infrared Camera	Millwork Exhibit
7.7.2	Infrared Camera (Graphic Panel)	Graphics Type C, IR Camera mounted on Gr. panel
7.7.3	Infrared Camera Interactive, AV	Video Screen, Built into millwork enclosure, IR camera
7.7.4	Infrared Camera (Instruction Panel)	Graphics Type C
7.8.1	You are Here: Tunnel above	Graphics Type C
7.9.1	Heliostats Operations Center	Graphics Type C
7.9.2	Heliostats Operations Center	Graphics Type C
7.9.4	Partition wall	Partition wall with glass panels
7.11.1	Computer Room Interpretation	Graphics Type C
7.11.2	Computer Room Interpretation	Graphics Type C
7.12.1 to 3	Photo Posters	Graphics Type E
TON / ASTROLAB		
8.1.1	Kitt Peak as a Sky Island	Graphics Type C
8.2.1	Community Talk-back	Graphics Type D
8.2.2-1 to 4	Community Talk-back (note panels)	Graphics Type D
8.3.1	TON Changing Exhibits (Art)	TBD Curated by TON (TBD)
8.4.1 to 6	Photo Posters	Graphics Type E
SCIENCE ON A SPHERE		
9.1.1 to 12	Photo Posters	Graphics Type E
OPTICAL VIEWING TUNNEL		
10.1.1	Digitally printed graphic	Graphics Type D
10.1.2	Digitally printed graphic	Graphics Type D

GRAPHICS TYPE	MATERIAL
Type A	Exterior grade digitally printed vinyl graphics with satin overlam. Applied on 1/4" aluminum composite panel with wrapped edges.
Type B	Exterior grade digitally printed vinyl graphics with satin overlam. Applied directly to substrate.
Type C	Digitally printed vinyl graphics with satin overlam applied on 1/4" Aluminum Composite Panel with wrapped edges.
Type D	Digitally printed graphics on vinyl with satin overlam, applied directly to Millwork
Type E	Photo quality digitally printed graphics direct on aluminum 1/8" aluminum panel. Include protective overlam.

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MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

Drawing

EXHIBIT & GRAPHICS LIST

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FINISHES SCHEDULE


FINISHES	FN-01	FN-02	FN-03	FN-04	FN-05	FN-06
	Solid surface Corian (or similar) Azure (optional Cobalt)	PAINT Sherwin Williams 179-C4 (6809) (Pantone 7452)	Solid Surface Corian (or similar) Deep Titanium	Solid Surface Corian (or similar) Venaro White	Vinyl cove base molding (Charcoal Slate Grey)	PAINT Sherwin Williams 256-C7 (SW 7618)

AV SCHEDULE

The following schedule outlines the general equipment specifications used during the exhibit design process. The final AV equipment specs will be provided by an the a media development partner, TBC.  
These specifications are included for reference only.

No	EXHIBIT	TYPE	MAKE	MODEL
2.1.2	Intro to KPNO & TON Partnership			
		43" Display	Samsung	QM43C
		Mount	premier	P2642F
		Pro SoundBar	JBL	PSB-1
		Computer (PC)	TBD	
		Cables & Connectors	TBD	
3.0.1	Presentation Theater			
		Projector	Panasonic	PT-MZ882
		Short-throw Lens	Panasonic	ET-ELW22
		Projector Mount	TBD	
		200" retractable screen	TBD	
		7.1 Surround Sound audio sy	TBD	
		Computer (PC)	TBD	
		Cables & Connectors	TBD	
5.7.2	The many faces of the Sun			
		32" touchscreen	ELO	3243L
		Mount	TBD	
		Pro SoundBar	JBL	PSB-1
		Computer (PC)	TBD	
		Cables & Connectors	TBD	
6.2.1	NSF Observatories			
		32" touchscreen	ELO	3243L
		Mount	TBD	
		Pro SoundBar	JBL	PSB-1
		Computer (PC)	TBD	
		Cables & Connectors	TBD	
7.7.3	Infrared Camera			
		32" Display	ELO	3243L
		Mount	TBD	
		IR camera	TBD	
		Computer (PC)	TBD	
		Cables & Connectors	TBD	

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FINISHES & AV SCHEDULES

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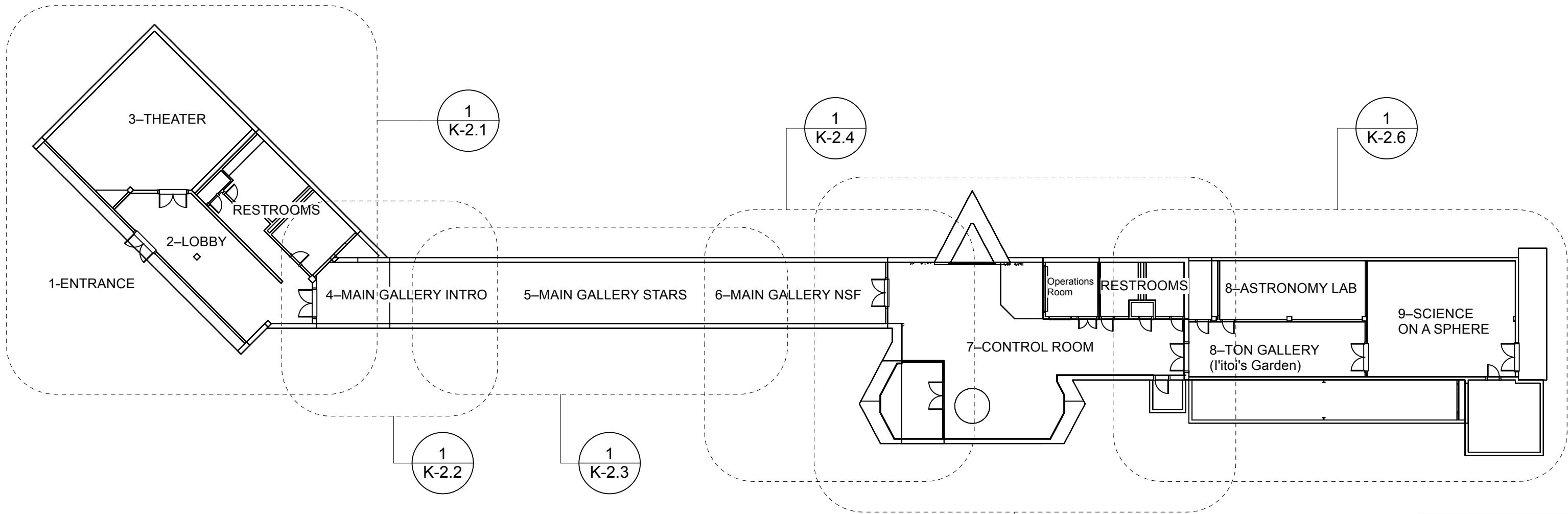
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1 MMP EXHIBIT: OVERALL PLAN  
Scale: 1:250

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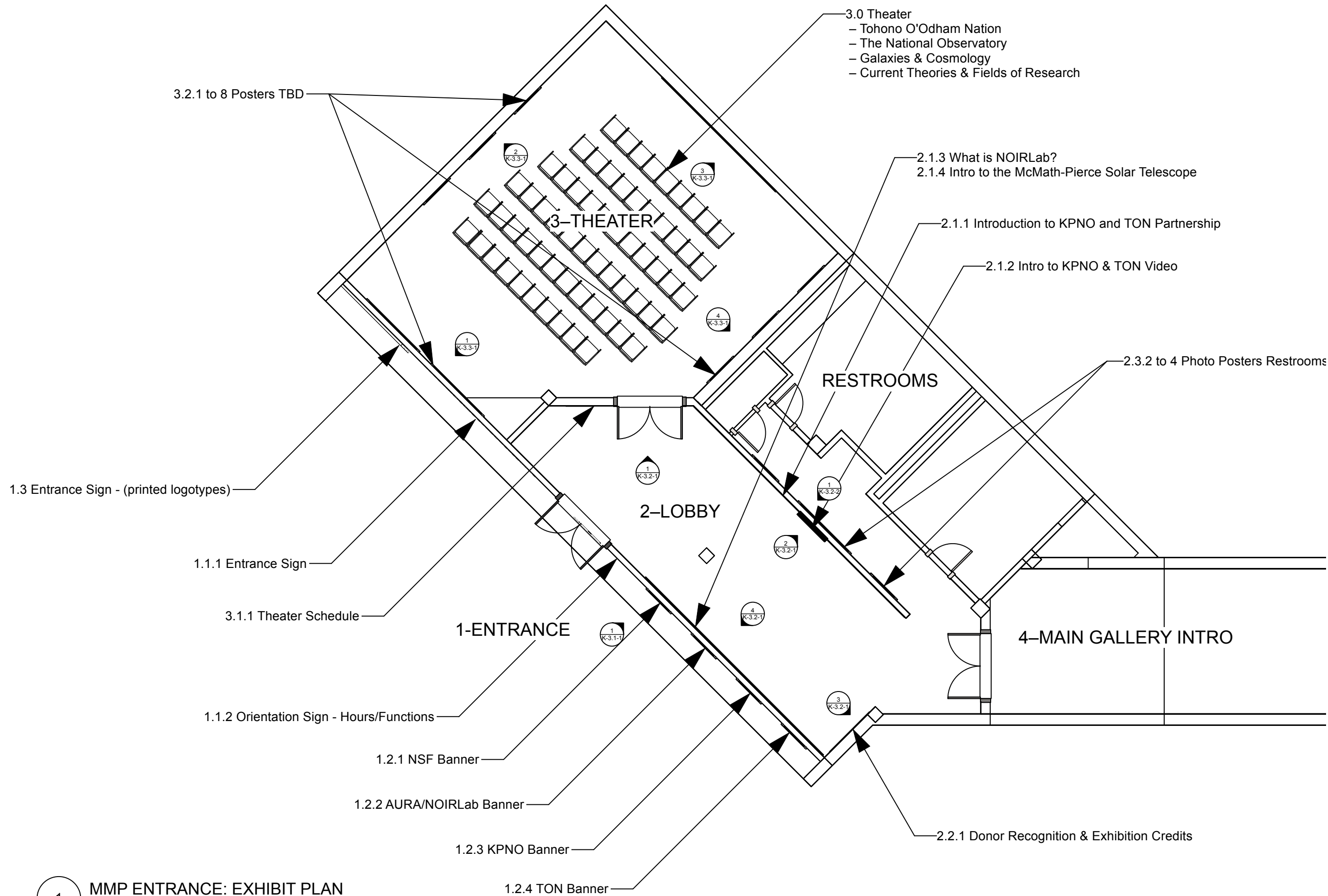
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MMP-OVERALL PLAN

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1 **MMP ENTRANCE: EXHIBIT PLAN**  
Scale: 1:100

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Drawing

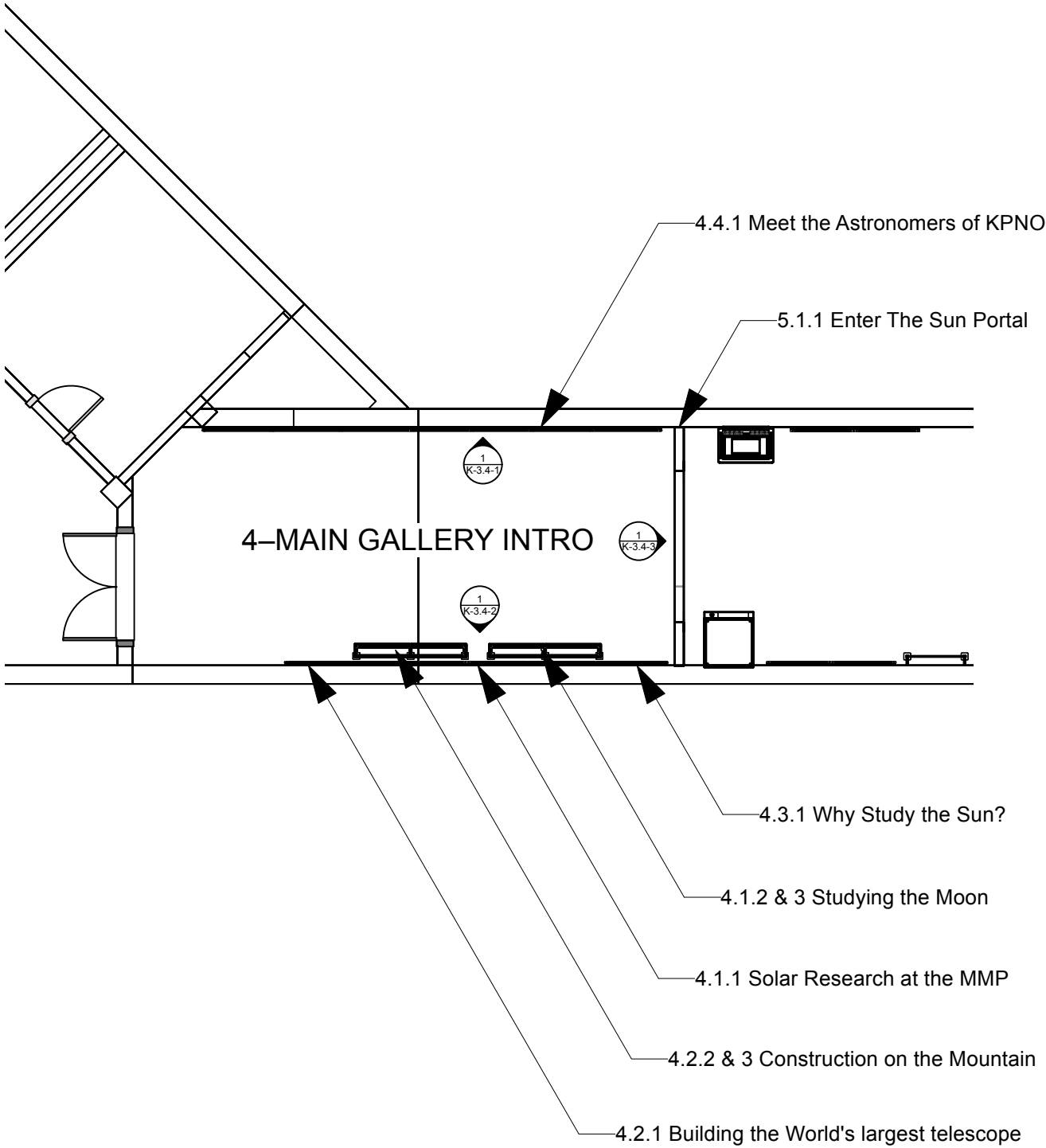
**MMP ENTRANCE: OVERALL  
PLAN**

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1 **MAIN GALLERY: EXHIBIT PLAN**  
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MAIN GALLERY: INTRO PLAN


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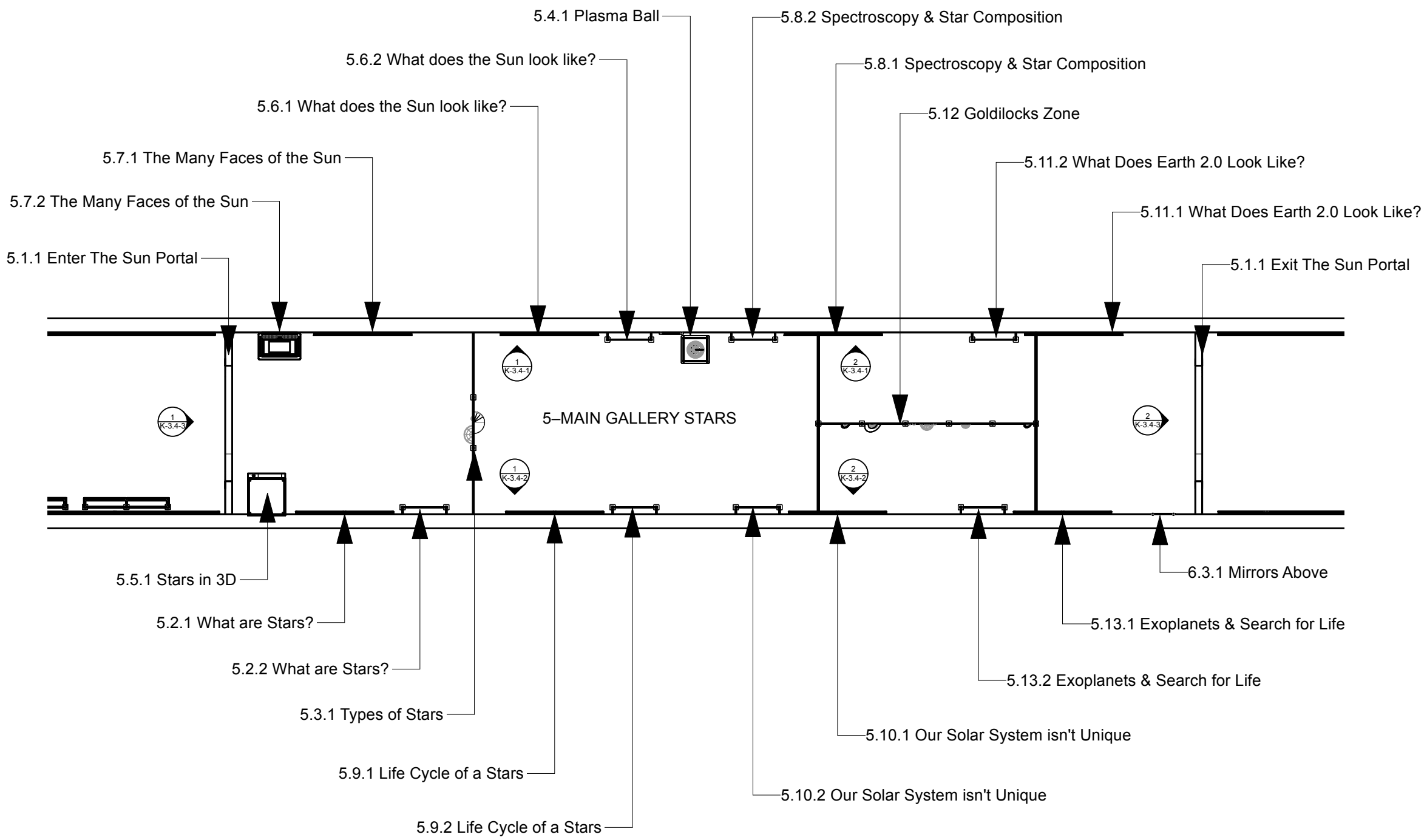
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1 MAIN GALLERY: EXHIBIT PLAN  
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MAIN GALLERY: STARS  
PLAN


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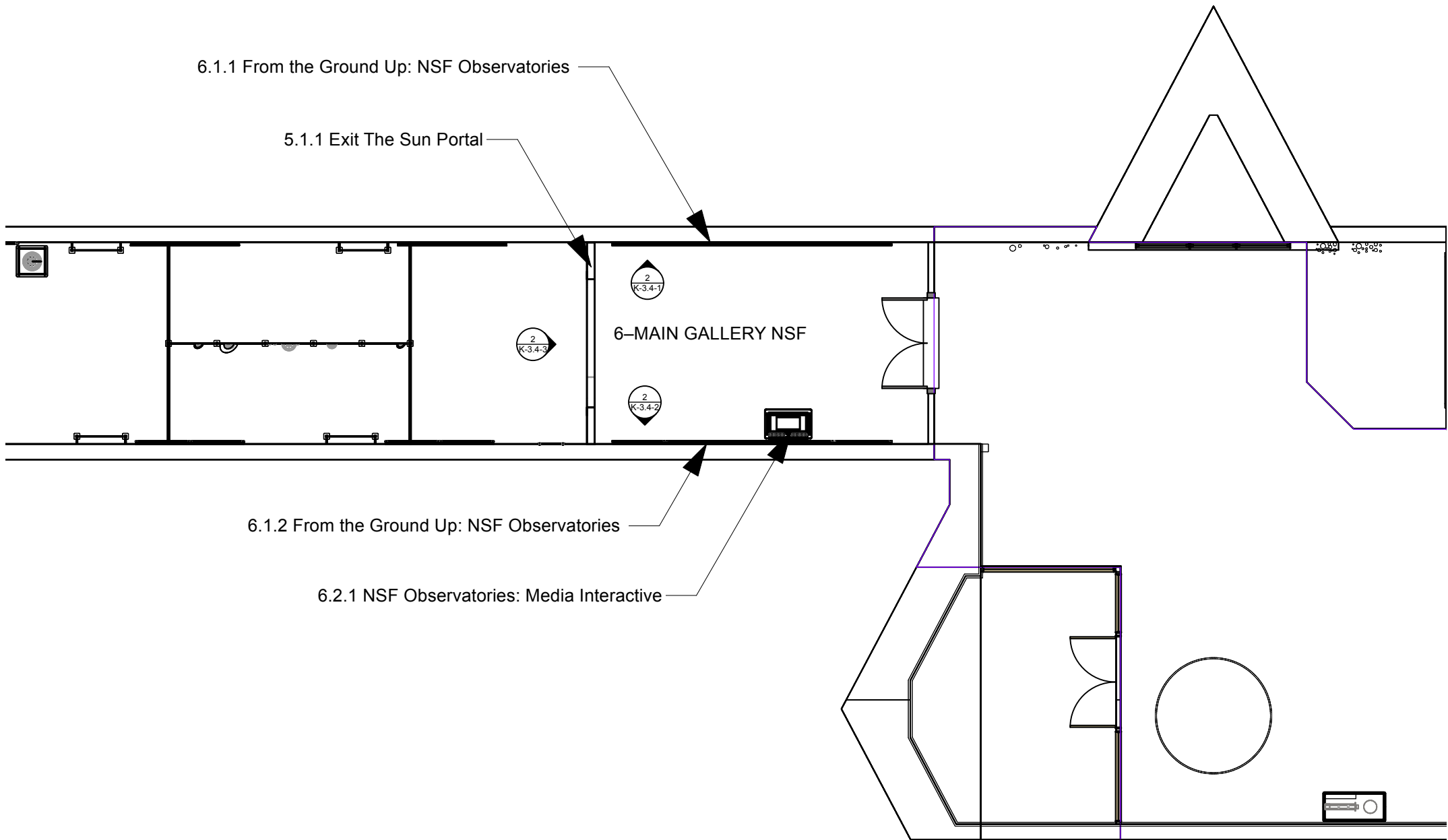
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K-2.3  
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1 MAIN GALLERY: EXHIBIT PLAN  
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MAIN GALLERY: EXHIBIT  
PLAN


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K-2.4  
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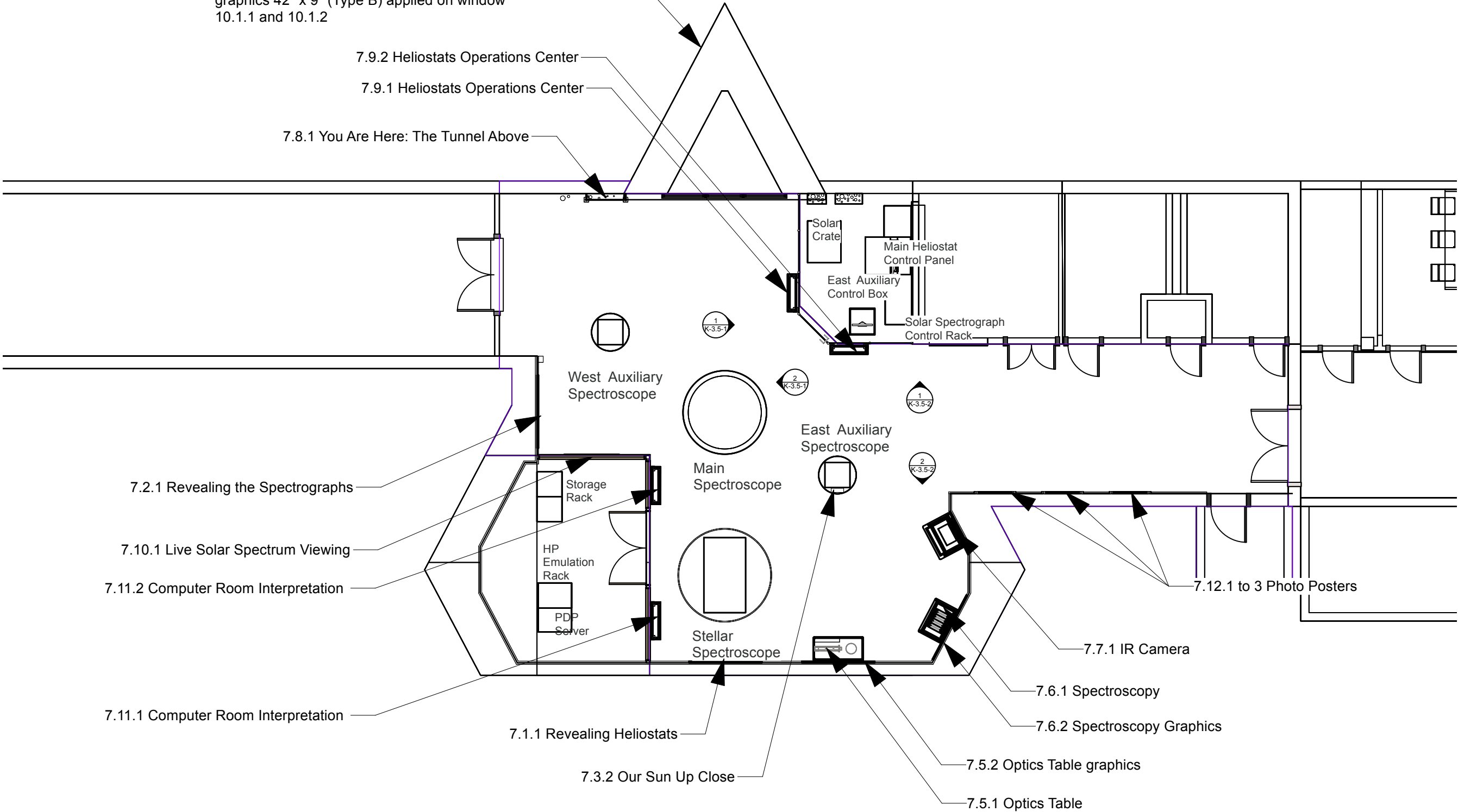
Take a Closer Look: MMP Optical Tunnel (Access Outside)

The viewing Platform will have two digitally printed graphics 42" x 9" (Type B) applied on window 10.1.1 and 10.1.2

7.9.2 Heliostats Operations Center

7.9.1 Heliostats Operations Center

7.8.1 You Are Here: The Tunnel Above



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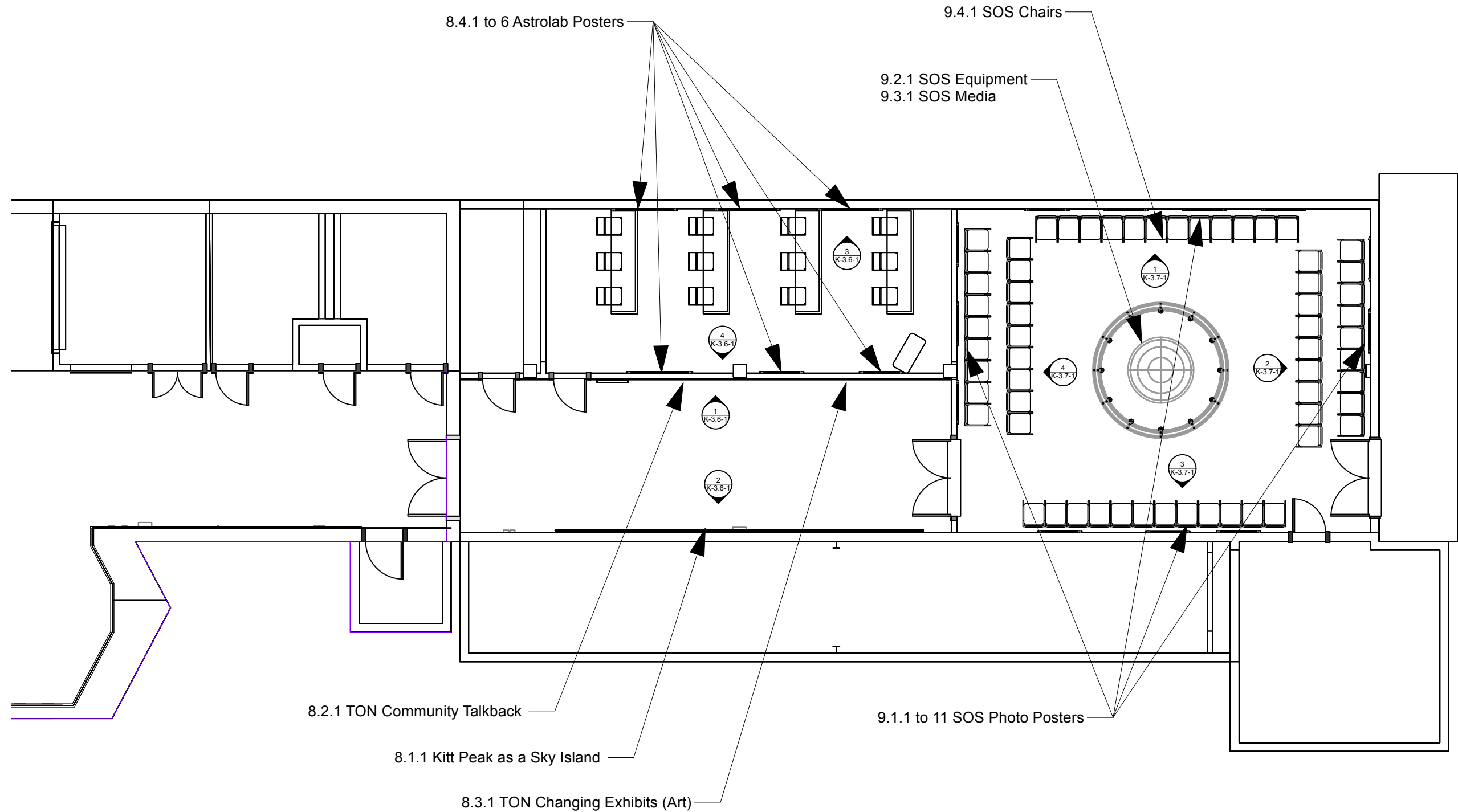
Project  
MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS

Drawing  
CONTROL ROOM: EXHIBIT  
PLAN

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2024-08-15

North ↑	Dwg No. K-2.5 A
------------	-----------------------



1 TON-SOS: EXHIBIT PLAN  
Scale: 1:100

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MCMATH-PIERCE SOLAR  
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TON-SOS: EXHIBIT PLAN


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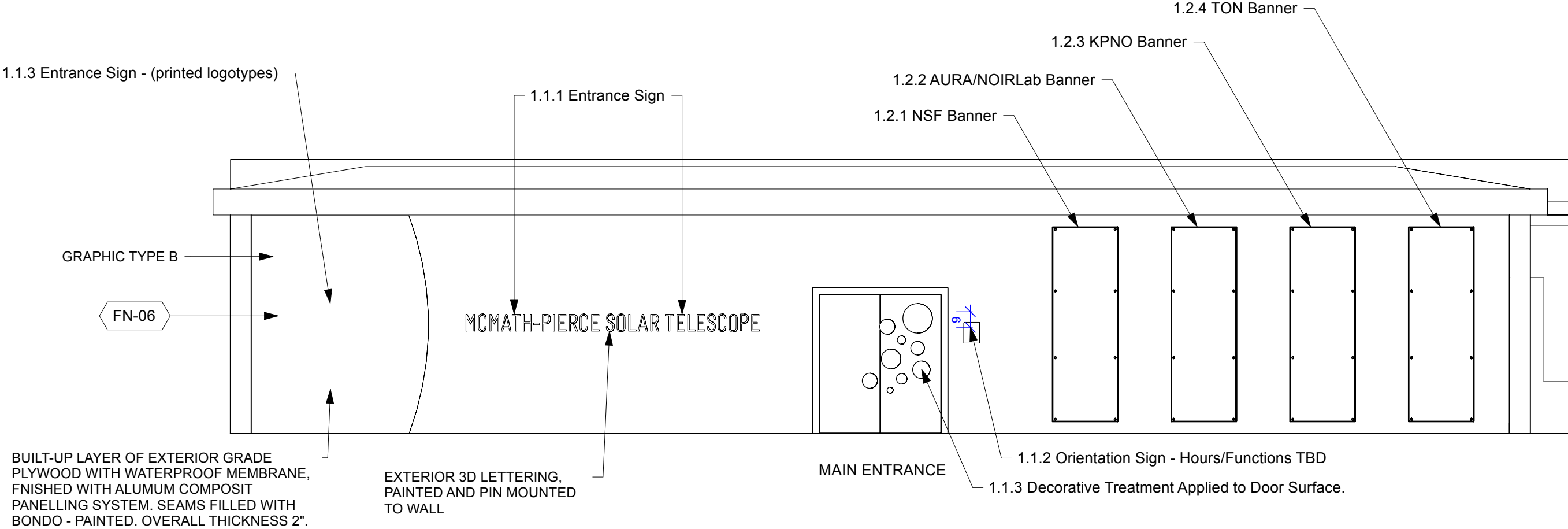
2024-08-15

North

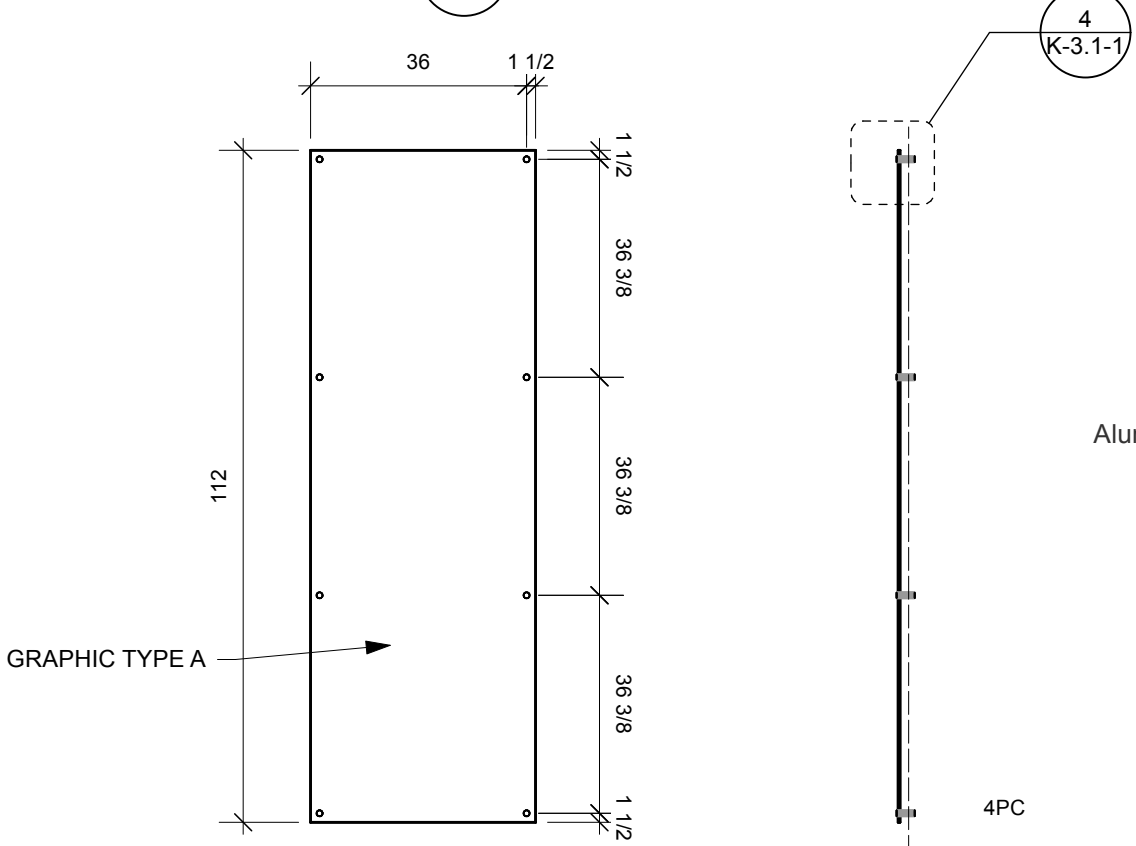
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K-2.6  
A



