Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PY.96.I

RSN:1815505 PERMIT#24-2448023 -LT

037 S/F 8'-0" ILLUMINATED PYLON

CUSTOM-PY.96.I

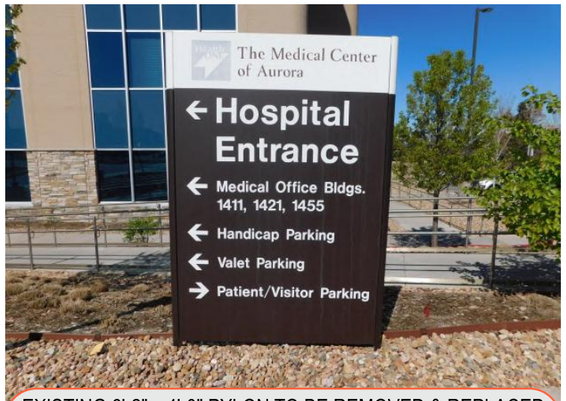
Scaled Proportionally

EXISTING SIGN SF:	24.7
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



EXISTING 6'-2" x 4'-0" PYLON TO BE REMOVED & REPLACED
RETURN LANDSCAPING TO EXISTING CONDITIONS;
FACILITIES/ELECTRICIAN TO VERIFY IF EXISTING ELECTRIC AVAILABLE/OR IF NEW ELECTRICAL NEEDS TO BE SUPPLIED
NEW ELECTRICAL WORK REQUIRED - TRENCHING REQUIRED FOR NEW ELECTRICAL INSTALL

Provide a full-size set of legible APPROVED construction documents on site PRINTED IN COLOR for review by inspector.

Code violations found during inspections are required to be corrected. Permit issuance does not grant approval of a code violation.

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Project: *HCA HOSPITAL*
Address: *1501 S POTOMAC ST*
Occupancy Group: *IBC U*
Construction Type: *IBC VB*
RSN: *1815505*
Permit: *24-2448023 -LT*

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

McFarland Engineering
183 Edgewater Ct
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY.
NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 1 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

ME #: 67448

SIGN - PY.96.I

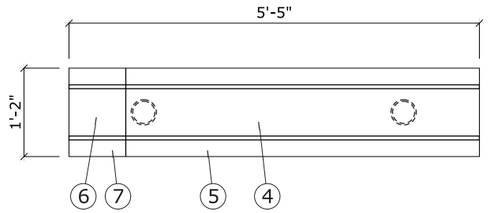
RSN:1815505 PERMIT#24-2448023 -LT

037 CUSTOM S/F 8'-0" ILLUMINATED PYLON

PY.96.I

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

43.3 Square Feet

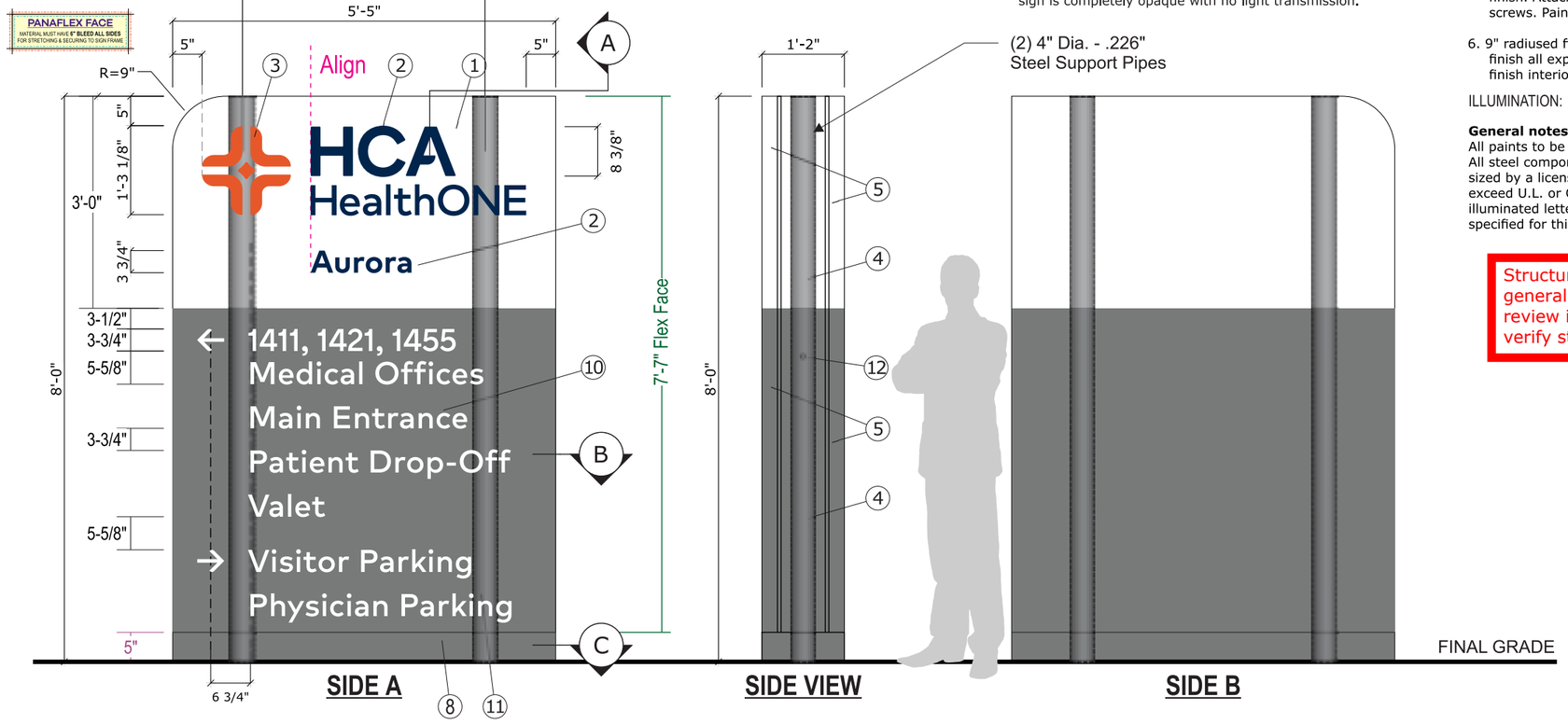


TOP VIEW

QUANTITY: (1) One Monument Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Trenching required for new electrical install - Return landscaping to existing conditions

Sign face to be 3M Panagraphics III. First surface decorate top portion with White opque film and lower portion with opaque slate film. Overlay entire face with 3M 3660M overlaminate. Note: ensure that blank side of sign is completely opaque with no light transmission.



Notes:

1. **Sign face Side A:** to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
   Sign face Side B: to be 3M Panagraphics III. First surface decorate top portion with White opaque film and lower portion with opaque slate film. Overlay entire face with 3M 3660M overlaminate. Note: ensure the blank side of sign is completely opaque with no light transmission.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
5. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
6. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
7. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
8. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
11. Vinyl copy to be white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
12. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC



SIMULATED NIGHT VIEW

McFarland Engineering
183 Edgewater Ct
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Date: 7-15-2024
Sheet #: 2 OF 32

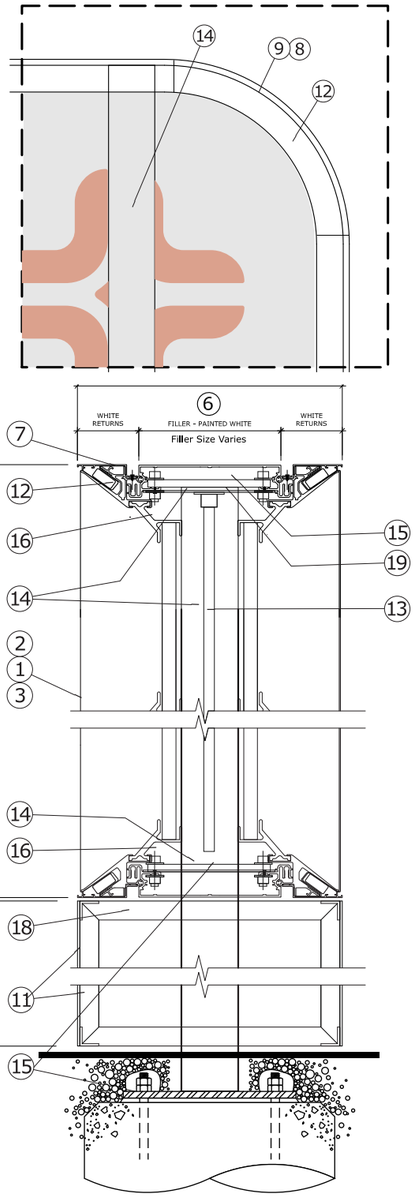
NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448 | SIGN - PY.96.I

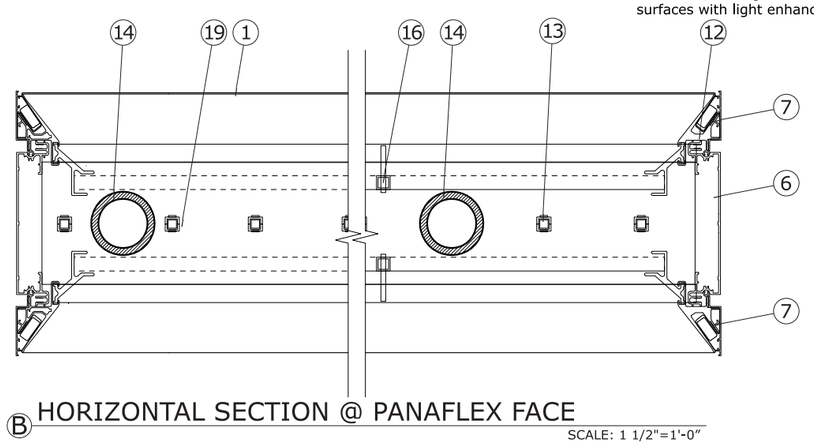
037 ILLUMINATED PYLON SECTION DETAILS

RSN-1815505 PERMIT#24-2448023 -LT



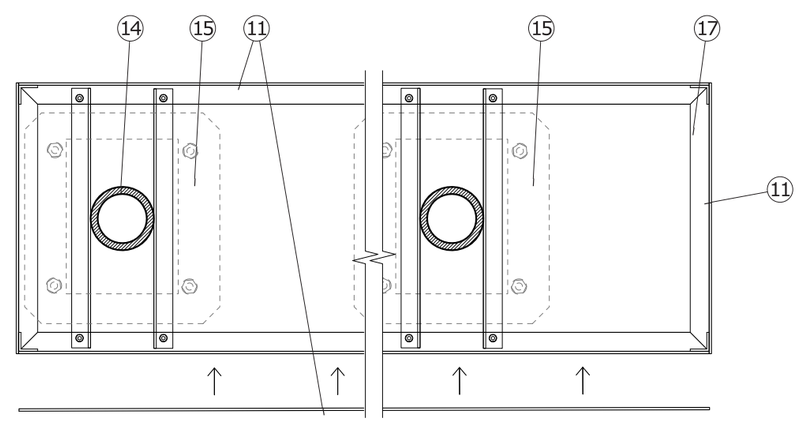
A VERTICAL SECTION

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



B HORIZONTAL SECTION @ PANAFLEX FACE

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



C HORIZONTAL SECTION @ REMOVABLE BASE CLADDING

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

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
6. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
7. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
8. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
9. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Semi-gloss finish.
10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
11. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:

a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:

a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Pantone

HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c

Paints

HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431

Vinyls opaque

HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545

Vinyls translucent

HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)

Vinyls reflective

Crimson Red	3M 680-82 Ruby red
White	3M 680-10

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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Date: 7-15-2024
Sheet #: 3 OF 32

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Colorado Expiration Date: 10/31/25

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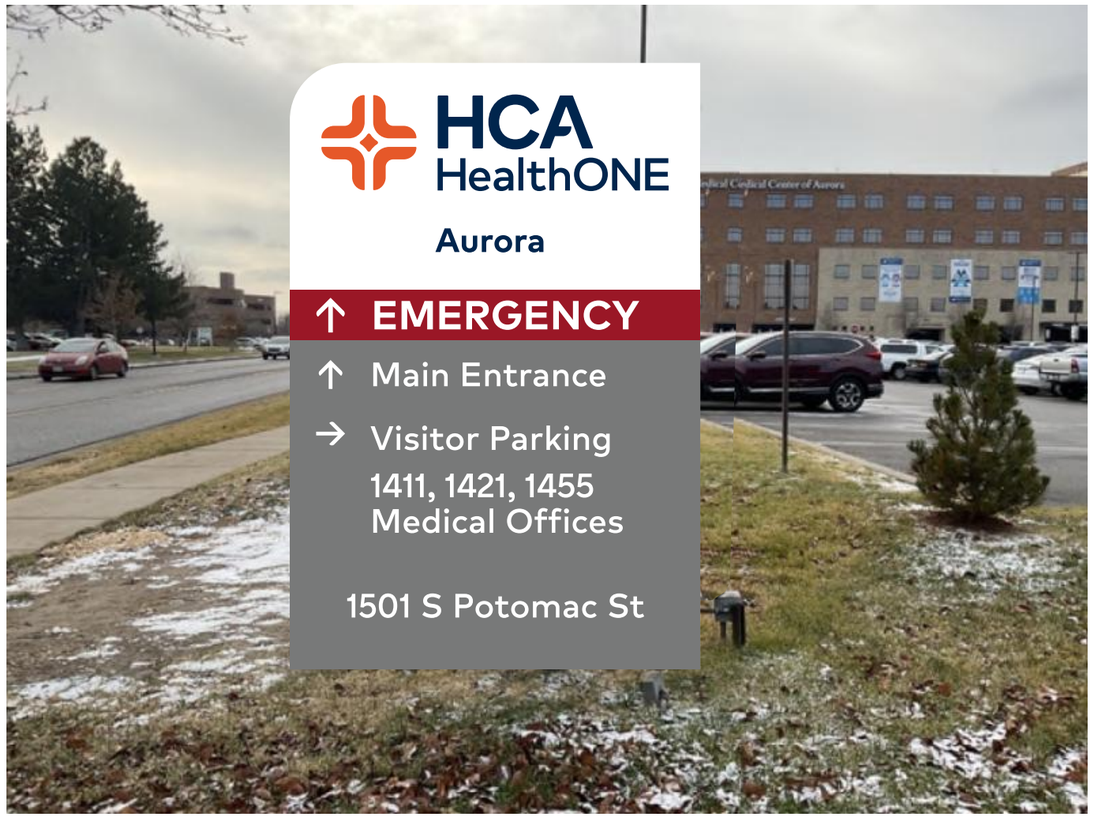
RSN:1815505 PERMIT#24-2448023 -LT

055 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

Scale: 1/2"=1'-0" *(Scaled off of existing sign size)*

EXISTING SIGN SF:	28.5
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 7'-0" x 4'-9" SIGNAGE;
RETURN LANDSCAPING TO EXISTING CONDITIONS;
RE-USE EXISTING ELECTRICAL

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City of Aurora Building Division
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Date: *Oct 22, 2024*
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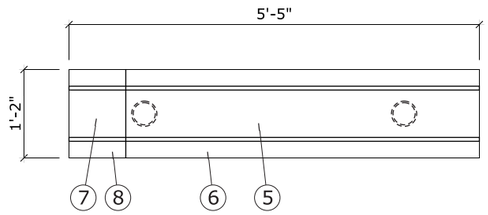
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055 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

