

- ① 3/16" Thick Non-Glare Acrylic Face Panel with Satin edges; Hole cut out with 1/4" radius corners for Touch Screen monitor; Second surface painted to match BM Decorator White; Attached to outer frame with VHB.
- ② 4" deep x 3/8" thick aluminum accent bars. Light brushed finish and clear coated, edges lightly eased. Holes drilled and tapped on inside surface of bars to attach to outer frame.
- ③ 1" x 3" Aluminum Angle Welded Frame with mitered corners (outer frame); Holes drilled in top and bottom of frame for ventilation; Exposed areas of frame to match BM Decorator White; Attached to sub frame at top and bottom with screws.
- ④ 1" x 2-1/2" Aluminum Angle Welded Frame with mitered corners (outer frame); Holes drilled in top and bottom of frame for ventilation; Ventilation holes to align with vent holes; Attached to sub frame at top and bottom with screws.
- ⑤ 1" x 3" Aluminum Angle Welded Frame with mitered corners (outer frame); Attached to sub frame at top and bottom with screws.
- ⑥ Samsung 75" LED LCD commercial grade monitor, QM-R Series.
- ⑦ Intel NUC Digital Signage PC
- ⑧ Ventilation fans (20db, 13cfm, 12v) screwed to inside of sub frame.

ADDITIONAL NOTES:

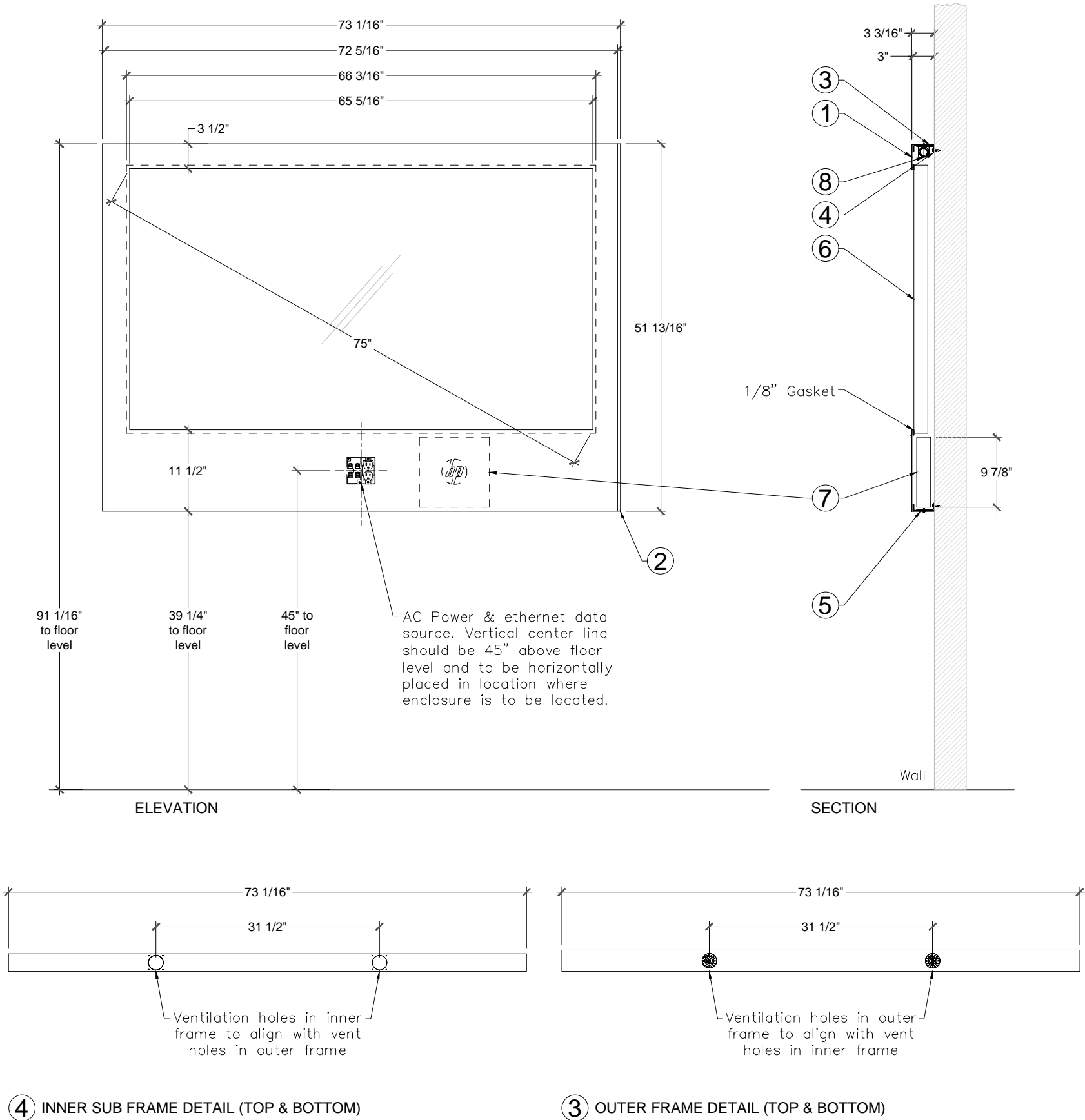
Mounting Surfaces: The mount bracket will be anchored to whatever type of wall that exists, including metal studs, wood studs, metal plate, cement block, drywall, stone, etc.