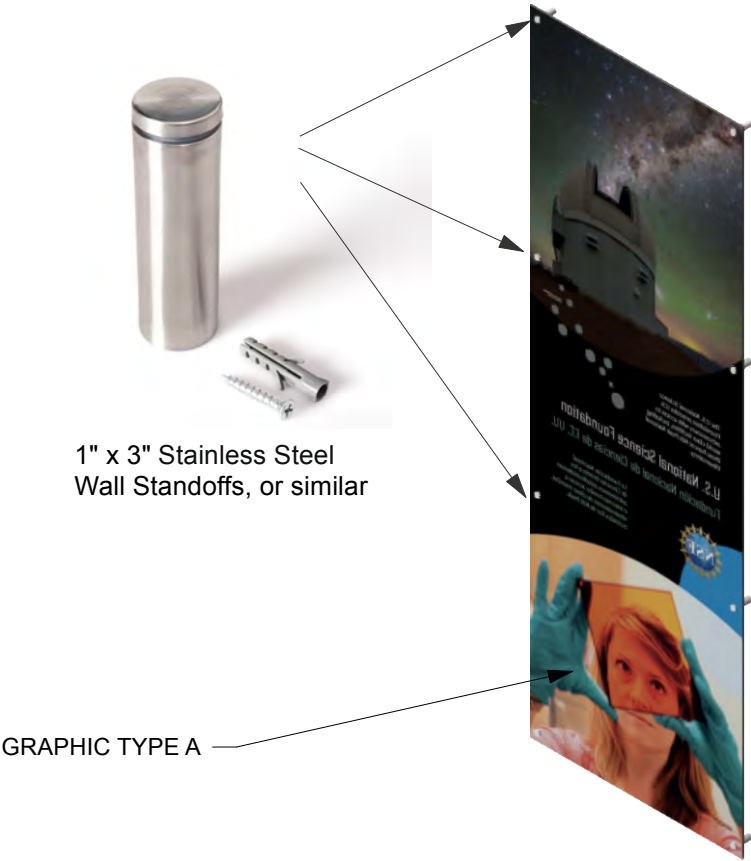
1 **ENTRANCE: ELEVATION**  
Scale: 3/16" = 1'-0"



2 **BANNER: DETAILS**  
Scale: 3/8" = 1'-0"

3 **BANNER: DETAILS**  
Scale: 3/8" = 1'-0"

4 **BANNER: DETAILS**  
Scale: 2" = 1'-0"



5 **TYPICAL GRAPHICS BANNER: OVERVIEW**  
Scale: 1/2" = 1'-0"

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MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

Drawing

ENTRANCE: ELEVATION

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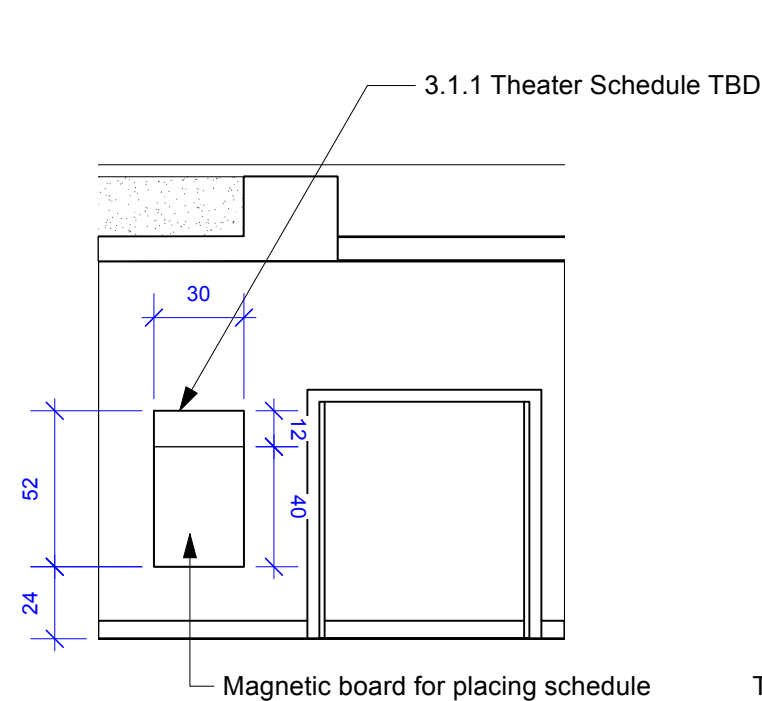
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Dwg No.

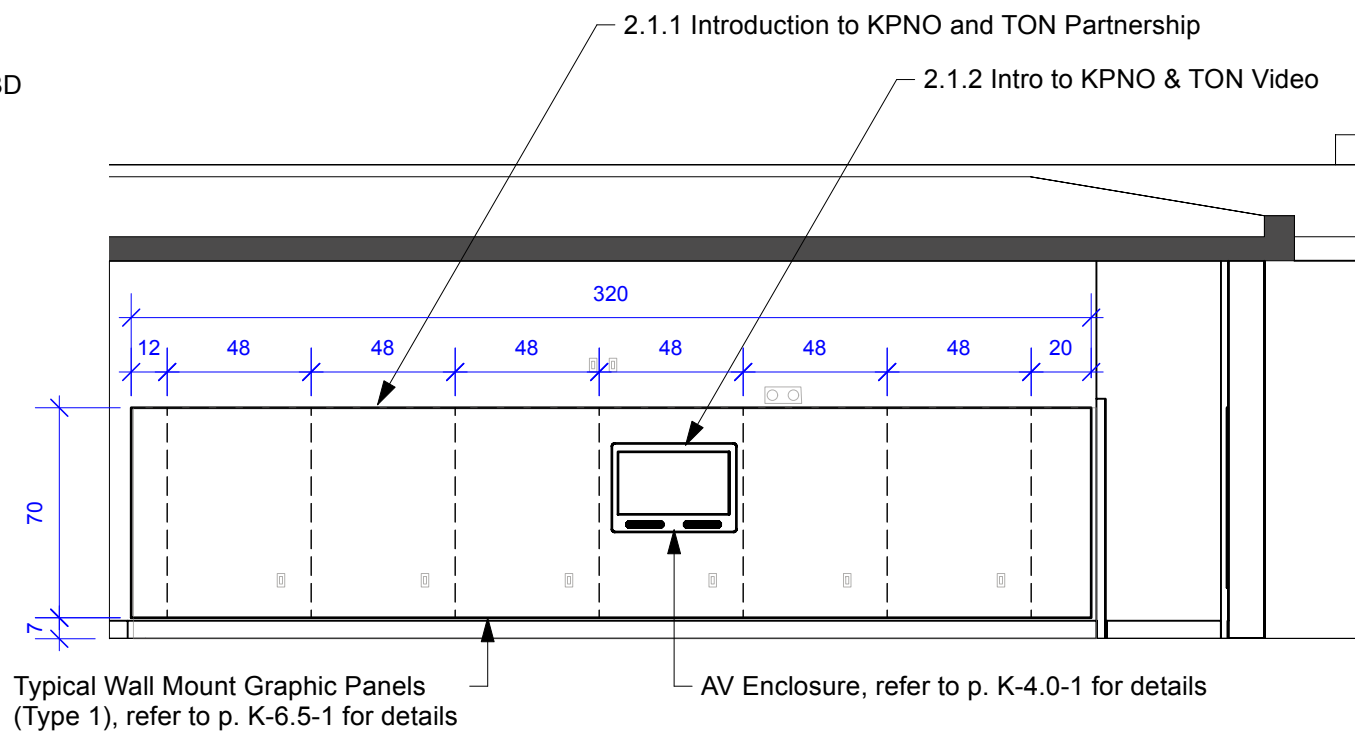
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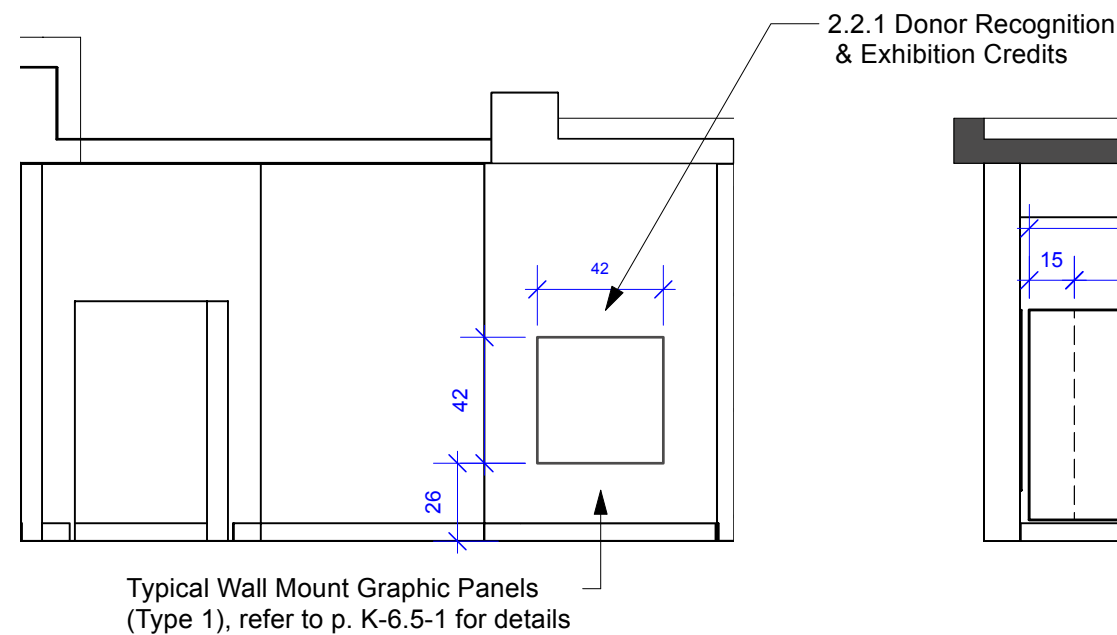




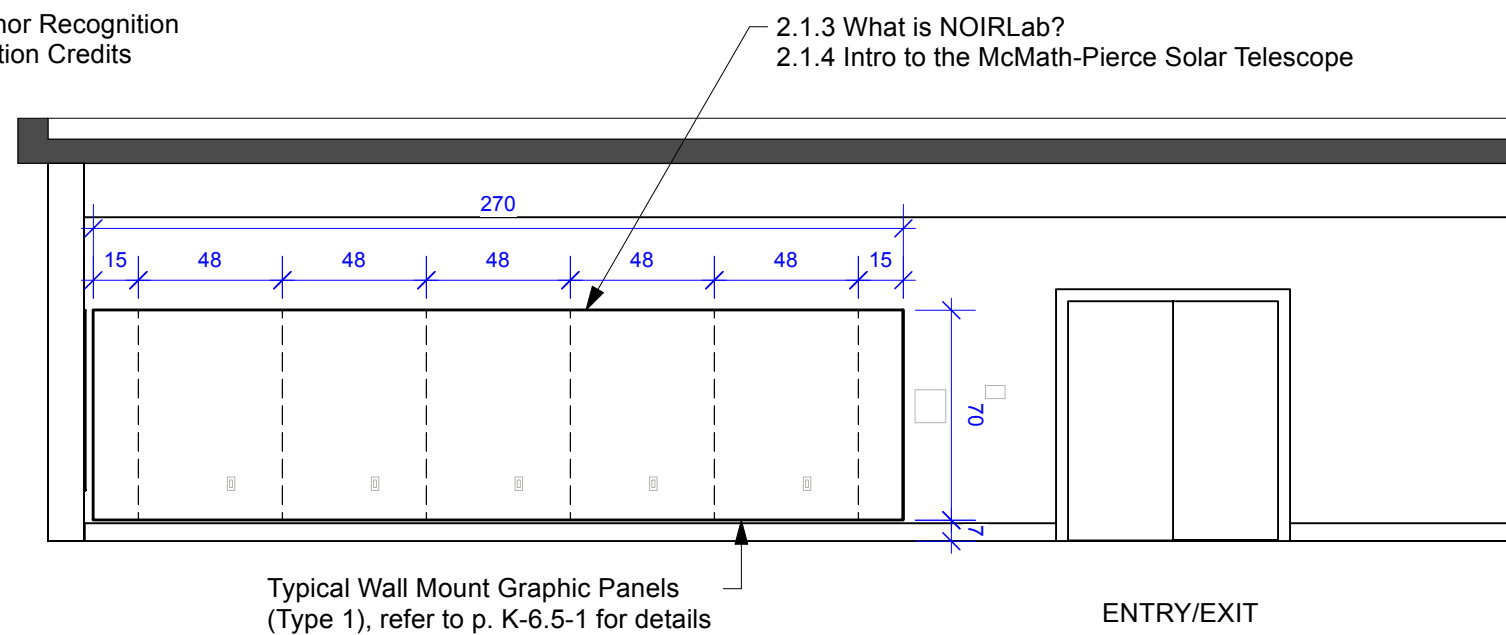
1 LOBBY: North Wall Elevation  
Scale: 3/16" = 1'-0"



2 LOBBY: Welcome Mural Elevation  
Scale: 3/16" = 1'-0"




3 LOBBY: South-East Wall Elevation  
Scale: 3/16" = 1'-0"



4 LOBBY: Intro Mural  
Scale: 3/16" = 1'-0"

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Drawing

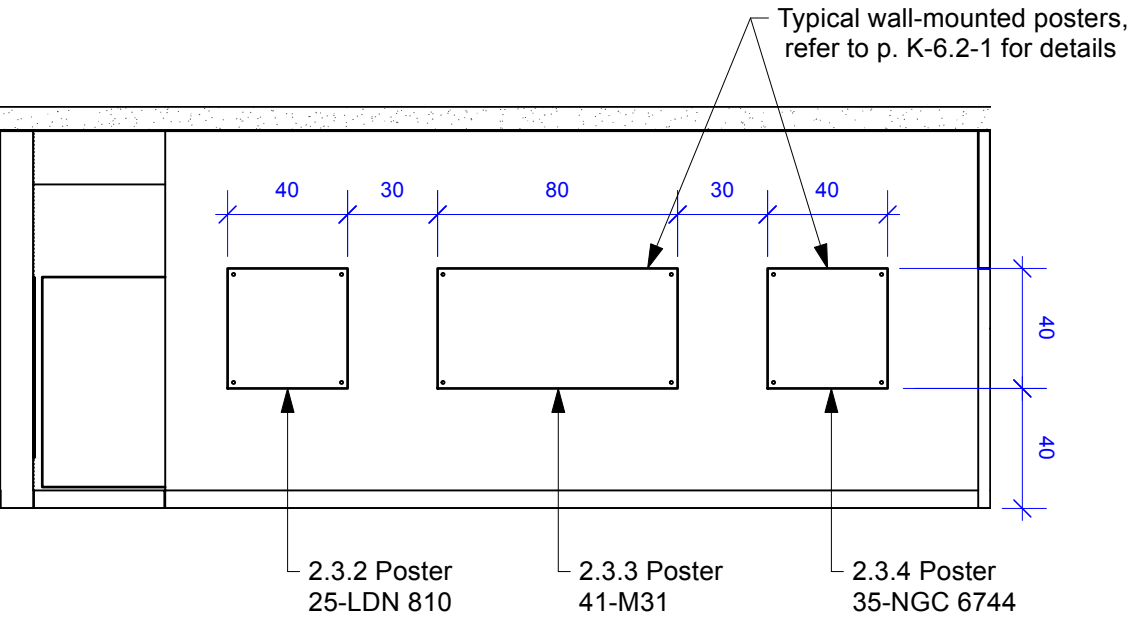
**LOBBY: ELEVATIONS**

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1 LOBBY: Restrooms Wall Elevation  
Scale: 3/16" = 1'-0"

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LOBBY: ELEVATIONS

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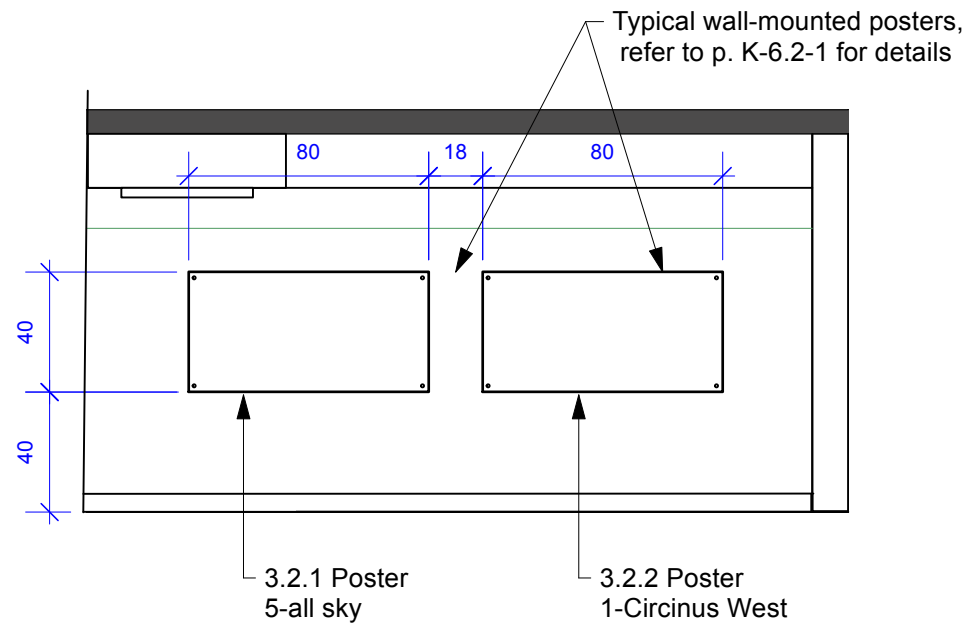
Date

2024-08-15

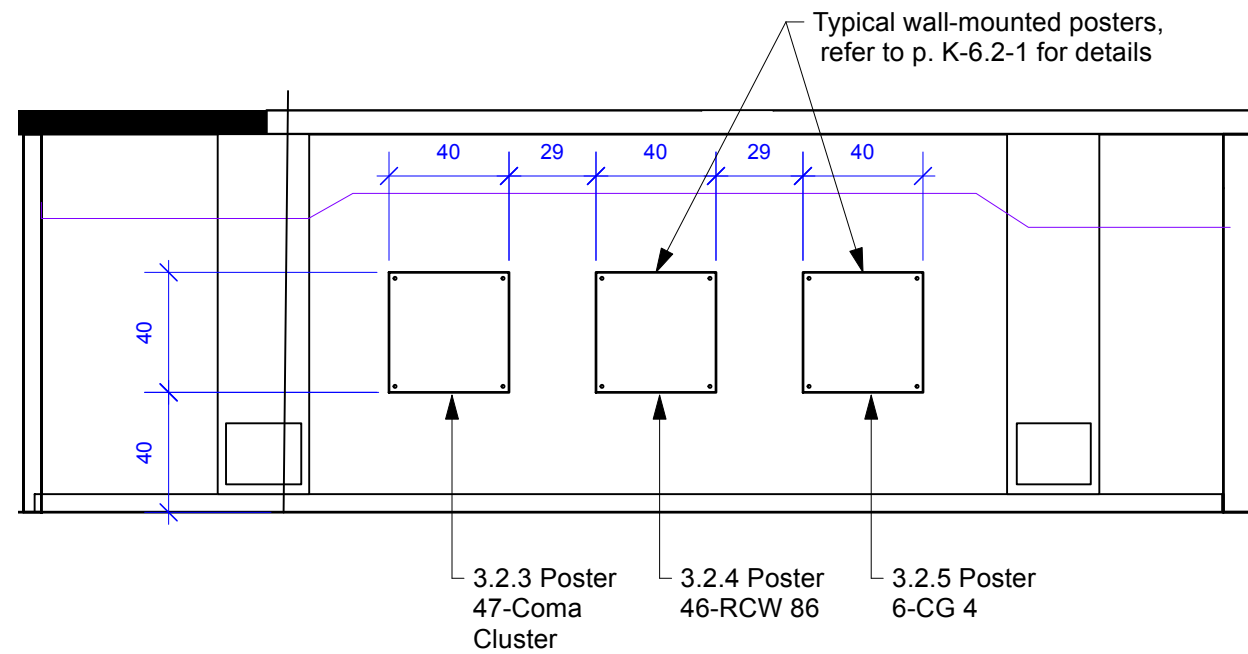
North

Dwg No.  

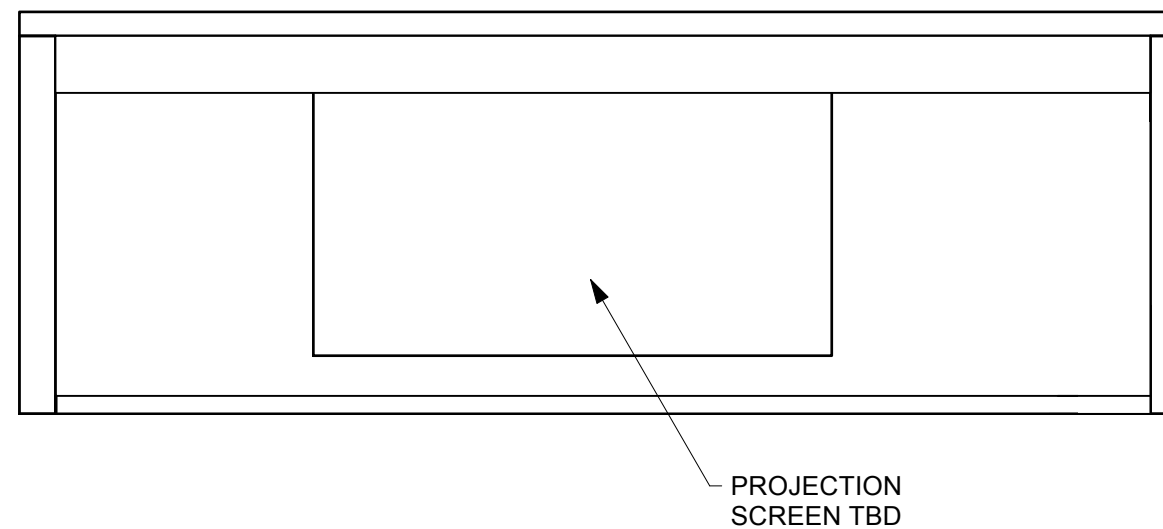
K-3.2-2  
A



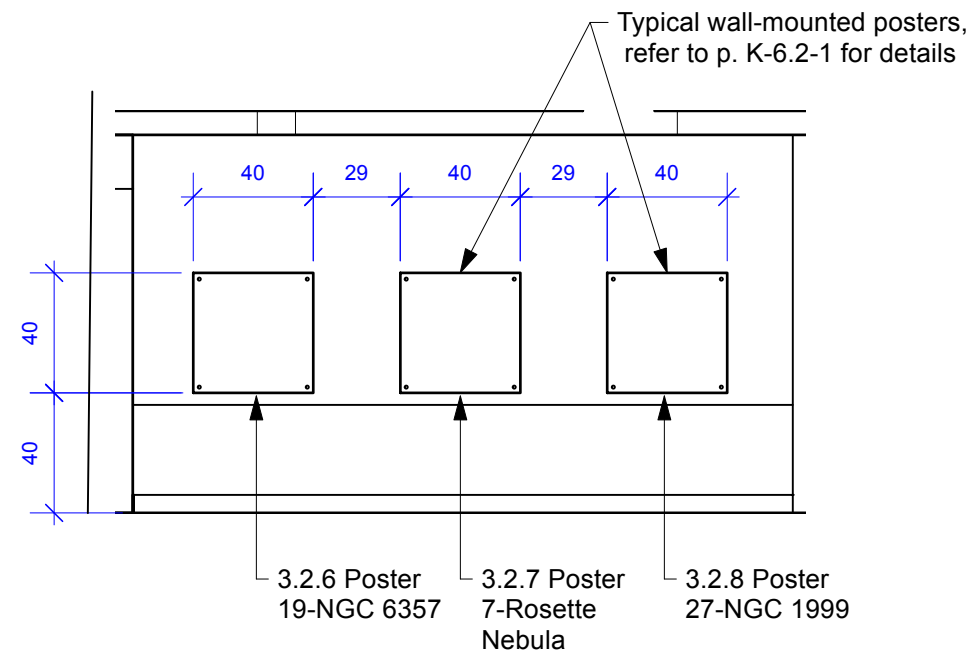
1 **THEATER: Wall Elevation**  
Scale: 3/16" = 1'-0"




2 **THEATER: Wall Elevation**  
Scale: 3/16" = 1'-0"

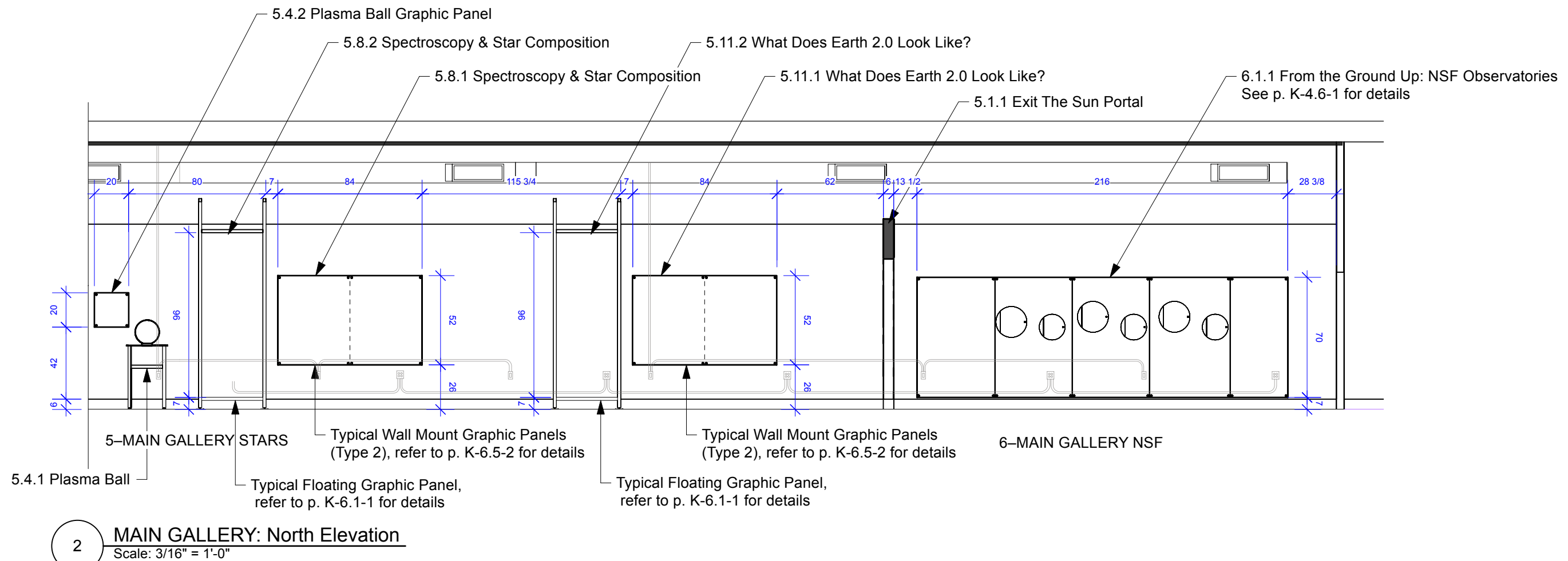
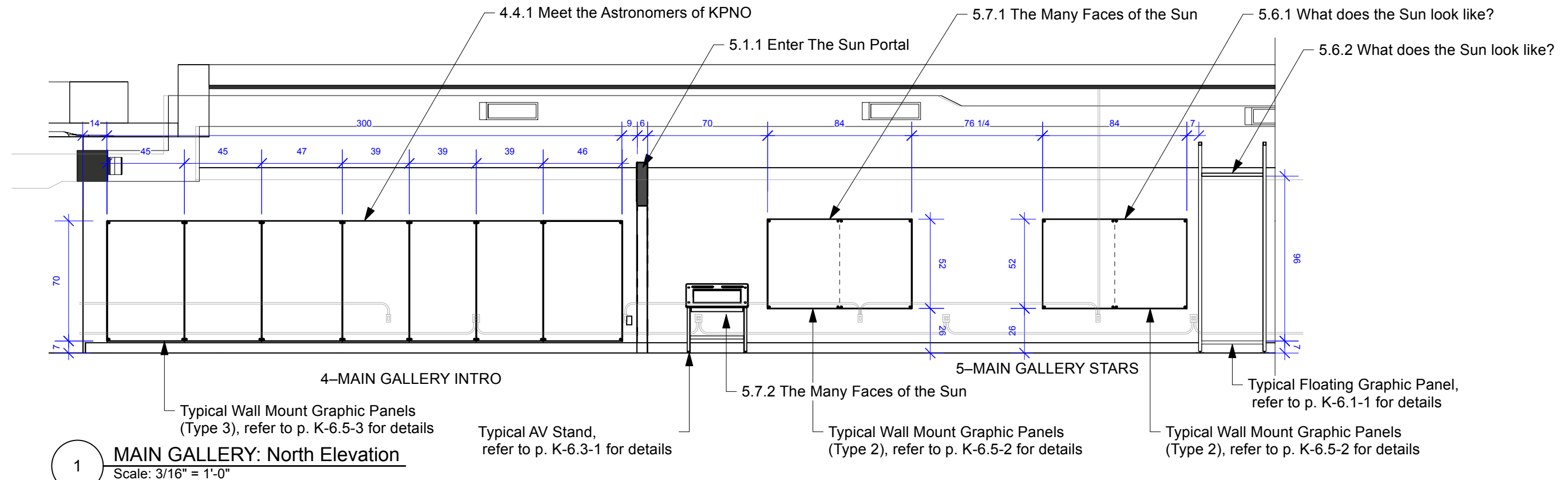



3 **THEATER: Wall Elevation**  
Scale: 3/16" = 1'-0"



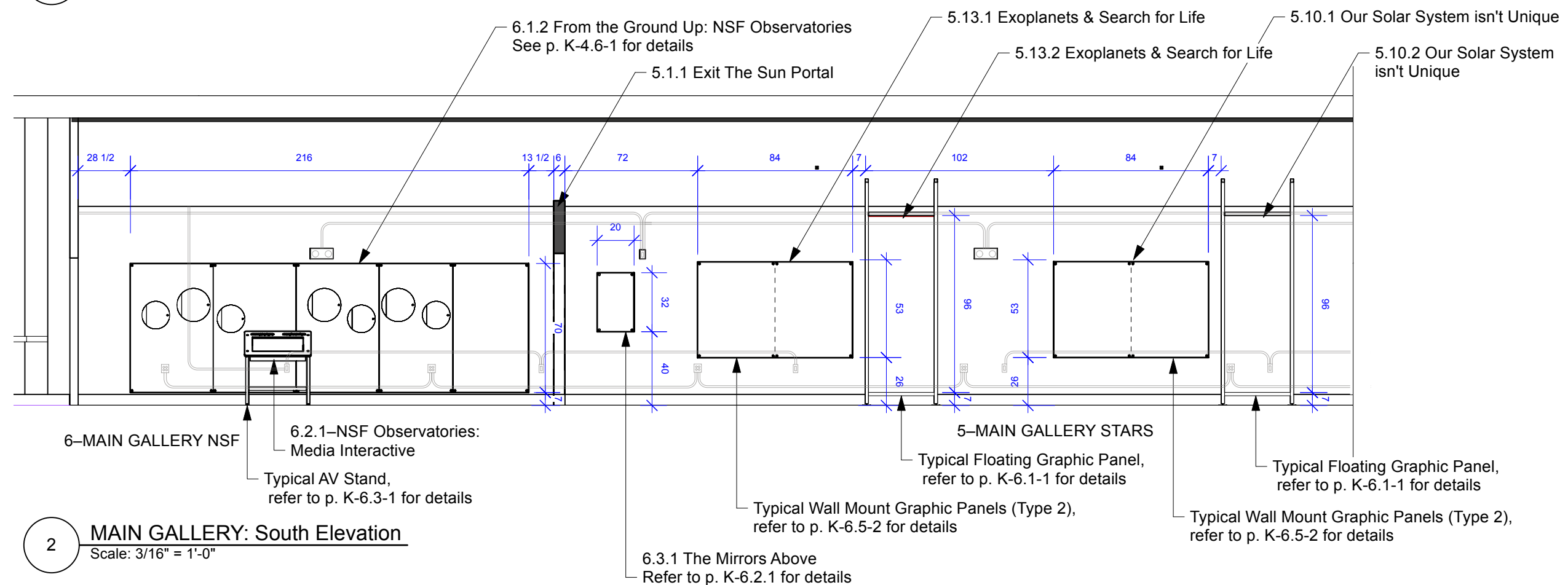
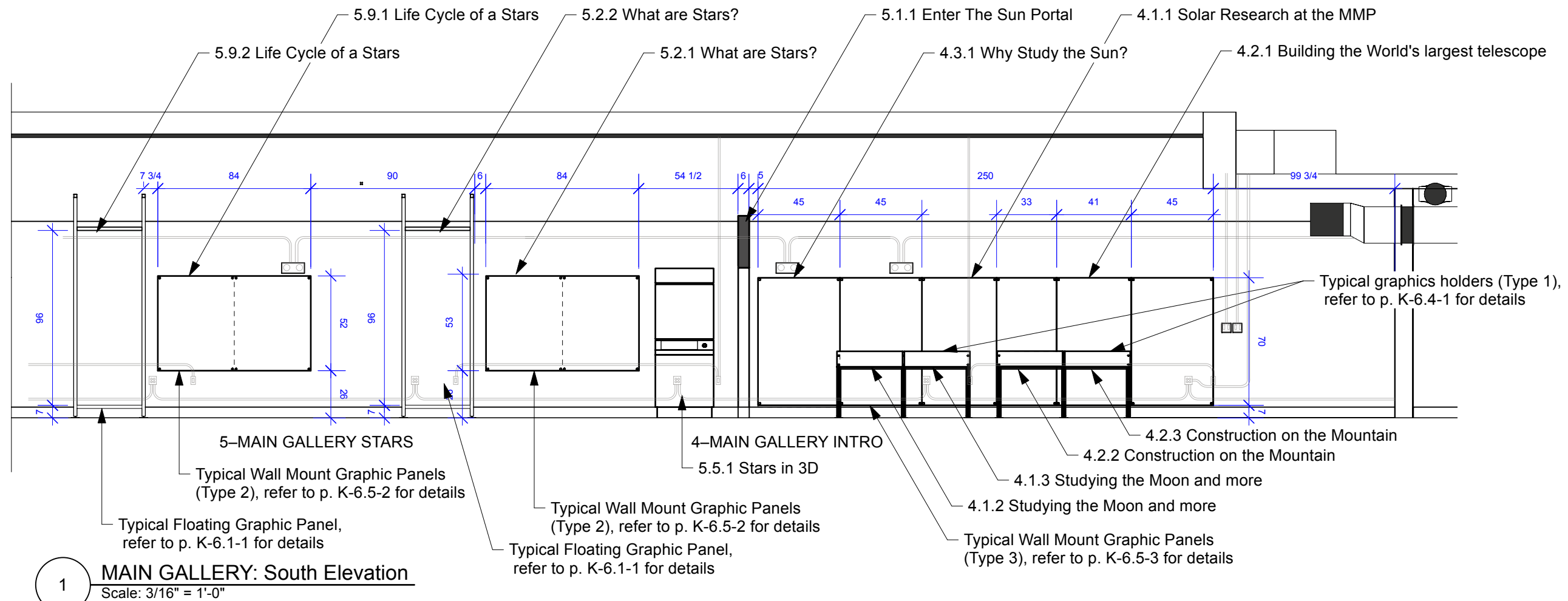
4 **THEATER: Wall Elevation**  
Scale: 3/16" = 1'-0"