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

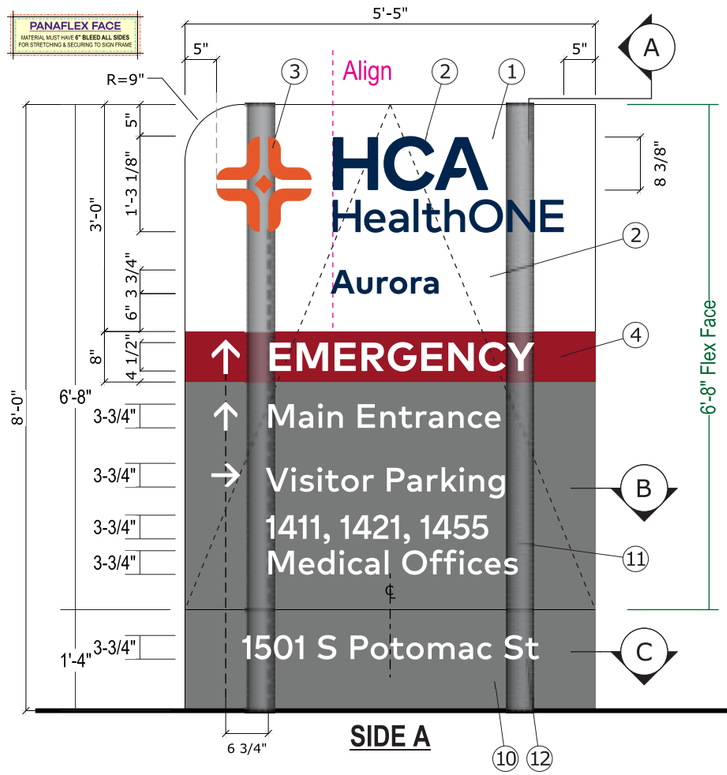
43.3 Square Feet



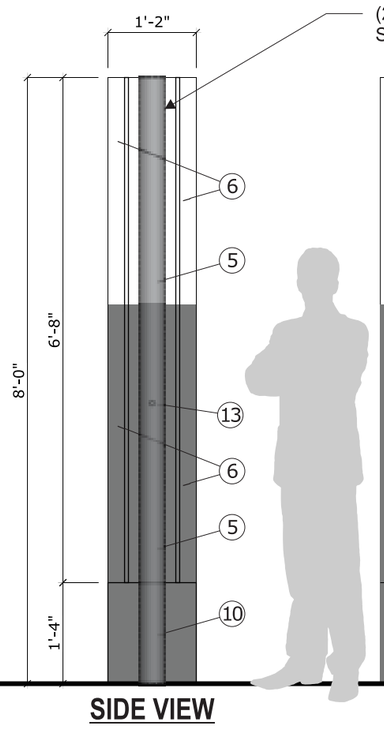
TOP VIEW

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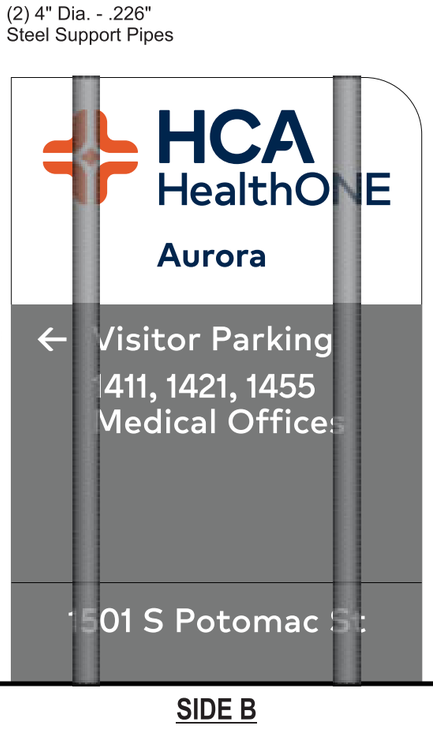
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SIDE A



SIDE VIEW



SIDE B

Notes:

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
6. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
7. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
8. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
9. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
12. Address copy to be white reflective film 3M 680-10 white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Landscaping to be restored; Trenching required for new electrical install



SIMULATED NIGHT VIEW

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COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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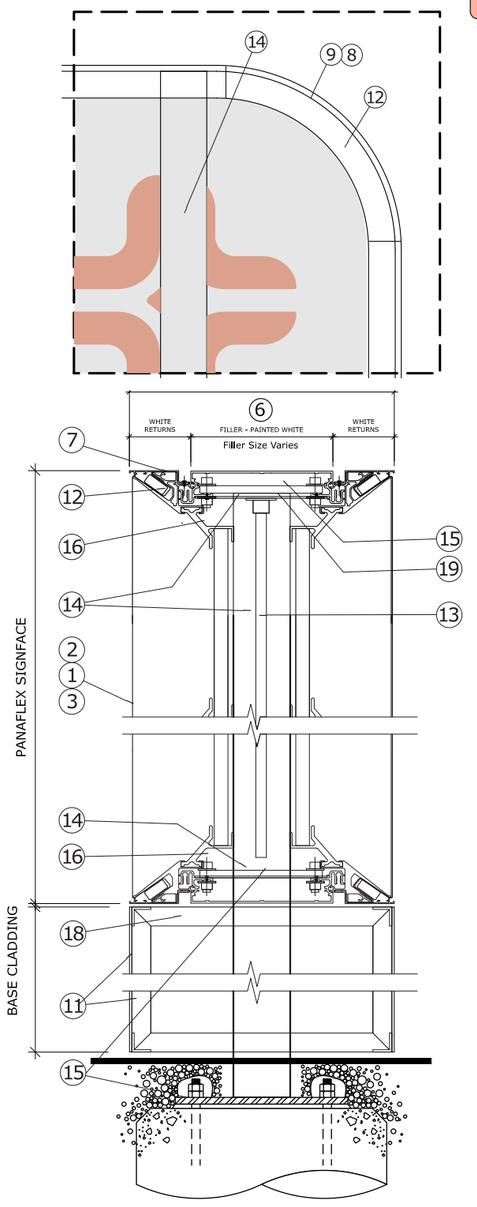
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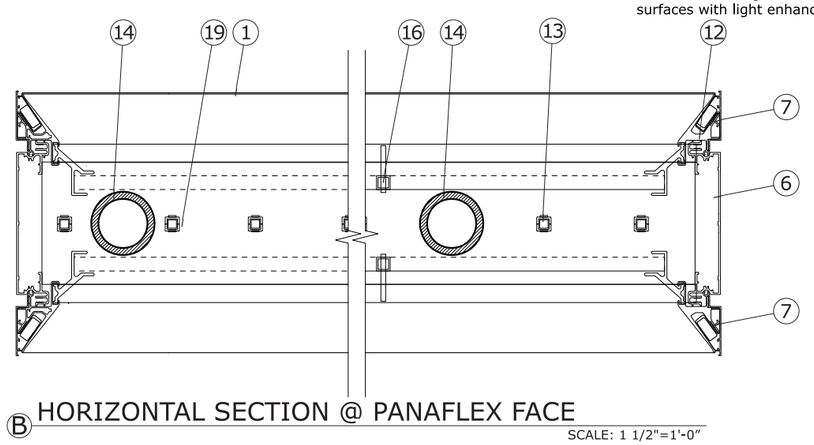
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055 ILLUMINATED PYLON SECTION DETAILS

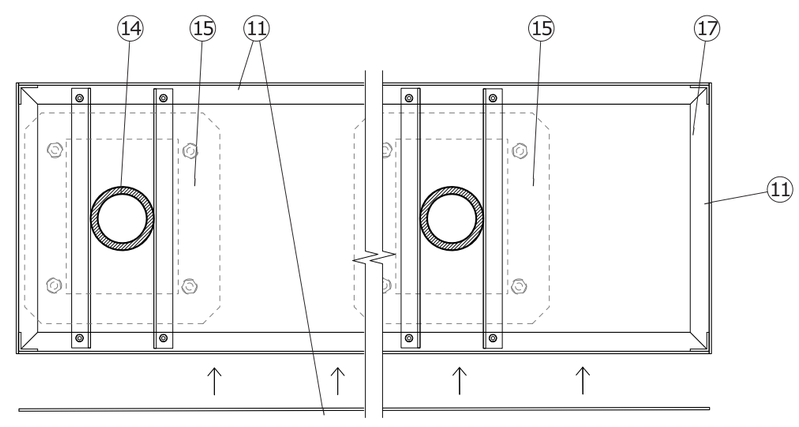
RSN-1815505 PERMIT#24-2448023 -LT



A VERTICAL SECTION
SCALE: 1 1/2"=1'-0"



B HORIZONTAL SECTION @ PANAFLEX FACE
SCALE: 1 1/2"=1'-0"



C HORIZONTAL SECTION @ REMOVABLE BASE CLADDING
SCALE: 1 1/2"=1'-0"

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
6. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
7. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
8. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
9. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Semi-gloss finish.
10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
11. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:
a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:
a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Pantone	
HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c
Paints	
HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431
Vinyls opaque	
HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545
Vinyls translucent	
HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)
Vinyls reflective	
Crimson Red	3M 680-82 Ruby red
White	3M 680-10

McFarland Engineering
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Mocksville, NC 27028
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Email: sean@signstructures.com
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THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 6 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PY.E.96.I

RSN:1815505 PERMIT#24-2448023 -LT

132 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

Not to scale - *Provided rending shown for visual purposes*

EXISTING SIGN SF:	28.5
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS





EXISTING 6'-0" x 4'-9" PYLON TO BE REMOVED & REPLACED
RESTORE GROUND TO EXISTING CONDITIONS
NEW ELECTRICAL WORK REQUIRED - TRENCHING REQUIRED FOR NEW ELECTRICAL INSTALL – ASPHALT WILL NEED TO BE RESTORED

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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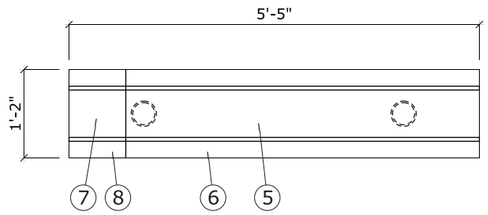
RSN:1815505 PERMIT#24-2448023 -LT

132 D/F 8'-0" ILLUMINATED PYLON W/ ER

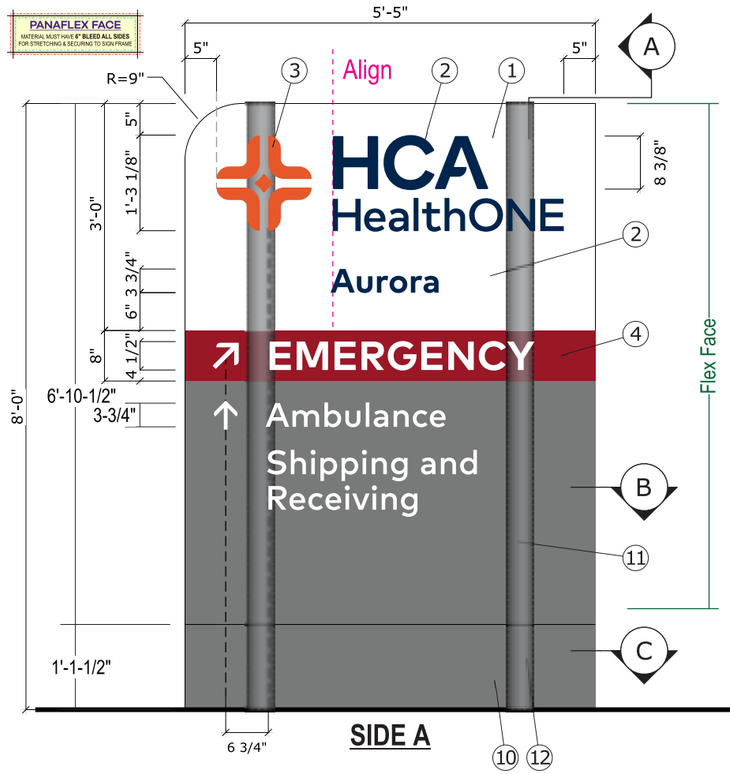
Scale: 1/2"=1'-0"

PY.E.96.I

43.3 Square Feet

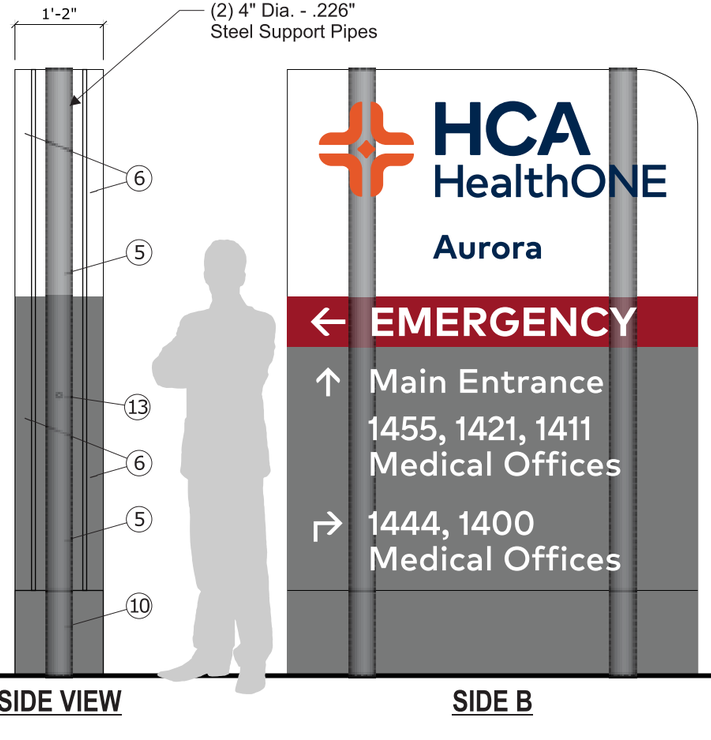


TOP VIEW



QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Landscaping will need to be restored
Trenching required for new electrical install –
Asphalt will need to be restored



Notes:

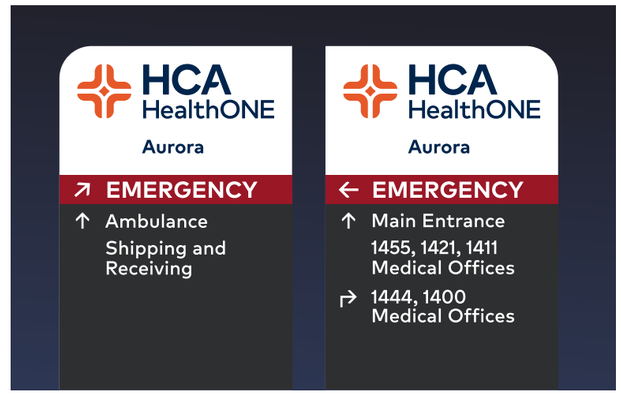
1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
6. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
7. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
8. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC



SIMULATED NIGHT VIEW

McFarland Engineering
183 Edgewater Ct
Mocksville, NC 27028
Structural Sign Design & Engineering Services

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Address: 1501 S POTOMAC ST
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Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Date: 7-15-2024
Sheet #: 8 OF 32

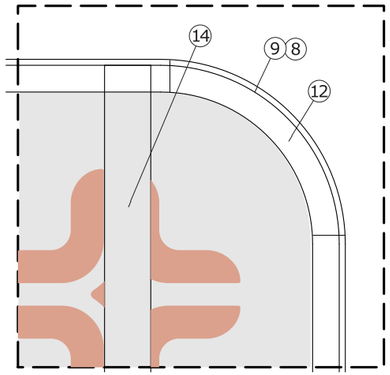
NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

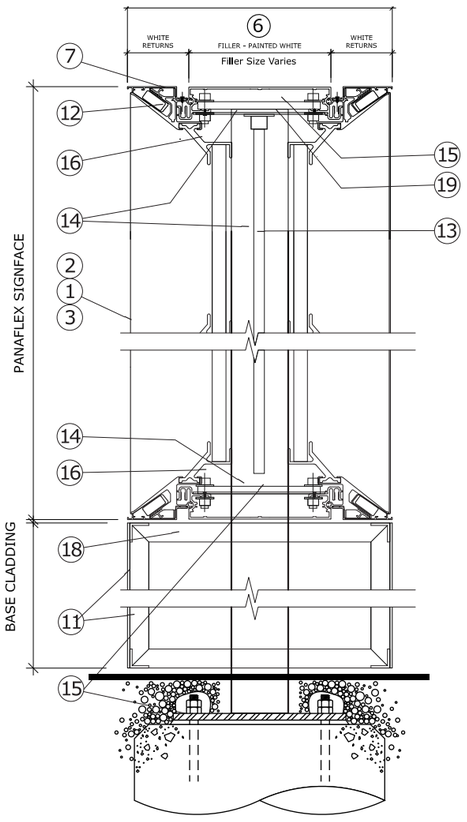
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ME #: 67448 | SIGN - PY.E.96.I