The front cover is removable in a manner consistent with the existing enclosures and screens.

SAMSUNG 75" LED LCD QM75R COMMERCIAL GRADE MONITOR

| Panel | Diagonal Size | Class | QM75R |
|-------|------------------------|----------|-----------------------------|
| | | | 75" |
| | Type | Measured | 74.5" |
| | | | Edge LED BLU |
| | Resolution | | UHD (3840 x 2160) |
| | Brightness(Typ.) | | 500 |
| | Contrast Ratio (Typ.) | | 4000:1 |
| | Viewing Angle(H/V) | | 178 /178 |
| | Response Time (G to G) | | 8ms (Typ.) |
| | Display Colors | | 16.7M (True Display) |
| | Color Gamut | | 92% (DCI-P3, CIE 1976) |
| Sound | Operation Hour | | 24/7 |
| | Panel Orientation | | Landscape / Portrait |
| | Speaker Type | | Built in Speaker (10W +10W) |

2025-04-01_Digital_Sign_Standards_V1_2025



PROJECT:



Nationwide Children's Hospital
700 Children's Drive
Columbus, Ohio 43205

DESCRIPTION:

NOTES:

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SHEET:

NCH Digital 2.3

1 Shroud: 3.5" depth. 1/8" Thick
Non-Glare Acrylic Face Dimensional
Heat-formed Shroud with rounded
Satin edges; Hole cut out with 1/4"
radius corners for non-touch monitor;
Second surface painted to match BM
Decorator White. Holes drilled at top
and bottom for ventilation.

- ② Video Monitor: Samsung 43" LED LCD commercial grade video monitor, QM-C Series.

- 3** Video Monitor Mount: 1/2" x 1" Aluminum Stock, vertically oriented; screwed to monitor's VESA mounting points. Screwed through top and bottom of aluminum angles and into the wall surface.

- ④ AC power and data. 1 duplex and 2 ethernet data. By G.C.

- 5** Shroud Wall Frame: 1.5" x 3" Aluminum Angle Welded Frame, at top and bottom; Holes drilled in top and bottom of frame for ventilation; welded to 1/2" x 1" vertical aluminum stock at left and right.

- ⑥ PC: Intel NUC Digital Signage PC

- 7** Magnetic Catches: Shroud Wall Frame Stand-Offs. Stand-off of 1.5" x 3" Shroud Wall Frame. Connect to Shroud Structural Frame at the magnetic points.

- 8 Fans: Ventilation fans (20db, 13cfm, 12v) screwed to inside of Shroud Structural frame. 3.5" cutout in frame. Middle Atlantic CAB-COOL-2.

- ⑨ Gasket: White VHB tape gasket, between face of monitor and inside of Shroud.

- 10** Shroud Structural Frame: 1.5" x 3" Outer Aluminum Angle Welded Frame, all around inside of Acrylic Face Panel; Holes drilled in top and bottom of frame for ventilation. Magnets on inside of Frame to connect to Inner Aluminum Frame Stand-Offs.

Mounting Surfaces: The mount bracket will be anchored to whatever type of wall that exists, including metal studs, wood studs, metal plate, cement block, drywall, stone, etc. The front cover is removable in a manner consistent with the existing enclosures and screens.

| | |
|----------------------|--------------------------------------|
| Display: | Samsung QM-43C |
| Display Size: | 43" Diagonal |
| Resolution: | 3840 x 2160 |
| Brightness: | 500 Nits |
| Display Size: | 38.20" wide, 22.00" tall, 1.10" deep |
| Image Size: | 37.05" wide, 20.84" tall |

[illegible]

Diagram illustrating the dimensions of the panel. The width is marked as 3 1/2". A circled number 1 points to the left edge of the panel.