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<div>  </div>		
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<b>Project</b> MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS		
<b>Drawing</b> THEATER: ELEVATIONS		
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North	<b>Dwg No.</b> K-3.3-1 A	



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Drawing			
MAIN GALLERY: NORTH ELEVATION			
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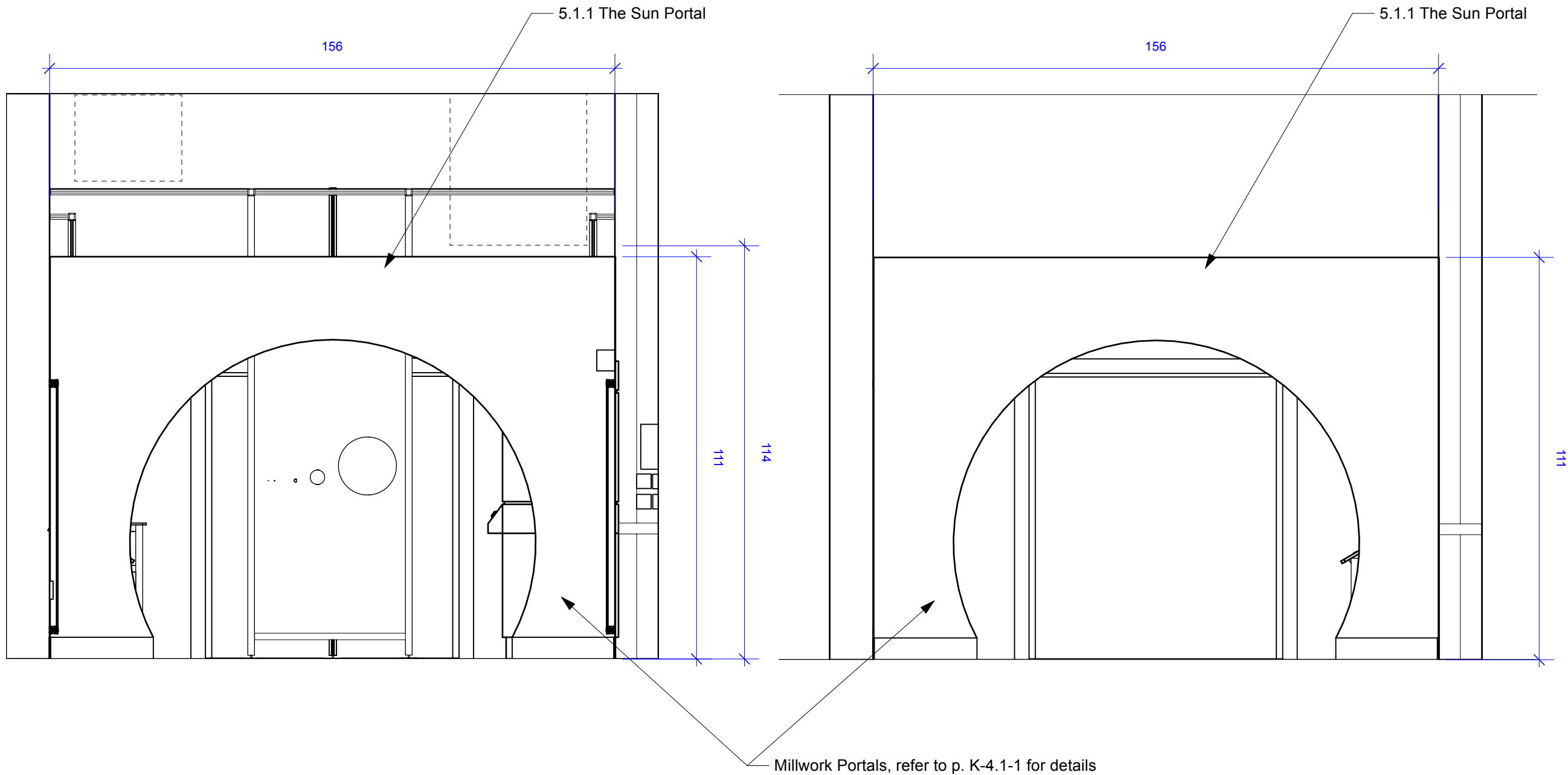
Project  
**MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS**

Drawing  
**MAIN GALLERY: SOUTH ELEVATION**

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**2024-08-15**


North	Dwg No. <b>K-3.4-2</b> A
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1 **MAIN GALLERY ENTRANCE: WEST ELEVATION**  
Scale: 3/8" = 1'-0"

2 **MAIN GALLERY EXIT: WEST ELEVATION**  
Scale: 3/8" = 1'-0"

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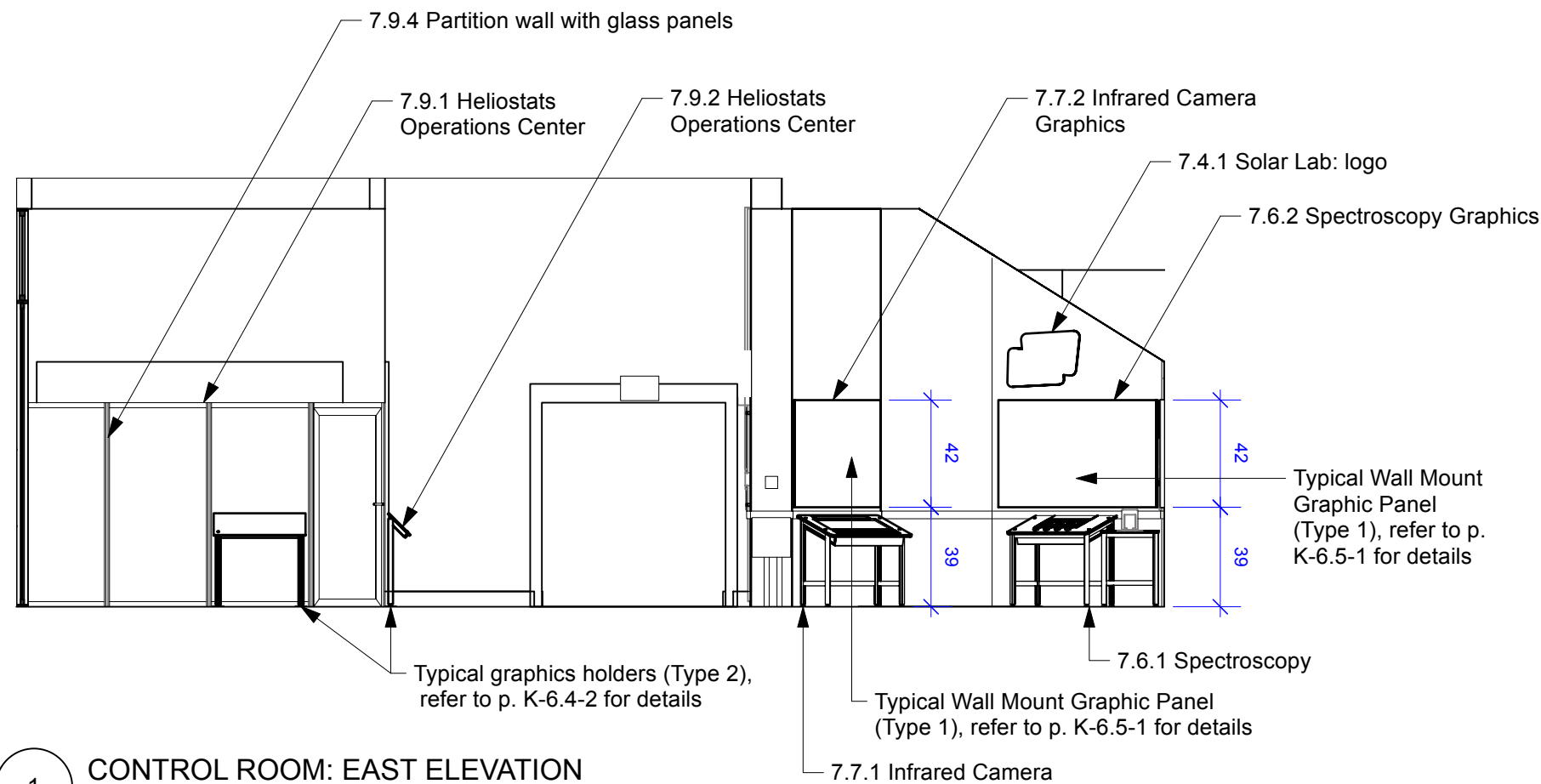
**MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS**

Drawing

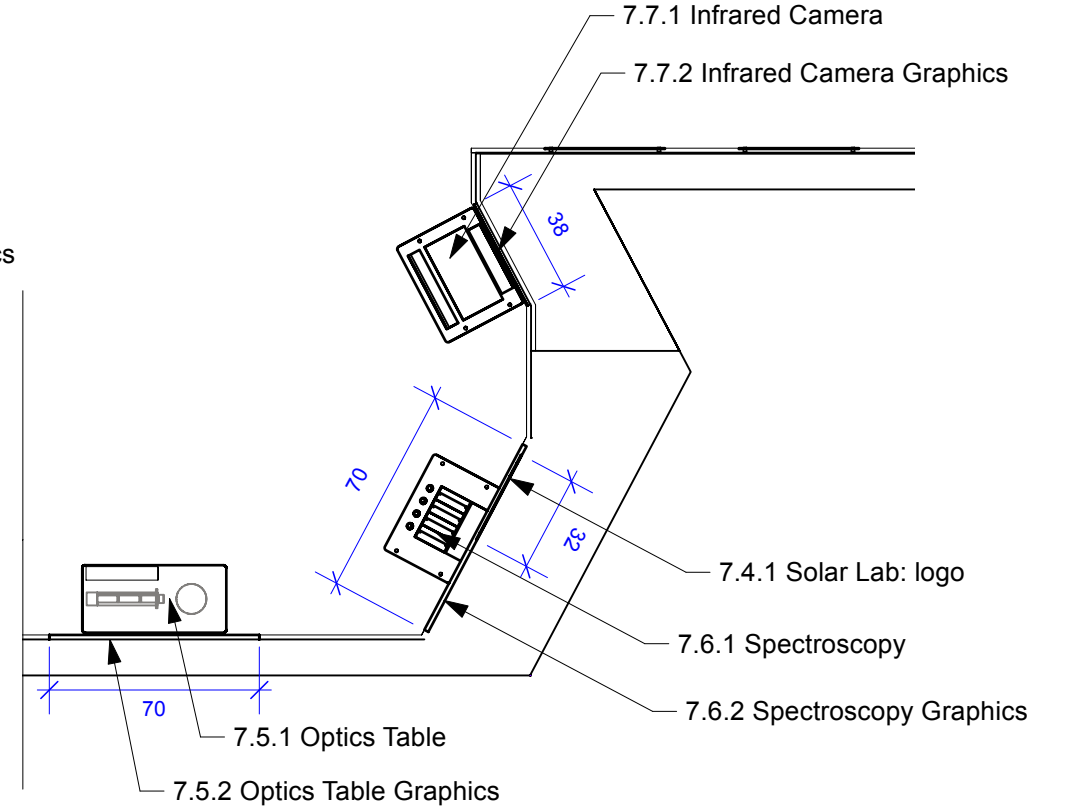
**MAIN GALLERY: WEST  
ELEVATION**

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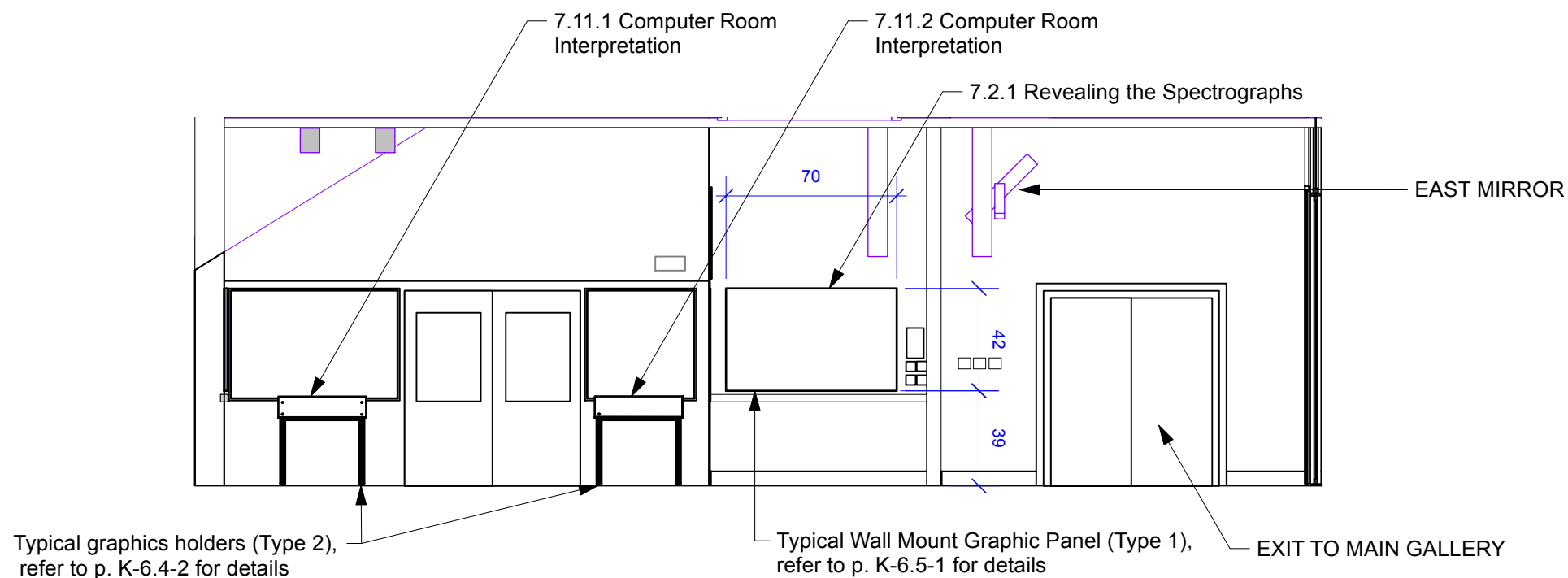
Date <b>2024-08-15</b>	
North	Dwg No. <b>K-3.4-3 A</b>




1 **CONTROL ROOM: EAST ELEVATION**  
Scale: 3/16" = 1'-0"

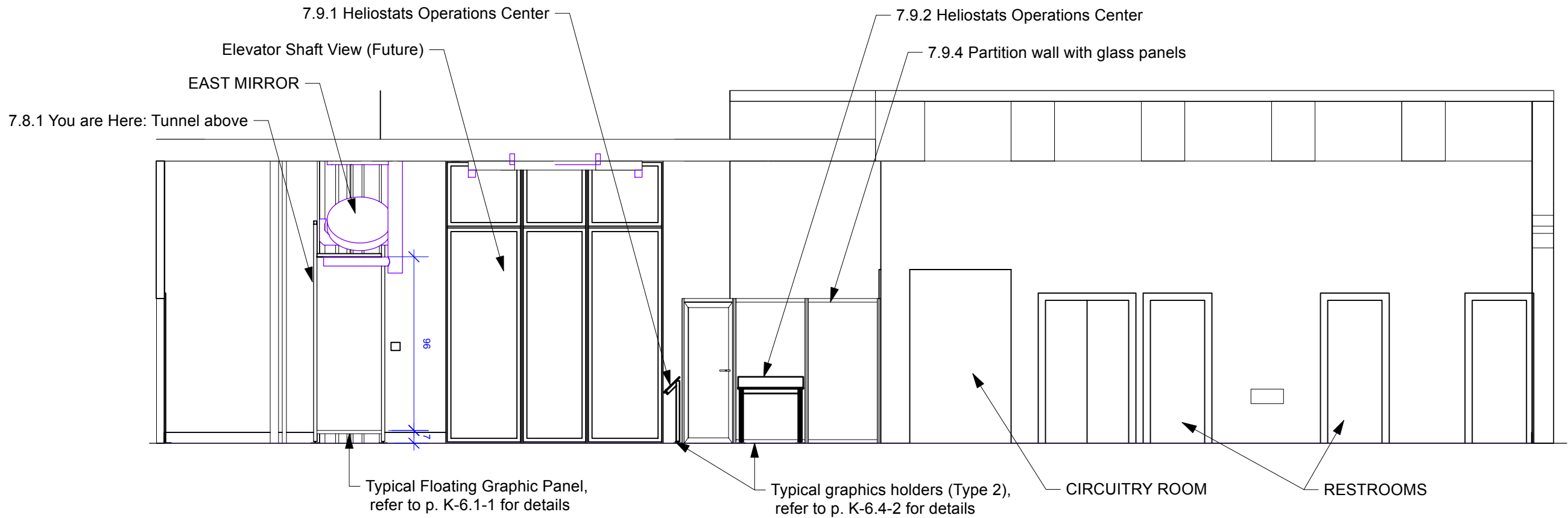


3 **CONTROL ROOM: EXHIBIT PLAN DETAIL**  
Scale: 3/16" = 1'-0"



2 **CONTROL ROOM: WEST ELEVATION**  
Scale: 3/16" = 1'-0"

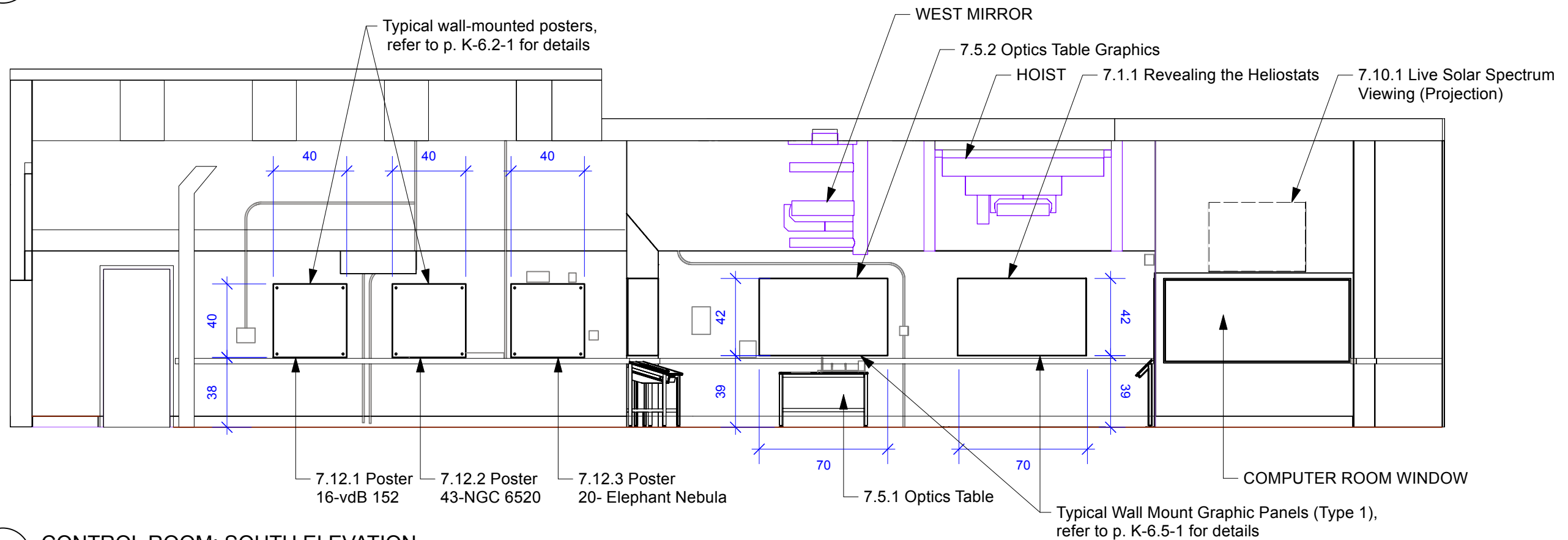
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Drawing			
CONTROL ROOM: EAST/WEST			
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		K-3.5-1 A	



1

## CONTROL ROOM: NORTH ELEVATION

Scale: 3/16" = 1'-0"



2

## CONTROL ROOM: SOUTH ELEVATION

Scale: 3/16" = 1'-0"

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### Drawing

CONTROL ROOM:  
NORTH/SOUTH VIEW

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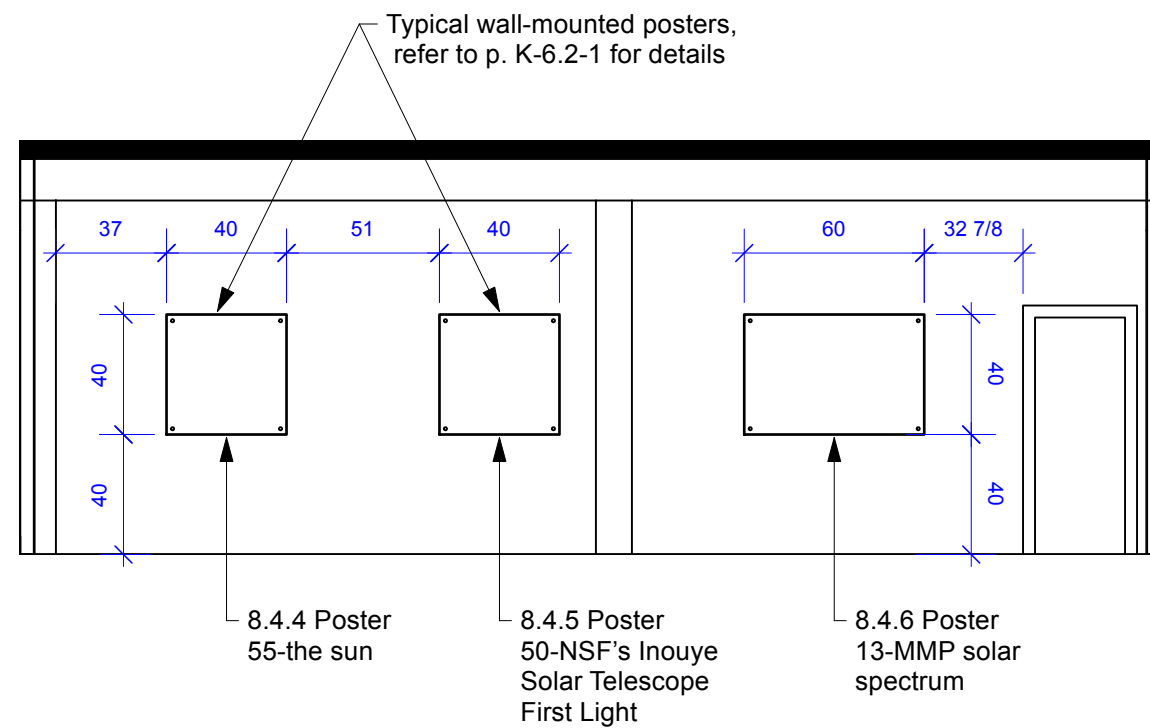
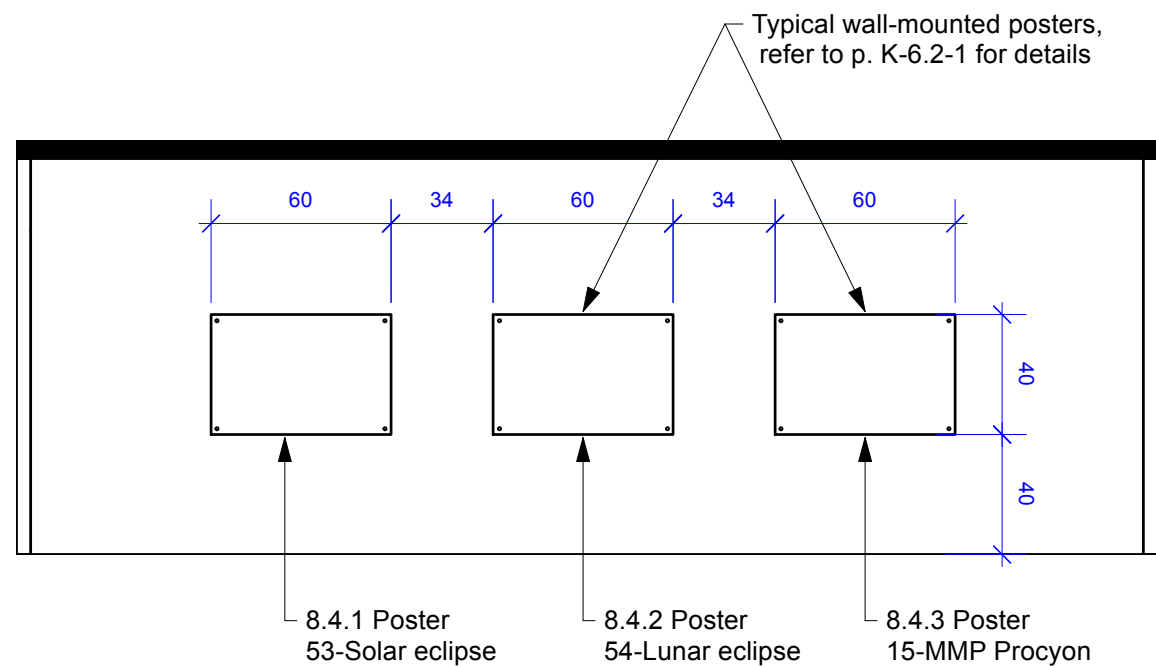
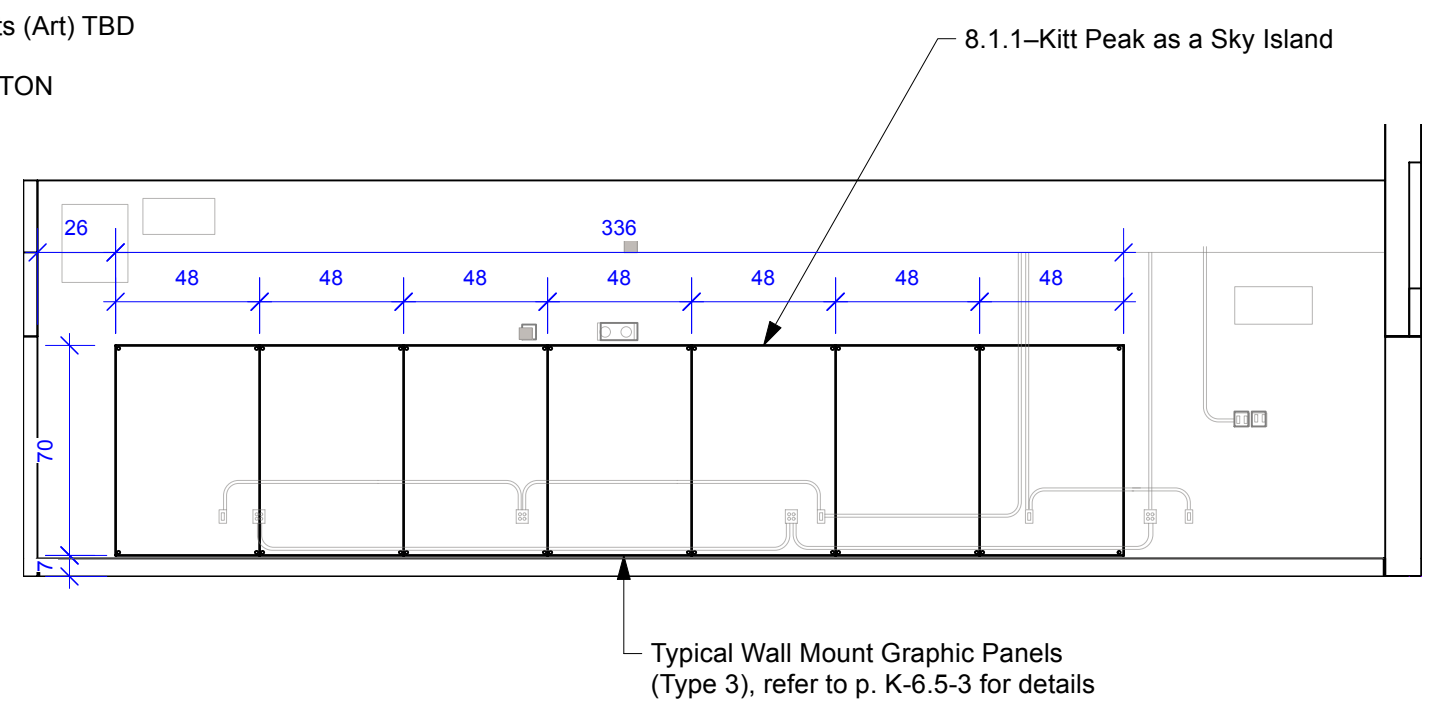
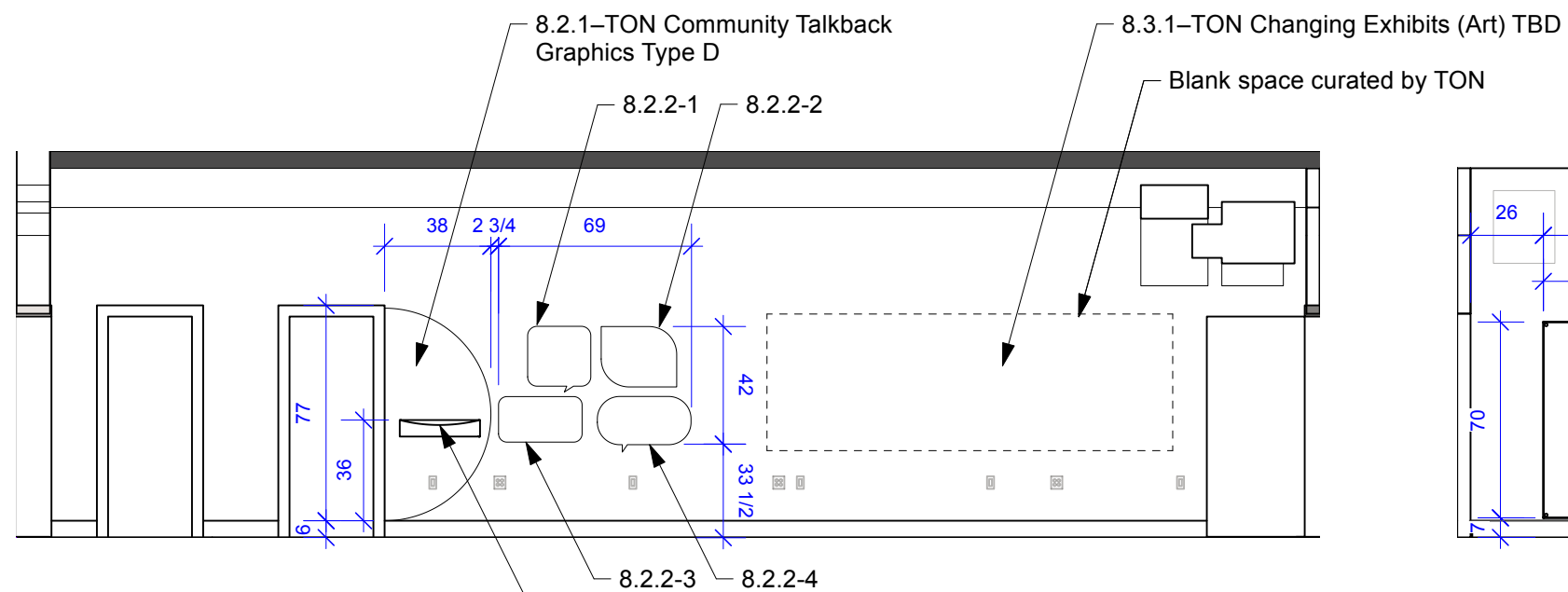
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Project

## MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

### Drawing

TON: ELEVATIONS

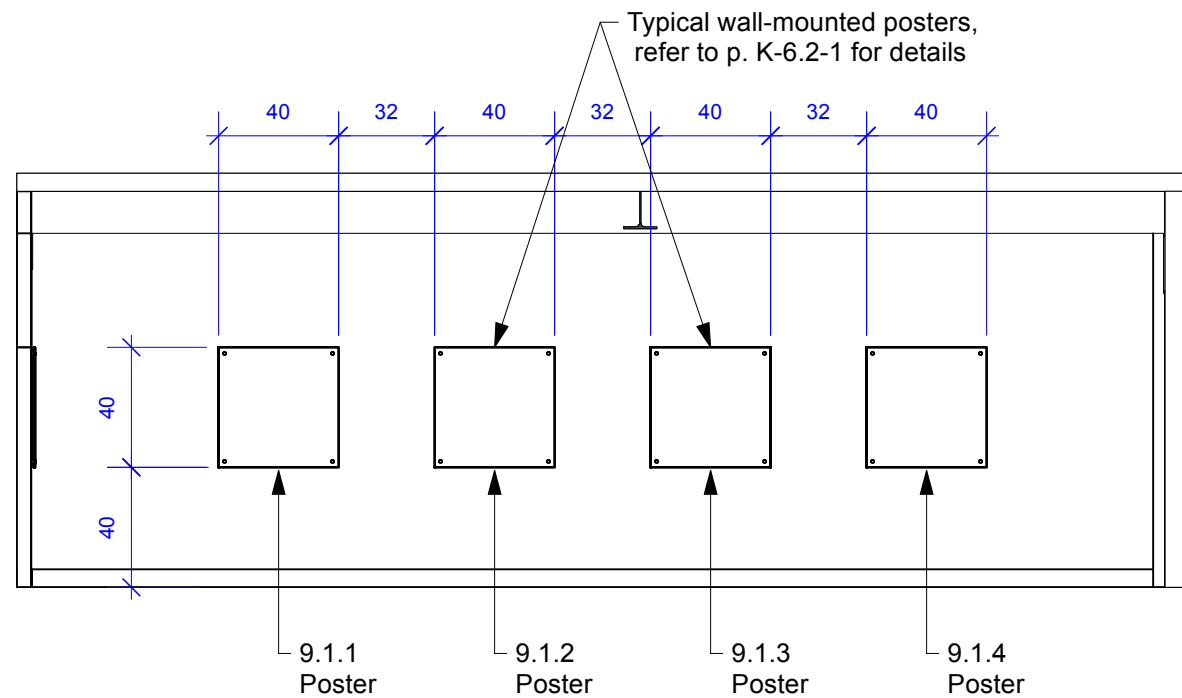
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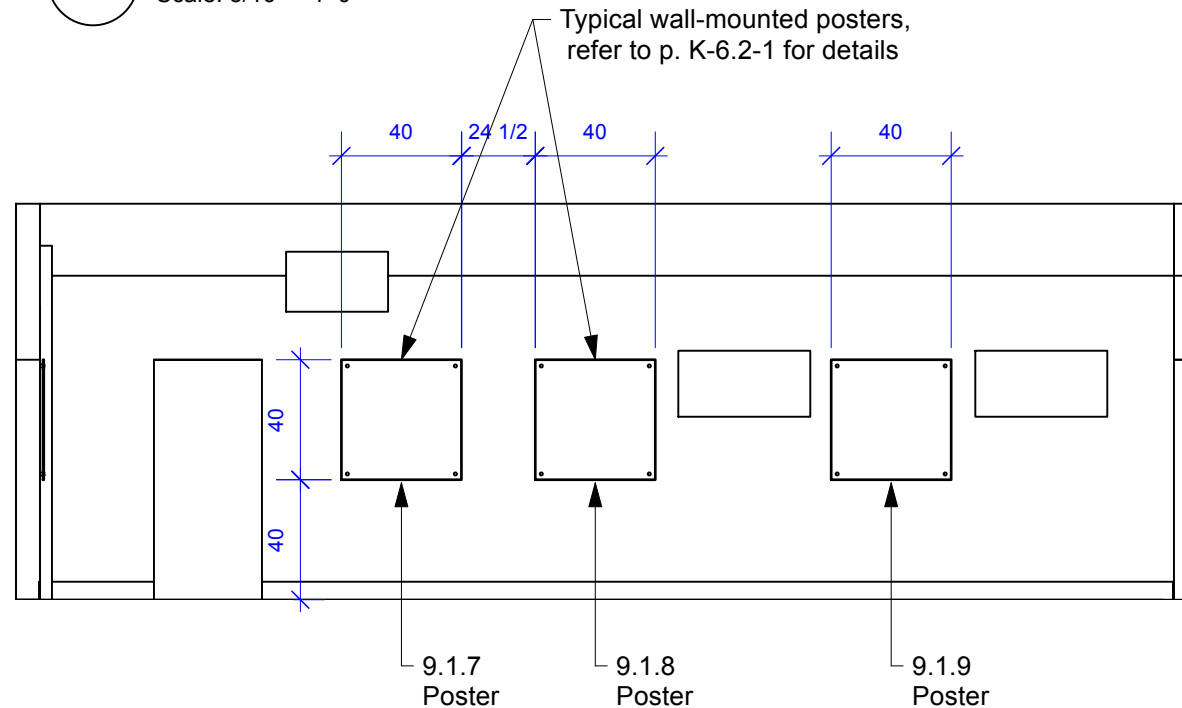
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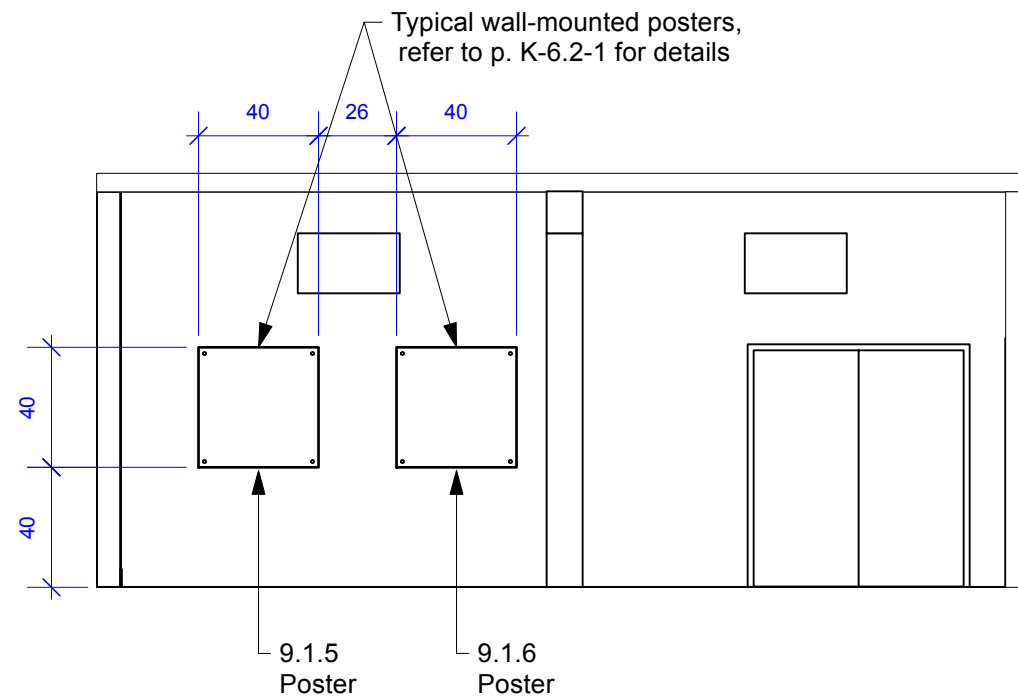
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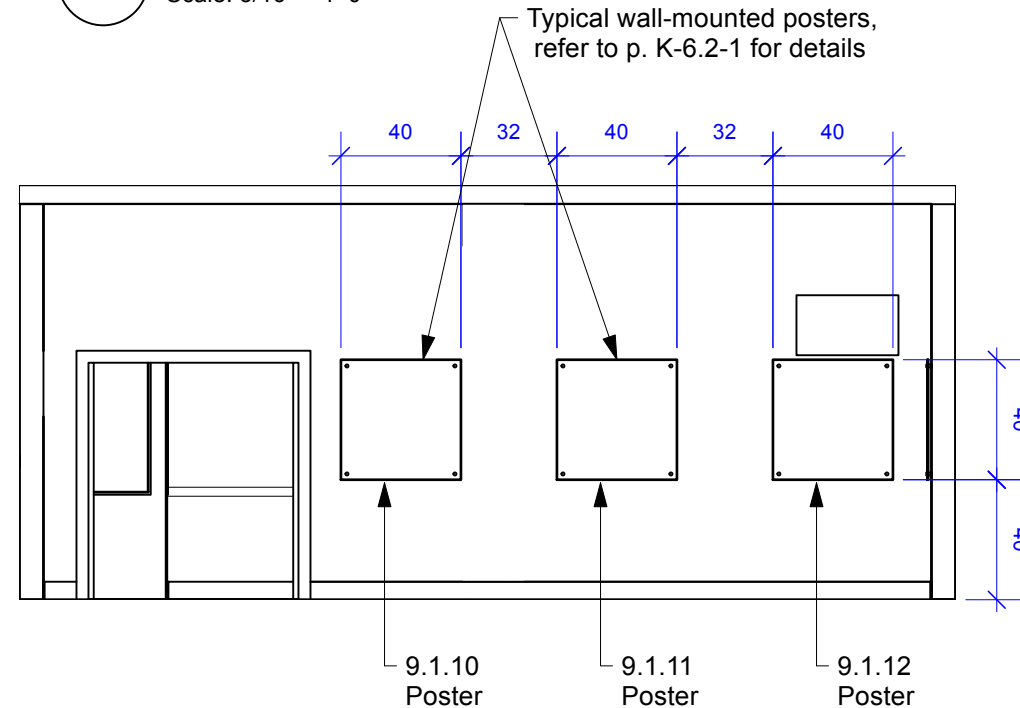
1 **SOS: North Elevation**  
Scale: 3/16" = 1'-0"



3 **SOS: South Elevation**  
Scale: 3/16" = 1'-0"



2 **SOS: East Elevation**  
Scale: 3/16" = 1'-0"



4 **SOS: West Elevation**  
Scale: 3/16" = 1'-0"

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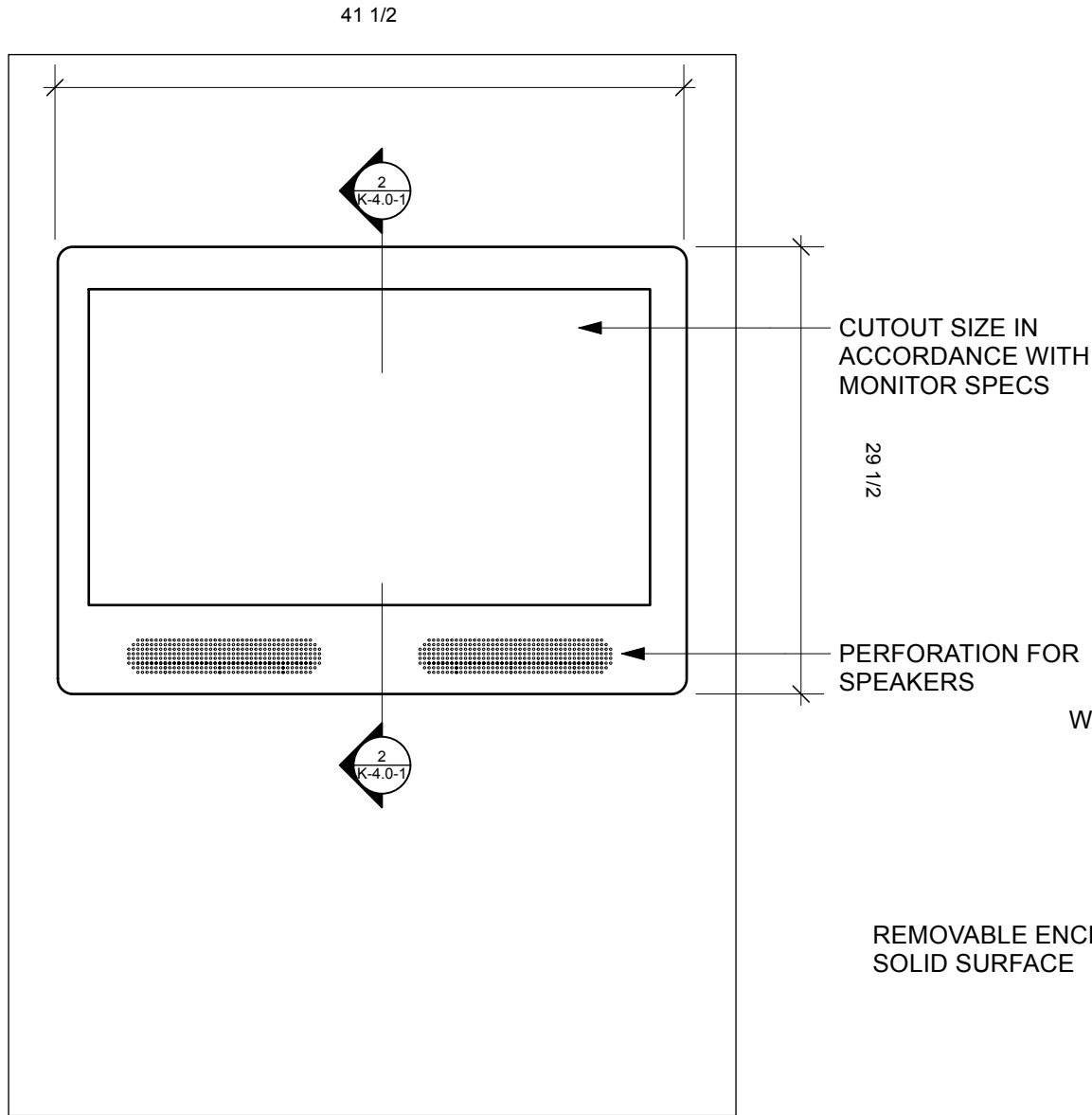
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**MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS**

Drawing  
**SOS: ELEVATIONS**

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1 **2.1.2 INTRO TO KPNO & TON AV: ELEVATION**  
Scale: 1" = 1'-0"

CUTOUT SIZE IN  
ACCORDANCE WITH  
MONITOR SPECS

PERFORATION FOR  
SPEAKERS

WALL LINE

REMOVABLE ENCLOSURE,  
SOLID SURFACE

43" MONITOR WITH  
MOUNTING PLATE MOUNTED  
TO BB WALL

SOUNDBAR  
MODEL TBD

1/2" PLYWOOD LAMINATE PANEL  
WITH GRAPHICS APPLIED

SOLID SURFACE ENCLOSURE

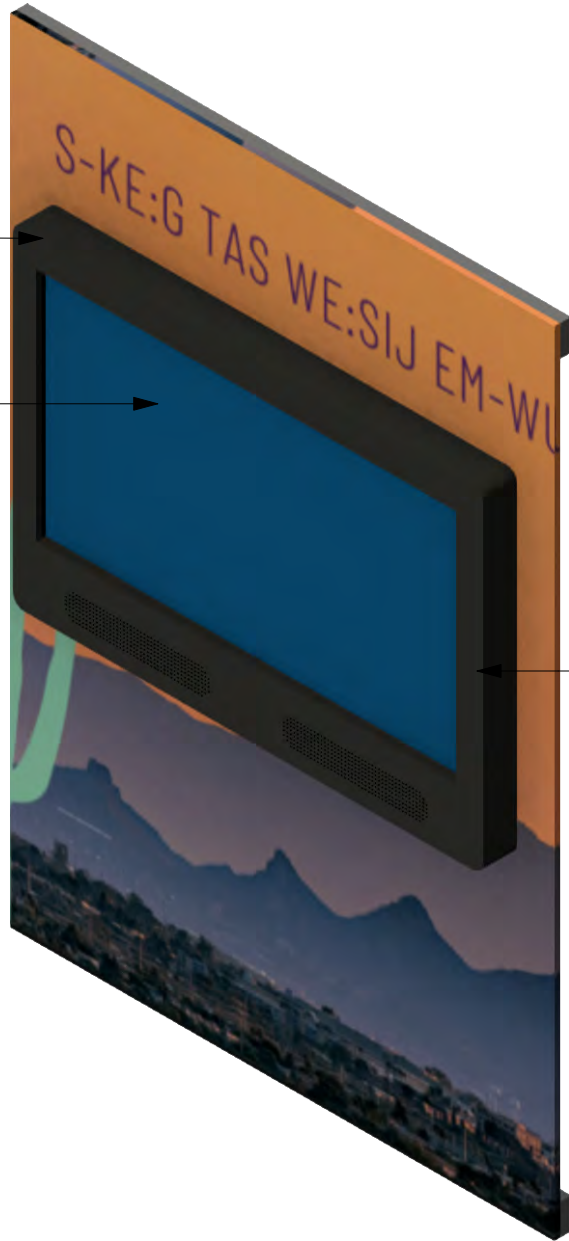
43" MONITOR SEE AV SPECS FOR  
MODEL AND DIMENSIONS

29 1/2

3 1 1/2

3 **2.1.2 INTRO TO KPNO & TON AV: OVERVIEW**  
Scale: 1" = 1'-0"

2 **2.1.2 INTRO TO KPNO & TON AV: SECTION**  
Scale: 1 1/2" = 1'-0"



FN-03

NOTE: LOCATION OF COMPUTER TO BE  
COORDINATED WITH POWER AND DATA  
CONNECTION ON SITE.

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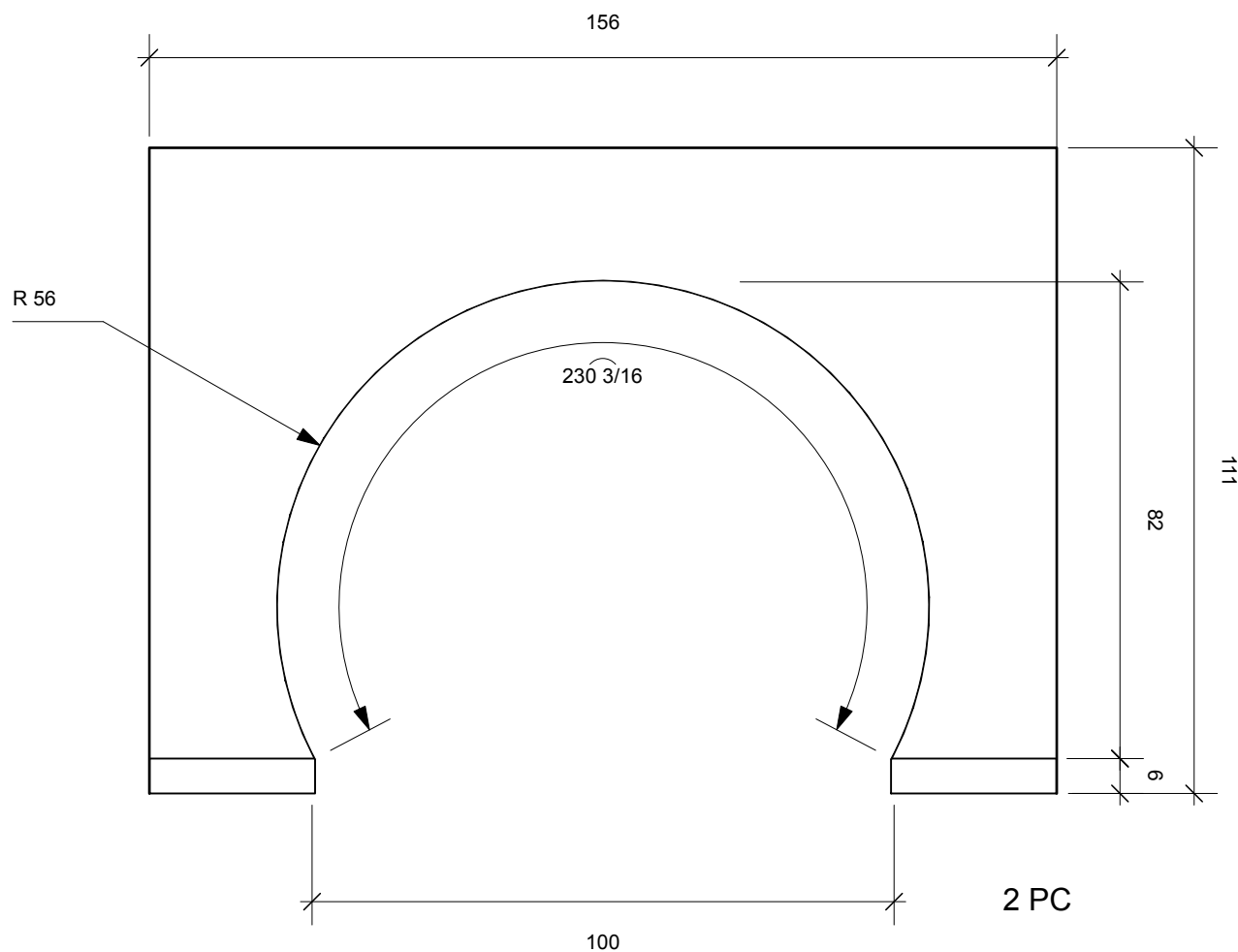
Project  
**MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS**

Drawing  
**MG: 2.1.2 INTRO TO KPNO &  
TON AV**

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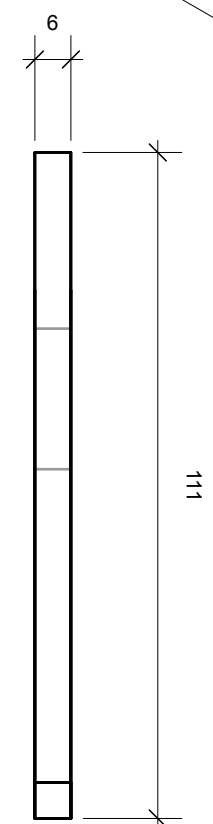


1 **5.1.1 THE SUN PORTAL: EXHIBIT ELEVATION**  
Scale: 3/8" = 1'-0"

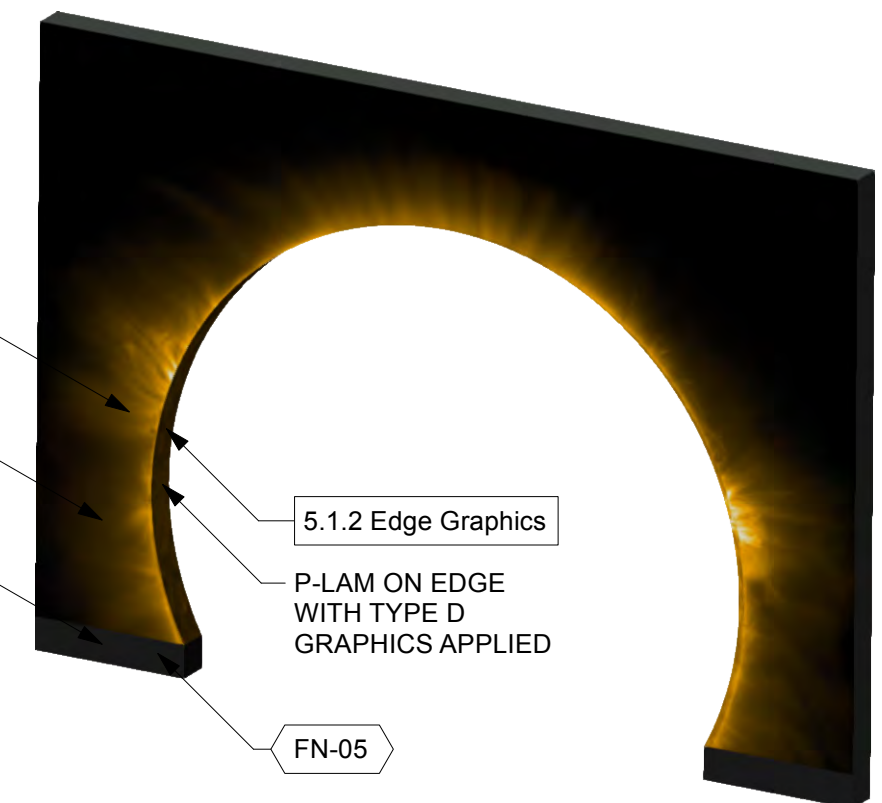
5.1.1 Enter & Exit Sun Portals

GRAPHIC TYPE D  
BOTH SIDES AND INSIDE CAP

VINYL COVE BASE MOLDING



2 **5.1.1 THE SUN PORTAL: SIDE VIEW**  
Scale: 3/8" = 1'-0"



3 **5.1.1 THE SUN PORTAL: OVERVIEW**  
Scale: 3/8" = 1'-0"

**General Notes**

- Two portal units for the main gallery entrance and exit, both have identical graphics on both sides
- Millwork portals are constructed using plywood on studs with a P-Lam base for graphics
- Fabricator to verify all site dimensions to ensure conduit clearance on sidewalls prior to fabrication

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**MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS**

Drawing

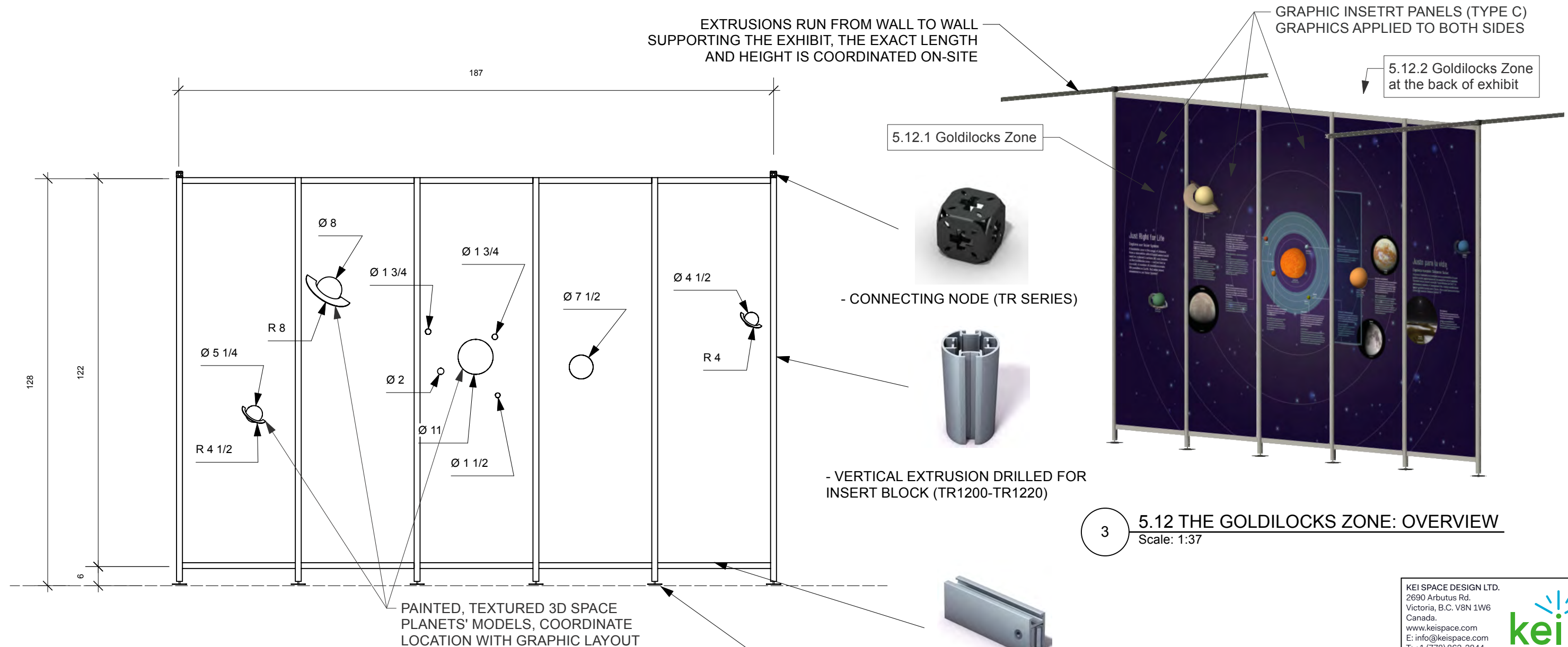
**MG: 5.1.1 THE SUN PORTAL**

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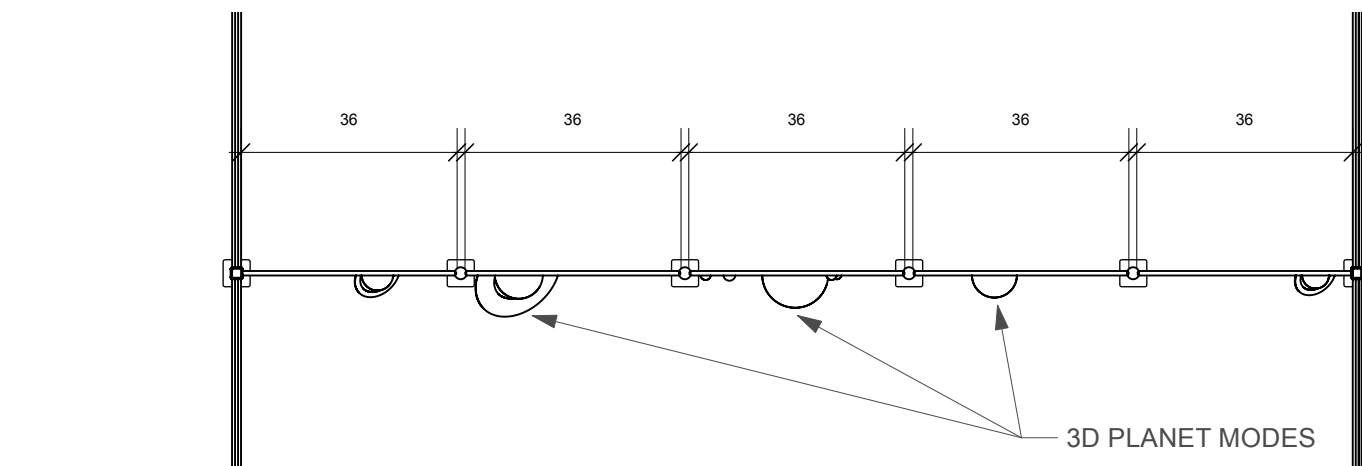
Date

**2024-08-15**

North	Dwg No.
	<b>K-4.1-1</b>
	A



1 **5.12 THE GOLDILOCKS ZONE: EXHIBIT ELEVATION**  
Scale: 3/8" = 1'-0"




2 **5.12 THE GOLDILOCKS ZONE: : EXHIBIT PLAN**  
Scale: 3/8" = 1'-0"

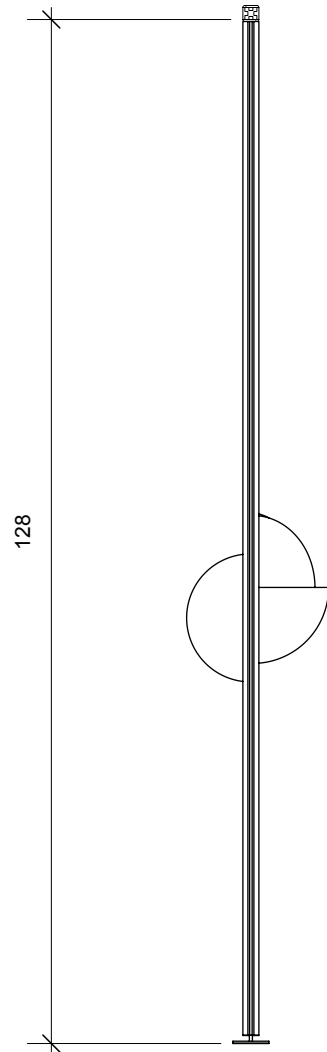
3 **5.12 THE GOLDILOCKS ZONE: OVERVIEW**  
Scale: 1:37

General Notes

- 3D Planet models attached to graphic panels, exact location coordinated with graphics layout
- Extrusions and accessories AGAM or similar, could be sources from: <https://www.agam.com/extrusions-and-accessories/>
- Fabricator to verify all site dimensions to confirm the exhibit height allowance

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Drawing			
MG: 5.12 THE GOLDILOCKS ZONE			
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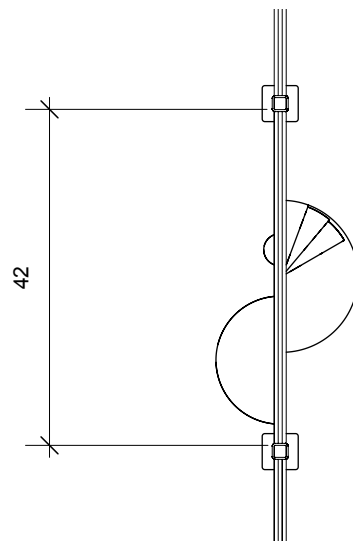




1

### 5.3.1 TYPE OF STARS: EXHIBIT PLAN

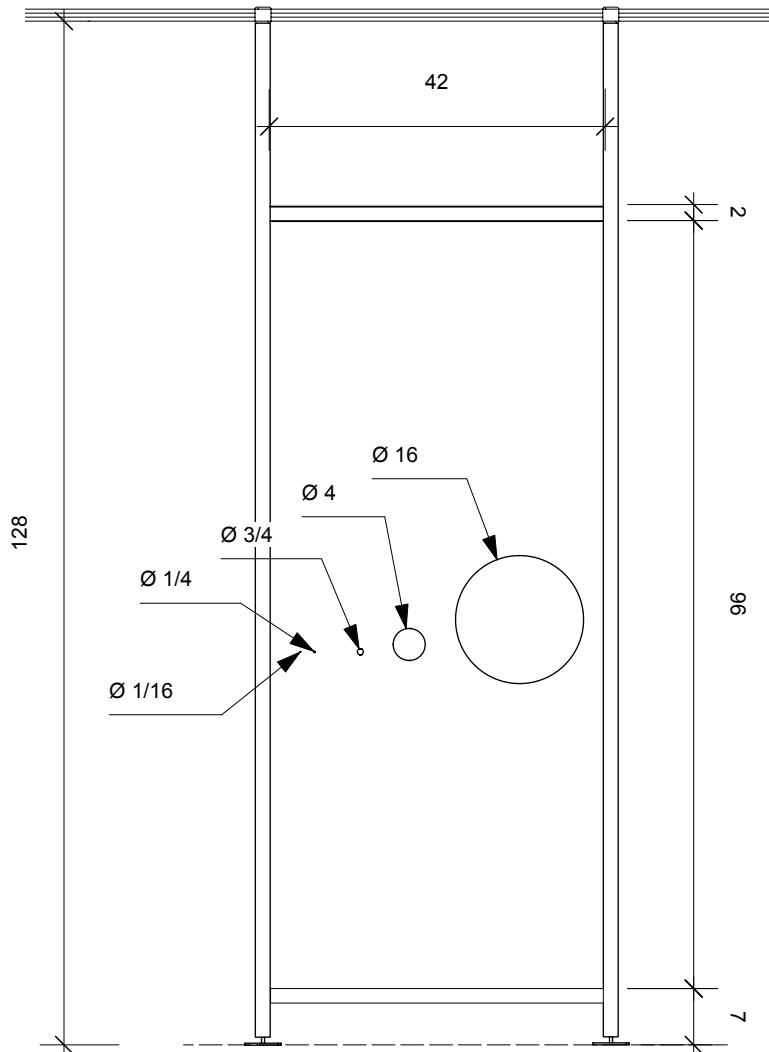
Scale: 1/2" = 1'-0"



3

### 5.3.1 TYPE OF STARS: EXHIBIT PLAN

Scale: 1/2" = 1'-0"



2

### 5.3.1 TYPE OF STARS: EXHIBIT ELEVATION

Scale: 1/2" = 1'-0"

#### General Notes

- Extrusions and accessories AGAM or similar, could be sources from: <https://www.agam.com/extrusions-and-accessories/>
- Fabricator to verify all site dimensions to confirm the exhibit height allowance



- VERTICAL EXTRUSION +  
CONNECTORS (VS45)



- CONNECTING NODE (TR SERIES)

GRAPHIC TYPE C

5.3.1 Type of stars



- VERTICAL EXTRUSION DRILLED  
FOR INSERT BLOCK (TR1100)



- HORIZONTAL EXTRUSION (PH1005)



- MOUNTING PLATE SECURED  
TO FLOOR WITH BOLTS

4

### 5.3.1 TYPE OF STARS: OVERVIEW

Scale: 1/2" = 1'-0"

EXTRUSIONS RUN FROM WALL TO  
WALL SUPPORTING THE EXHIBIT,  
THE EXACT LENGTH AND HEIGHT  
IS COORDINATED ON-SITE

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#### Drawing

MG: 5.3 TYPE OF STARS

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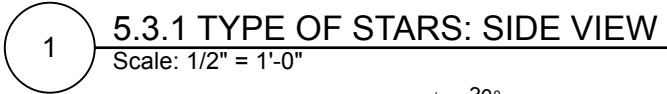
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#### Dwg No.