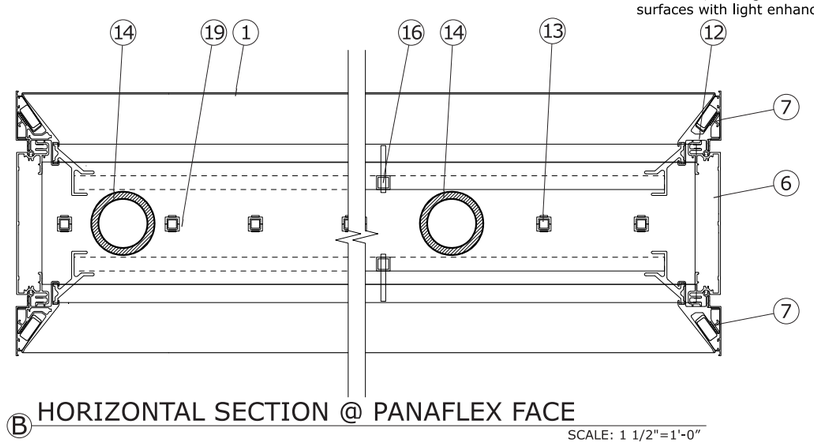
132 ILLUMINATED PYLON SECTION DETAILS

RSN-1815505 PERMIT#24-2448023 -LT

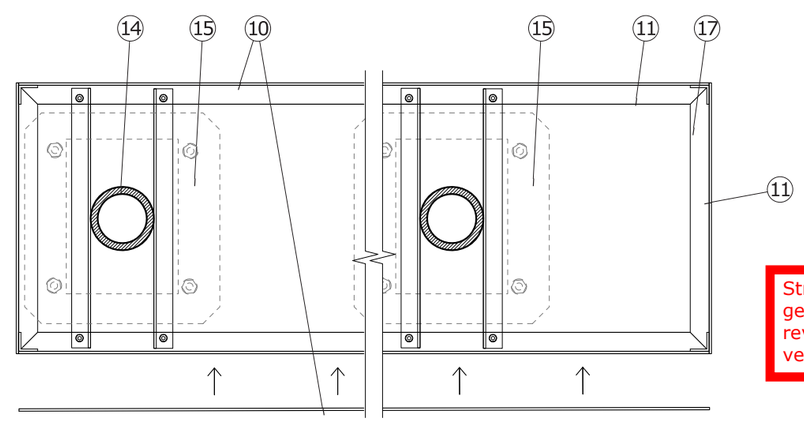




Ⓐ VERTICAL SECTION
SCALE: 1 1/2"=1'-0"



Ⓑ HORIZONTAL SECTION @ PANAFLEX FACE
SCALE: 1 1/2"=1'-0"



Ⓒ HORIZONTAL SECTION @ REMOVABLE BASE CLADDING
SCALE: 1 1/2"=1'-0"

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
6. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
7. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
8. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
9. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Semi-gloss finish.
10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
11. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:
a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:
a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Pantone

HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c

Paints

HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431

Vinyls opaque

HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545

Vinyls translucent

HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)

Vinyls reflective

Crimson Red	3M 680-82 Ruby red
White	3M 680-10

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
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Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Date: 7-15-2024
Sheet #: 9 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

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ME #: 67448

SIGN - PY.E.96.I

RSN:1815505 PERMIT#24-2448023 -LT

179 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	15.2
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



EXISTING 5'-6" x 4'-4" SIGNAGE TO BE REMOVED & REPLACED;
RETURN LANDSCAPING TO EXISTING CONDITIONS;
USE EXISTING ELECTRIC

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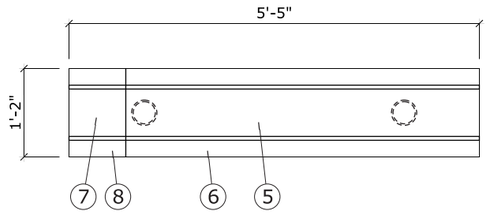
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179 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

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

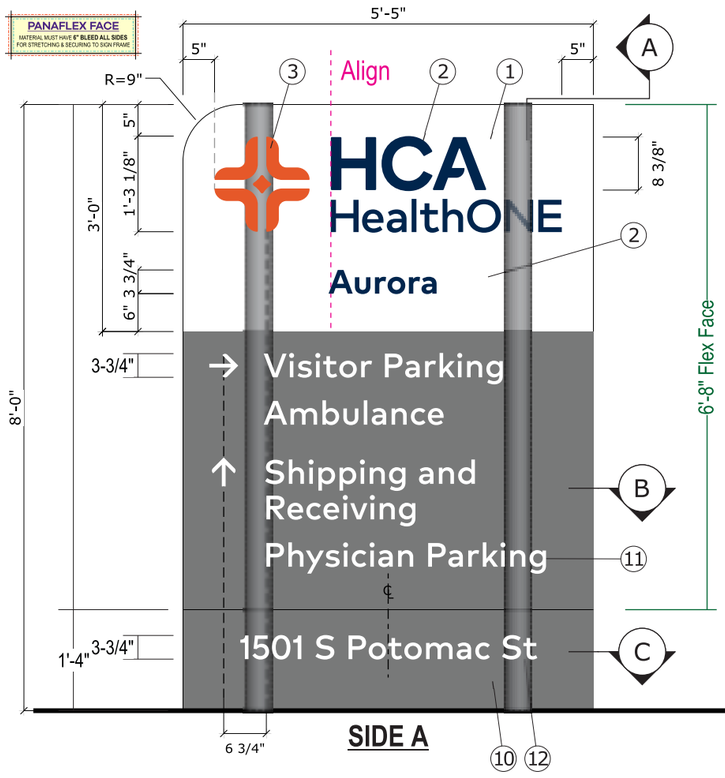
43.3 Square Feet

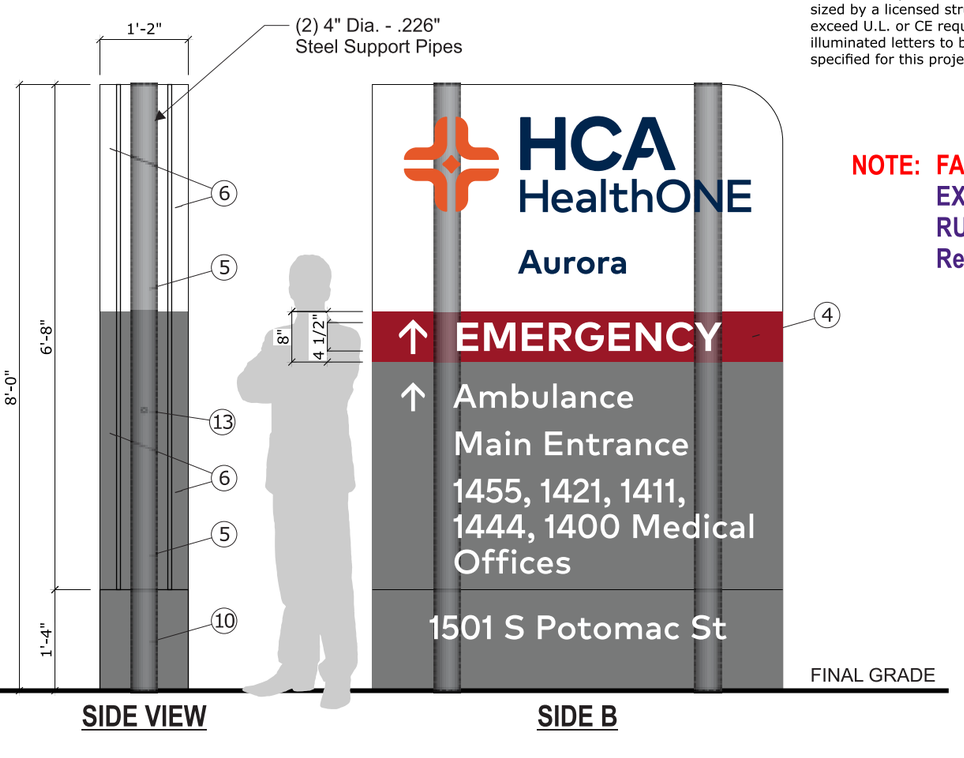


TOP VIEW

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City of Aurora Building Division
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Date: *Oct 22, 2024*
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Notes:

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
6. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
7. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
8. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
9. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
12. Address copy to be white reflective film 3M 680-10 white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
EXISTING ELECTRIC: CONDUIT FROM LIGHTS RUN TO PARKING LOT LIGHT BEHIND SIGN
Return landscaping to existing conditions



SIMULATED NIGHT VIEW

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Date: 7-15-2024
Sheet #: 11 OF 32

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Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

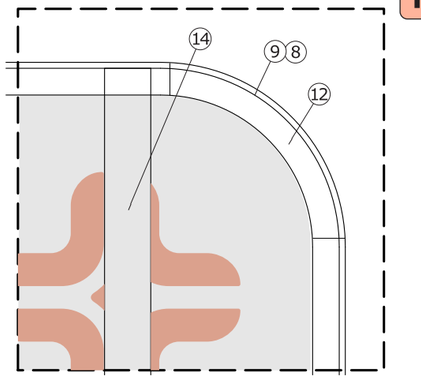
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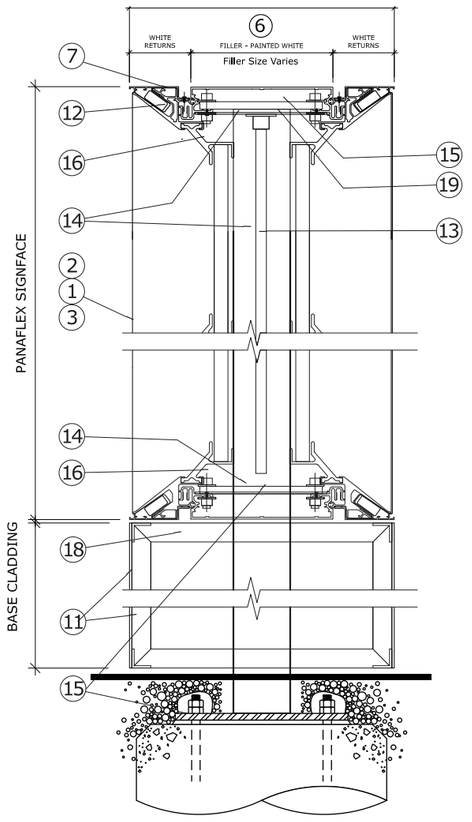
ME #: 67448 | SIGN - PY.E.96.I

179

ILLUMINATED PYLON SECTION DETAILS

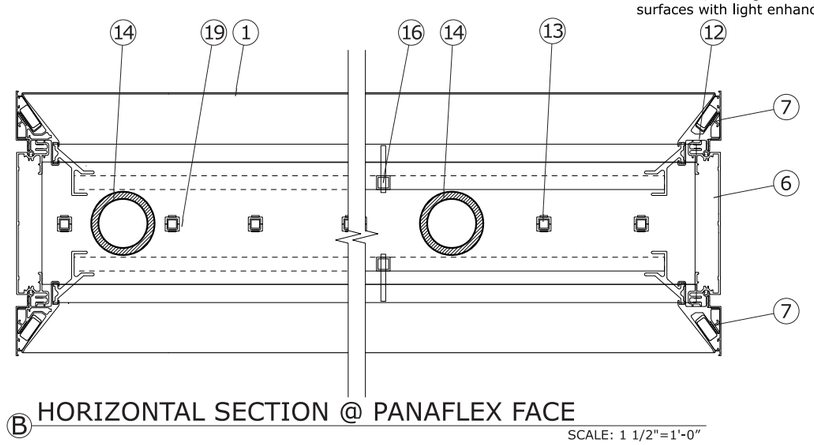
RSN-1815505 PERMIT#24-2448023 -LT





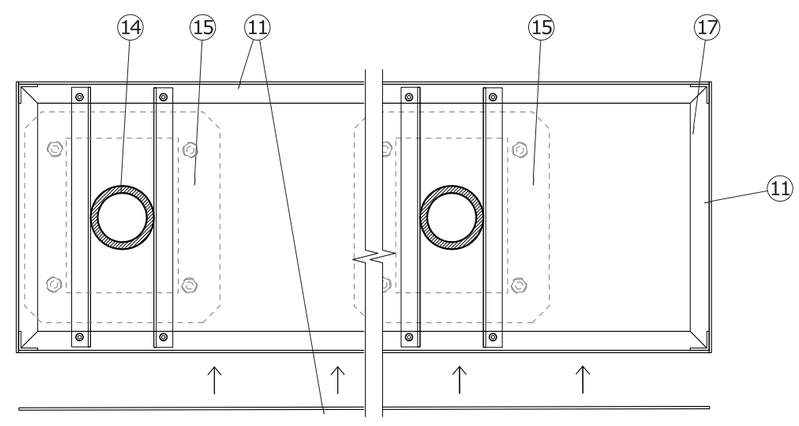
Ⓐ VERTICAL SECTION

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



Ⓑ HORIZONTAL SECTION @ PANAFLEX FACE

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



Ⓒ HORIZONTAL SECTION @ REMOVABLE BASE CLADDING

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

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
6. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
7. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
8. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
9. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Semi-gloss finish.
10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
11. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:

a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:

a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Pantone

HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c

Paints

HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431

Vinyls opaque

HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545

Vinyls translucent

HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)

Vinyls reflective

Crimson Red	3M 680-82 Ruby red
White	3M 680-10

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 12 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PY.E.96.I

RSN:1815505 PERMIT#24-2448023 -LT

192 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

Scale: 1/2"=1'-0" *(Scaled off of existing sign size)*

EXISTING SIGN SF:	15.2
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



EXISTING 5'-9" x 4'-4" POST & PANEL TO BE REMOVED & REPLACED;
MOVE NEW SIGN TO LOCATION CLOSER TO THE ROAD
OF IF UNABLE, TRIM BUSHES SO IS MORE VISIBLE;
RETURN LANDSCAPING TO EXISTING CONDITIONS;
NEW ELECTRICAL REQUIRED

Verify with Facility or local electrical where new power will originate from within the site

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

McFarland Engineering
183 Edgewater Ct
Mocksville, NC 27028
Structural Sign Design & Engineering Services

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THE MEDICAL CENTER OF AURORA CO-027

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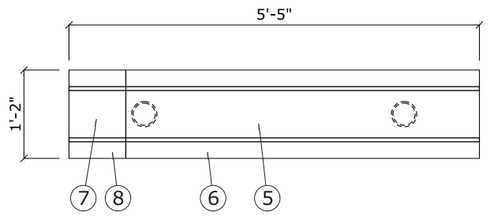
RSN:1815505 PERMIT#24-2448023 -LT

192 CUSTOM D/F 8'-0" ILLUMINATED PYLON W/ ER

CUST-PY.E.96.I

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

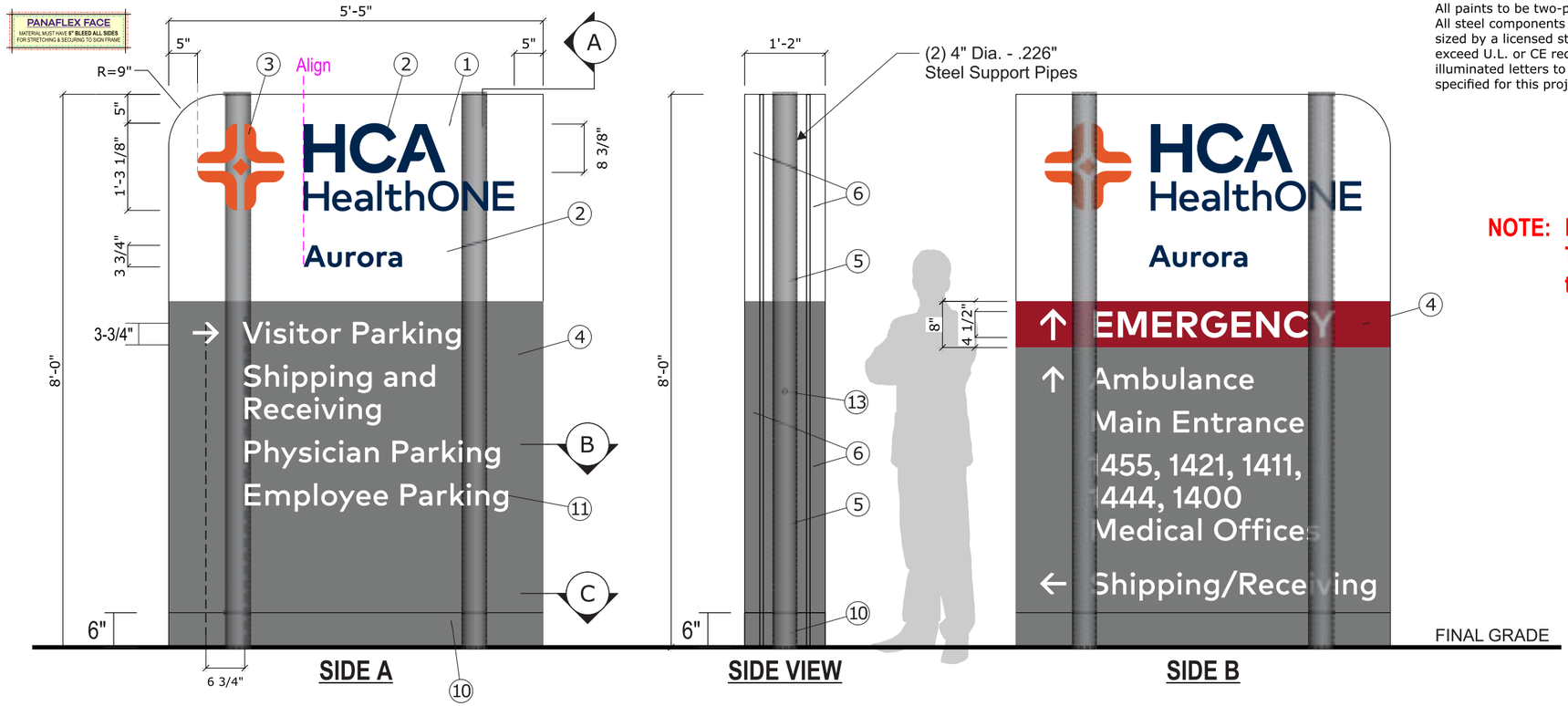
43.3 Square Feet



TOP VIEW

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC



Notes:

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
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9. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Trenching required for new electrical install - Return landscaping to existing conditions



SIMULATED NIGHT VIEW

McFarland Engineering
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Mocksville, NC 27028
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ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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Date: 7-15-2024
Sheet #: 14 OF 32

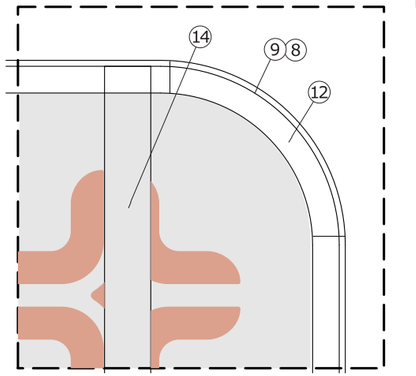
NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

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ME #: 67448 | SIGN - PY.E.96.I

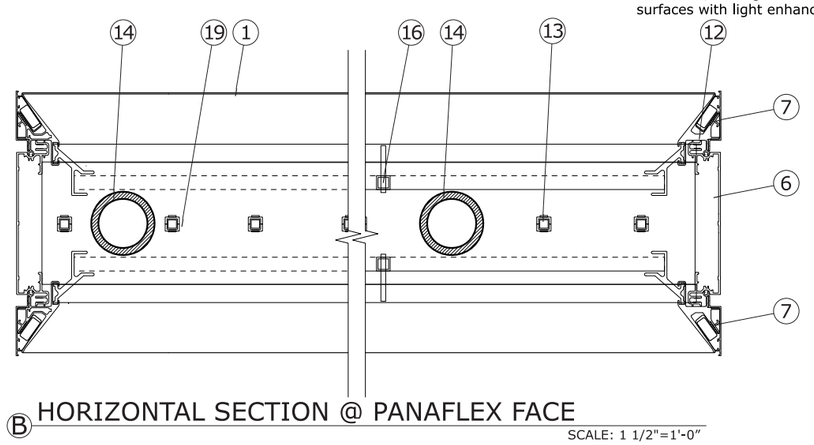
192 ILLUMINATED PYLON SECTION DETAILS

RSN:1815505 PERMIT#24-2448023 -LT



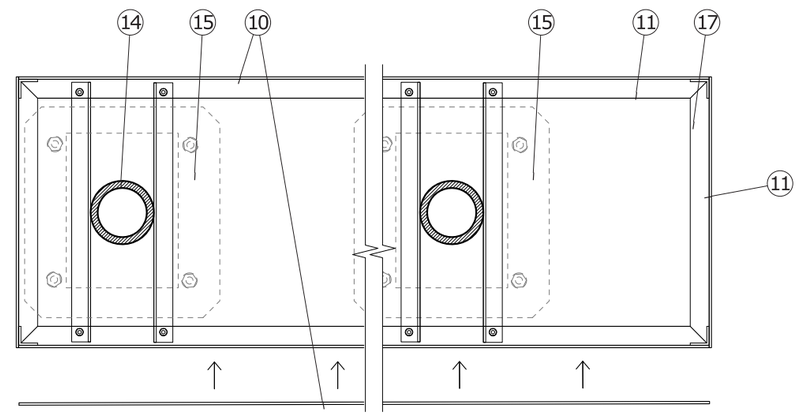
A VERTICAL SECTION

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



B HORIZONTAL SECTION @ PANAFLEX FACE

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



C HORIZONTAL SECTION @ REMOVABLE BASE CLADDING

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

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
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10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
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12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:
a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:
a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

General notes
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Pantone

HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c

Paints

HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431

Vinyls opaque

HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545

Vinyls translucent

HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)

Vinyls reflective

Crimson Red	3M 680-82 Ruby red
White	3M 680-10

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Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Date: 7-15-2024
Sheet #: 15 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

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ME #: 67448

SIGN - PY.E.96.I

RSN:1815505 PERMIT#24-2448023 -LT

252 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

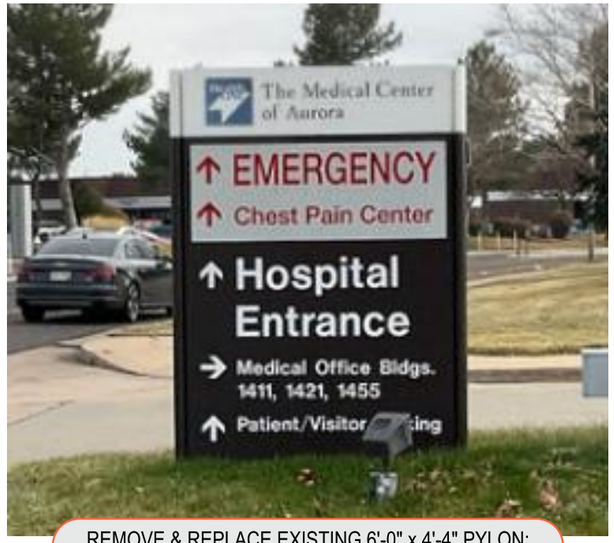
Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	26
PROPOSED SIGN SF:	43.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 6'-0" x 4'-4" PYLON;
RETURN LANDSCAPING TO EXISTING CONDITIONS;
FACILITIES/ELECTRICIAN TO VERIFY IF EXISTING ELECTRIC AVAILABLE/OR IF NEW ELECTRICAL NEEDS TO BE SUPPLIED

ELECTRICAL SURVEY NOTES:

CONDUIT ON BACKSIDE OF SIGN IS EMPTY AND LIGHT ON OTHER SIDE NOT CONNECTED.

LIGHT ON FRONT SIDE OF SIGN IS WIRED BUT DO NOT THINK ENERGIZED.

J-BOX FULL OF GRASS

POWER WAS ORIGINALLY COMING FROM PARKING LOT LIGHT

EXISTING LIGHT FIXTURE TO BE REMOVED

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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Date: 7-15-2024
Sheet #: 16 OF 32

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ME #: 67448

SIGN - PY.E.96.I

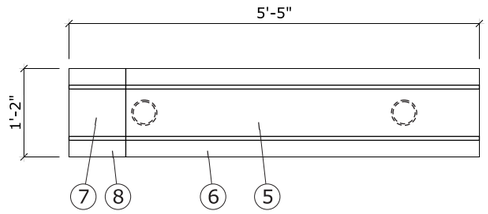
RSN:1815505 PERMIT#24-2448023 -LT

252 D/F 8'-0" ILLUMINATED PYLON W/ ER

PY.E.96.I

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

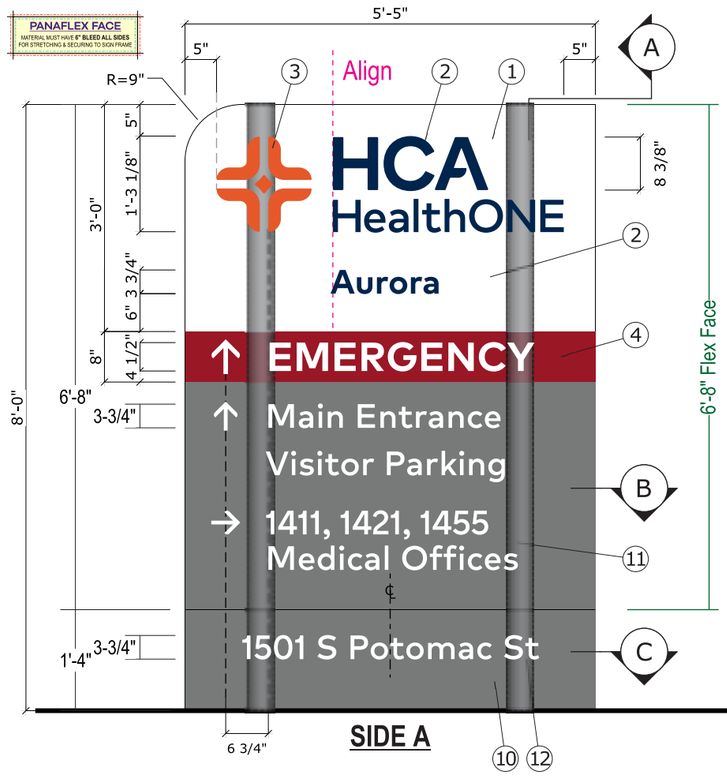
43.3 Square Feet



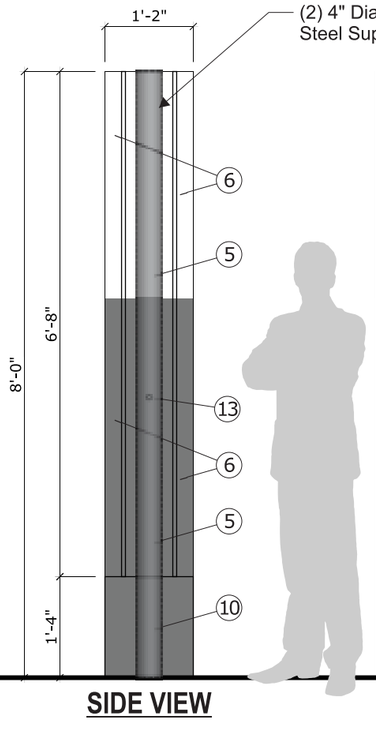
TOP VIEW

QUANTITY: (1) One Pylon Required

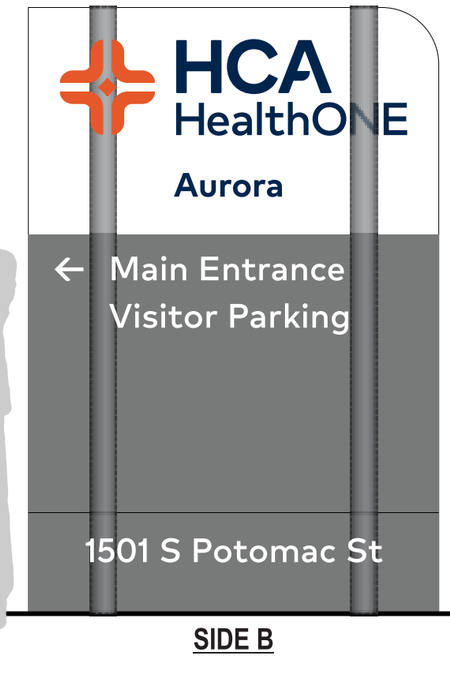
NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
RETURN LANDSCAPING TO EXISTING CONDITIONS –
FACILITIES/ELECTRICIAN TO VERIFY IF EXISTING ELECTRIC AVAILABLE/OR IF NEW ELECTRICAL NEEDS TO BE SUPPLIED



SIDE A



SIDE VIEW



SIDE B

Notes:

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
6. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
7. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
8. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
9. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
12. Address copy to be white reflective film 3M 680-10 white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC



SIMULATED NIGHT VIEW

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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Date: 7-15-2024
Sheet #: 17 OF 32

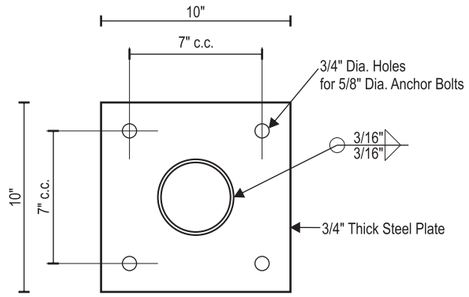
NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

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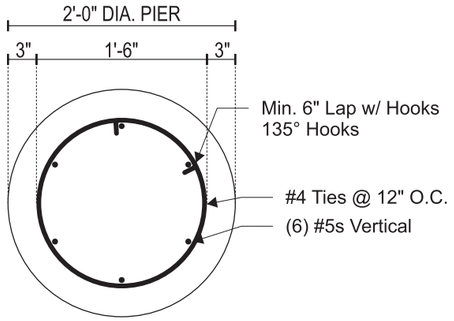
ME #: 67448

SIGNS - PY.96.I / PY.E.96.I / CUST-PY-E.96.I

RSN:1815505 PERMIT#24-2448023 -LT



BASE PLATE DETAIL
1-1/2"=1'-0"
A307 Anchor Bolts
A36 Steel Plate



PLAN VIEW
3/4"=1'-0"
2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS

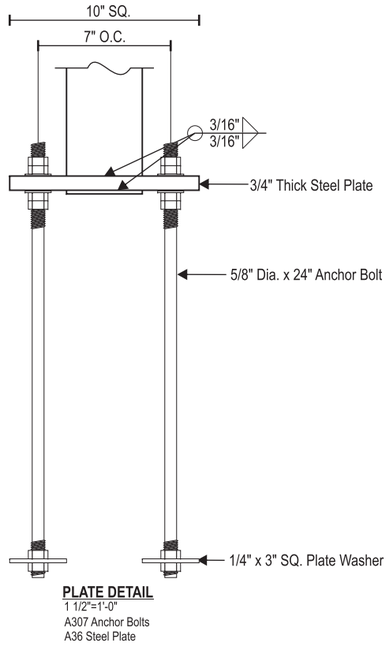
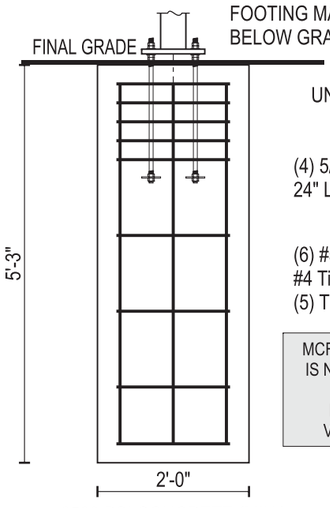


PLATE DETAIL
1 1/2"=1'-0"
A307 Anchor Bolts
A36 Steel Plate



MCFARLAND ENGINEERING IS NOT RESPONSIBLE FOR THE DIMENSIONAL LOCATIONS OF THE VERTICAL SUPPORTS

2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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Initial Drawing: (67448) DS

COLORADO REGISTERED
SEAN M. McFARLAND
38348
PROFESSIONAL ENGINEER

Docusigned by:
Sean McFarland
1BDD47040...