Diagram of the front panel of the monitor showing numbered callouts 2 through 7:

- 2: Top bezel
- 3: Top bezel
- 4: Left bezel
- 5: Left bezel
- 6: Bottom bezel
- 7: Bottom bezel

A detailed line drawing of a window frame assembly. Callout 8 points to the top edge of the frame. Callout 9 points to the top edge of the inner sash. Callout 10 points to the left edge of the frame.

44 3/4"

32"

3.5" circular ventilation holes in frame to allow for air flow into and out of enclosure.

Diagram illustrating the dimensions of the enclosure frame:

- Total width: 44 1/2"
- Distance between ventilation holes: 32"
- Two 3.5" circular ventilation holes are located in the frame to allow for air flow into and out of the enclosure.

DESCRIPTION:

ISSUANCE DATE:
2024.04.12

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NCH Digital 3.1

COMPONENTS OF DESIGN

- 1 Shroud: 3.5" depth. 1/8" Thick Non-Glare Acrylic Face Dimensional Heat-formed Shroud with rounded Satin edges; Hole cut out with 1/4" radius corners for non-touch monitor; Second surface painted to match BM Decorator White. Holes drilled at top and bottom for ventilation.
- 2 Video Monitor: Samsung 43" LED LCD commercial grade video monitor, QM-R Series.
- 3 Video Monitor Mount: 1/4" x 18" X 28" Aluminum Plate, screwed to monitor's VESA mounting points. Screwed through left and right of aluminum shroud structural frame and into the wall surface.
- 4 AC power and data. 1 duplex and 2 ethernet data. By G.C.
- 5 Shroud Wall Frame: 1.5" x 3" Aluminum Angle Welded Frame, at top and bottom; Holes drilled in top and bottom of frame for ventilation; welded to 1/2" x 1" vertical aluminum stock at left and right.
- 6 PC: Intel NUC Digital Signage PC
- 7 Magnetic Catches: Shroud Wall Frame Stand-Offs. Stand-off of 1.5" x 3" Shroud Wall Frame. Connect to Shroud Structural Frame at the magnetic points.
- 8 Fans: Ventilation fans (20db, 13cfm, 12v) screwed to inside of Shroud Structural frame. 3.5" cutout in frame. Middle Atlantic CAB-COOL-2.
- 9 Gasket: White VHB tape gasket, between face of monitor and inside of Shroud.
- 10 Shroud Structural Frame: 1.5" x 3" Outer Aluminum Angle Welded Frame, all around inside of Acrylic Face Panel; Holes drilled in top and bottom of frame for ventilation. Magnets on inside of Frame to connect to Inner Aluminum Frame Stand-Offs.

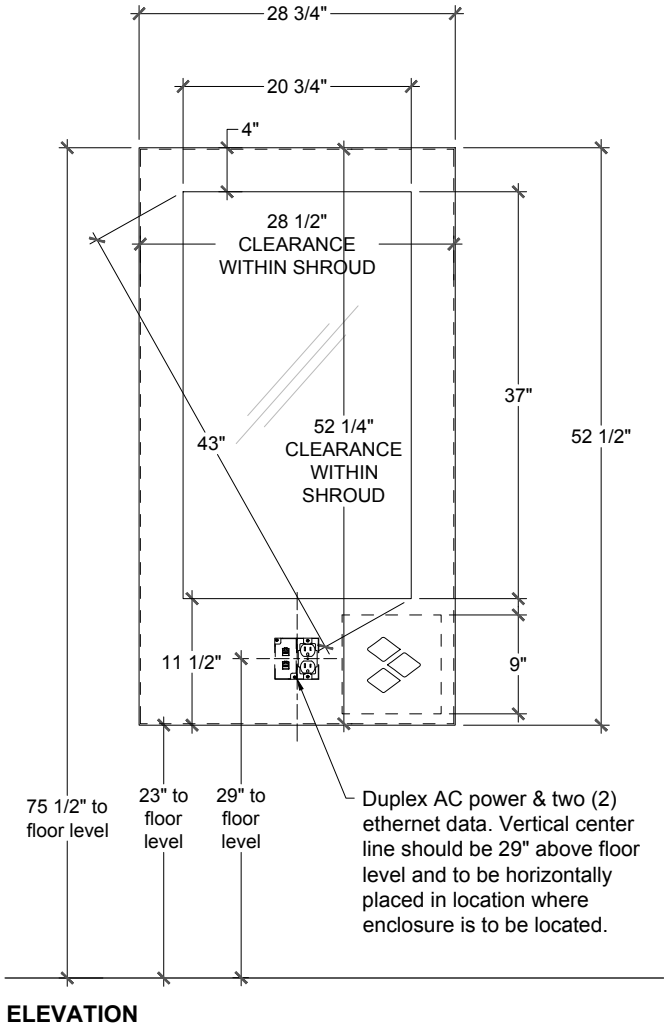
ADDITIONAL NOTES:

Mounting Surfaces: The mount bracket will be anchored to whatever type of wall that exists, including metal studs, wood studs, metal plate, cement block, drywall, stone, etc. The front cover is removable in a manner consistent with the existing enclosures and screens.

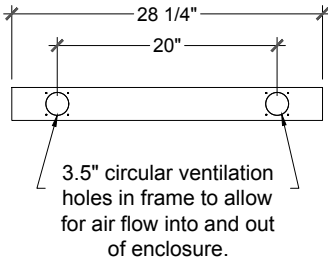
VIDEO MONITOR SPECIFICATIONS:

| | |
|---------------|--------------------------------------|
| Display: | Samsung QM-43R |
| Display Size: | 43" Diagonal |
| Resolution: | 3840 x 2160 |
| Brightness: | 500 nits |
| Display Size: | 38.09" wide, 21.96" tall, 1.90" deep |
| Image Size: | 37.05" wide, 20.84" tall |

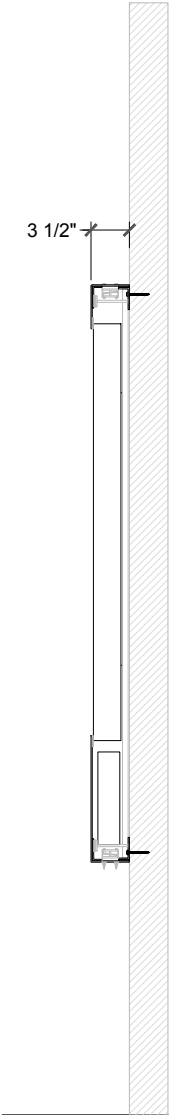
43" DIGITAL MARKETING DISPLAY



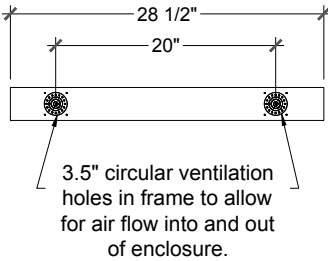
ELEVATION



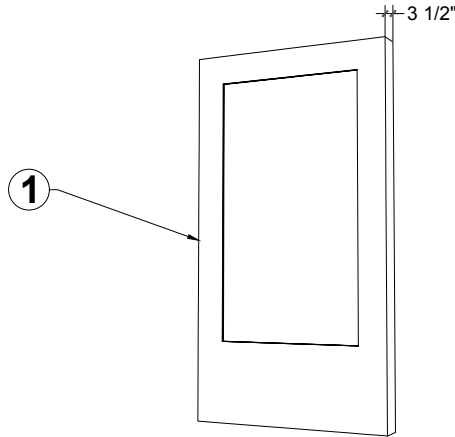
SHROUD WALL FRAME DETAIL (TOP & BOTTOM)



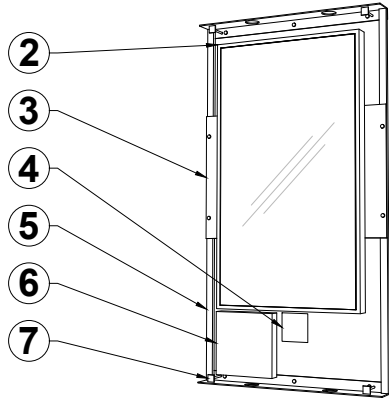
SECTION



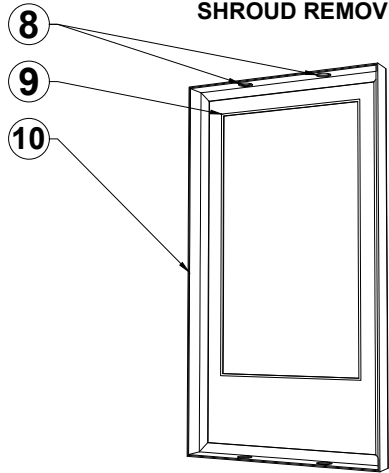
SHROUD STRUCTURAL FRAME DETAIL (TOP & BOTTOM)