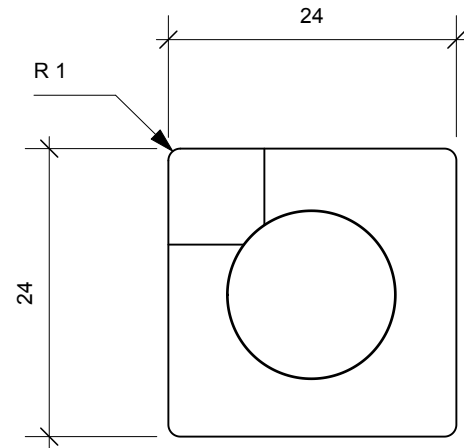
K-4.3-1  
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1. Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>
2. Fabricator to verify all site dimensions to confirm the exhibit height allowance



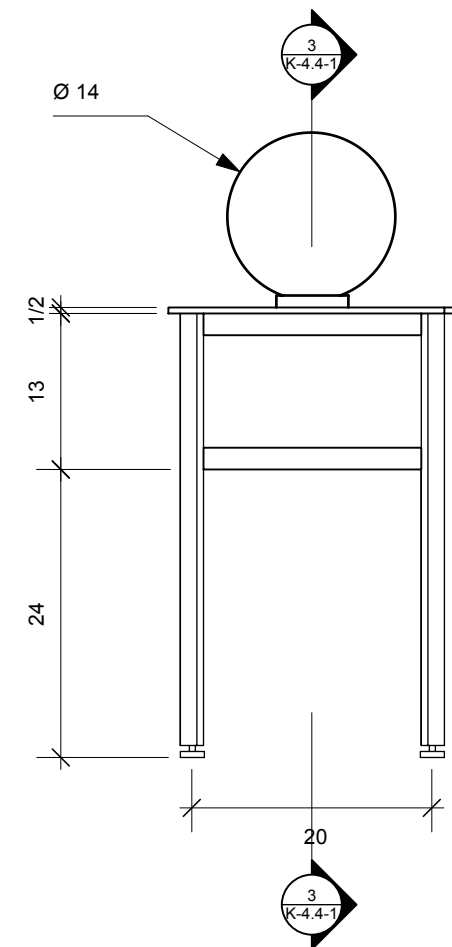




2

#### 5.4.1 PLASMA BALL: EXHIBIT PLAN

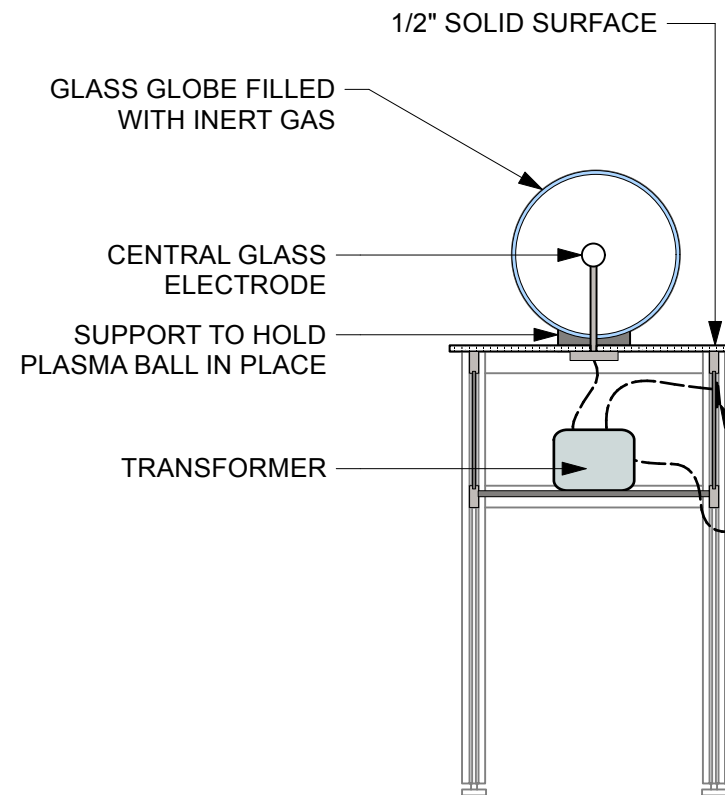
Scale: 3/4" = 1'-0"



1

#### 5.4.1 PLASMA BALL: EXHIBIT ELEVATION

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



3

#### 5.4.1 PLASMA BALL: SECTION

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

EXISTING PLASMA BALL EXHIBIT  
REMOVABLE SOLID SURFACE  
COUNTERTOP, SECURED TO  
EXTRUSION WITH HIDDEN SCREWS

5.4.2 Plasma Ball

FABRICATOR TO CONFIRM REQUIREMENTS  
FOR THE EXISTING PLASMA BALL TO BE  
INSTALLED INTO A NEW ENCLOSURE, PROVIDE  
PERFORATION IN MILLWORK FOR VENT IN  
ACCORDANCE WITH PLASMA BALL SPECS

- VERTICAL EXTRUSION (TR1100)

- LEVELER AND INSERT SET

ON/OFF SWITCH

General Notes

- Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>

4

#### 5.4.1 PLASMA BALL: OVERVIEW

Scale: 1" = 1'-0"

- HORIZONTAL EXTRUSION  
(PH1005) UNDERNEATH  
COUNTERTOP

FN-05

FN-02

MDF INSERT PAINTED

- HORIZONTAL EXTRUSION WITH  
COUNTERTOP SUPPORT (PL1012)

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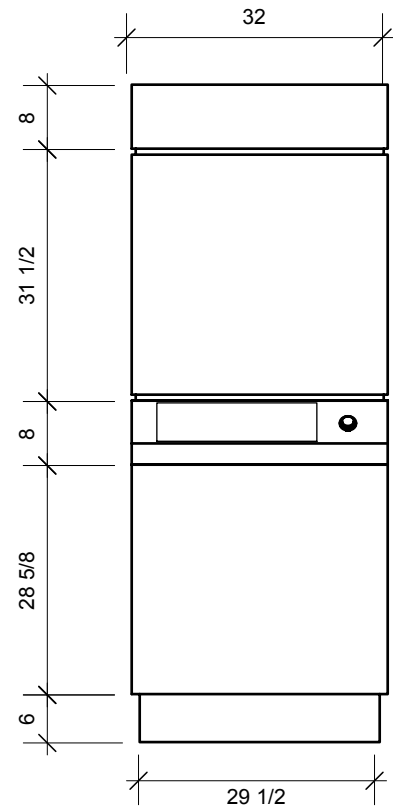
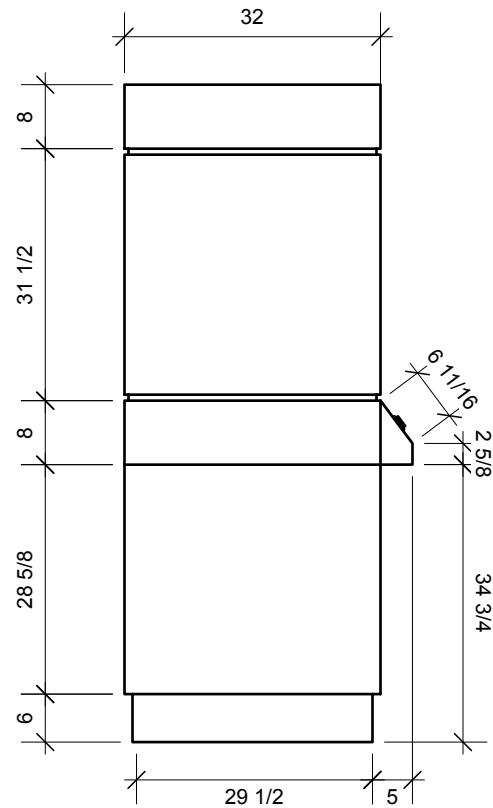
MG: 5.4.1 PLASMA BALL

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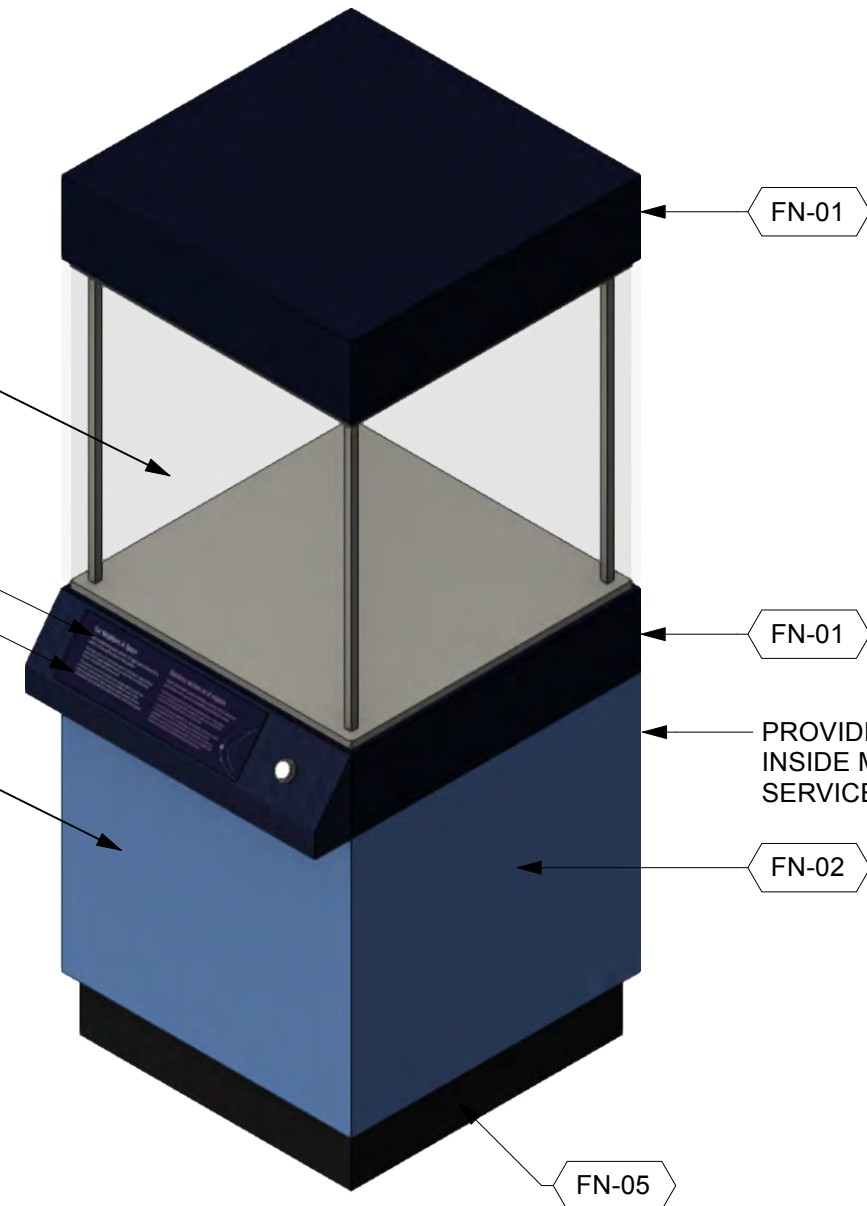


EXISTING EXHIBIT WITH ENCLOSURE

5.5.2 Stars in 3D Grapgc Panel

GRAPHIC PANEL TYPE C

NEW MILLWORK TO ACCOMMODATE THE EXHIBIT



1

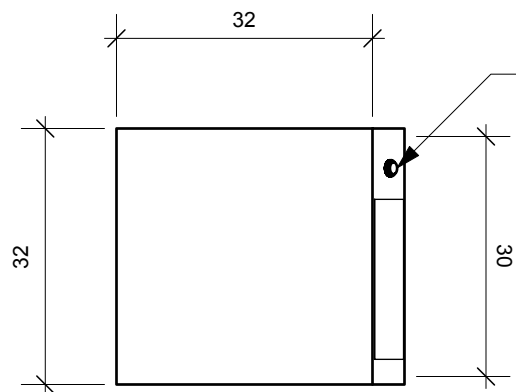
### 5.5.1 STARS IN 3D: EXHIBIT ELEVATION

Scale: 1/2" = 1'-0"

2

### 5.5.1 STARS IN 3D: EXHIBIT ELEVATION

Scale: 1/2" = 1'-0"



BUTTON TO ROTATE  
ACTIVATE EXHIBIT

3


### 5.5.1 STARS IN 3D: PLAN

Scale: 1/2" = 1'-0"

4

### 5.5.1 STARS IN 3D: OVERVIEW

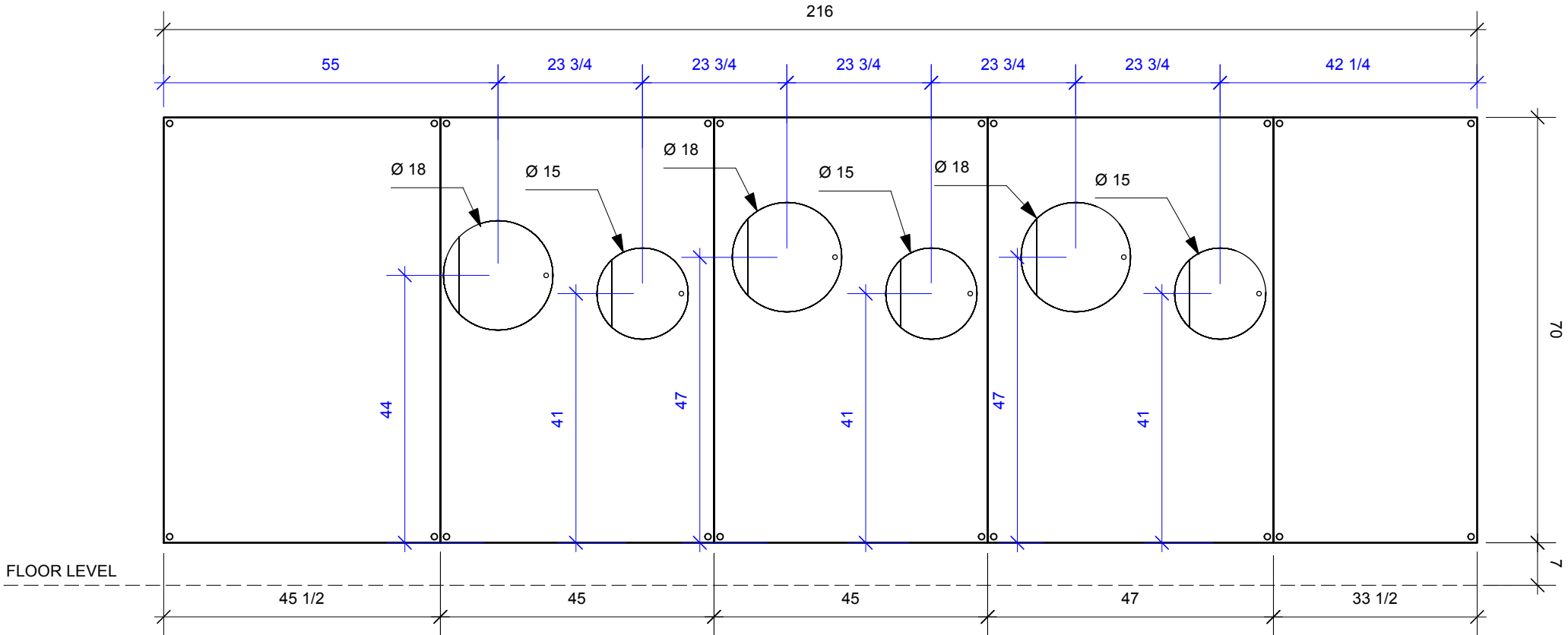
Scale: 1:15

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MG: 5.5.1 STARS IN 3D			
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Digitally printed graphics on vinyl with satin overlam applied on 1/2" Plywood Laminate Panel (TYPE B) mounted to the wall with the same approach as Wall mount graphics (TYPE 3), see K-6.5-3 for details

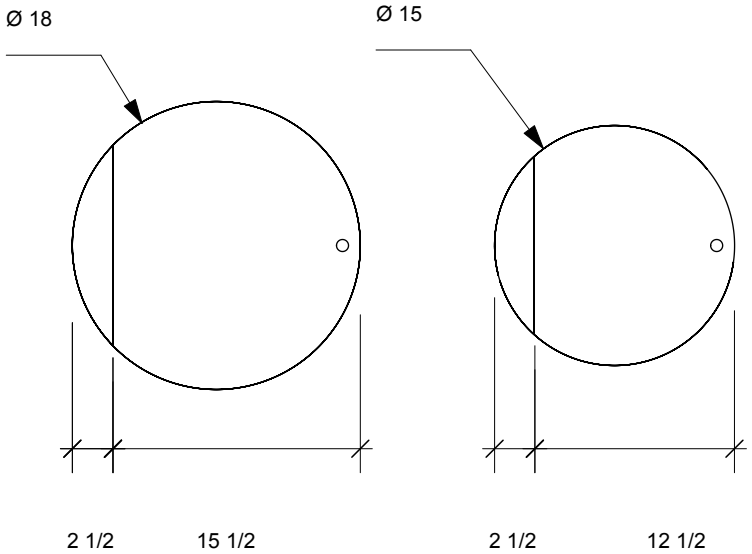


1 6.1.1 NSF: EXHIBIT ELEVATION  
Scale: 1/2" = 1'-0"

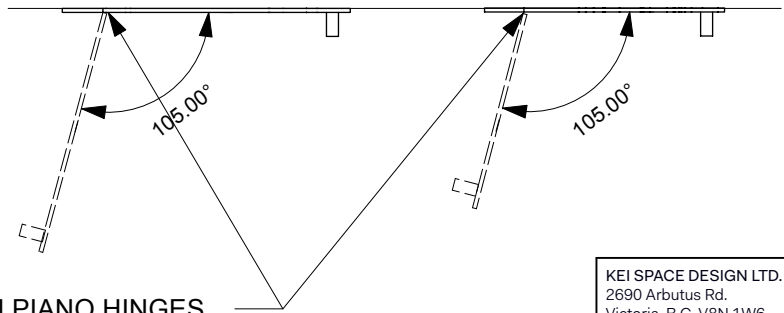


2 6.1.1 NSF: EXHIBIT ELEVATION  
Scale: 1/2" = 1'-0"

General Notes  
1. Fabricator to verify all site dimensions to ensure conduit clearance prior to fabrication



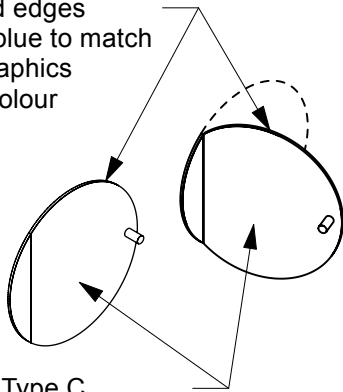
3 6.1.1 NSF: DETAILS TYP  
Scale: 1" = 1'-0"  
Typical flip panels with graphics applied, mounted on graphic mural, coordinate location with graphics



HIDDEN PIANO HINGES WITH STOPPER


4 6.1.1 NSF: DETAILS TYP.  
Scale: 1" = 1'-0"

Back side and edges painted dark blue to match the interior graphics background colour

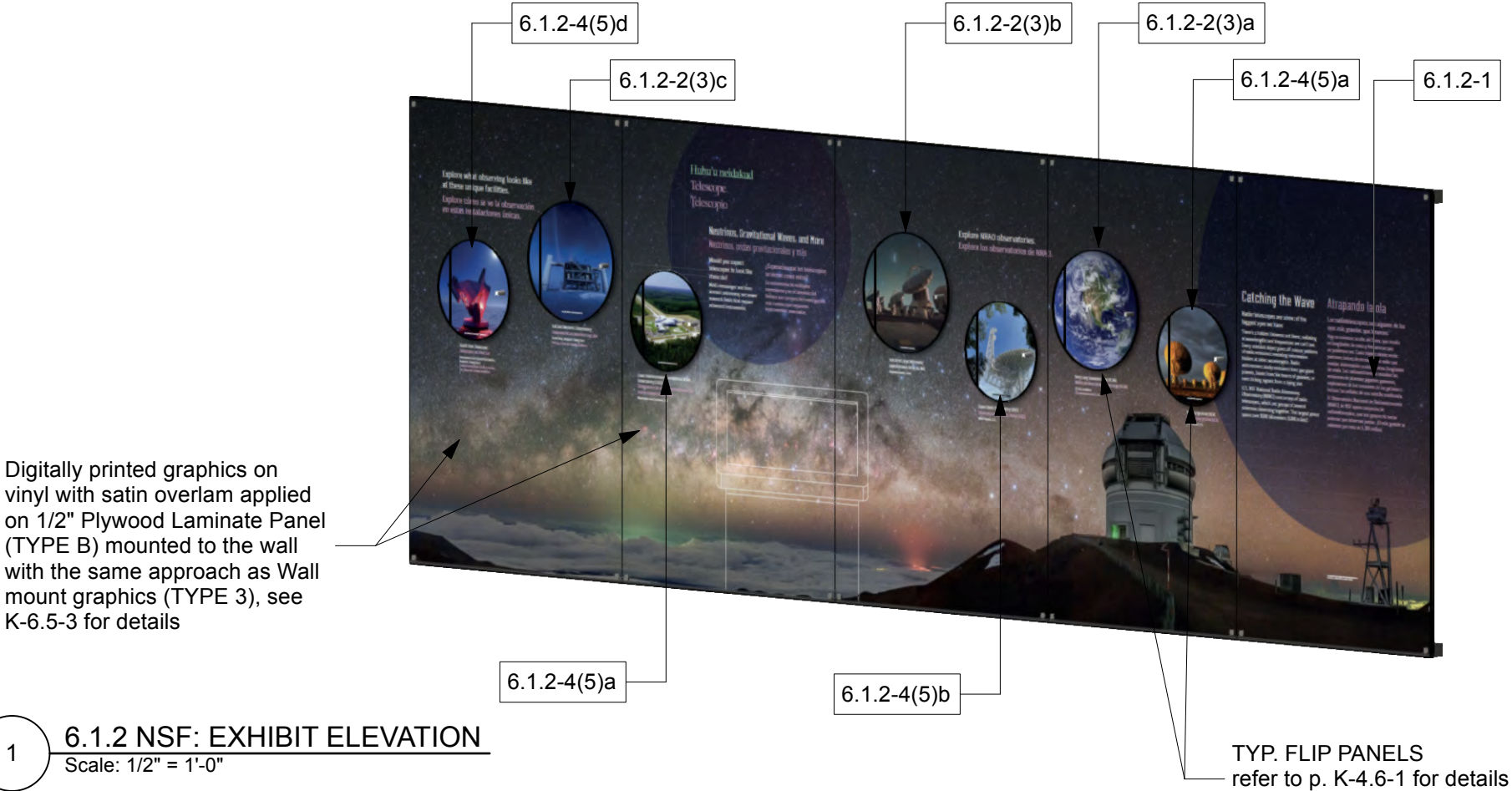


Graphics Type C  
CLOSE CUT TO SHAPE  
NO WRAP.

5 6.1.1 NSF: DETAILS TYP  
Scale: 3/4" = 1'-0"

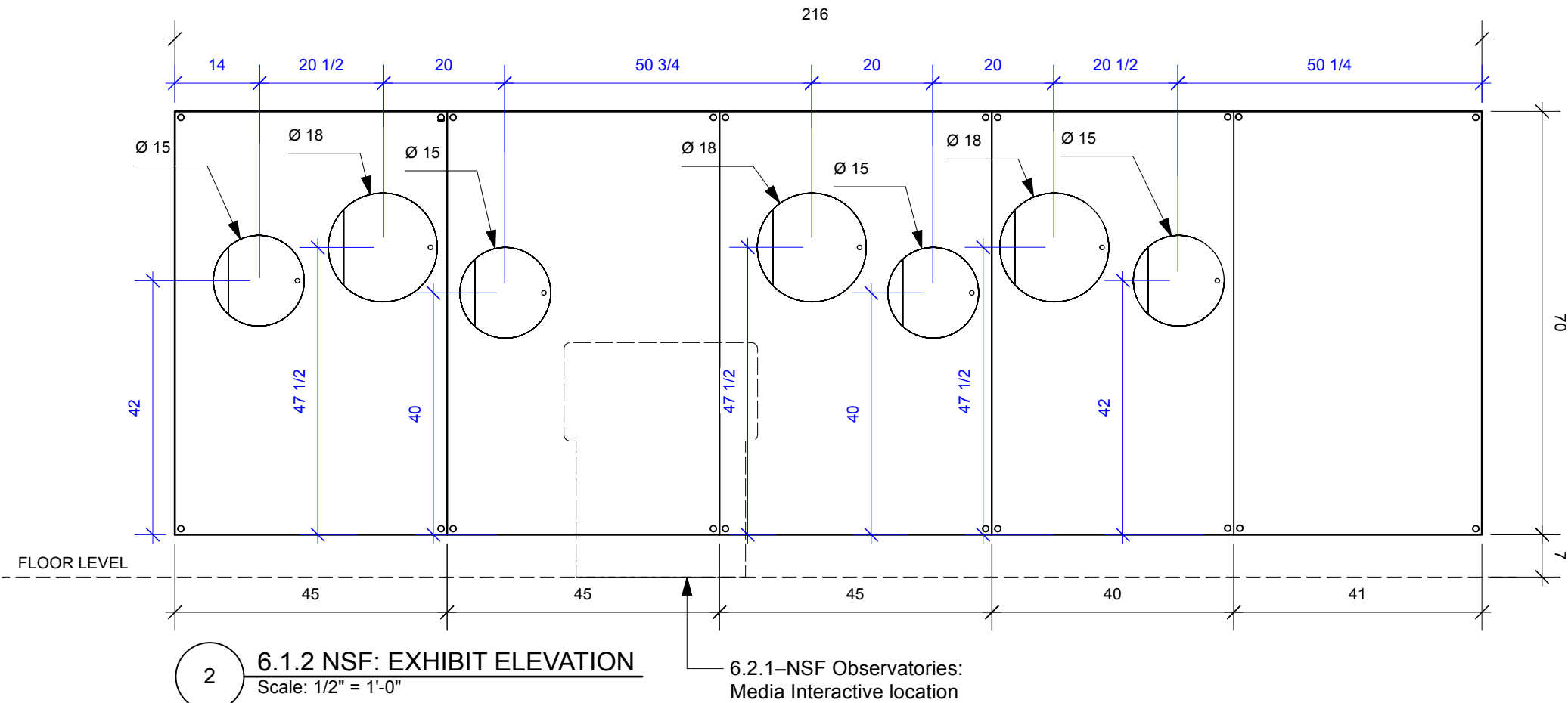
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MG: 6.1.1 NSF					
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1 6.1.2 NSF: EXHIBIT ELEVATION  
Scale: 1/2" = 1'-0"

General Notes  
1. Fabricator to verify all site dimensions to ensure conduit clearance prior to fabrication



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MG: 6.1.2 NSF

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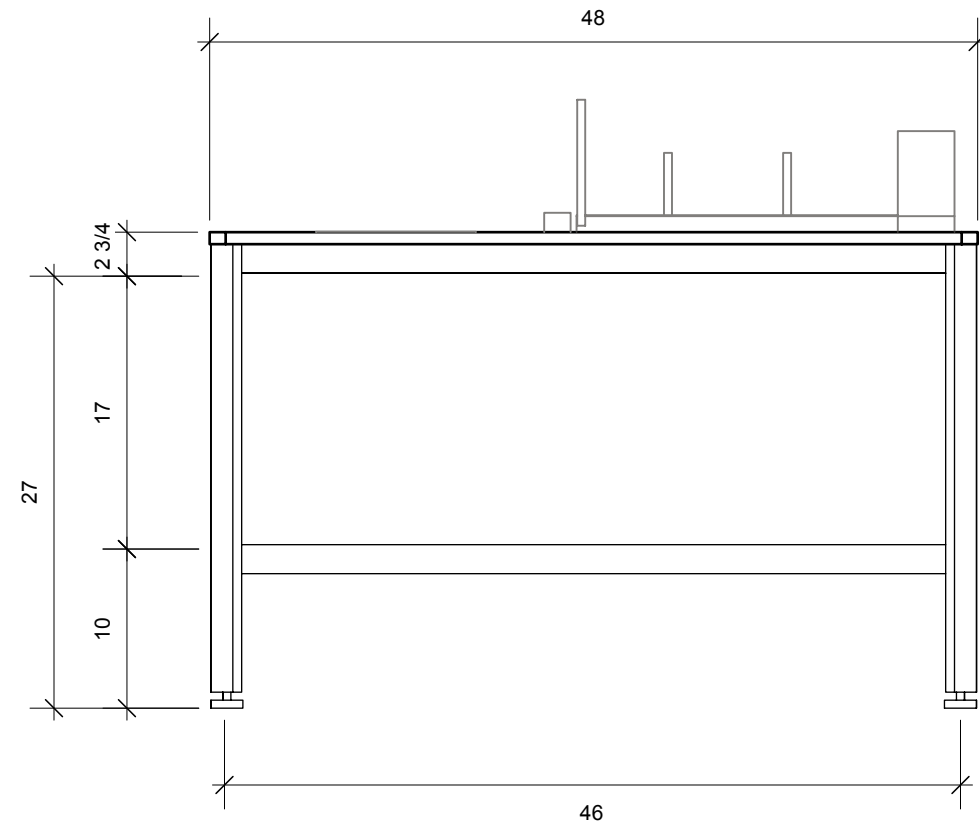
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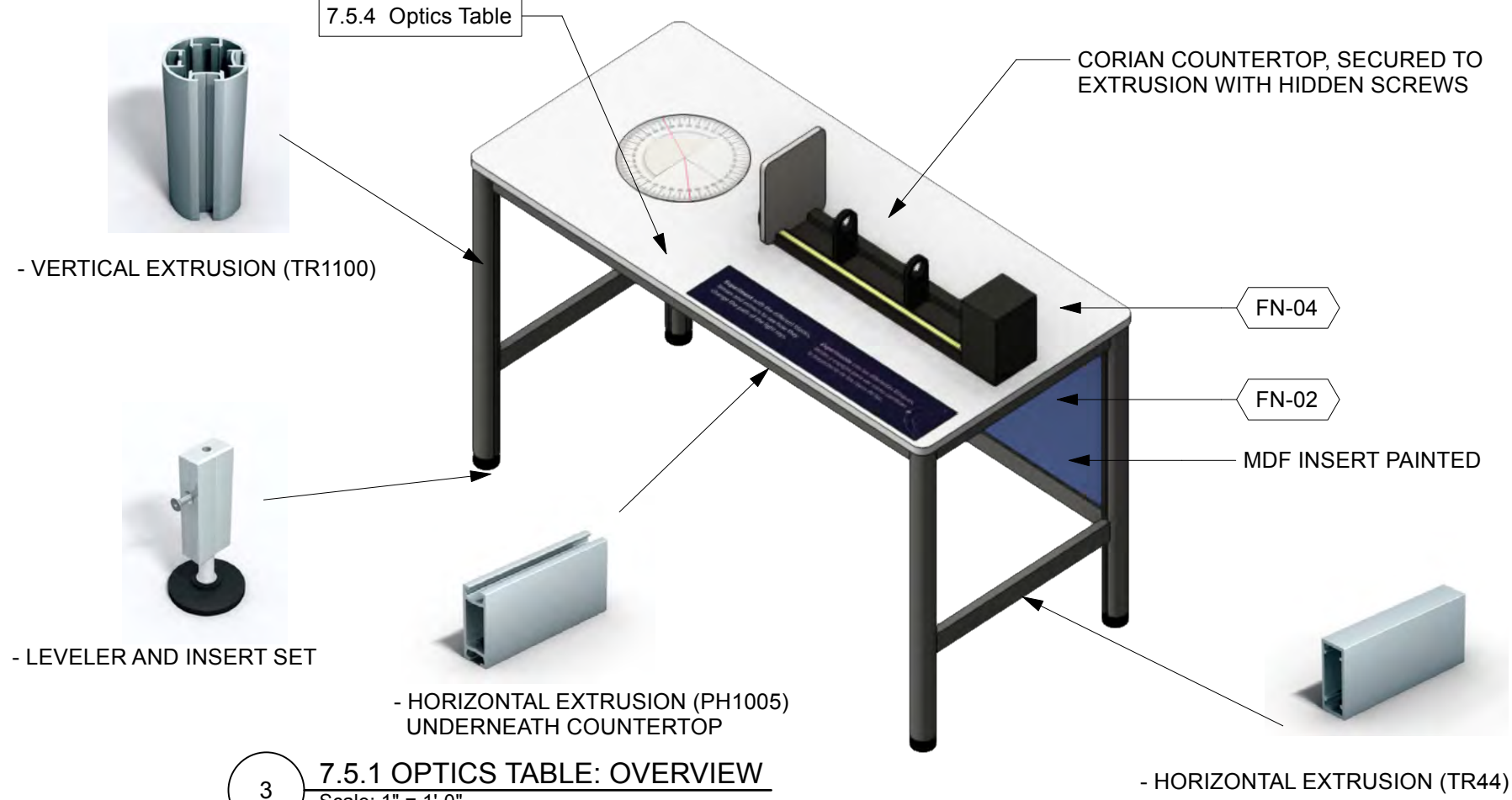
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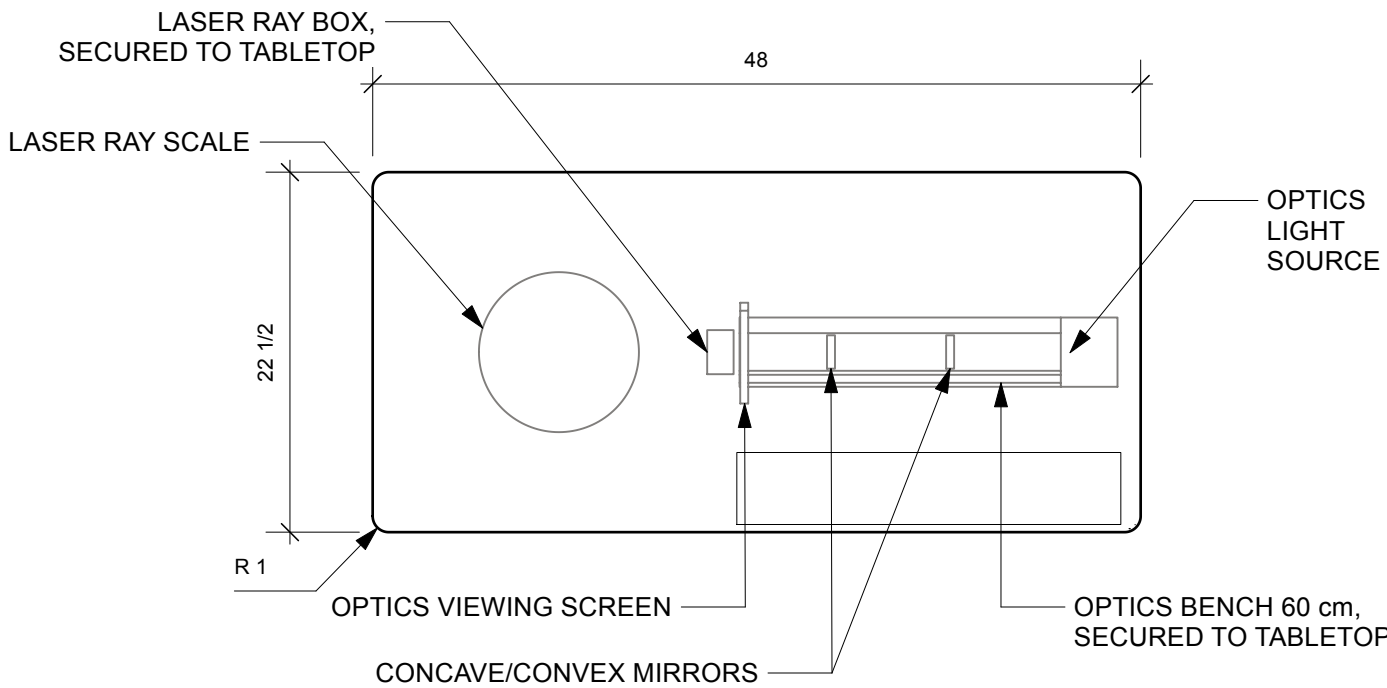
K-4.6-2  
A