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Date: 7-15-2024
Sheet #: 18 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
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ME #: 67448

SIGN - PP.E.84

RSN:1815505 PERMIT#24-2448023 -LT

054 D/F NON-ILLUMINATED BRANDED DIRECTIONAL W/ ER PP.E.84

Scale: 3/4"=1'-0" *(Scaled off of existing sign size)*

EXISTING SIGN SF:	17.3
PROPOSED SIGN SF:	25.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 4'-8" x 4'-4" SIGNAGE; RETURN LANDSCAPING TO EXISTING CONDITIONS

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City of Aurora Building Division
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Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
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Date: 7-15-2024
Sheet #: 19 OF 32

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ME #: 67448

SIGN - PP.E.84

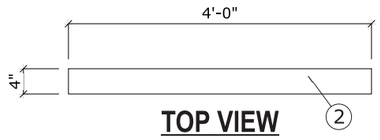
RSN:1815505 PERMIT#24-2448023 -LT

054 D/F NON-ILLUMINATED BRANDED DIRECTIONAL W/ ER

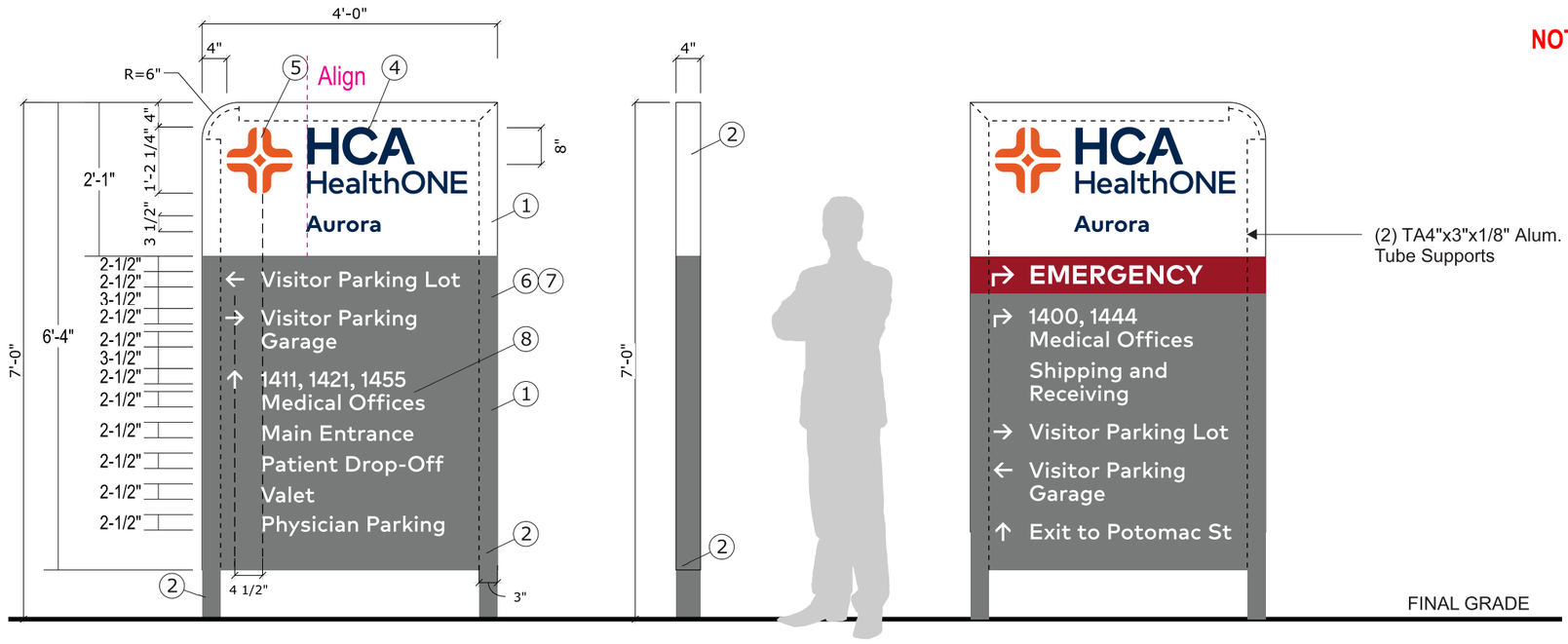
PP.E.84

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

25.3 square feet



TOP VIEW



SIDE A SIDE VIEW SIDE B

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

Notes:

1. Sign face(s) to be .125" aluminum. Form as shown. Paint finish with a White header and Slate body. Semi-gloss finish. Chemically weld to fabricated tube support frame. First surface film decorate per call outs.
2. 3"x4"x .125" aluminum tube frame. Miter cut and grind smooth at all exposed corners for a monolithic appearance. Provide horizontal member at bottom of sign face and top. Tube to be flush with sign face edge. Note: saw tooth cut and roll 3"x 1" x.125" aluminum channel to radius shown to complete top frame. Paint finish support tube frame to match the adjacent face, White and Slate, Slate for the exposed legs below the sign face. Extend support tube into a concrete foundation as required. No direct earth bury allowed.
3. All structural components including support tubes, concrete foundations, etc. to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
4. "HCA HealthONE" and facility name to be HCA Navy film. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
5. Diamond Plus to be HCA orange film 3630-124. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
6. Emergency band to be reflective red film #680-82 ruby red. Size as shown. First surface apply.
7. "Emergency" copy to be white reflective film #680-10. Apply first surface to red band. Type face to be Mark for HCA bold.
8. Directional copy and arrows to be white reflective film 3M 680-10. Size as shown. Typeface to be Mark for HCA medium. Verify all copy prior to fabrication.

QUANTITY: (1) One Directional Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Return landscaping to existing conditions

2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

MCFARLAND ENGINEERING IS NOT RESPONSIBLE FOR THE DIMENSIONAL LOCATIONS OF THE VERTICAL SUPPORTS

ALL AREAS OF ALUM. SUPPORT IN CONCRETE FOOTINGS TO HAVE (2) COATS OF PAINT FOR CORROSION RESISTANCE.

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Date: 7-15-2024
Sheet #: 20 OF 32

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ME #: 67448

SIGN - PP.E.84

RSN:1815505 PERMIT#24-2448023 -LT

087 D/F NON-ILLUMINATED BRANDED DIRECTIONAL W/ ER PP.E.84

Scale: 1/2"=1'-0" *(Scaled off of existing sign size)*

EXISTING SIGN SF:	15.2
PROPOSED SIGN SF:	25.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 5'-6" x 4'-4" SIGNAGE;
RETURN LANDSCAPING TO EXISTING CONDITIONS

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
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SIGN - PP.E.84

RSN:1815505 PERMIT#24-2448023 -LT

087 D/F NON-ILLUMINATED BRANDED DIRECTIONAL W/ ER

PP.E.84

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

25.3 square feet

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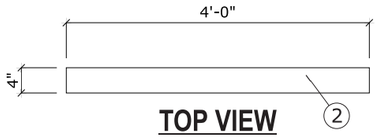
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2021 INTERNATIONAL CODES & 2023 NEC

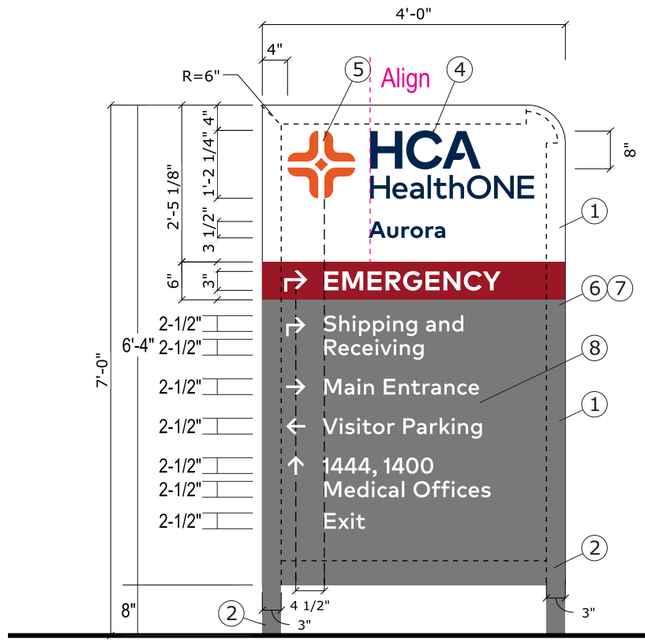
Notes:

1. Sign face(s) to be .125" aluminum. Form as shown. Paint finish with a White header and Slate body. Semi-gloss finish. Chemically weld to fabricated tube support frame. First surface film decorate per call outs.
2. 3"x4"x .125" aluminum tube frame. Miter cut and grind smooth at all exposed corners for a monolithic appearance. Provide horizontal member at bottom of sign face and top. Tube to be flush with sign face edge. Note: saw tooth cut and roll 3"x 1" x.125" aluminum channel to radius shown to complete top frame. Paint finish support tube frame to match the adjacent face, White and Slate, Slate for the exposed legs below the sign face. Extend support tube into a concrete foundation as required. No direct earth bury allowed.
3. All structural components including support tubes, concrete foundations, etc. to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
4. "HCA HealthONE" and facility name to be HCA Navy film. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
5. Diamond Plus to be HCA orange film 3630-124. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
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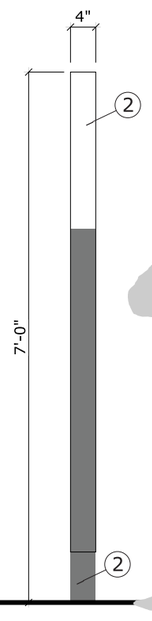
QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Return landscaping to existing conditions

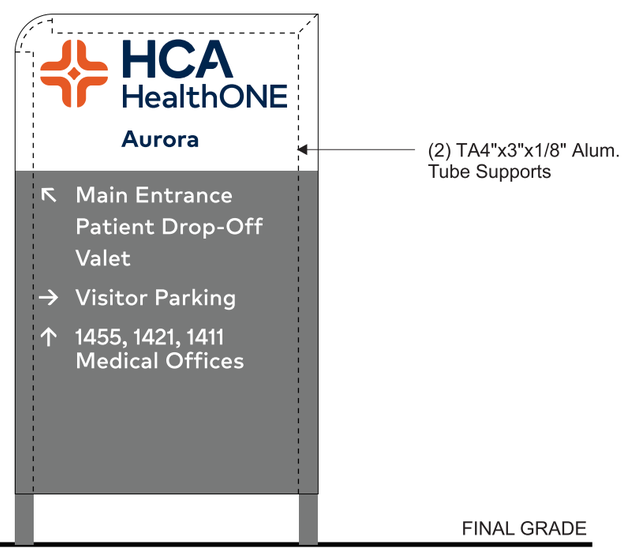




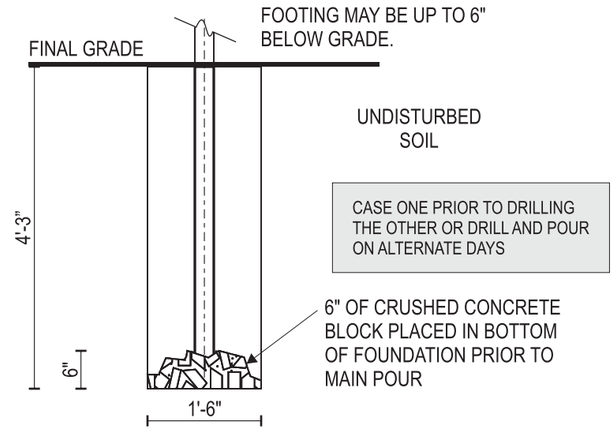
SIDE A



SIDE VIEW



SIDE B



2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

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Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Sheet #: 22 OF 32

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ME #: 67448

SIGN - PP.84

RSN:1815505 PERMIT#24-2448023 -LT

256 D/F NON-ILLUMINATED BRANDED DIRECTIONAL

PP.84

Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	26
PROPOSED SIGN SF:	24



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 7'-5" x 4'-4" POST & PANEL SIGN; RETURN LANDSCAPING TO EXISTING CONDITIONS

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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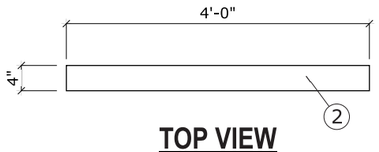
RSN:1815505 PERMIT#24-2448023 -LT

256 D/F NON-ILLUMINATED BRANDED DIRECTIONAL

PP.84

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

24 square feet



TOP VIEW

Notes:

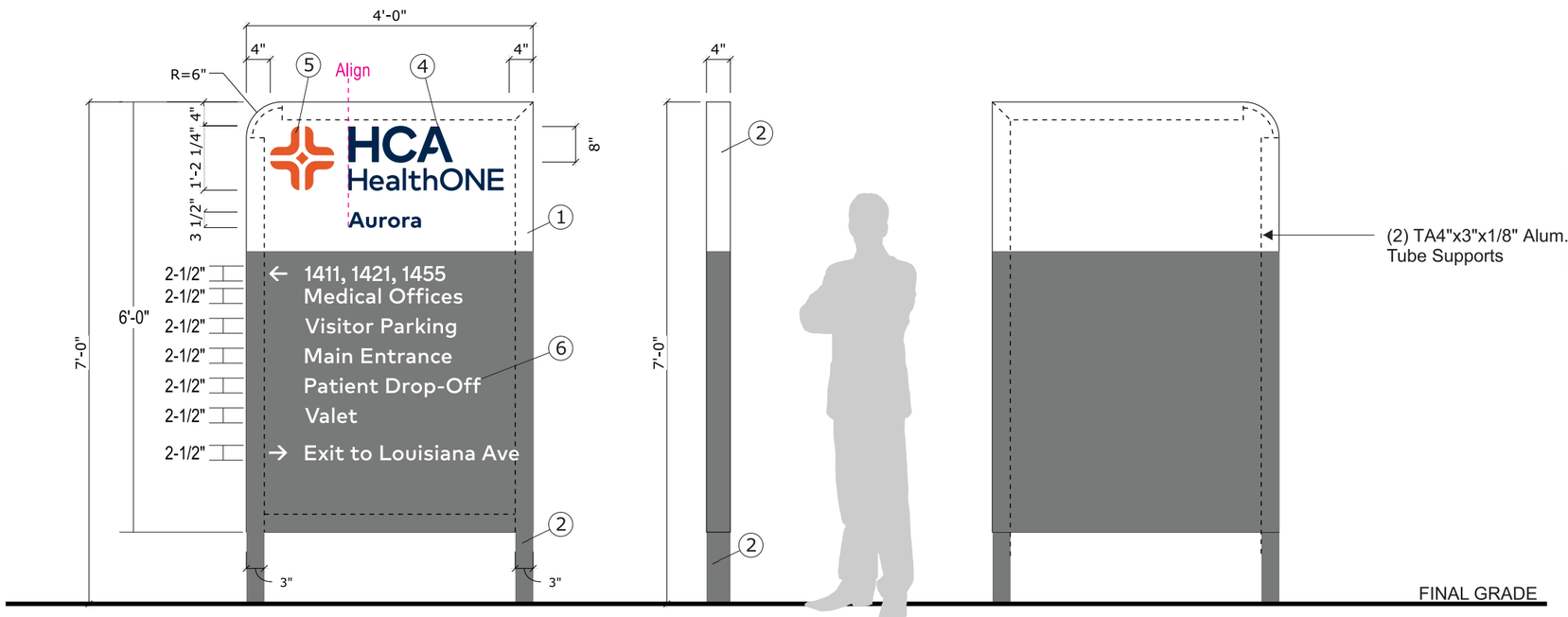
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QUANTITY: (1) One Required

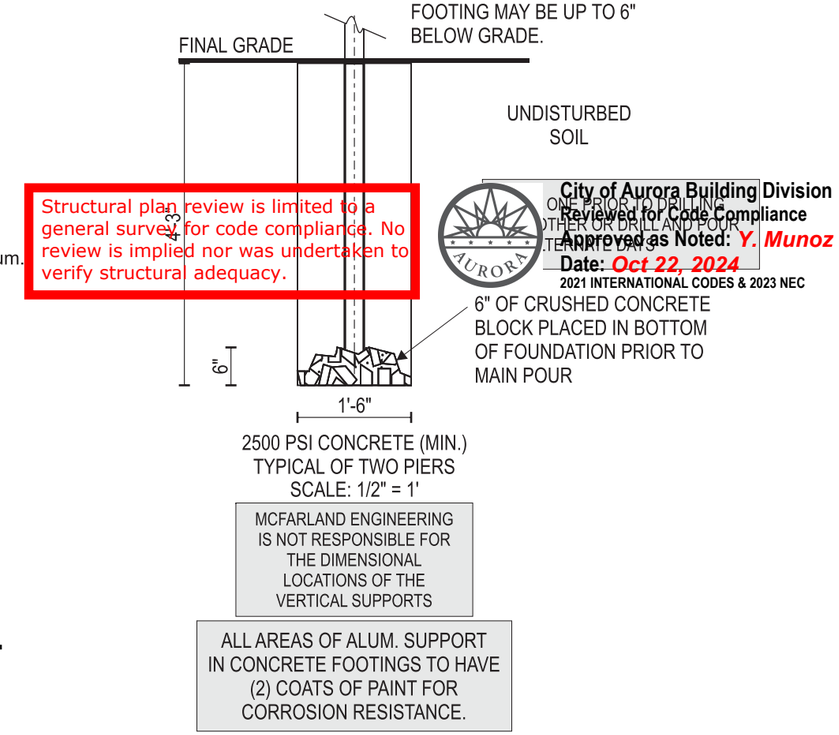
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Return landscaping to existing conditions