FRONT OF SHROUD



DISPLAY WITH SHROUD REMOVED



INSIDE OF SHROUD

PROJECT:



Nationwide Children's Hospital
700 Children's Drive
Columbus, Ohio 43205

DESCRIPTION:

ISSUANCE DATE:

2023.12.14

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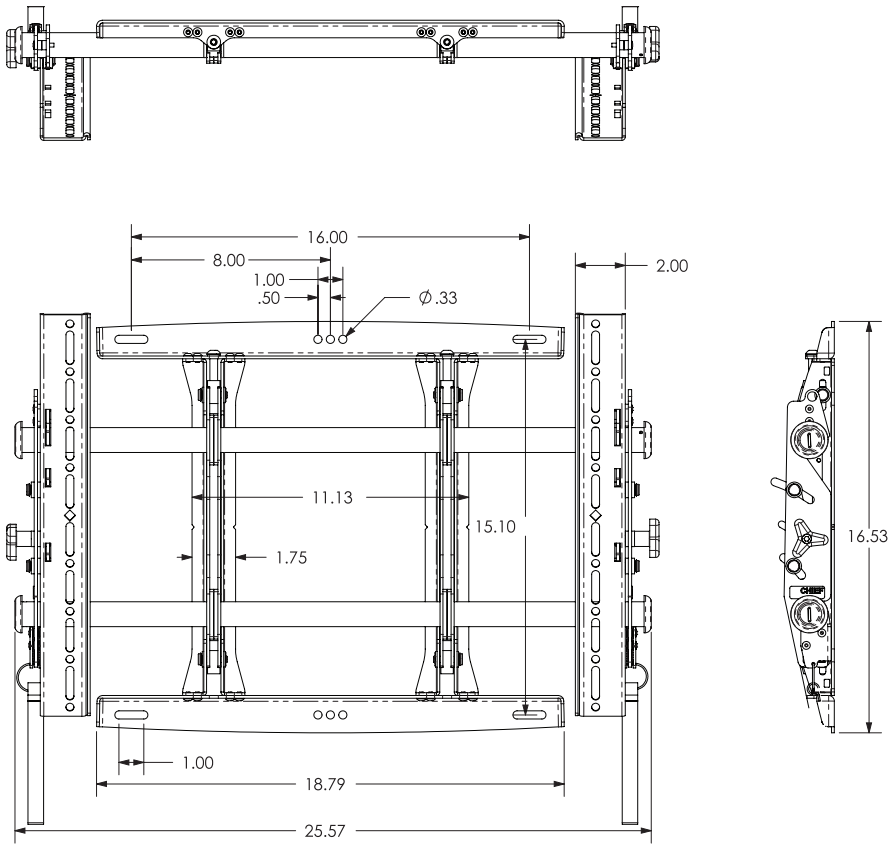
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SHEET:

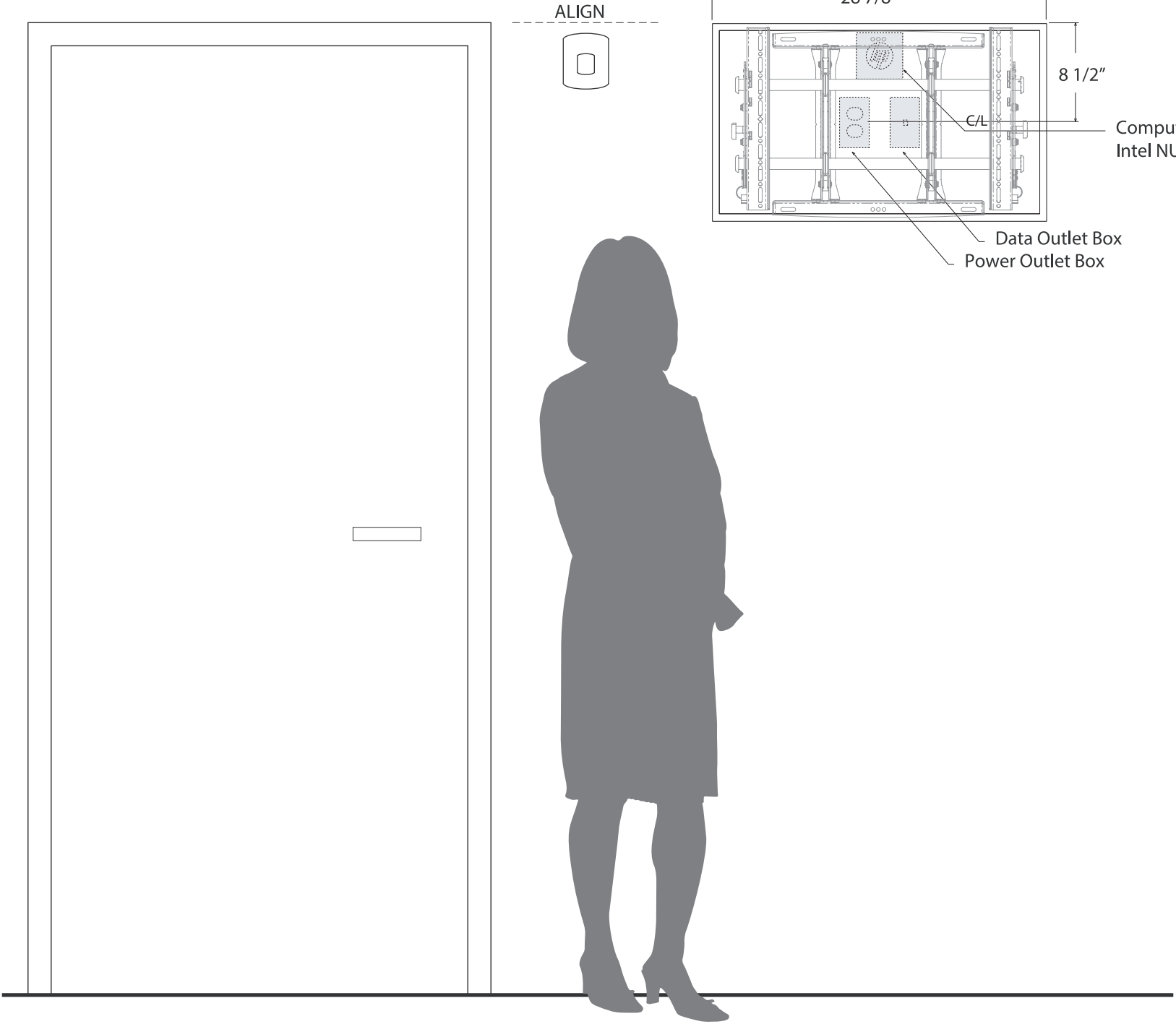
NCH Digital 1.1



Chief Manufacturing Mount Series MTMU

Samsung QM-R Series Commercial LED LCD Displays

| | | |
|---------------------------------|-----------------------------------|---|
| Display | | |
| Screen Size | Panel Technology | Resolution |
| 32" | Edge LED BLU | 1920 x 1080 |
| Brightness | Contrast Ratio (Typical) | Contrast Ratio (Dynamic) |
| 400 nit | 5000:1 | MEGA |
| Viewing Angle (H/V) | Response Time | Operation Hours |
| 178/178 | 8ms (Typ.) | 24/7 |
| Connectivity | Output | External Control |
| Input | RGB: HDMI 2.0 (Loop-out) | RS232C (In/Out) Thru Stereo Jack, RJ45 |
| RGB: Display Port 1.2 | AUDIO: Stereo Mini Jack | |
| VIDEO: HDMI 2.0 x1 | | |
| HDCP: HDCP 2.2 | | |
| AUDIO: Stereo Mini Jack, HDMI | | |
| USB: USB 2.0 x2 | | |
| Sensor | | |
| IR | | |
| Power | Power Supply | Power Consumption (Standby) |
| Type | AC 100 - 240 V~ (+/- 10 %), 50/60 | 0.5 W |
| Internal | Hz | |
| Environmental Conditions | Operating Humidity | |
| Operating Temperature | 10~80% | |
| 0°C~ 40°C | | |



Reference Elevation

Scale: 1" = 1'- 0"

NOTE: Typical Mounting Location
The mounting location of the Quality Board varies with the architecture of the room.

PROJECT:



Nationwide Children's Hospital
700 Children's Drive
Columbus, Ohio 43205

DESCRIPTION:

Quality Board

Passive monitor mounting to existing surface with a Chief MTMU mount.

Landscape orientation.

Location varies with the architecture of the room.
Top of monitor shall align with top of door frame.

NOTES:

05.01.2014 - Intial Drawings
01.01.2021 - Revision

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