1 7.5.1 OPTICS TABLE : ELEVATION  
Scale: 1" = 1'-0"

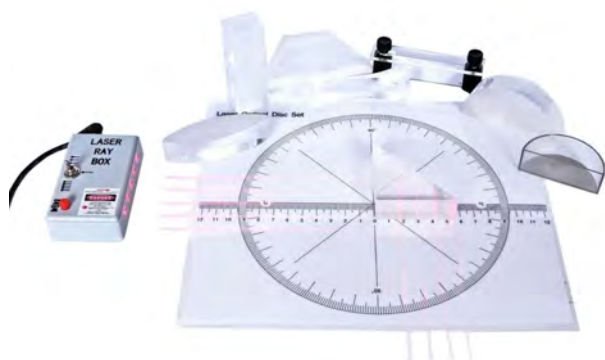


3 7.5.1 OPTICS TABLE: OVERVIEW  
Scale: 1" = 1'-0"



2 7.5.1 OPTICS TABLE: EXHIBIT PLAN  
Scale: 1" = 1'-0"

General Notes  
1. Extrusions and accessories AGAM or similar, could be sources from: <https://www.agam.com/extrusions-and-accessories/>



Laser Ray Box and Lenses, could be sourced from: <https://www.arborsci.com/products/laser-ray-box-and-lenses>




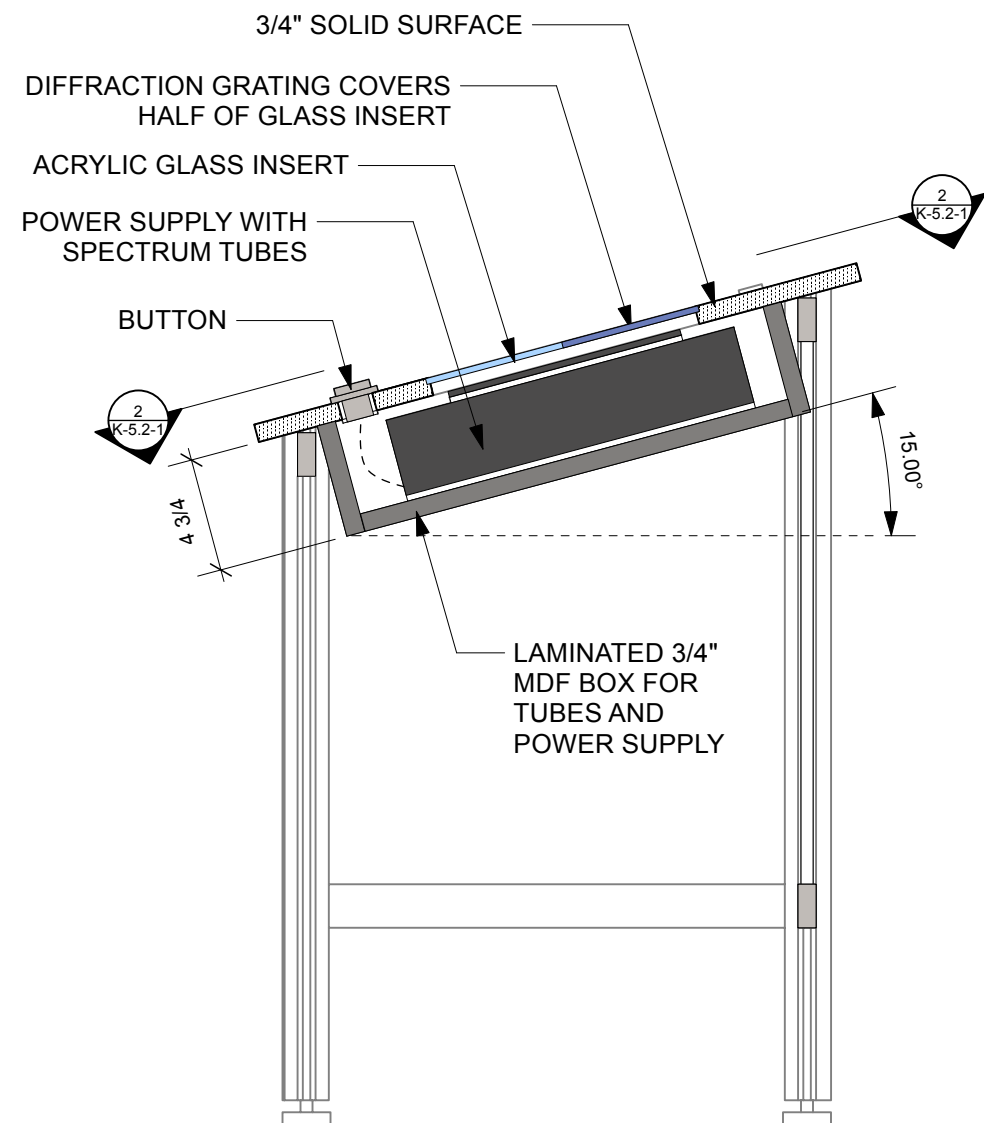
Concave/Convex Mirror, could be sourced from: <https://www.pasco.com/products/lab-apparatus/light-and-optics/basic-optics/os-8457>

Optics Bench 60 cm, could be sourced from: <https://www.pasco.com/products/lab-apparatus/light-and-optics/basic-optics/os-8541>

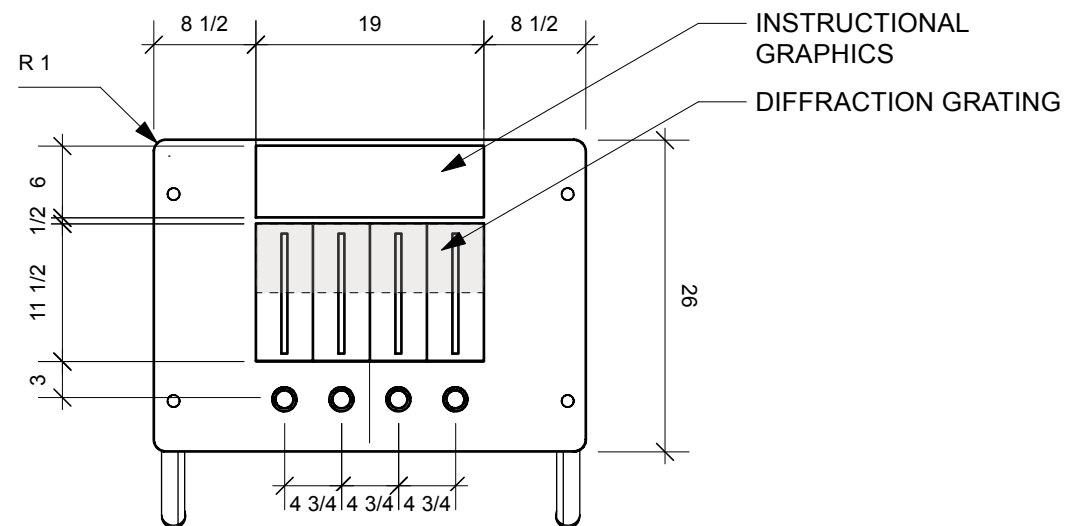
Basic Optics Viewing Screen, could be sourced from: <https://www.pasco.com/products/lab-apparatus/light-and-optics/basic-optics/os-8460#documents-panel>

Optics Light Source, could be sourced from: <https://www.pasco.com/products/lab-apparatus/light-and-optics/os-8470>

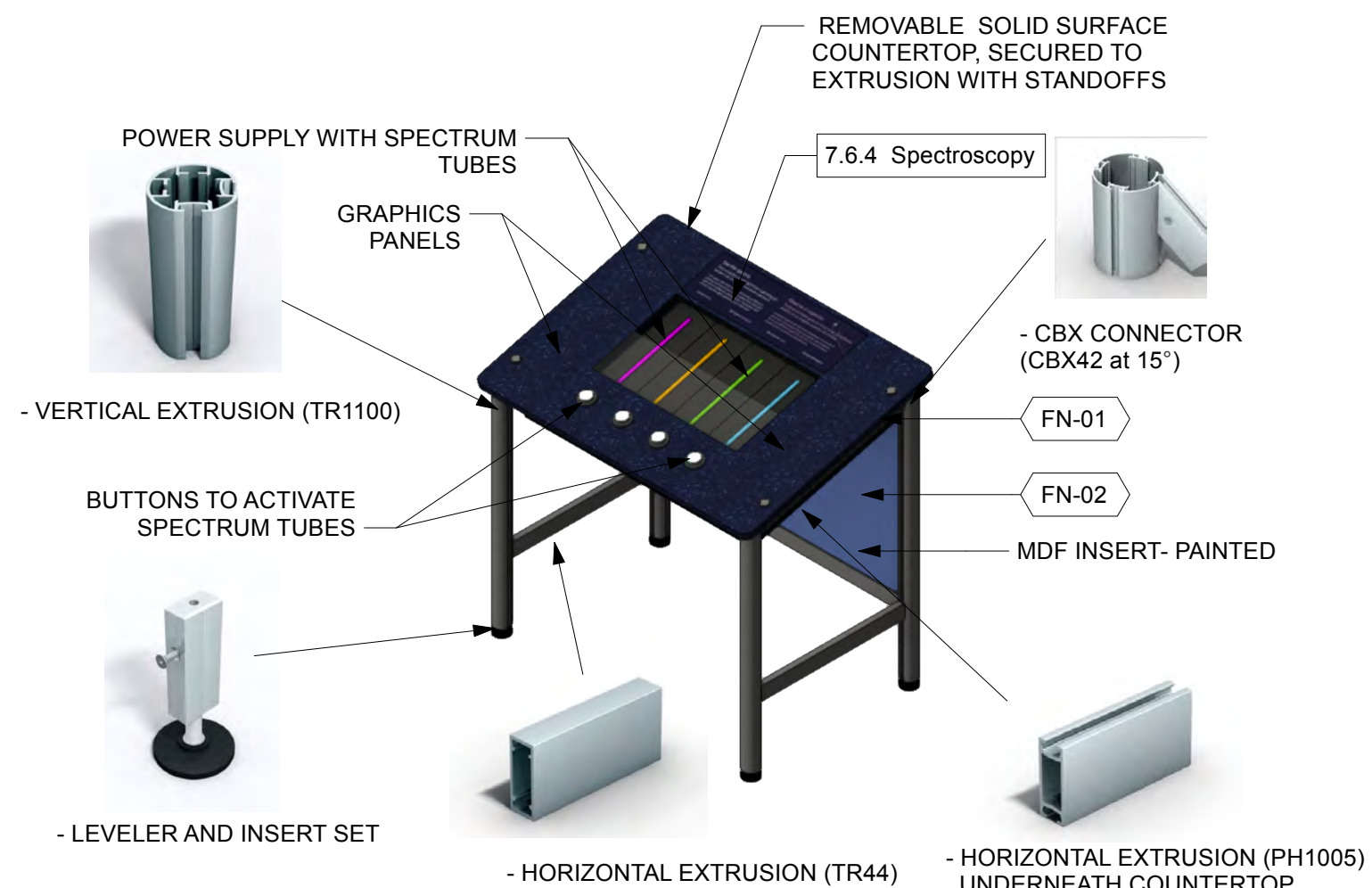
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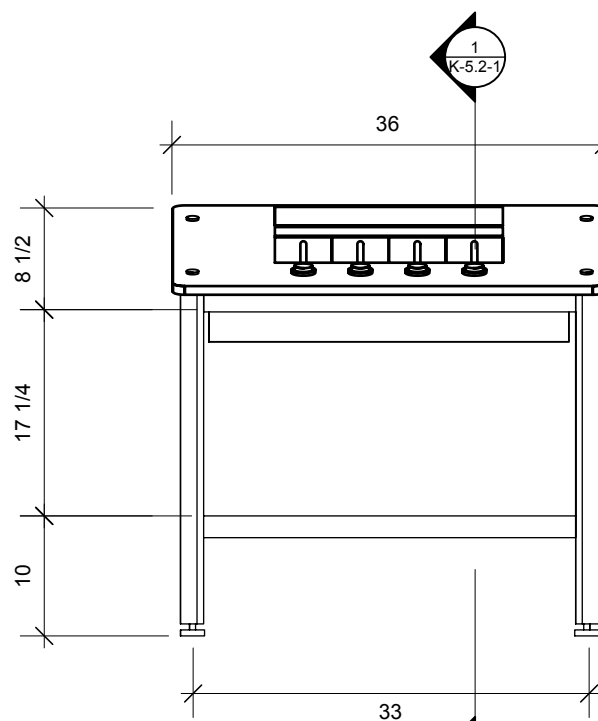
1 **7.6.1 SPECTROSCOPY : SECTION**  
Scale: 1 1/2" = 1'-0"



2 **7.6.1 SPECTROSCOPY : EXTENDED PLAN**  
Scale: 3/4" = 1'-0"



4 **7.6.1 SPECTROSCOPY : OVERVIEW**  
Scale: 3/4" = 1'-0"



3 **7.6.1 SPECTROSCOPY : ELEVATION**  
Scale: 3/4" = 1'-0"

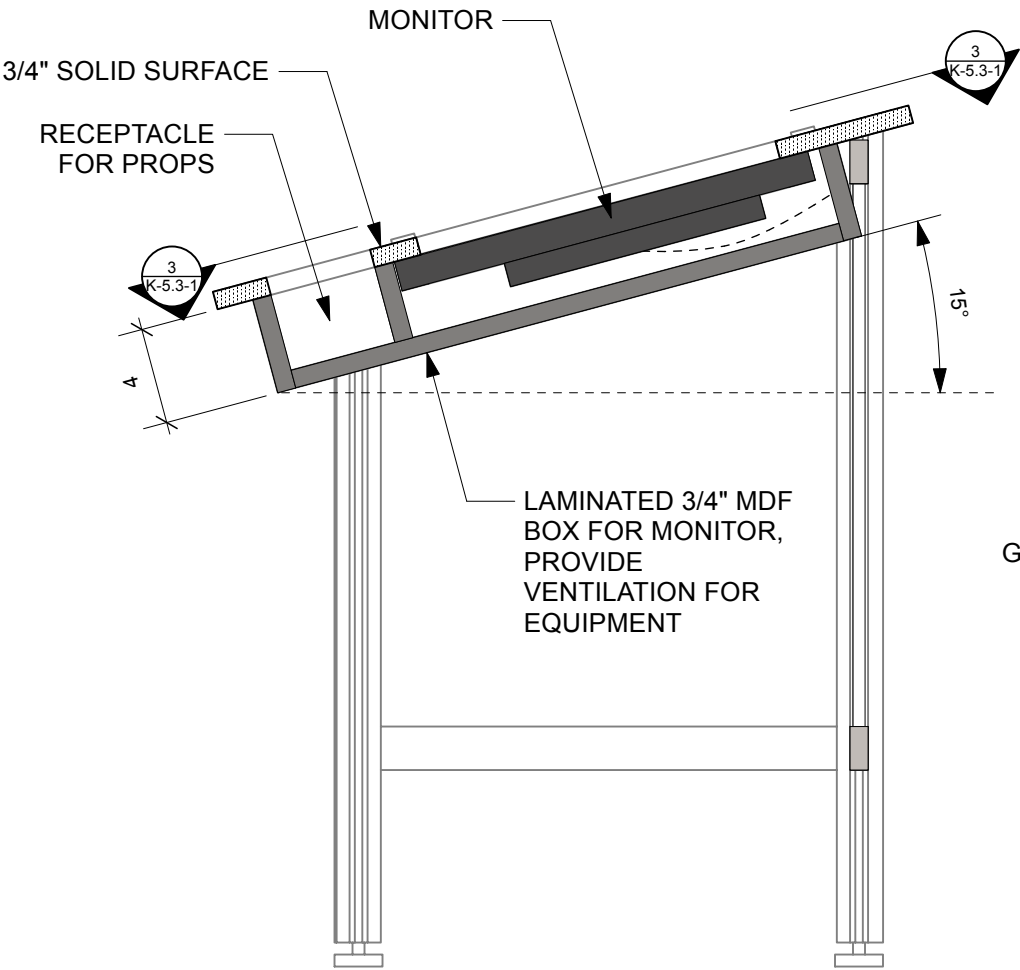


Tube Power Supply and Gas Spectrum analysis tubes could be sourced from:  
<https://www.arborsci.com/products/spectrum-analysis>

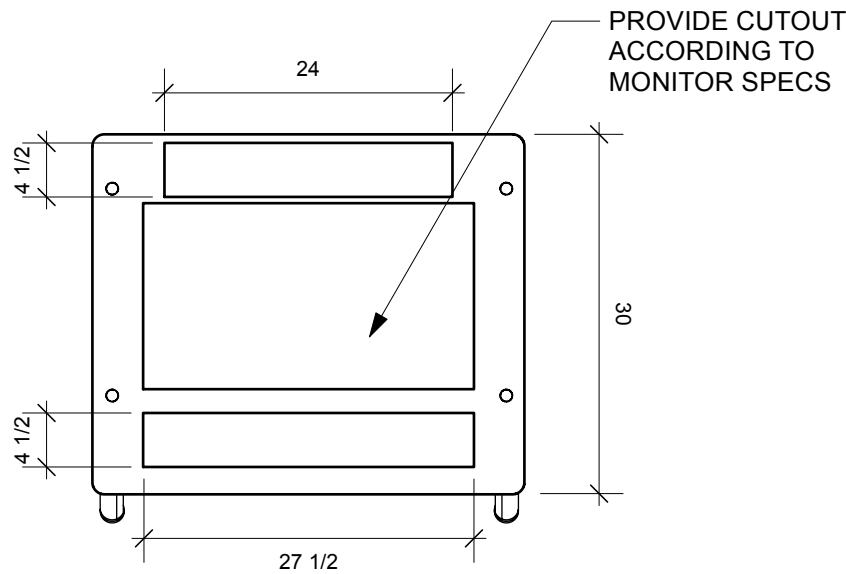
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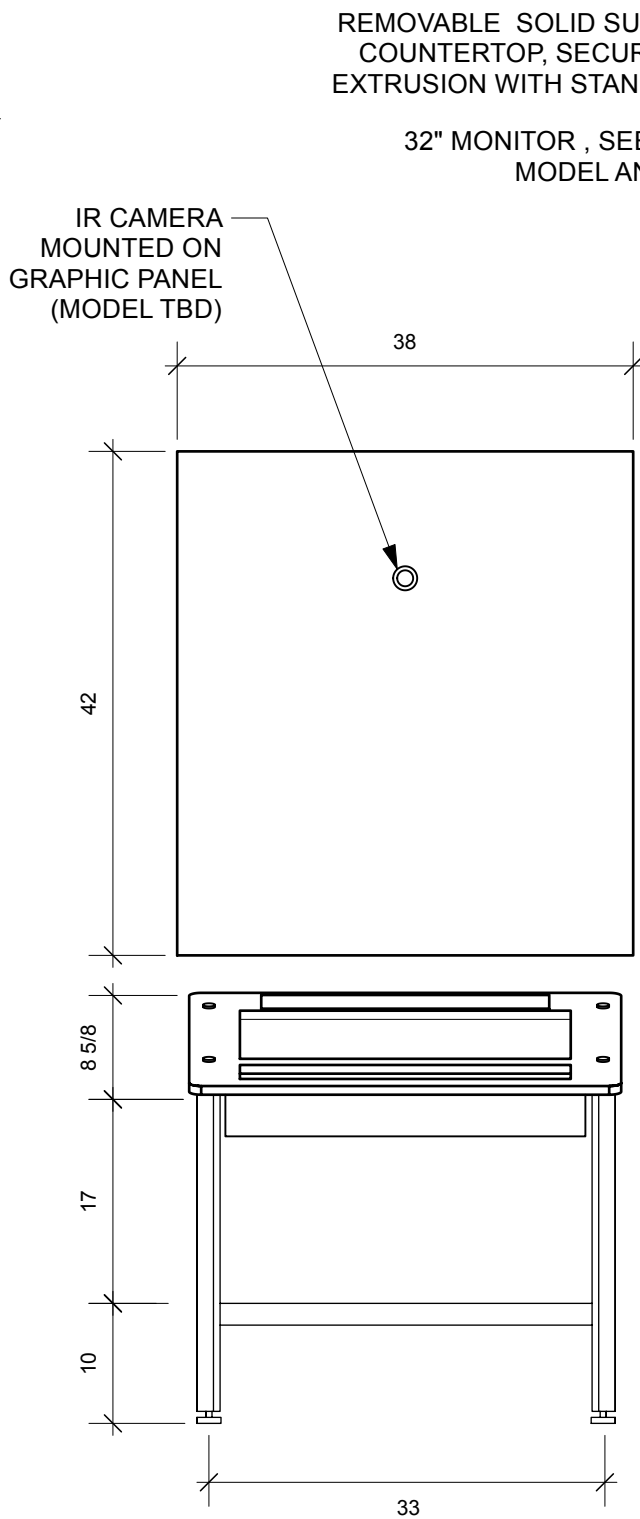




1 7.7.1 IR CAMERA : SECTION  
Scale: 1 1/2" = 1'-0"



2 7.7.1 IR CAMERA: EXTENDED PLAN  
Scale: 3/4" = 1'-0"



3 7.7.1 IR CAMERA : ELEVATION  
Scale: 3/4" = 1'-0"

GRAPHIC TYPE C Mounting (Type 1), refer to p. K-6.5-1 for details

7.7.2 IR Camera

7.7.4 IR Camera

REMOVABLE SOLID SURFACE COUNTERTOP, SECURED TO EXTRUSION WITH STANDOFFS

32" MONITOR , SEE IN SPECS FOR MODEL AND DIMENSIONS

- VERTICAL EXTRUSION (TR1100)

- HORIZONTAL EXTRUSION (TR44)

- LEVELER AND INSERT SET

- CBX CONNECTOR (CBX42 at 15°)

MDF INSERT PAINTED

- HORIZONTAL EXTRUSION (PH1005) UNDERNEATH COUNTERTOP

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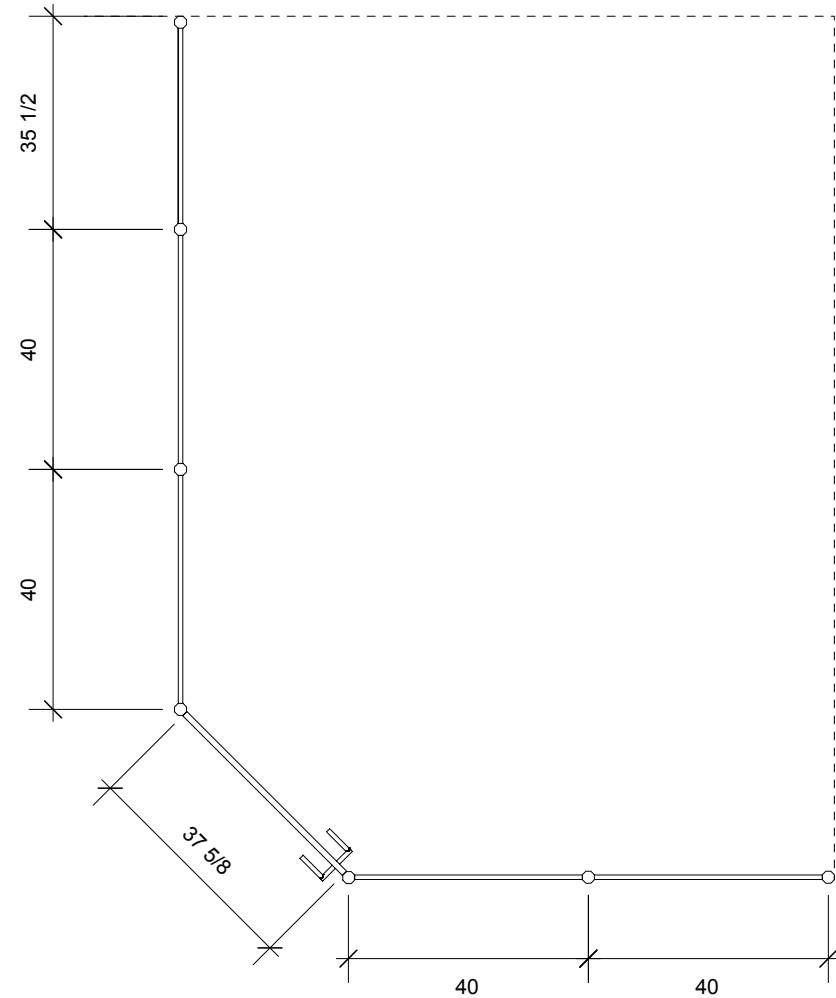
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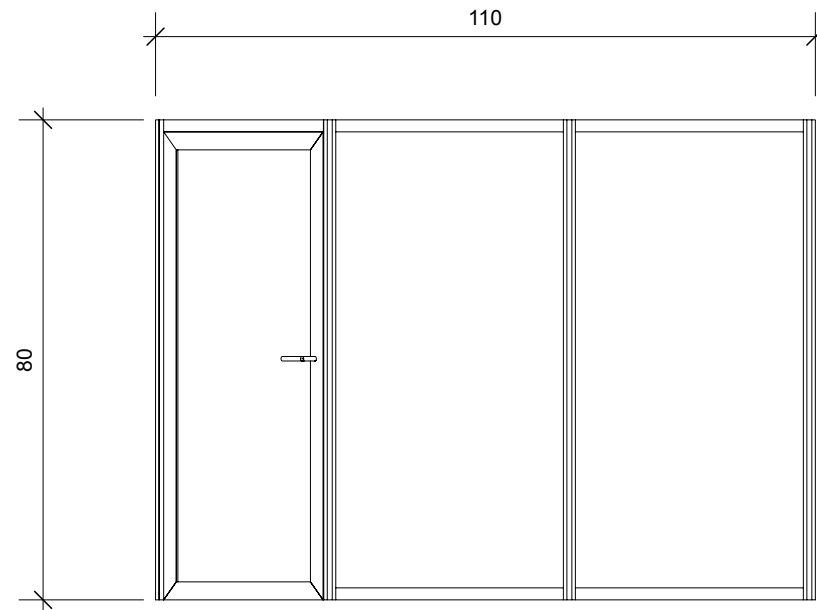
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1 7.9.4 PARTITION WALL: EXHIBIT PLAN  
Scale: 3/8" = 1'-0"



2 7.9.4 PARTITION WALL: ELEVATION  
Scale: 3/8" = 1'-0"



- VERTICAL EXTRUSION (PX8000)

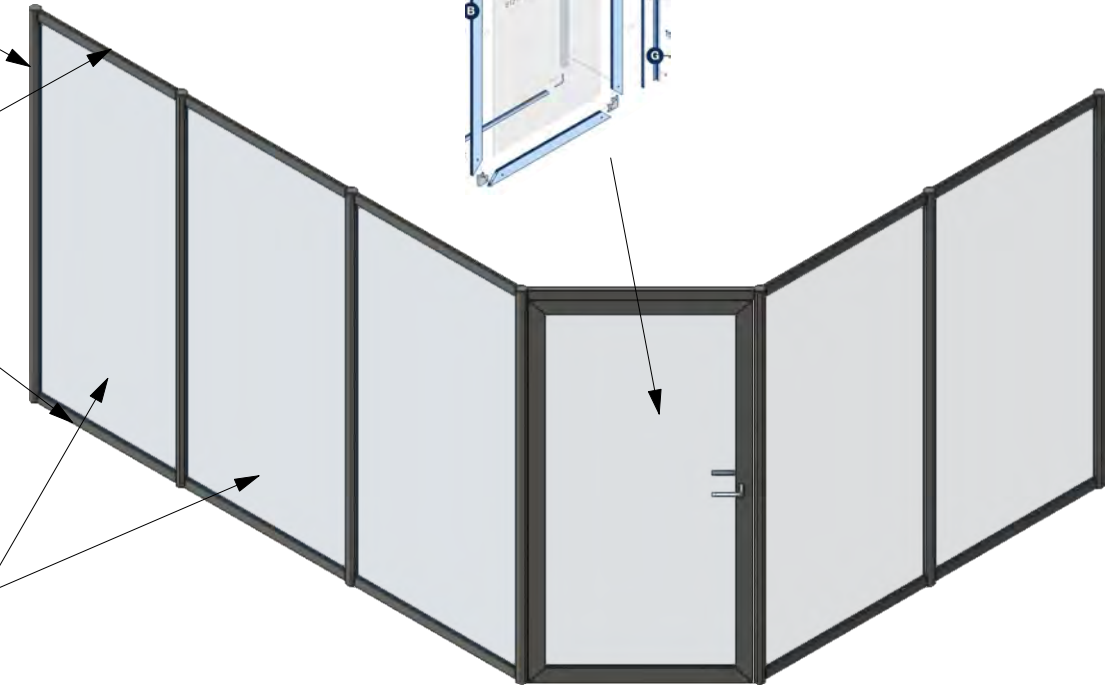


- HORIZONTAL EXTRUSION (PH1045)

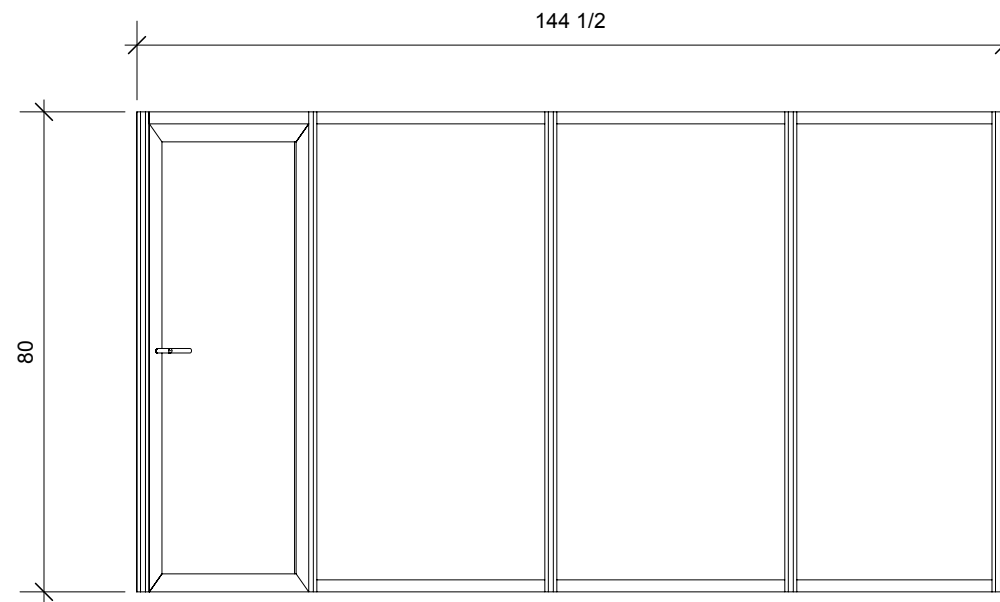
TEMPERED GLASS INSERT



- ALUMINUM DOOR FRAME, FOLLOW LINK FOR DETAILS:  
<https://agam.uberflip.com/i/673084-a-gam-technical-catalog/213?>



4 7.9.4 PARTITION WALL: OVERVIEW  
Scale: 3/8" = 1'-0"



3 7.9.4 PARTITION WALL: SIDE VIEW  
Scale: 3/8" = 1'-0"

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Date

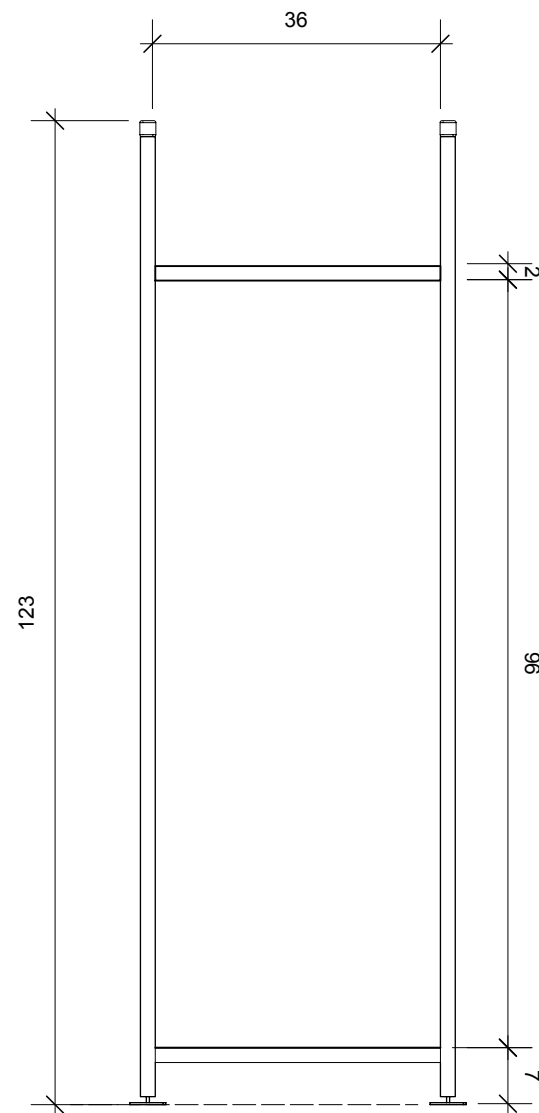
2024-08-15

North

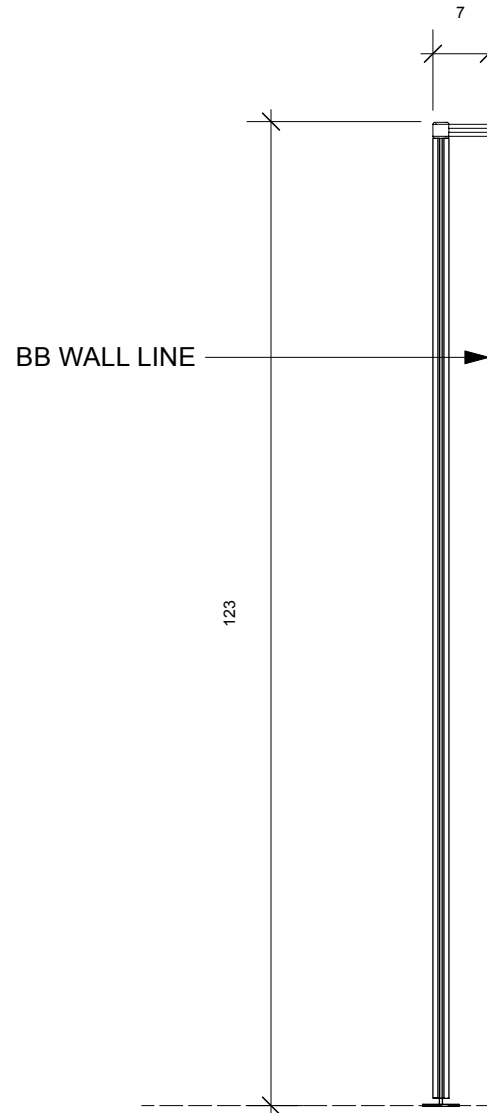
Dwg No.