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SIDE A SIDE VIEW SIDE B



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Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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Date: 7-15-2024
Sheet #: 24 OF 32

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Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PP.84

RSN:1815505 PERMIT#24-2448023 -LT

262 D/F NON-ILLUMINATED BRANDED DIRECTIONAL

PP.84

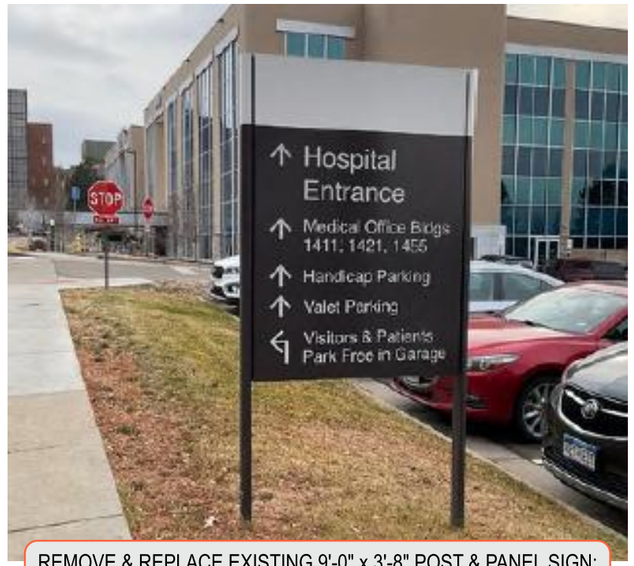
Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	17.4
PROPOSED SIGN SF:	25.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 9'-0" x 3'-8" POST & PANEL SIGN; RETURN LANDSCAPING TO EXISTING CONDITIONS

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 25 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PP.84

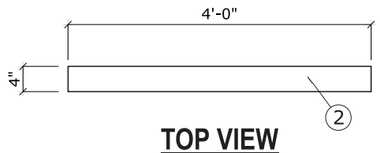
RSN:1815505 PERMIT#24-2448023 -LT

262 D/F NON-ILLUMINATED BRANDED DIRECTIONAL — PP.84

Scale: 1/2"=1'-0" — 25.3 square feet

Notes:

1. Sign face(s) to be .125" aluminum. Form as shown. Paint finish with a White header and Slate body. Semi-gloss finish. Chemically weld to fabricated tube support frame. First surface film decorate per call outs.
2. 3"x4"x .125" aluminum tube frame. Miter cut and grind smooth at all exposed corners for a monolithic appearance. Provide horizontal member at bottom of sign face and top. Tube to be flush with sign face edge. Note: saw tooth cut and roll 3"x 1" x.125" aluminum channel to radius shown to complete top frame. Paint finish support tube frame to match the adjacent sign face White and Slate, Slate for the exposed legs below the sign face. Extend support tube into a concrete foundation as required. No direct earth bury allowed.
3. All structural components including support tubes, concrete foundations, etc. to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes
4. "HCA HealthONE" and facility name to be HCA Navy film. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
5. Diamond Plus to be HCA orange film 3630-124. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
6. Directional copy and arrows to be white reflective film 3M 680-10. Size as shown. Typeface to be Mark for HCA medium. Verify all copy prior to fabrication.



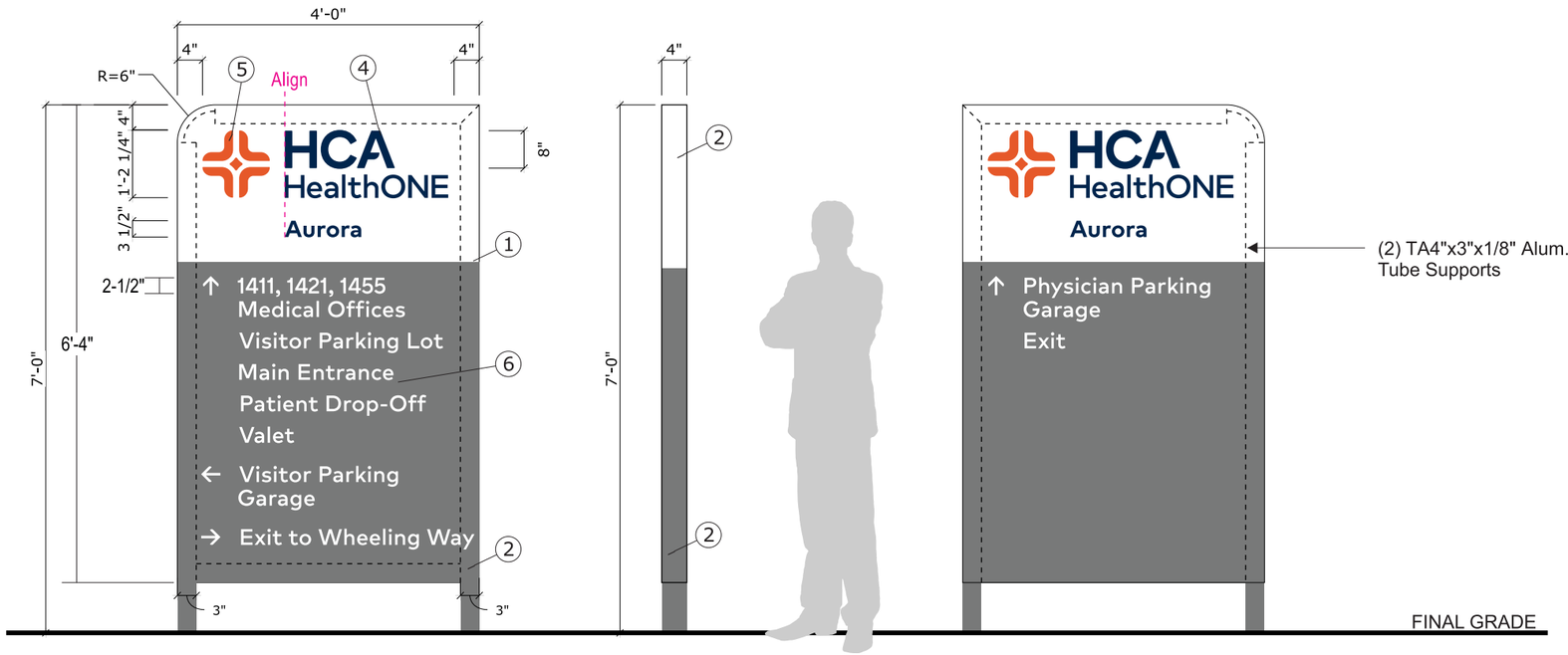
TOP VIEW

QUANTITY: (1) One Required

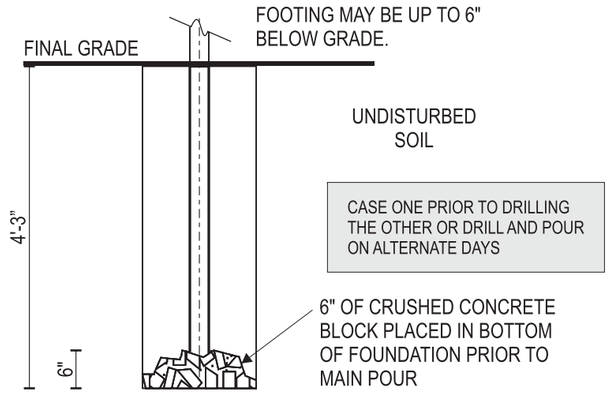
NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Return landscaping to existing conditions

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City of Aurora Building Division
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SIDE A — SIDE VIEW — SIDE B



CASE ONE PRIOR TO DRILLING THE OTHER OR DRILL AND POUR ON ALTERNATE DAYS

2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

MCFARLAND ENGINEERING IS NOT RESPONSIBLE FOR THE DIMENSIONAL LOCATIONS OF THE VERTICAL SUPPORTS

ALL AREAS OF ALUM. SUPPORT IN CONCRETE FOOTINGS TO HAVE (2) COATS OF PAINT FOR CORROSION RESISTANCE.

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Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

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Date: 7-15-2024
Sheet #: 26 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

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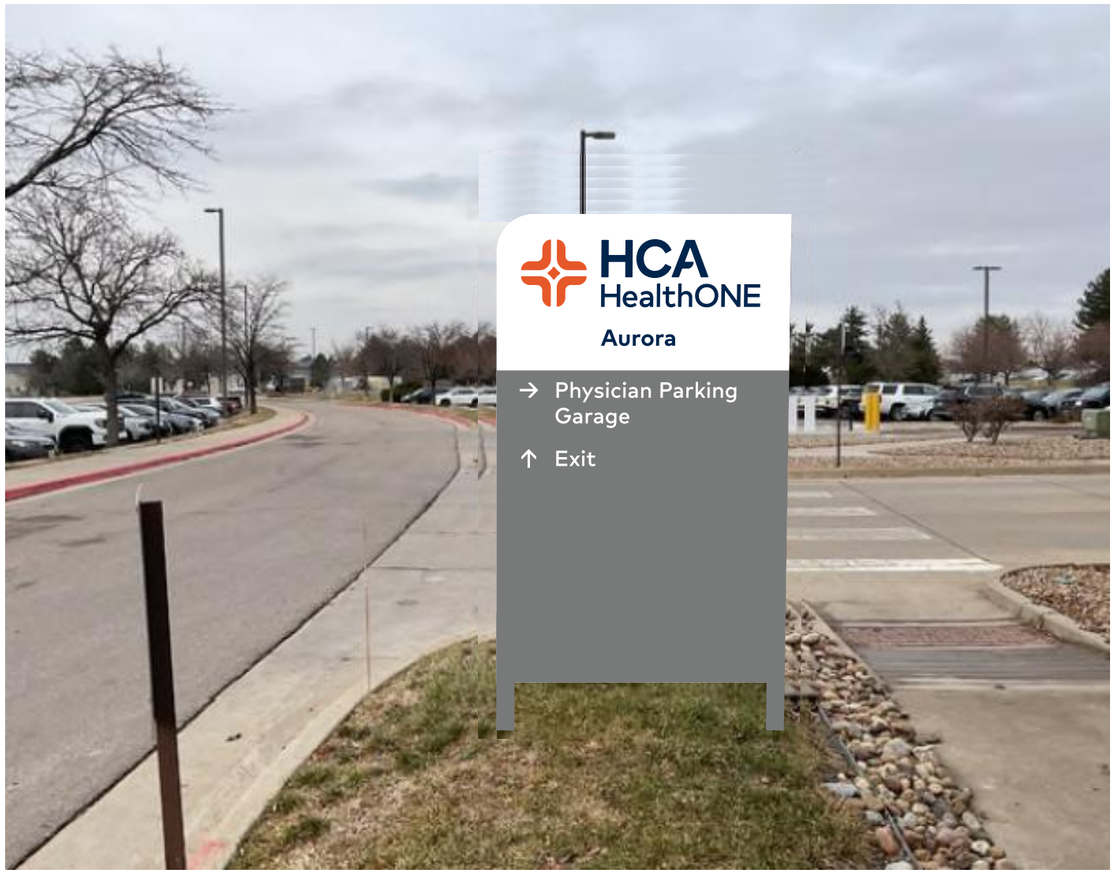
SIGN - PP.84

RSN:1815505 PERMIT#24-2448023 -LT

263 D/F NON-ILLUMINATED BRANDED DIRECTIONAL PP.84

Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	26
PROPOSED SIGN SF:	25.3



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 7'-9" x 4'-4" POST & PANEL SIGN; RETURN LANDSCAPING TO EXISTING CONDITIONS

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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ME #: 67448

SIGN - PP.84

RSN:1815505 PERMIT#24-2448023 -LT

263 D/F NON-ILLUMINATED BRANDED DIRECTIONAL

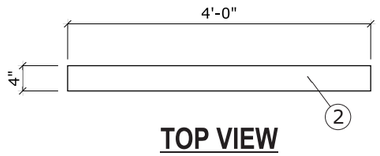
PP.84

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

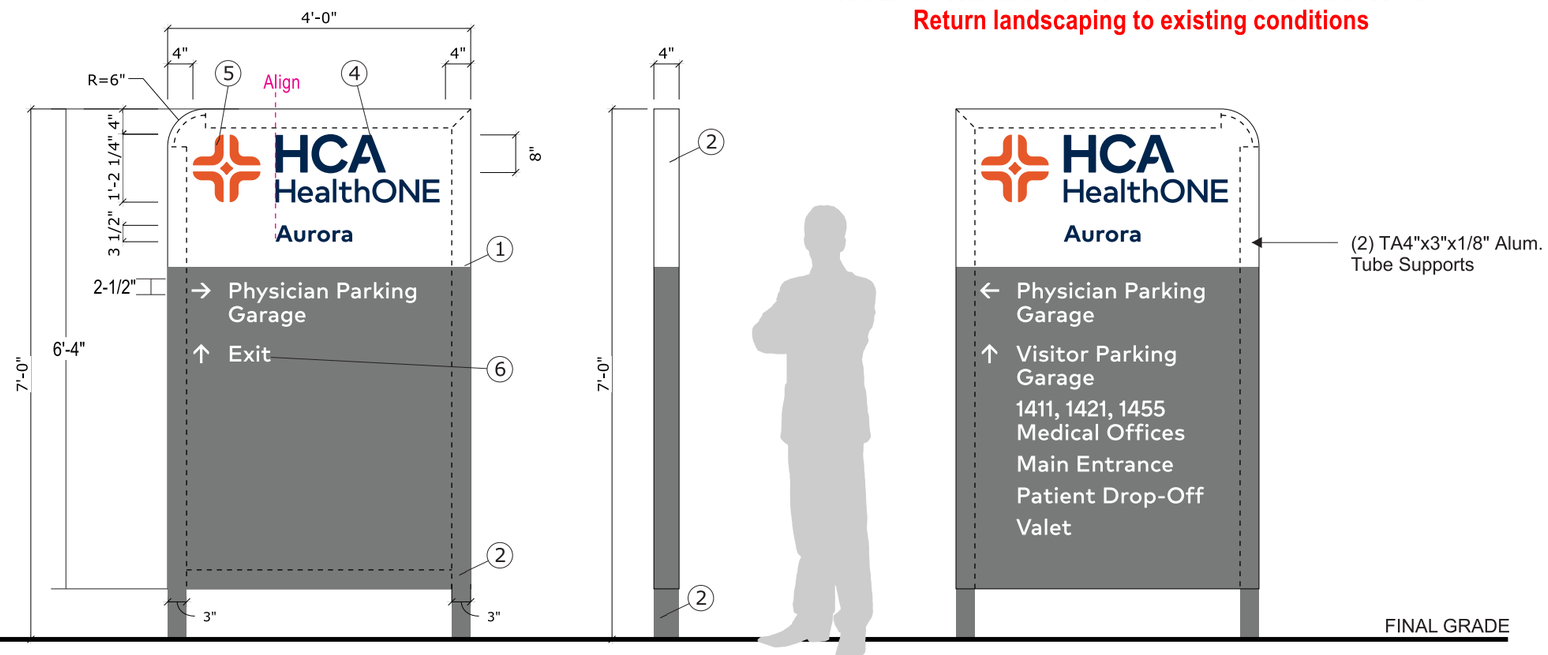
25.3 square feet

Notes:

1. Sign face(s) to be .125" aluminum. Form as shown. Paint finish with a White header and Slate body. Semi-gloss finish. Chemically weld to fabricated tube support frame. First surface film decorate per call outs.
2. 3"x4"x .125" aluminum tube frame. Miter cut and grind smooth at all exposed corners for a monolithic appearance. Provide horizontal member at bottom of sign face and top. Tube to be flush with sign face edge. Note: saw tooth cut and roll 3"x 1" x.125" aluminum channel to radius shown to complete top frame. Paint finish support tube frame to match the adjacent sign face White and Slate, Slate for the exposed legs below the sign face. Extend support tube into a concrete foundation as required. No direct earth bury allowed.
3. All structural components including support tubes, concrete foundations, etc. to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes
4. "HCA HealthONE" and facility name to be HCA Navy film. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
5. Diamond Plus to be HCA orange film 3630-124. Use artwork provided by designer. Overlam individual letters with 3M 3660M overlaminate.
6. Directional copy and arrows to be white reflective film 3M 680-10. Size as shown. Typeface to be Mark for HCA medium. Verify all copy prior to fabrication.



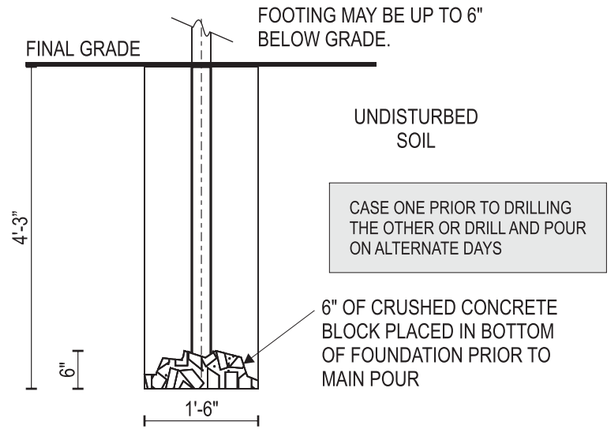
TOP VIEW



SIDE A **SIDE VIEW** **SIDE B**

QUANTITY: (1) One Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS
Return landscaping to existing conditions



2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

MCFARLAND ENGINEERING IS NOT RESPONSIBLE FOR THE DIMENSIONAL LOCATIONS OF THE VERTICAL SUPPORTS

ALL AREAS OF ALUM. SUPPORT IN CONCRETE FOOTINGS TO HAVE (2) COATS OF PAINT FOR CORROSION RESISTANCE.

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

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ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

Digitally signed by: Sean M. McFarland
1BDD47...

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 28 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PY.E.120.I

RSN:1815505 PERMIT#24-2448023 -LT

253 D/F 10'-0" ILLUMINATED PYLON W/ ER

PY.E.120.I

Scaled Proportionally *(Scaled off of existing sign size)*

EXISTING SIGN SF:	111.4
PROPOSED SIGN SF:	54.1



PROPOSED SIGNAGE

EXISTING CONDITIONS



REMOVE & REPLACE EXISTING 10'-6" x 15'-11" PYLON;
RETURN LANDSCAPING TO EXISTING CONDITIONS;
FACILITIES/ELECTRICIAN TO VERIFY IF EXISTING ELECTRIC AVAILABLE/OR IF NEW ELECTRICAL NEEDS TO BE SUPPLIED

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Initial Drawing: (67448) DS

COLORADO REGISTERED SEAN M. McFARLAND 38348 PROFESSIONAL ENGINEER

Document Signed by: Sean Farland 1BDD4704B...

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Sheet #: 29 OF 32

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SIGN - PY.E.120.I

RSN:1815505 PERMIT#24-2448023 -LT

253 D/F 10'-0" ILLUMINATED PYLON W/ ER

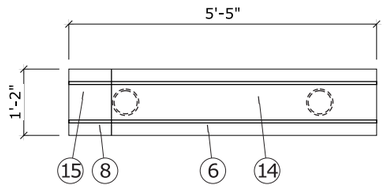
PY.E.120.I

Scale: 3/8"=1'-0"

54.1 Square Feet

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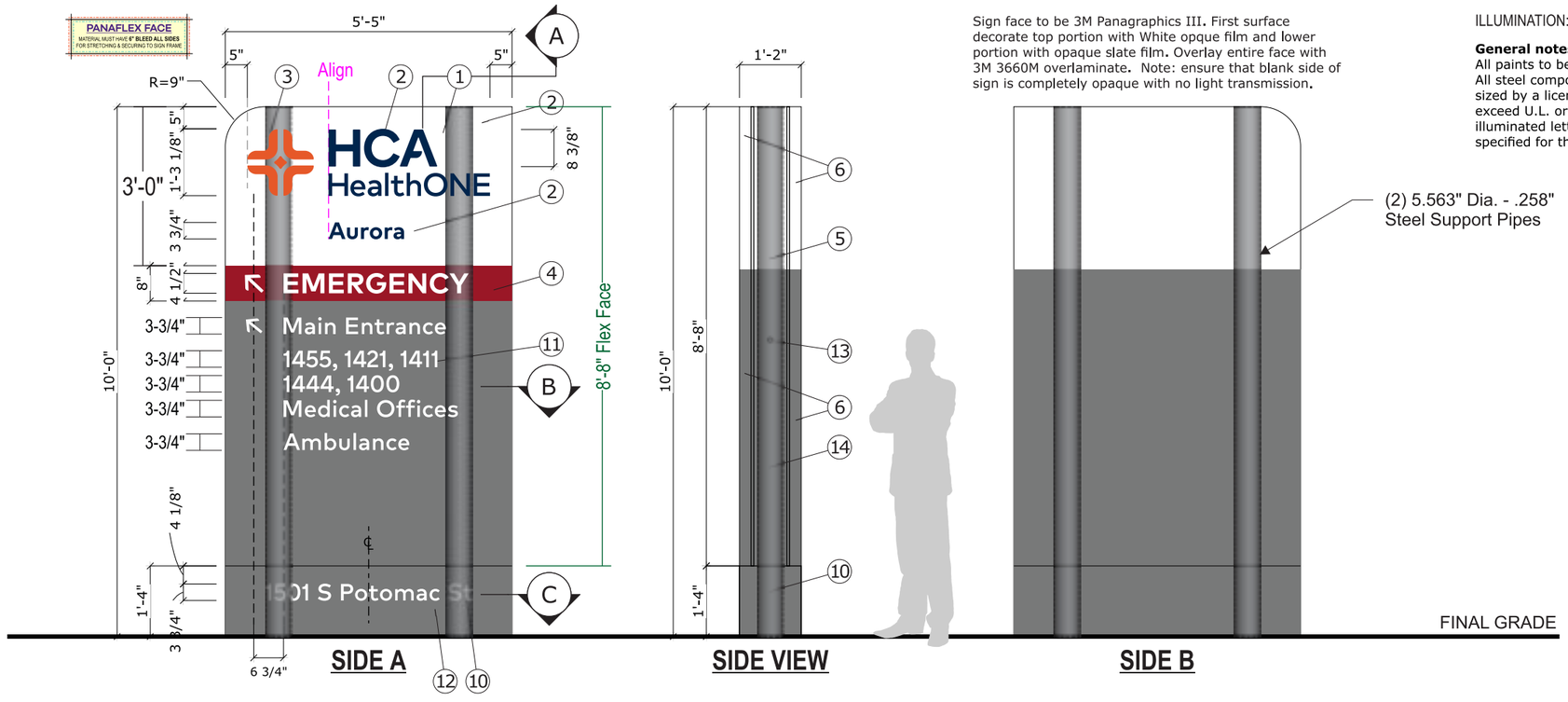
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC



TOP VIEW

QUANTITY: (1) One Pylon Required

NOTE: FACILITIES TO CONFIRM ARROW DIRECTIONS RETURN LANDSCAPING TO EXISTING CONDITIONS – *FACILITIES/ELECTRICIAN TO VERIFY IF EXISTING ELECTRIC AVAILABLE/OR IF NEW ELECTRICAL NEEDS TO BE SUPPLIED*



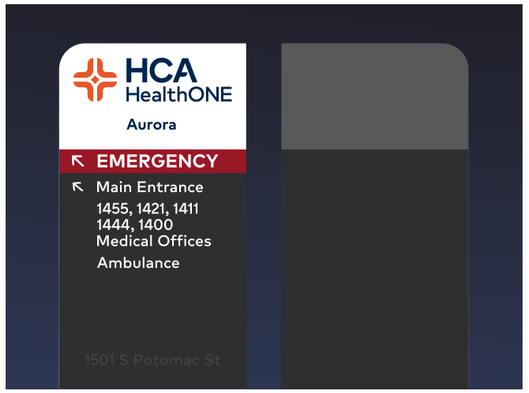
Sign face to be 3M Panagraphics III. First surface decorate top portion with White opque film and lower portion with opaque slate film. Overlay entire face with 3M 3660M overlaminate. Note: ensure that blank side of sign is completely opaque with no light transmission.

Notes:

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Typeface to be Mark for HCA Bold. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Sign body filler to be SignComp wide body filler #2005. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
6. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
7. 9" radiused filler body piece to be SignComp #4100. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
8. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Sem-gloss finish.
9. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
10. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
11. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
12. Address copy to be white reflective film 3M 680-10 white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
13. Location of photocell when required.
14. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
15. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.

ILLUMINATION: Internally illuminate with White led's as required by manufacturer. Power supplies housed within cabinet.

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions



SIMULATED NIGHT VIEW

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Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

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Date: 7-15-2024
Sheet #: 30 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
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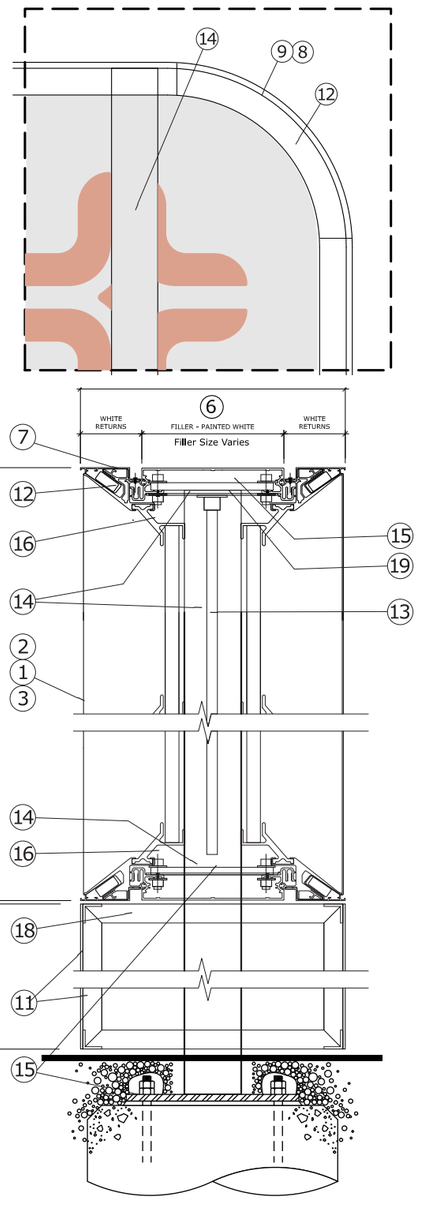
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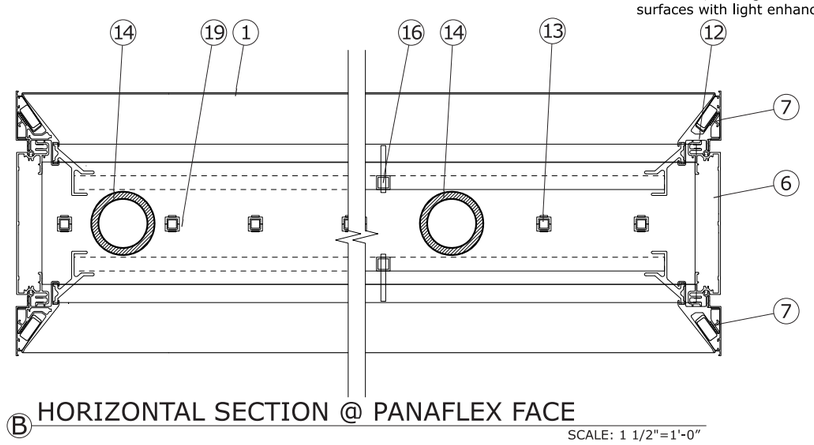
252
253

ILLUMINATED PYLON SECTION DETAILS

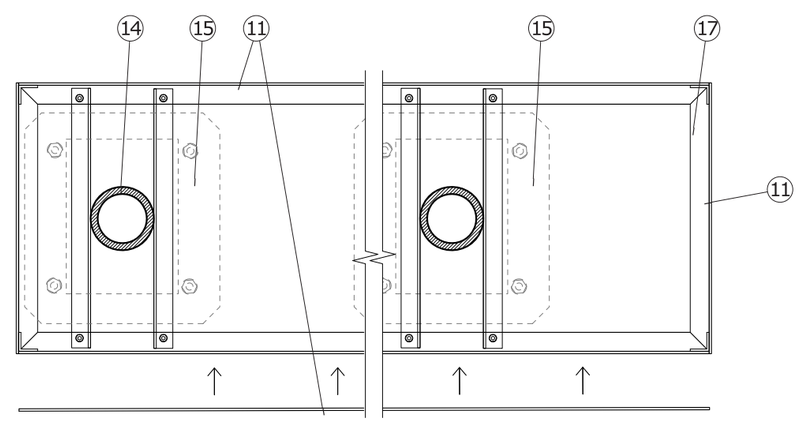
RSN-1815505 PERMIT#24-2448023 -LT



A VERTICAL SECTION
SCALE: 1 1/2"=1'-0"



B HORIZONTAL SECTION @ PANAFLEX FACE
SCALE: 1 1/2"=1'-0"



C HORIZONTAL SECTION @ REMOVABLE BASE CLADDING
SCALE: 1 1/2"=1'-0"

Notes

1. Sign face to be 3M Panagraphics III. First surface decorate per call outs. Overlay entire face with 3M 3660M overlaminate.
2. Film decorate "HCA HealthONE" and facility name with 3M 3630-8695 HCA Navy. Use artwork provided by designer. Verify all copy prior to fabrication.
3. Diamond Plus Mark to be 3M 3630-124 HCA orange over 3635-30 diffuser film. Use artwork provided by designer.
4. Emergency strip to be 3M 3630-53 Crimson red, copy to reverse out white. Typeface to be Mark for HCA Bold.
5. Directional copy background to be first surface decorated with opaque slate film, copy to reverse out white. Typeface to be Mark for HCA Medium. Verify all copy prior to fabrication.
6. Sign body filler to be SignComp medium body filler #2015. Form as shown. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. paint finish interior surfaces with light enhancement paint.
7. Extrusion cover for flex face retainer to be SignComp #2095. Paint finish all exterior exposed surfaces to match adjacent sign face, slate and white, semi-gloss finish. Attach with countersunk flathead stainless steel screws. Paint heads to match.
8. 9" radiused filler body piece to be SignComp #4050. Paint finish all exposed surfaces White. Semi-gloss finish. Paint finish interior surfaces with light enhancement paint.
9. 9" radiused extrusion cover to be SignComp #4260P. Paint finish exterior surfaces White. Semi-gloss finish.
10. .125" aluminum cladding. Form as shown. Paint finish Slate. Semi-gloss finish.
11. .125" aluminum base cladding. Form as shown. Paint finish Slate. Semi-gloss finish. Make one side removable for bolt access.
12. Flex face retention extrusion to be SignComp #2086. Miter cut at square corners for monolithic appearance. Hinge along top for access. Note: 9" radiused retention extrusion to be SignComp # 4250.
13. LED illumination to be Current Powerstrip DS as required to provide even illumination across sign face without hot spots or shadows. LED manufacturer to provide layouts, module specification, and power supply requirements.
14. Round steel support tube as required to be sized by a licensed structural engineer to meet or exceed all applicable local, state, and national codes. Paint finish with light enhancement paint. Weld steel match plate at bottom for foundation attachment. Weld steel top plate for bolt attachment of extrusion filler bodies. Weld additional plate as required to pick up the lower horizontal sign filler body extrusion.
15. Steel match plate, anchor bolts, concrete foundation and reinforcement to be sized by a licensed structural engineer to meet or exceed all applicable local, state and national codes.
16. Provide SignComp small face brace #5352 and 1" sq. tube supports as required to maintain face rigidity.
17. Provide aluminum angle framing as required for support of base cladding. Bolt attach to steel angles welded to steel support tubes.
18. Steel angles welded to steel support tube to provide attachment surface for bolt connection of angle frame at base.
19. SignComp raceway cover #5116.
20. Provide prop rods as required to support face during servicing.

Lighting control devices
Existing locations
For existing locations where we are replacing currently illuminated signage, determine through tech audit if circuit is currently controlled by:
a. Building mounted photocell
b. Signage mounted photocell
c. Astronomical time clock.
d. If building mounted photocell or astronomical timers exist on signage circuits, tie into existing circuit. If sign-based photocell, provide photocell for new signage on sign or side facing away from primary street at installation location.

New locations
For new locations without previous signage, provide the following:
a. For channel letter sets provide an astronomical timer at panel to control lighting from dusk till dawn.
b. For free standing signs, provide a photocell on sign on side facing away from primary street at installation location.