K-5.4-1

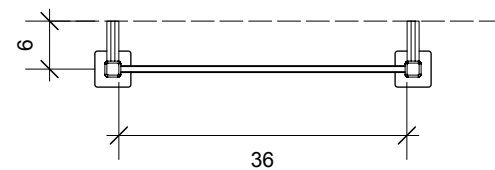
A



1 TYPICAL FLOATING GRAPHIC: ELEVATION  
Scale: 1/2" = 1'-0"

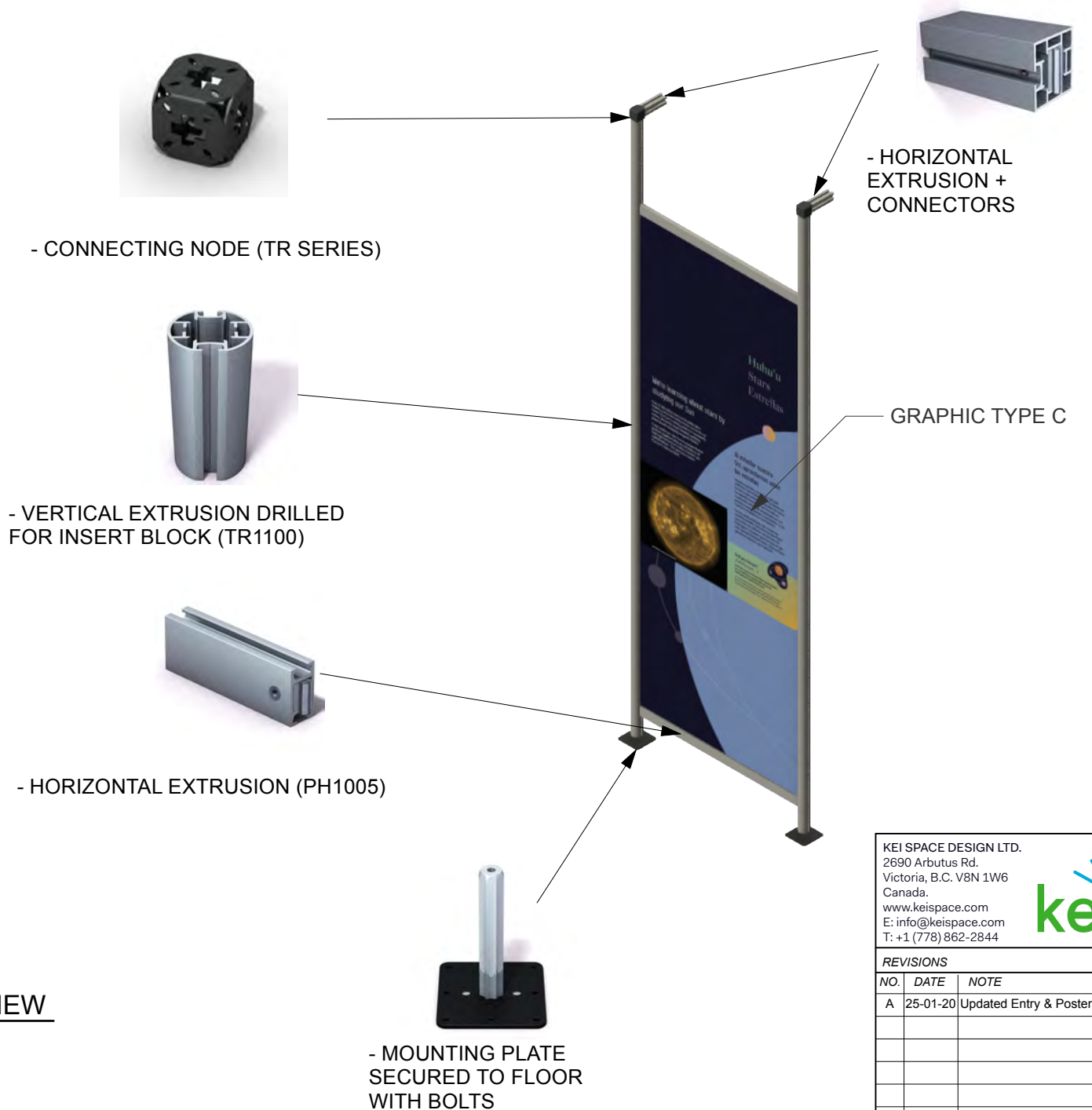


2 TYPICAL FLOATING GRAPHIC: SIDE VIEW  
Scale: 1/2" = 1'-0"



3 TYPICAL FLOATING GRAPHIC: PLAN  
Scale: 1/2" = 1'-0"

	EXHIBIT
1	5.2.2 What are Stars?
2	5.6.2 What does the Sun look like?
3	5.8.2 Spectroscopy & Star Composition
4	5.9.2 Life Cycle of a Stars
5	5.10.2 Our Solar System isn't Unique
6	5.11.2 What Does Earth 2.0 Look Like?
7	5.13.2 Exoplanets & Search for Life
8	7.8.1 You are Here: Tunnel above



4 TYPICAL FLOATING GRAPHIC: OVERVIEW  
Scale: 1/2" = 1'-0"

#### General Notes

- Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>

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#### REVISIONS

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A	25-01-20	Updated Entry & Posters

#### Project

MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS

#### Drawing

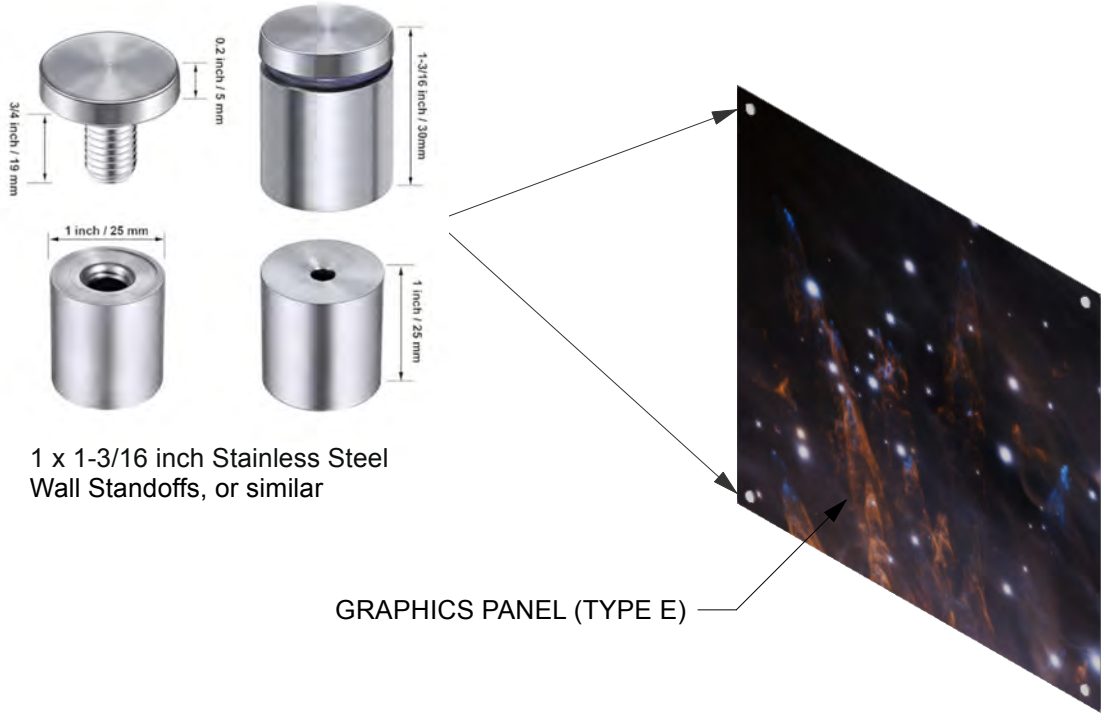
TYPICALS: FLOATING  
GRAPHIC PANEL

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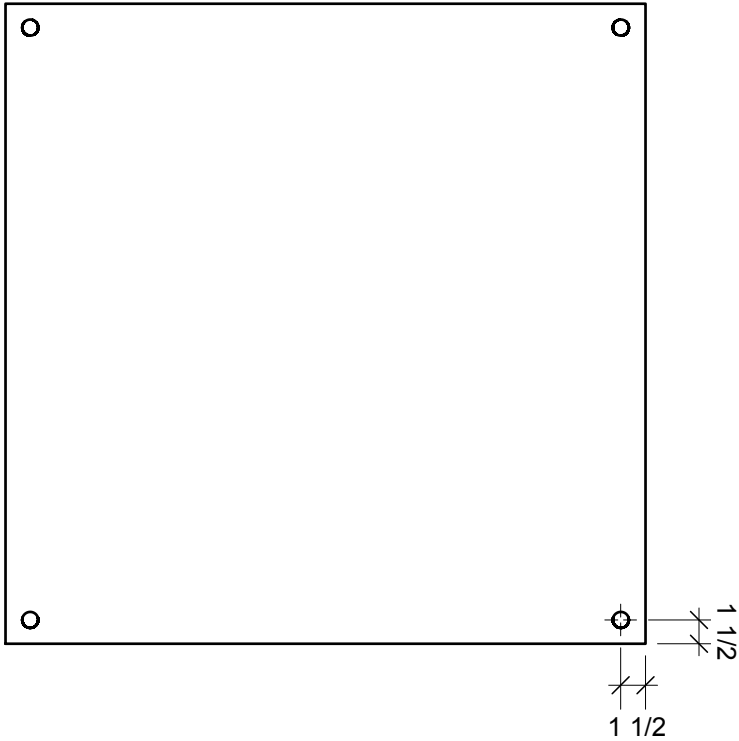
North Dwg No.  
K-6.1-1  
A

EXHIBIT	LOCATION	QUANTITY
2.3 Photo posters	LOBBY	4
3.2 Photo posters	THEATER	9
6.3.1 The Mirrors Above	MAIN GALLERY	1
7.12 Photo posters	CONTROL ROOM	3
8.4 Photo posters	ASTROLAB	6
9.1 Photo posters	SOS	12

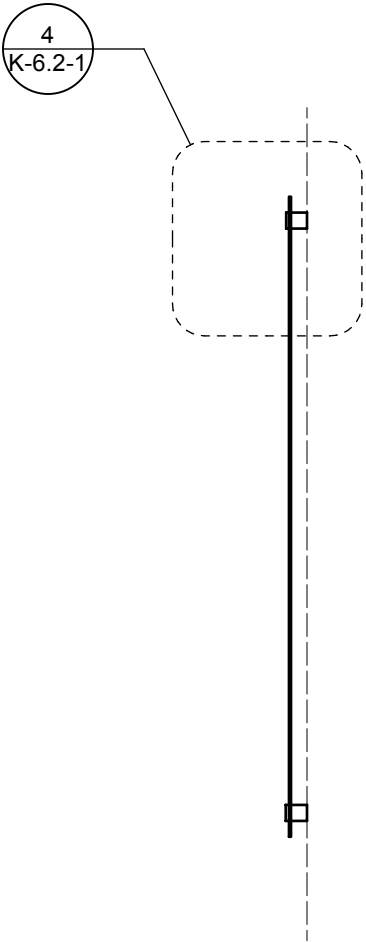


1 x 1-3/16 inch Stainless Steel Wall Standoffs, or similar

GRAPHICS PANEL (TYPE E)

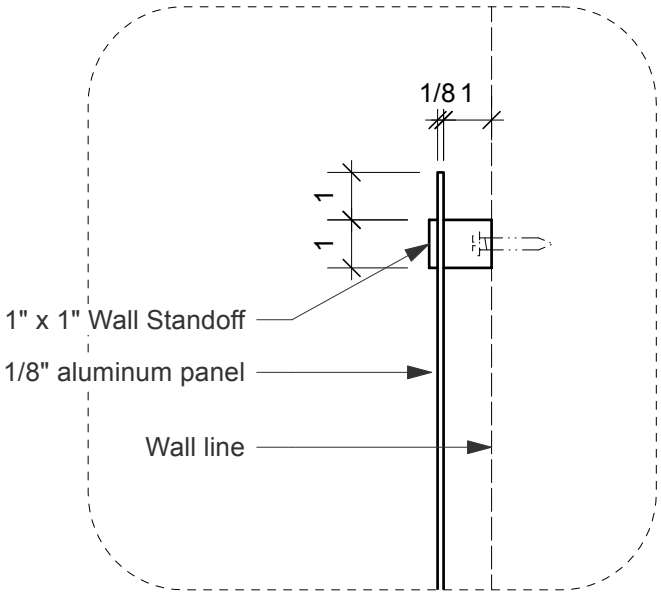


TYPICAL GRAPHICS POSTER: ELEVATION  
Scale: 1" = 1'-0"



TYPICAL GRAPHICS POSTER: SIDE VIEW  
Scale: 1" = 1'-0"


TYPICAL GRAPHICS POSTER: OVERVIEW  
Scale: 1:15



TYPICAL GRAPHICS POSTER: DETAIL  
Scale: 3" = 1'-0"

- General Notes**
- Fabricator to verify all site dimensions to confirm location and ensure conduit clearance where applicable prior to fabrication

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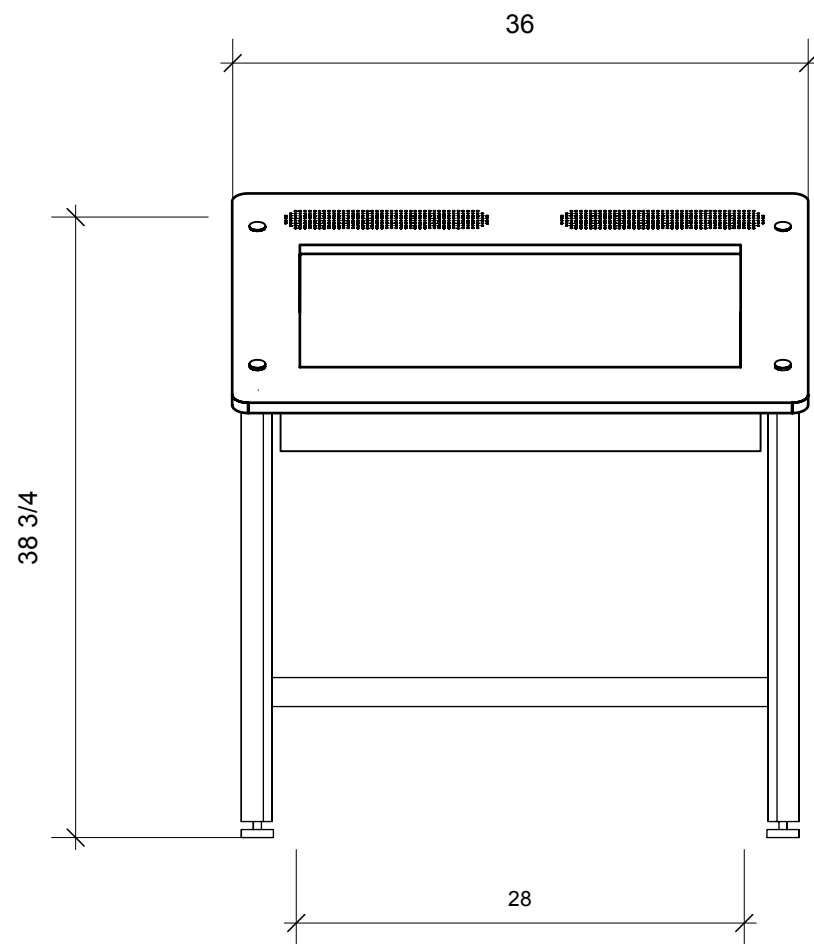
MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS

Drawing

TYPICALS: POSTER

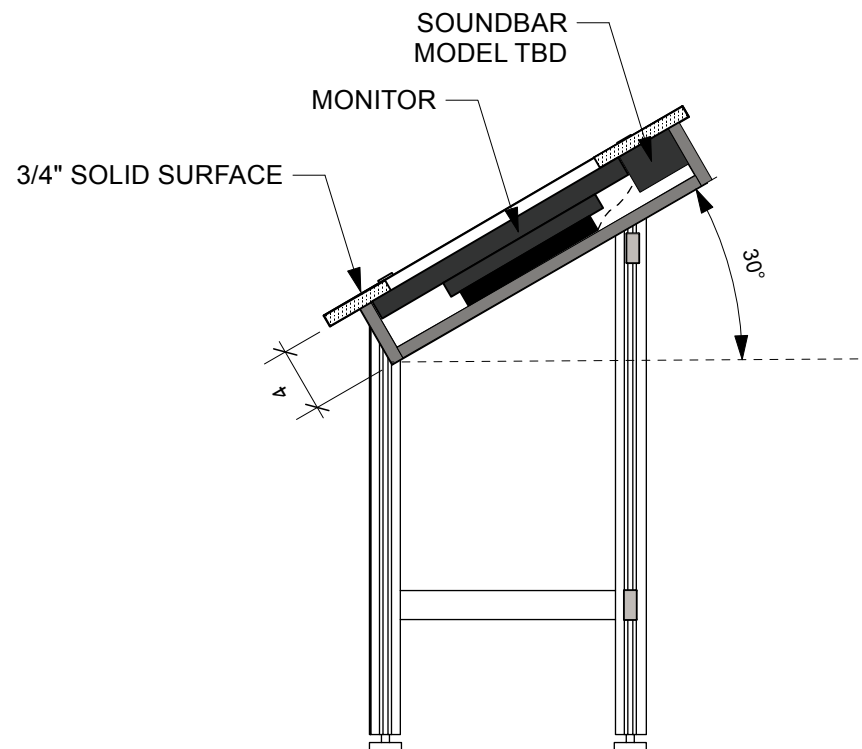
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Date 2024-08-15	
North	Dwg No. K-6.2-1 A



1

**TYPICAL AV STAND: ELEVATION**  
Scale: 1" = 1'-0"



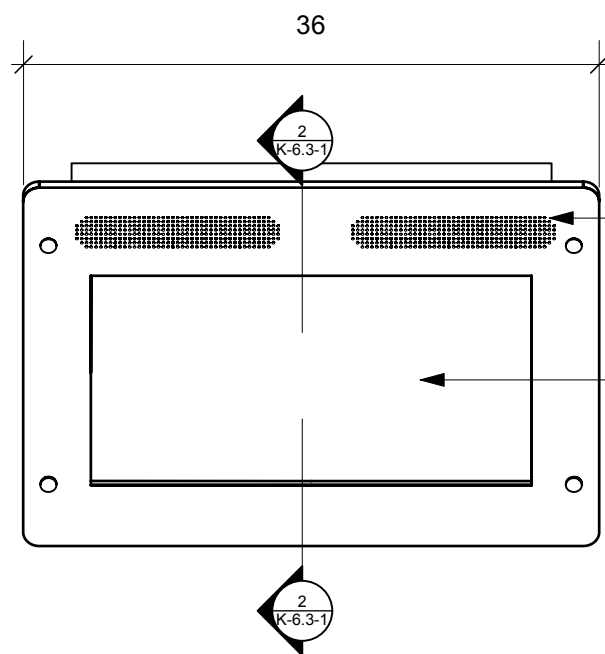
2

**TYPICAL AV STAND: SECTION**  
Scale: 1" = 1'-0"



3


**TYPICAL AV STAND: OVERVIEW**  
Scale: 1:10

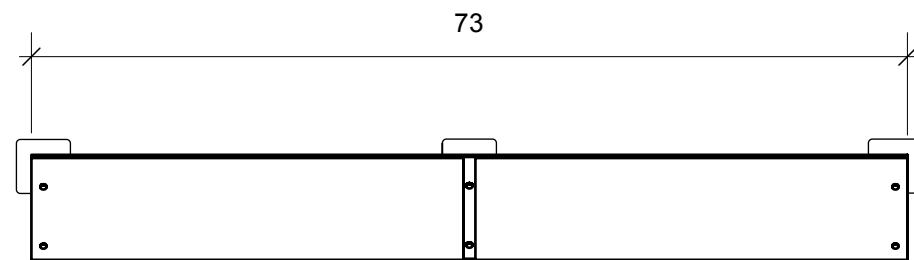


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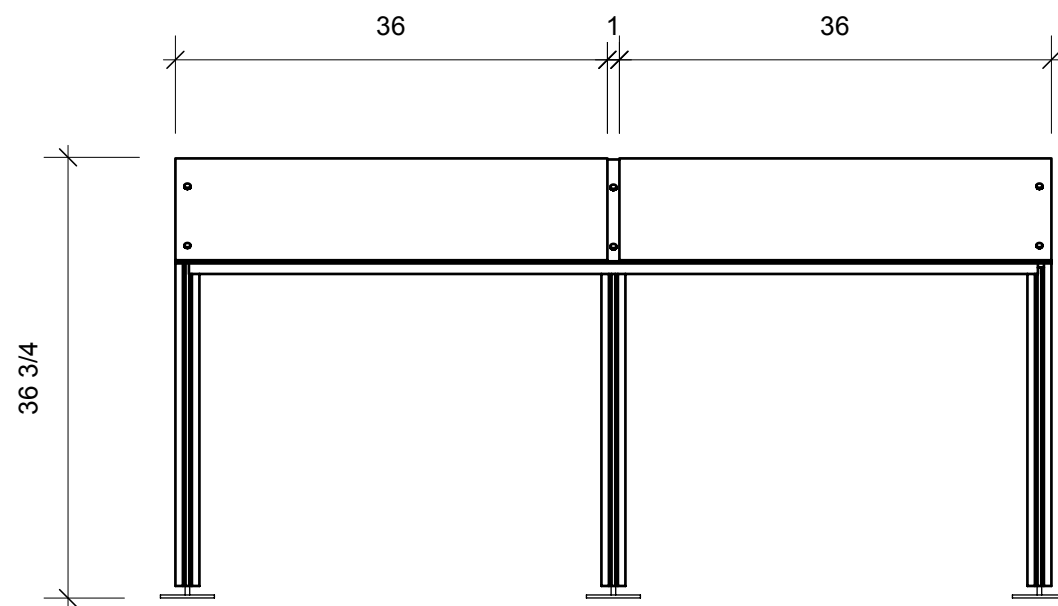
**TYPICAL AV STAND: PLAN**  
Scale: 1" = 1'-0"

	EXHIBIT
1	5.7.2 The Many Faces of the Sun
2	6.2.1 NSF Observatories: Media Interactive

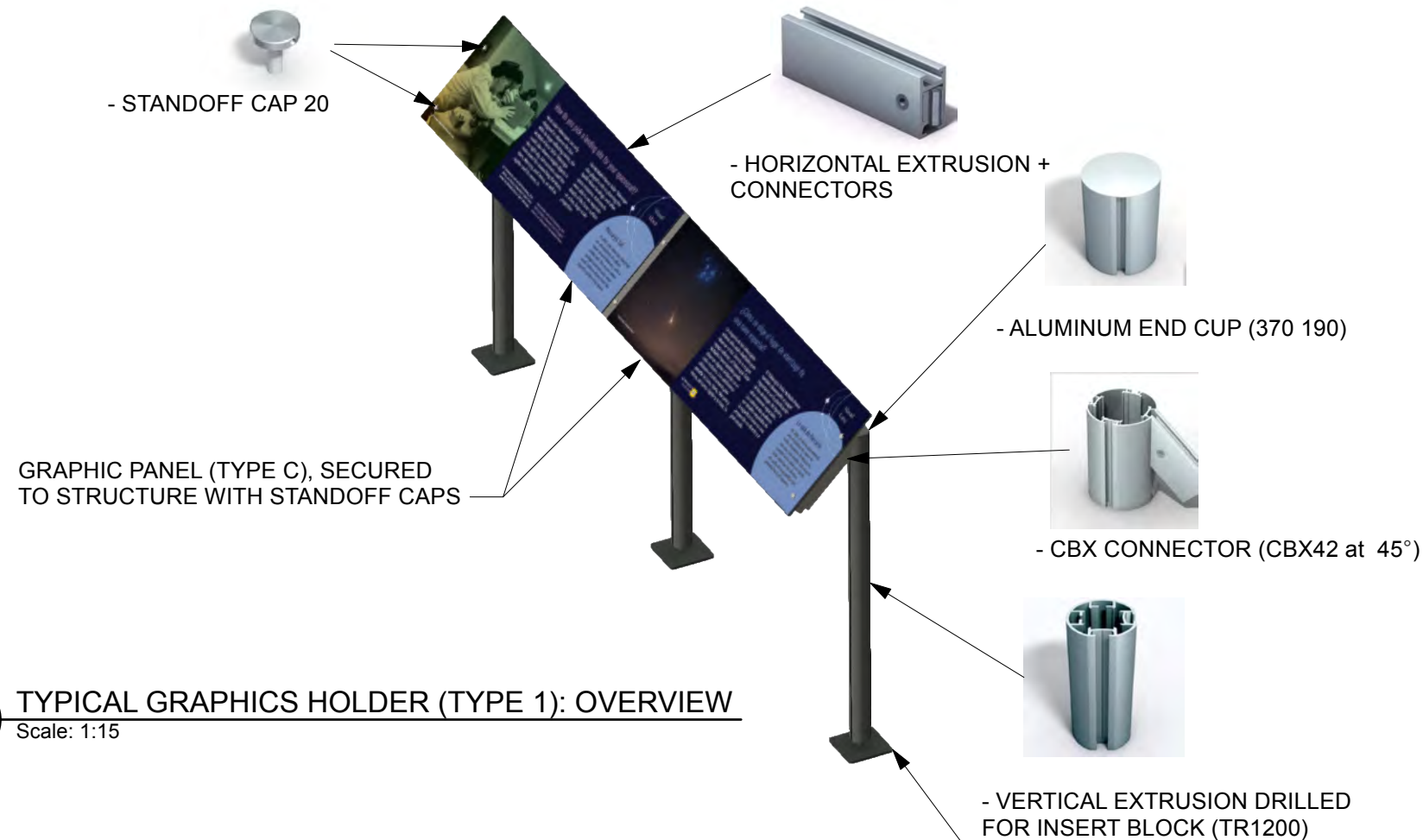
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Drawing			
TYPICALS: AV STAND			
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North		Dwg No.	
		K-6.3-1	
		A	



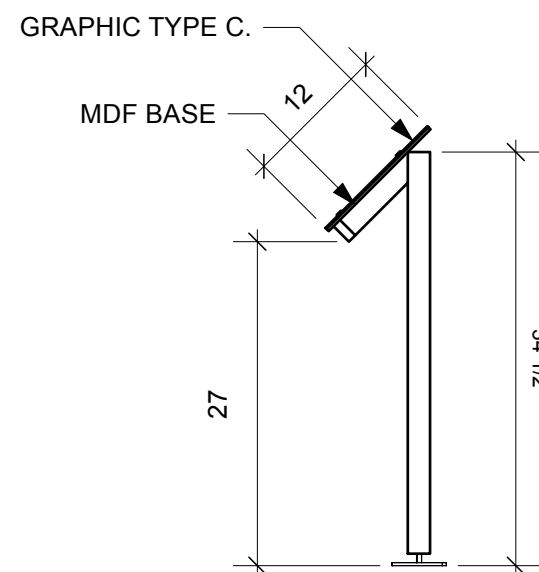
1 TYPICAL GRAPHICS HOLDER (TYPE 1): PLAN  
Scale: 3/4" = 1'-0"



2 TYPICAL GRAPHICS HOLDER (TYPE 1): ELEVATION  
Scale: 3/4" = 1'-0"



4 TYPICAL GRAPHICS HOLDER (TYPE 1): OVERVIEW  
Scale: 1:15




3 TYPICAL GRAPHICS HOLDER (TYPE 1): SIDE VIEW  
Scale: 3/4" = 1'-0"

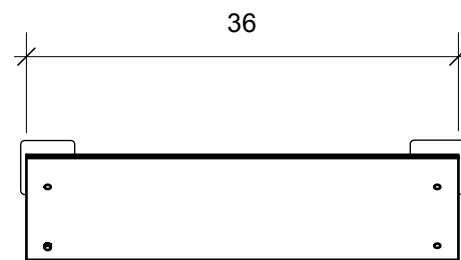
#### General Notes

- Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>

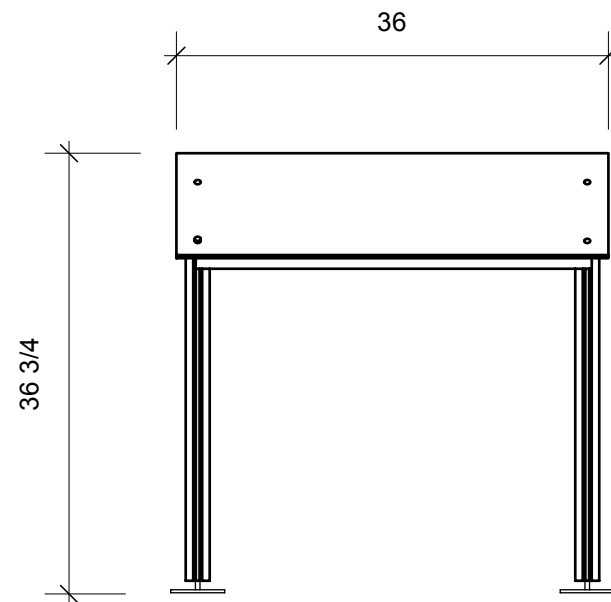
	EXHIBIT
1	4.1.2 Studying the Moon
1	4.1.3 Studying the Moon
2	4.2.2 Construction on the Mountain
2	4.2.3 Construction on the Mountain

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MCMATH-PIERCE SOLAR TELESCOPE EXHIBITS			
Drawing			
TYPICALS: GRAPHICS HOLDER (TYPE 1)			
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North		Dwg No.  K-6.4-1 A	

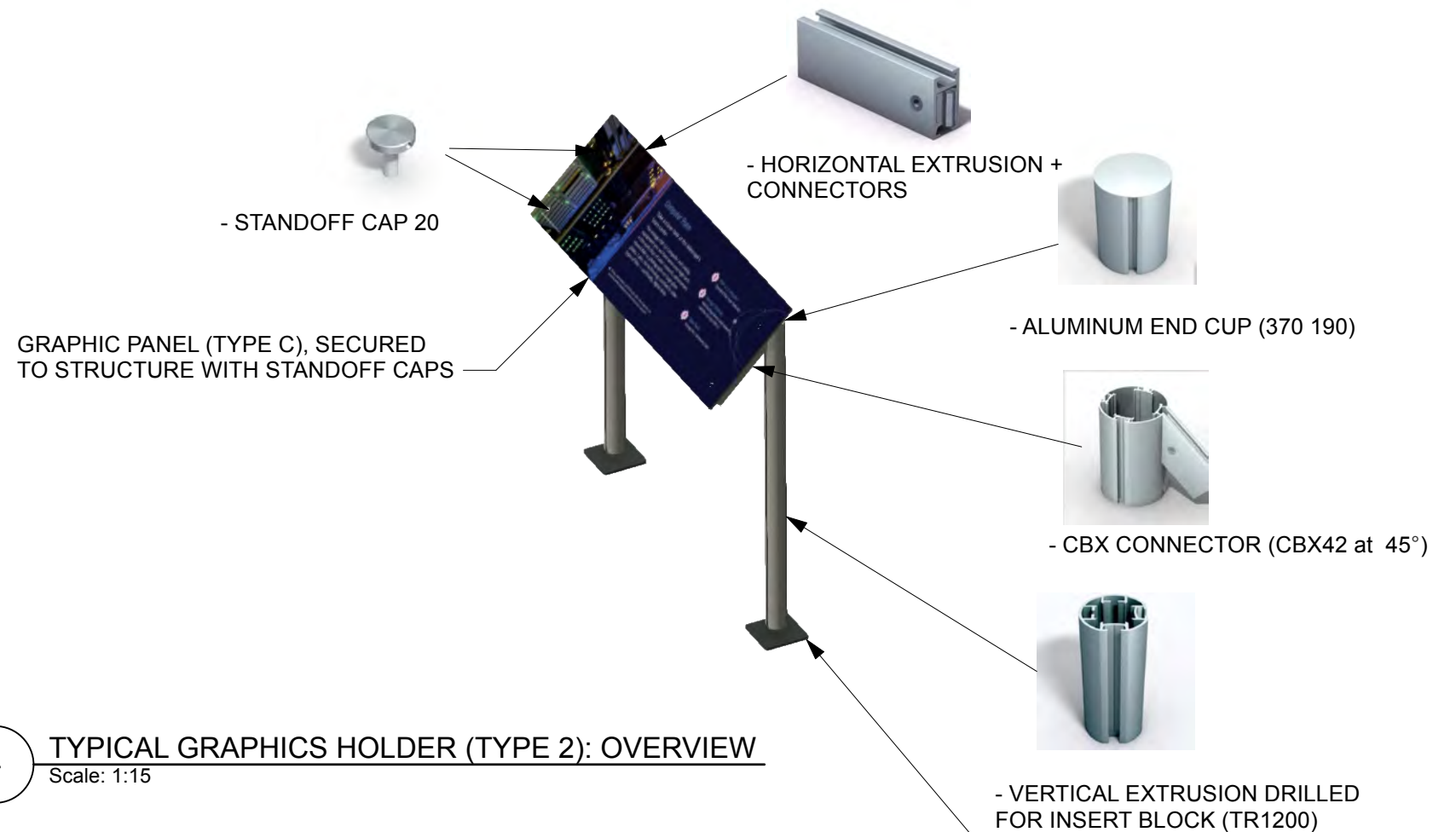




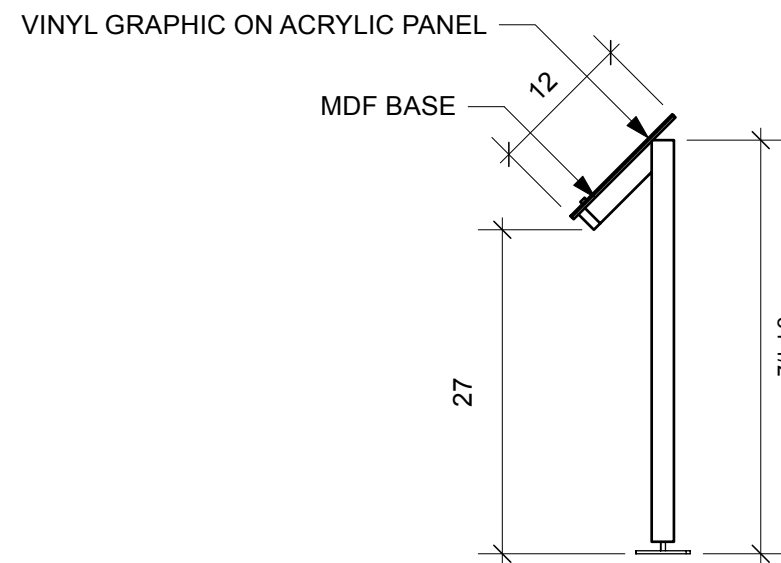
1 TYPICAL GRAPHICS HOLDER (TYPE 2): PLAN  
Scale: 3/4" = 1'-0"



2 TYPICAL GRAPHICS HOLDER (TYPE 2): ELEVATION  
Scale: 3/4" = 1'-0"



4 TYPICAL GRAPHICS HOLDER (TYPE 2): OVERVIEW  
Scale: 1:15



3 TYPICAL GRAPHICS HOLDER (TYPE 2): SIDE VIEW  
Scale: 3/4" = 1'-0"

#### General Notes

- Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>

	EXHIBIT
1	7.9.1 Heliostats Operations Center
2	7.9.2 Heliostats Operations Center
3	7.11.1 Computer Room Interpretation
4	7.11.2 Computer Room Interpretation


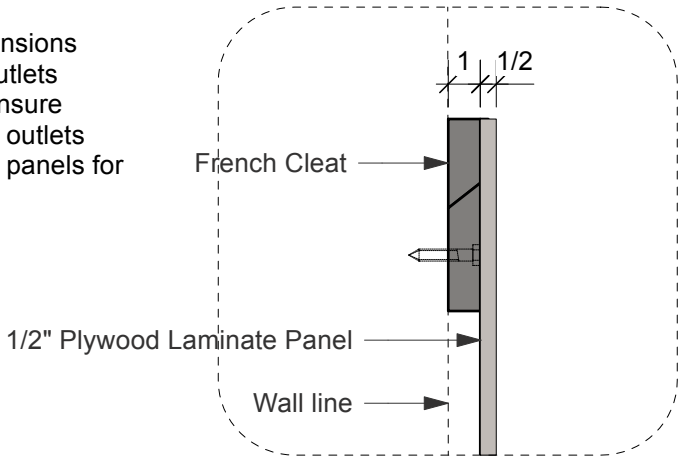
<div>KEI SPACE DESIGN LTD. 2690 Arbutus Rd. Victoria, B.C. V8N 1W6 Canada. <a href="http://www.keispace.com">www.keispace.com</a> E: <a href="mailto:info@keispace.com">info@keispace.com</a> T: +1 (778) 862-2844</div> <div></div>		
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Drawing		
TYPICALS: GRAPHICS HOLDER (TYPE 2)		
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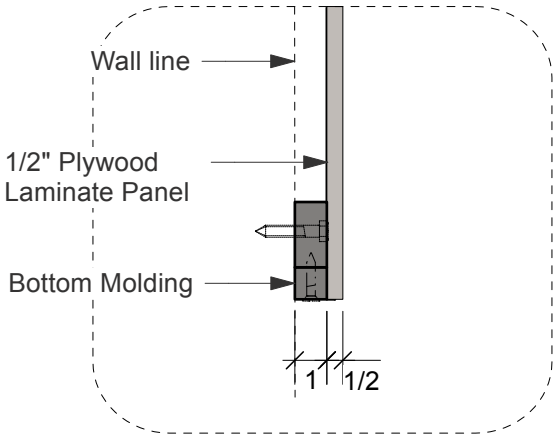
	EXHIBIT	PANELS QTY
1	2.1.1 Intro to KPNO & TON Partnership	7
2	2.1.3 What is NOIRLab? + 2.1.4 Intro to the McMath-Pierce Solar Telescope	7
3	2.2.1 Donor Recognition & Exhibition Credits	1
4	7.1.1 Revealing the Heliostats	1
5	7.2.1 Revealing the Spectrographs	1
6	7.5.2 Optics Table Graphics	1
7	7.6.1 Spectroscopy Graphics	1

### General Notes

1. Fabricator to verify all site dimensions and make cutouts for electric outlets
2. Coordinate cleat thickness to ensure space for conduit and electrical outlets
3. Coordinate openings/cutouts in panels for electrical outlets

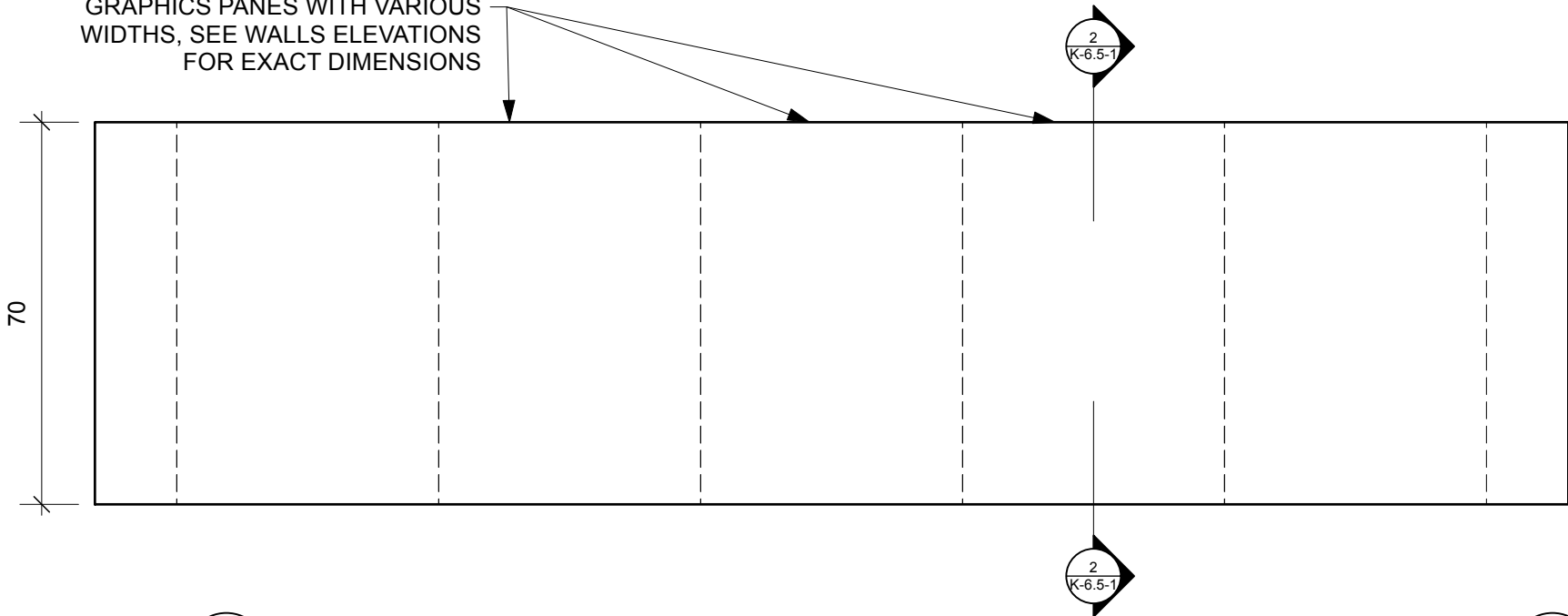


3 WALL MOUNT GRAPHIC (TYPE 3): DETAIL  
Scale: 2" = 1'-0"

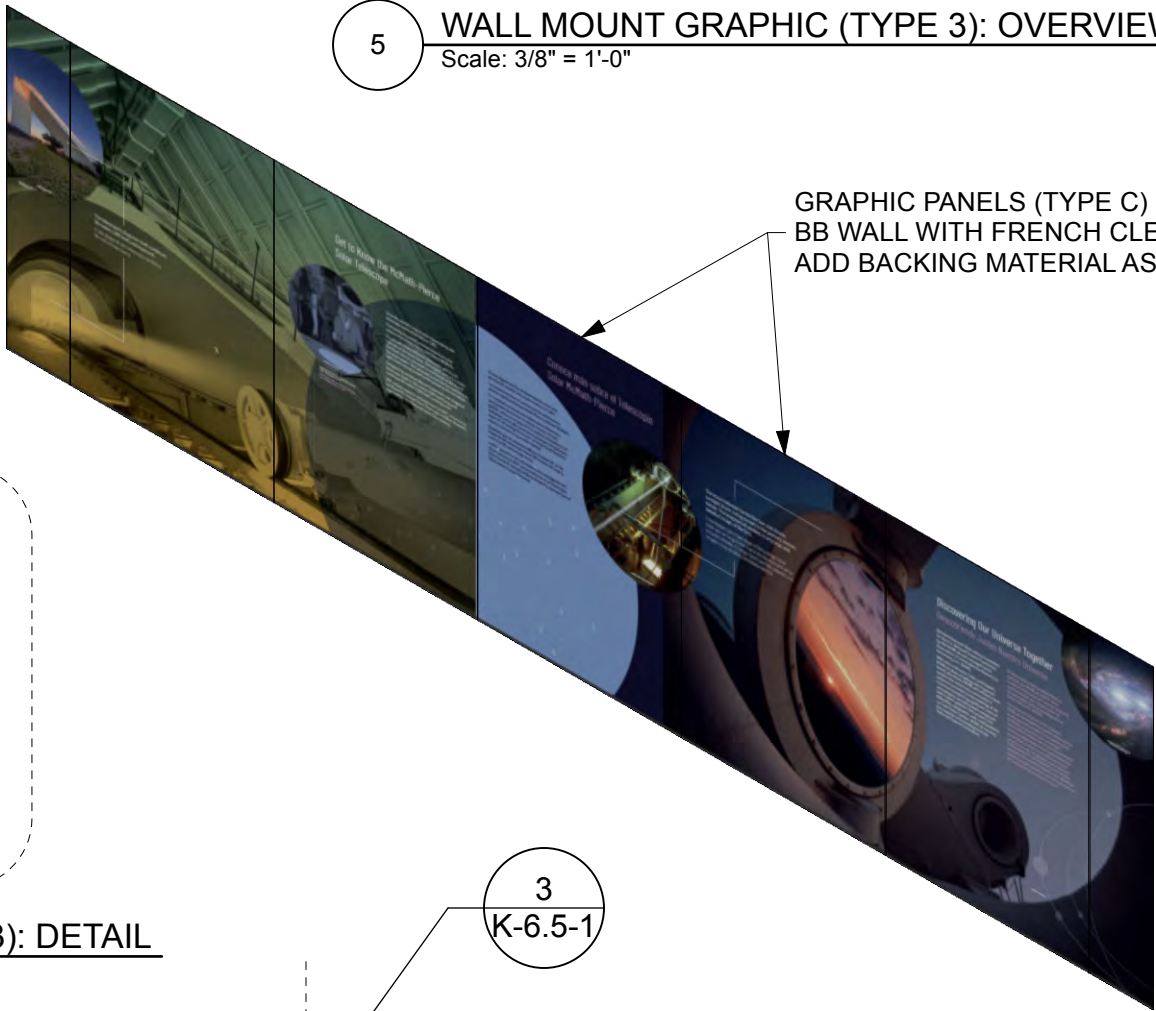


4 WALL MOUNT GRAPHIC (TYPE 3): DETAIL  
Scale: 2" = 1'-0"

GRAPHICS PANES WITH VARIOUS WIDTHS, SEE WALLS ELEVATIONS FOR EXACT DIMENSIONS

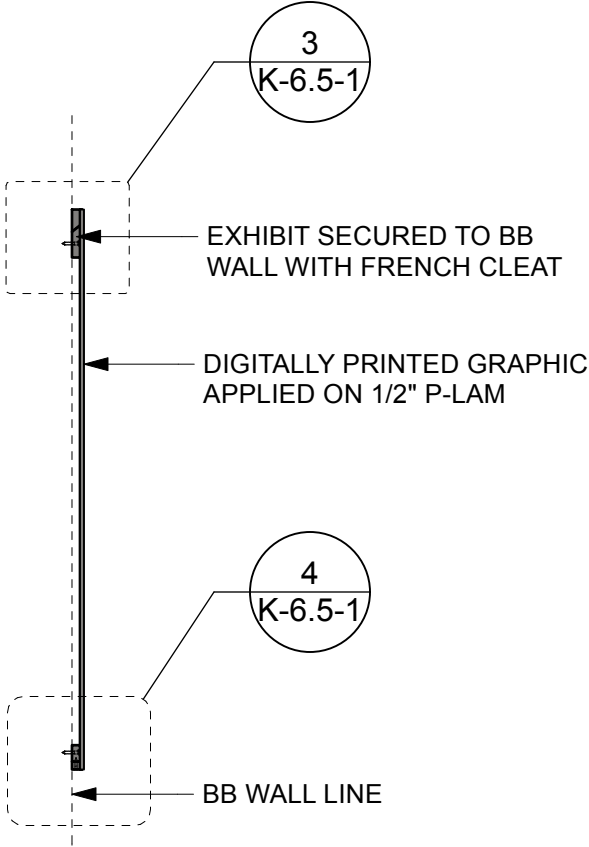


1 WALL MOUNT GRAPHIC (TYPE 4): ELEVATION  
Scale: 3/8" = 1'-0"



5 WALL MOUNT GRAPHIC (TYPE 3): OVERVIEW  
Scale: 3/8" = 1'-0"

GRAPHIC PANELS (TYPE C) MOUNTED TO BB WALL WITH FRENCH CLEAT  
ADD BACKING MATERIAL AS NEEDED



2 WALL MOUNT GRAPHIC (TYPE 3): SIDE VIEW  
Scale: 1/2" = 1'-0"

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Project  
MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS

Drawing  
TYPICALS: WALL MOUNT  
GR. PANELS (TYPE 1)

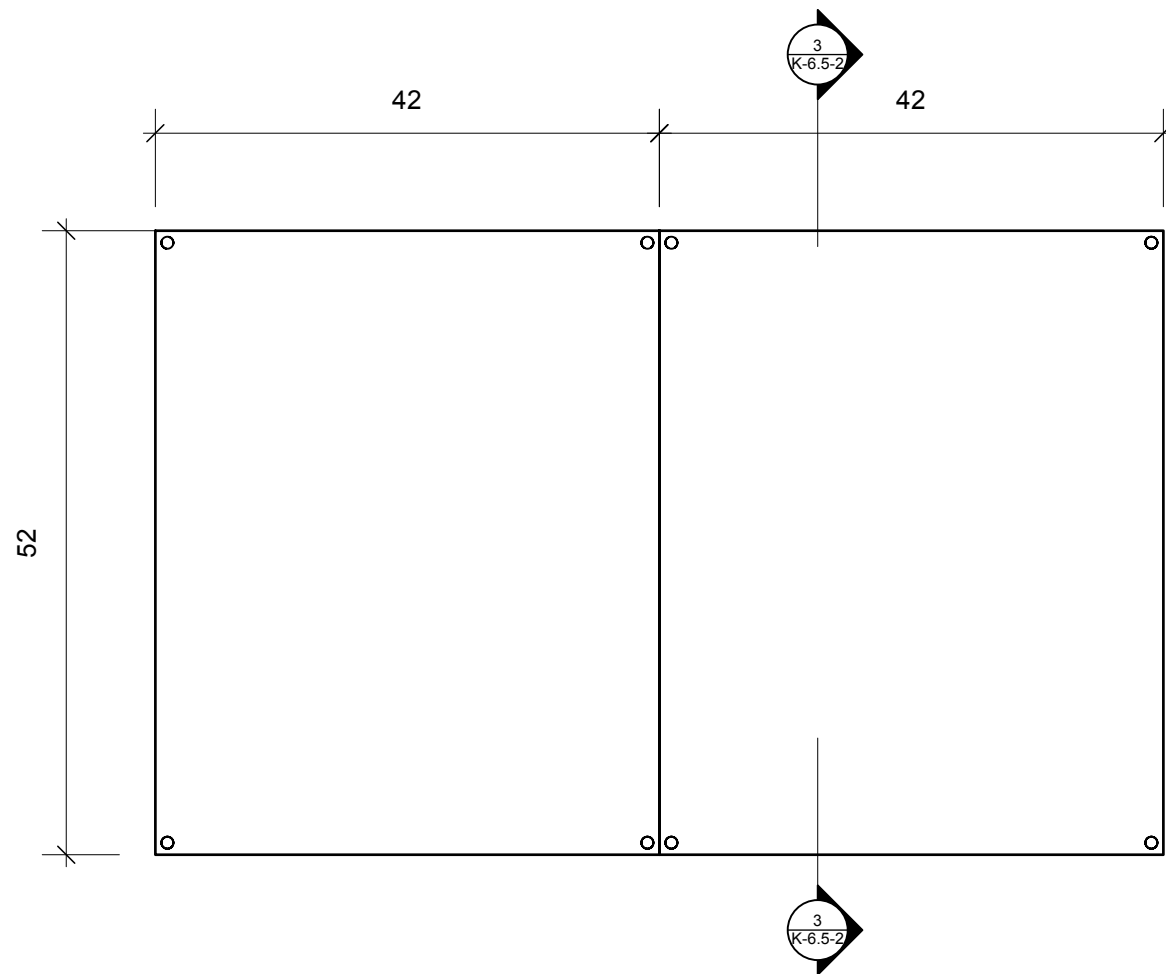
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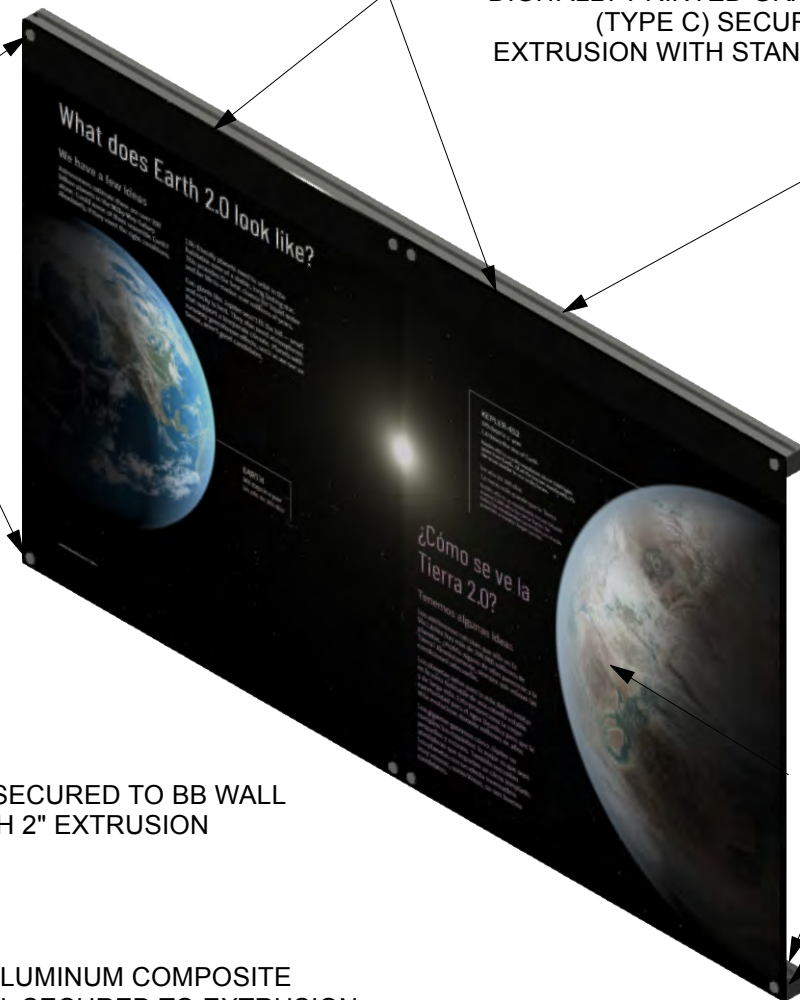
1 WALL MOUNT GRAPHICS (TYPE 2): PLAN  
Scale: 3/4" = 1'-0"



2 WALL MOUNT GRAPHICS (TYPE 2): ELEVATION  
Scale: 3/4" = 1'-0"



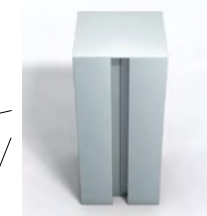
- STANDOFF CAPS 25



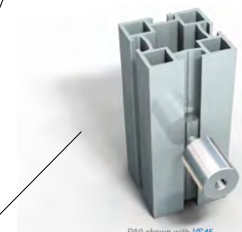
DIGITALLY PRINTED GRAPHICS  
(TYPE C) SECURED TO  
EXTRUSION WITH STANDOFFS



- VERTICAL EXTRUSION DRILLED  
FOR INSERT BLOCK (VS45)



- ALUMINUM END CAPS



- STANDOFF

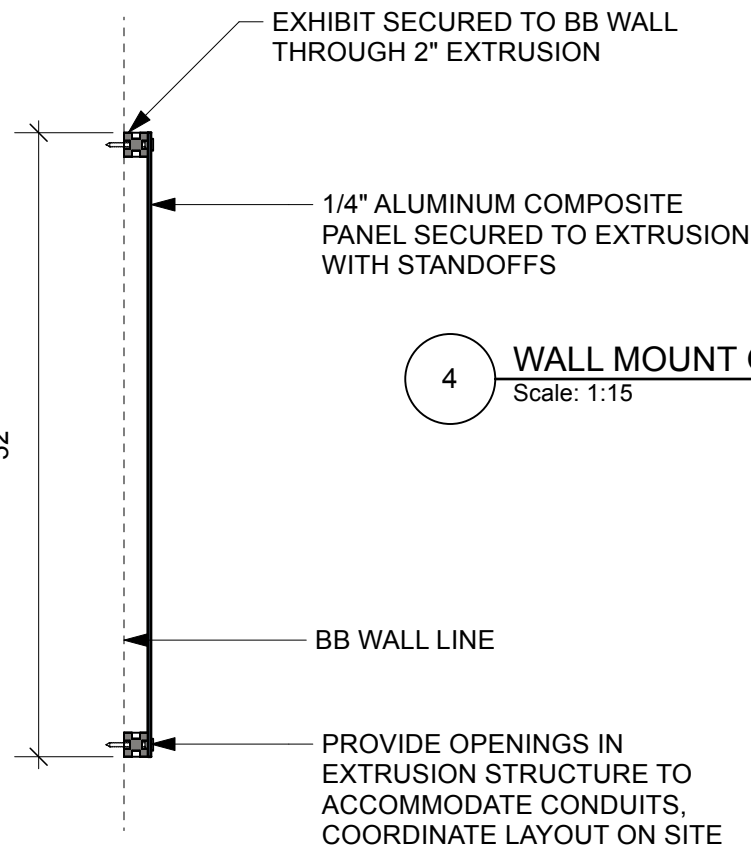


EXHIBIT SECURED TO BB WALL  
THROUGH 2" EXTRUSION

1/4" ALUMINUM COMPOSITE  
PANEL SECURED TO EXTRUSION  
WITH STANDOFFS

BB WALL LINE

PROVIDE OPENINGS IN  
EXTRUSION STRUCTURE TO  
ACCOMMODATE CONDUITS,  
COORDINATE LAYOUT ON SITE

4 WALL MOUNT GRAPHICS (TYPE 2): OVERVIEW  
Scale: 1:15

### General Notes

- Extrusions and accessories AGAM or similar, could be sources from:  
<https://www.agam.com/extrusions-and-accessories/>
- Fabricator to verify all site dimensions to ensure conduit clearance prior to fabrication

	EXHIBIT
1	5.2.1 What are stars?
2	5.6.1 What does the Sun look like?
3	5.7.1 The many faces of the Sun
4	5.8.1 Spectroscopy & Star Composition
5	5.9.1 Life Cycle of Stars
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7	5.11.1 What does Earth 2.0 look like?
8	5.13.1 Exoplanets & search for life

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### Project

MCMATH-PIERCE SOLAR  
TELESCOPE EXHIBITS

### Drawing

TYPICALS: WALL MOUNT  
GR. PANELS (TYPE 2)

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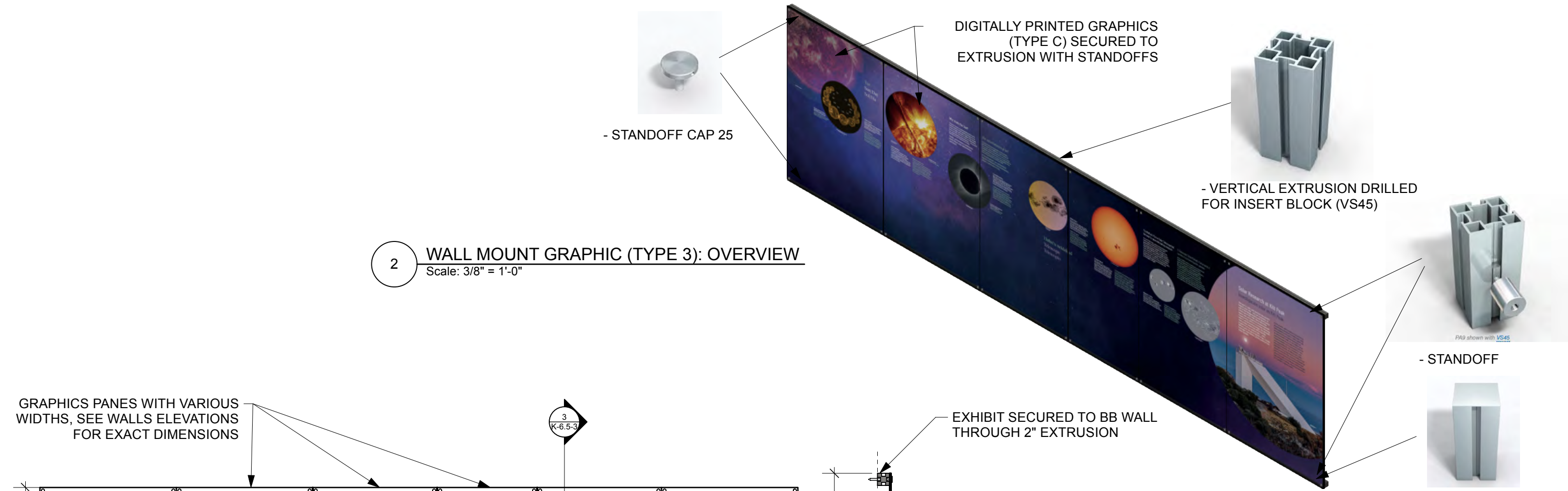
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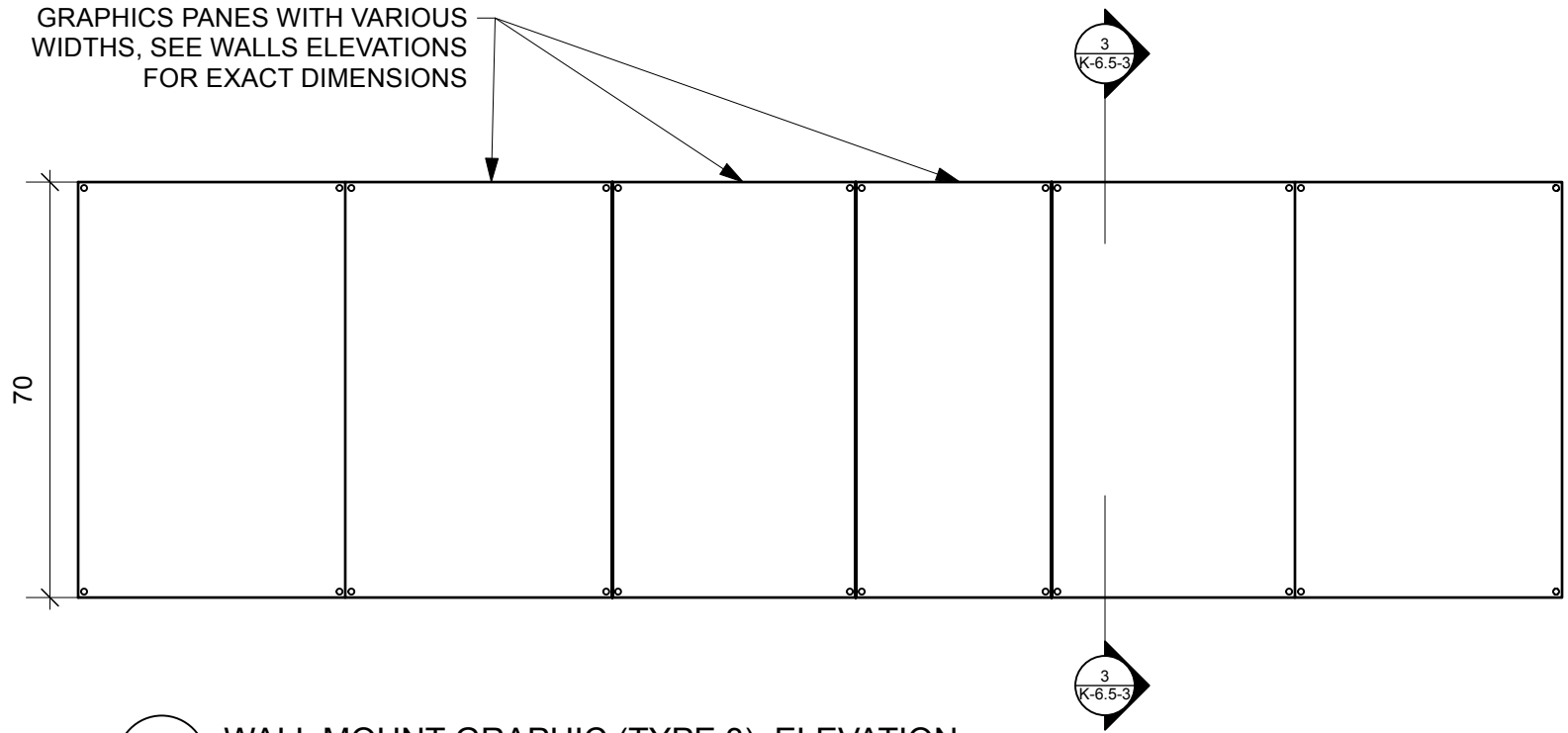
### North

### Dwg No.

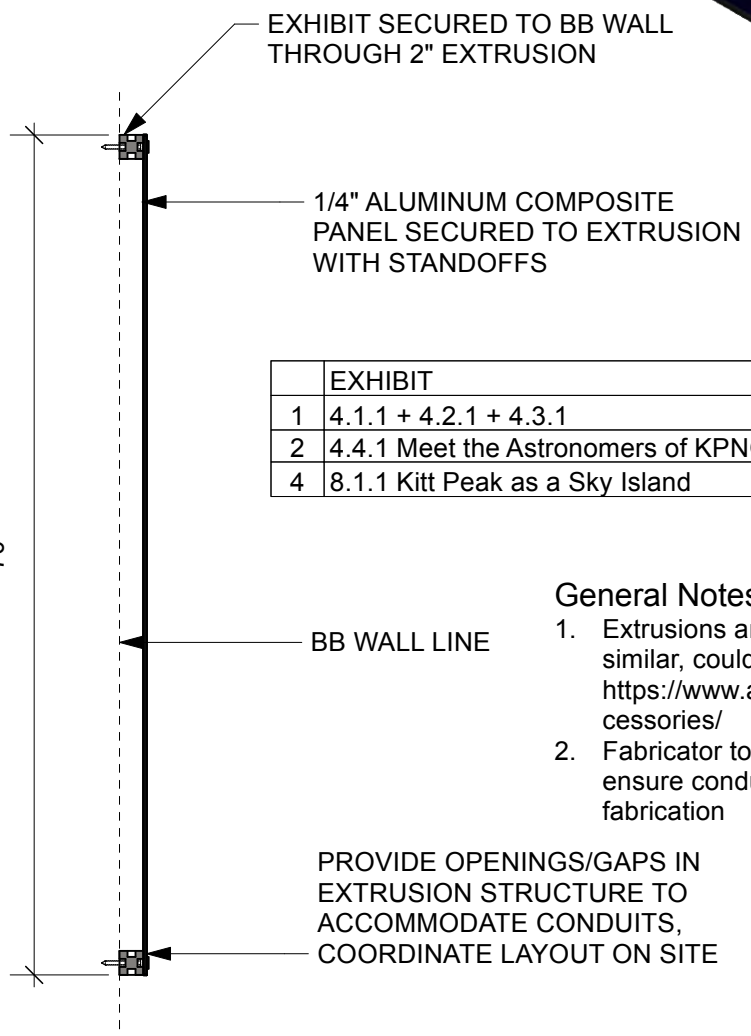
K-6.5-2  
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2 WALL MOUNT GRAPHIC (TYPE 3): OVERVIEW  
Scale: 3/8" = 1'-0"



1 WALL MOUNT GRAPHIC (TYPE 3): ELEVATION  
Scale: 3/8" = 1'-0"



3 WALL MOUNT GRAPHIC (TYPE 3): SECTION  
Scale: 3/4" = 1'-0"

	EXHIBIT	PANELS QTY	SIZE
1	4.1.1 + 4.2.1 + 4.3.1	6 panels	250" x 70"
2	4.4.1 Meet the Astronomers of KPNO	7 panels	300" x 70"
4	8.1.1 Kitt Peak as a Sky Island	7 x 4' panels	336" x 70"

- General Notes
- Extrusions and accessories AGAM or similar, could be sources from: <https://www.agam.com/extrusions-and-accessories/>
  - Fabricator to verify all site dimensions to ensure conduit clearance prior to fabrication

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Drawing		
TYPICALS: WALL MOUNT GR. PANELS (TYPE 3)		
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