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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Oct 22, 2024*
2021 INTERNATIONAL CODES & 2023 NEC

General notes
All paints to be two-part polyurethane by Matthews Paints. Semi-gloss finish. - All film to be 3M unless otherwise stated. - All steel components to be primed with a zinc inhibitor (Devcon-z or approved equal). - All structural components to be sized by a licensed structural engineer to meet or exceed all local, state, and national codes. - All electrical work to meet or exceed U.L. or CE requirements. - All exposed fasteners to be painted to match cabinet. - Electrical leads from the back of illuminated letters to be a minimum of 6'-0" (2 meters) long as measured from the back of the letter. All extrusions specified for this project to be by SignComp. No unapproved substitutions

Pantone

HCA Navy	PMS 289c
HCA Orange	PMS 7579c
Slate	PMS 424c
Crimson red	PMS 7427c

Paints

HCA Navy	Matthews Mp62320
HCA Orange	Matthews Mp72663
Slate	Matthews Mp58477
Crimson Red	Matthews Mp83154
White	Matthews Mp11477
Black	Matthews Mp70431

Vinyls opaque

HCA Navy	3M 3630-8695 (white bkg only)
HCA Orange	3M 3630-124 (white bkg only)
Slate	3M 180c-41 dark gray
White	3M 7725-10
Black	3M 180c-12
HCA Navy (dual color)	3M DN00545

Vinyls translucent

HCA Navy	3M 3630-8695
HCA Orange	3M 3630-124 w/diffuser
Crimson Red	3M 3630-53
White	3M 3630-20
Diffuser	3M 3635-30 (41% diffusion)

Vinyls reflective

Crimson Red	3M 680-82 Ruby red
White	3M 680-10

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
Structural Sign Design & Engineering Services
Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

ENGINEERING OF VERTICAL SUPPORT AND FOUNDATION ONLY. NO CABINET ENGINEERING PROVIDED OR IMPLIED.

Initial Drawing: (67448) DS

COLORADO REGISTERED PROFESSIONAL ENGINEER
SEAN M. McFARLAND
38348

The electronic seal appearing on this document was authorized by Sean M. McFarland, PE on July 15, 2024.

Date: 7-15-2024
Sheet #: 31 OF 32

NC Firm Registration: F-1136
Colorado License Number: 38348
Colorado Expiration Date: 10/31/25

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

ME #: 67448

SIGN - PY.E.120.I

RSN:1815505 PERMIT#24-2448023 -LT

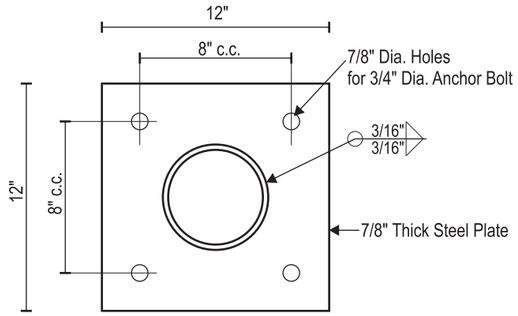
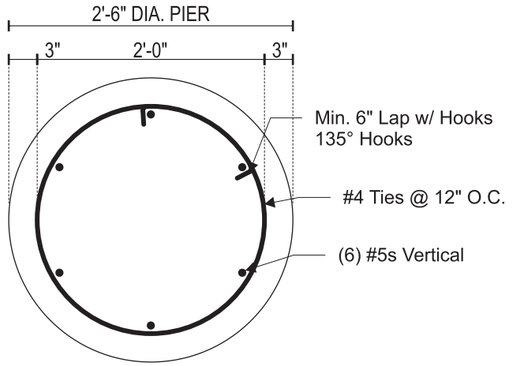


PLATE DETAIL
1-1/2"=1'-0"
A307 Anchor Bolts
A36 Steel Plate



PLAN VIEW
3/4"=1'-0"
2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS

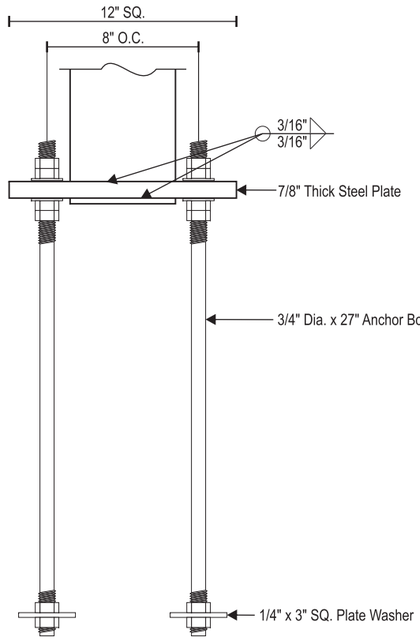
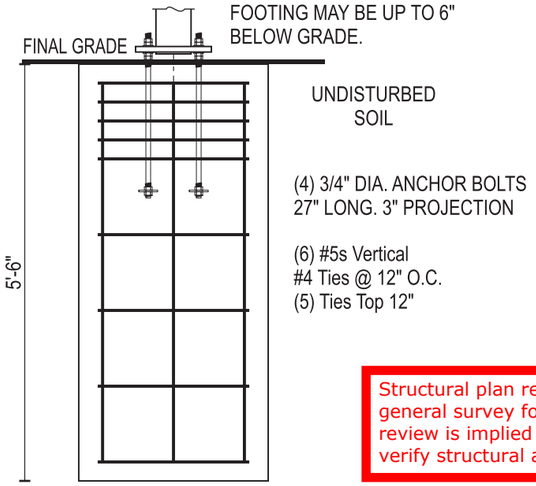


PLATE DETAIL
1 1/2"=1'-0"
A307 Anchor Bolts
A36 Steel Plate



2500 PSI CONCRETE (MIN.)
TYPICAL OF TWO PIERS
SCALE: 1/2" = 1'

MCFARLAND ENGINEERING IS NOT RESPONSIBLE FOR THE DIMENSIONAL LOCATIONS OF THE VERTICAL SUPPORTS

Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: ***Y. Munoz***
Date: ***Oct 22, 2024***
2021 INTERNATIONAL CODES & 2023 NEC

McFarland Engineering
183 Edgewater Cr
Mocksville, NC 27028
Structural Sign Design & Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

THE MEDICAL CENTER OF AURORA CO-027
Address: 1501 S POTOMAC ST
City/State: AURORA, CO
Client: STRATUS

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Initial Drawing: (67448) DS

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Date: 7-15-2024
Sheet #: 32 OF 32

NC Firm Registration: F-1136
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Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

RSN:1815505 PERMIT#24-2448023 -LT

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	1 OF 3
Client:	**Stratus**	Overall Height:	8'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

Sign Description — 1501 S Potomac St

Columns: 2

ME Job: 67448 PY.96.I/PY.E.96.I/CUST-PY-E.96.I

BASE PLATE / ANCHOR BOLTS

Height: 8'-0"

ULTIMATE LOADS

Width: 5'-5"

42 KSI STEEL PIPE

Table of Contents

Content:	Page
Design Loads	1
Support Design	1-2
General Notes	3

Structural Variables and Code Loading Specifications

Cabinet Type:	Miscellaneous	Code:	2021 IBC
Structural Section:	Steel Pipe - 42000psi	Wind Speed:	110
Number of Zones:	2	Wind Exposure:	C

Wind Loads Per ASCE 7-16

Sign Sections:

Zone	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
1	20	9.1 #/FT	
2	15	9.1 #/FT	y
3	0		
4	0		
5	0		
6	0		
7	0		
8	0		

COLORADO REGISTERED PROFESSIONAL ENGINEER SEAN M. McFARLAND 38348

State License: Colorado - 38248

Geometry:

Zone	Top Elevation	Height	* Approx. Width	Pressure	Force	Approx. Weight
1	8.00 FT	3.00 FT	5.42 FT *	36.02 PSF	0.59 K	380 #
2	5.00 FT	5.00 FT	5.42 FT *	34.60 PSF	0.94 K	498 #
			Total Wind Force =		1.52 K	877 #

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Date:	7/15/24	City, State:	Aurora, CO	SHEET: 2 OF 3
Client:	**Stratus**	Overall Height:	8'-0"	Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph	McFarland Engineering

1501 S Potomac St

ME Job: 67448 PY.96.I/PY.E.96.I/CUST-PY-E.96.I

Moments at Transitions:

Zone	Lateral Force	2 Mom. Arm
1	0.59 K	6.50 FT
2	0.94 K	2.50 FT
		6.15 K-FT
Section Properties:	2.00 IN^3	.00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3

Structural Sections to be used:

Zone	Option	Pipe Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
2	Pipe	4.00 IN	0.226 IN	9.1 #/FT	2.25 IN^3	17.70	2.00 IN^3

Structure Required

# Req'd	Size	Wall Thickness
2	4.00 IN	0.226 IN

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	3 OF 3
Client:	**Stratus**	Overall Height:	8'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

1501 S Potomac St

ME Job: 67448 PY.96.I/PY.E.96.I/CUST-PY-E.96.I

Two Pier Footings

Pier Footing Design:

d = A / 2 * (1 + (1 + (4.36 * h) / A)^1/2))

where A = (2.34 * P) / (S1 * b)

Select the footing and soil type:

Footing: Round

Vert. Soil Bearing (psf): 1500

Lat. Soil Bearing (psf): 150

Mmax =	4,613 #-FT	
Pmax (Lateral) =	1,142 #	
LSBP =	150 PCF	
S1 =	502 PCF	X d
d =	2.000 FT	*For use with Round Footing*
A =	2.66 FT^2	
h =	4.038 FT	
d =	5.005 FT	

USE: 2.00 FT. RND. X 5.25 FT DEEP PIERS w/ (6) #5's VERTICAL w/ #4's @ 12" O.C. (5 Ties Top 12")

Soil Bearing Check:

DLmax =	877 LBS	
Area of Footing =	3.14 FT^2	
Actural SBP =	279 PSF	
Allowable SBP =	1,275 PSF	(Includes code allowed 20% increase for every foot of footing below 12" into natural grade.)

279 PSF < 1,275 PSF THEREFORE OK

Baseplate Design -

		A36 Steel	Fy= 36ksi		
D =	4.00 IN	E70 Electrodes	Fw= 928 #/in/16th		
e =	1.50 IN	A307 A.B.'s	Ft=20 ksi		
b eff =	3.75 IN	# of Bolts =	4	Dia. Bolt	0.625
e eff =	2.25 IN	Column Mom =	4,613 #-FT		
Baseplate t =	0.75 IN				

P Bolt = M * 12 (in/ft) / 2 bolts (D + e + t) — 4,429 # < 6,100 #

t req'd = [(6*P*e eff* 1 bolt)/(.75*Fy(b eff + 2*t))]^1/2 — .649 IN < 0.75 IN

Weld = M * 12 (in/ft) / Fw (3.1415 * D^2/4) — 4.75 16th's < (2) 3.00 16th's

USE: (4) 5/8" Dia. Bolts w/ 3/4" Baseplate. Weld to Support with (2) 3/16" Fillet Welds.

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

RSN:1815505 PERMIT#24-2448023 -LT

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	1 OF 3
Client:	**Stratus**	Overall Height:	7'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

Sign Description 1501 S Potomac St

Columns: 2

ME Job: 67448 PP.E.84/PP.84

ULTIMATE LOADS

Height: 7'-0"

Width: 5'-5"

CAP AND PAINT ALL ALUMINUM IN DIRECT CONTACT WITH CONCRETE

Table of Contents

Content:	Page
Design Loads	1
Support Design	1-2
General Notes	3

Structural Variables and Code Loading Specifications

Cabinet Type:	Miscellaneous	Code:	2021 IBC
Structural Section:	Tube Alum - 28000psi	Wind Speed:	110
Number of Zones:	2	Wind Exposure:	C

Wind Loads Per ASCE 7-16

Sign Sections:

Zone	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
1	20	2.0 #/FT	
2	0	2.0 #/FT	y
3	0		
4	0		
5	0		
6	0		
7	0		
8	0		

COLORADO REGISTERED PROFESSIONAL ENGINEER SEAN M. McFARLAND 38348

State License: Colorado - 38248

Geometry:

Zone	Top Elevation	Height	* Approx. Width	Pressure	Force	Approx. Weight
1	7.00 FT	6.33 FT	4.00 FT *	38.36 PSF	0.97 K	531 #
2	0.67 FT	0.67 FT	0.50 FT *	28.24 PSF	0.01 K	3 #
				Total Wind Force =	0.98 K	534 #

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Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

Date:	7/15/24	City, State:	Aurora, CO	SHEET: 2 OF 3
Client:	**Stratus**	Overall Height:	7'-0"	Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph	McFarland Engineering

1501 S Potomac St

ME Job: 67448 PP.E.84/PP.84

Moments at Transitions:

Zone	Lateral Force	2 Mom. Arm
1	0.97 K	3.84 FT
2	0.01 K	0.34 FT
		3.73 K-FT
Section Properties:	1.60 IN^3	.00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3

Structural Sections to be used:

Zone	Option	Alum Tubes Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
2	Alum Tubes	4x3	0.125 IN	2.0 #/FT	1.76 IN^3	24.00	1.60 IN^3

Structure Required

# Req'd	Size	Wall Thickness
2	4x3	0.125 IN

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	3 OF 3
Client:	**Stratus**	Overall Height:	7'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

1501 S Potomac St

ME Job: 67448 PP.E.84/PP.84

Two Pier Footings

Pier Footing Design:

d = A / 2 * (1 + (1 + (4.36 * h) / A)^1/2))

where A = (2.34 * P) / (S1 * b)

Select the footing and soil type:

Footing: Round

Vert. Soil Bearing (psf): 1500

Lat. Soil Bearing (psf): 150

Mmax =	1,864 #-FT	
Pmax (Lateral) =	490 #	
LSBP =	150 PCF	
S1 =	396 PCF	X d
d =	1.500 FT	*For use with Round Footing*
A =	1.93 FT^2	
h =	3.801 FT	
d =	3.955 FT	
USE:	1.50 FT. RND. X	4.25 FT DEEP PIERS

Soil Bearing Check:

DLmax =	534 LBS	
Area of Footing =	1.77 FT^2	
Actural SBP =	302 PSF	
Allowable SBP =	975 PSF	(Includes code allowed 20% increase for every foot of footing below 12" into natural grade.)

302 PSF < 975 PSF THEREFORE OK

General Notes

1. Contractor shall verify all dimensions and conditions on job site
2. Structural steel pipe shall conform to ASTM A53 grade B type E or S, Fy=35 ksi min.
3. Structural steel tube shall conform to ASTM A500 grade B, Fy=46 ksi min.
4. Structural steel shapes and plates shall conform to ASTM A36.
5. Welding shall conform to AISC specs or local codes and performed by certified welder using arc process E70XX electrodes.
6. Isolate Aluminum from Steel
7. All bolt holes to be drilled or punched.
8. 2500 psi (min) 28-day Concrete Compressive Strength
9. All electrical work to conform to the requirements of UL48 and section 600 of NEC.
10. UL and Data labels required
11. Sign to be a minimum of 6-ft horizontal & 12-ft vertical from high voltage wires.
12. If there is no stub pipe to be used in the top cabinet, the supporting member immediately below the stub pipe shown can be extended to the top of the uppermost cabinet.
13. All Pipe sizes shown are minimum sizes. Pipe with a larger diameter and/or greater Sxx may be substituted
14. All structural lengths required are approximations only. Actual length may vary slightly depending on sign cabinet conditions.

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

RSN:1815505 PERMIT#24-2448023 -LT

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	1 OF 3
Client:	**Stratus**	Overall Height:	10'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

Sign Description — 1501 S Potomac St

Columns: 2
ME Job: 67448 PY.E.120.I
BASE PLATE / ANCHOR BOLTS
Height: 10'-0"
ULTIMATE LOADS
Width: 5'-5"
42 KSI STEEL PIPE

Table of Contents

Content:	Page
Design Loads	1
Support Design	1-2
General Notes	3

Structural Variables and Code Loading Specifications

Cabinet Type:	Miscellaneous	Code:	2021 IBC
Structural Section:	Steel Pipe - 42000psi	Wind Speed:	110
Number of Zones:	2	Wind Exposure:	C

Wind Loads Per ASCE 7-16

Sign Sections:

Zone	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
1	20	14.6 #/FT	
2	15	14.6 #/FT	y
3	0		
4	0		
5	0		
6	0		
7	0		
8	0		



State License: Colorado - 38248

Geometry:

Zone	Top Elevation	Height	* Approx. Width	Pressure	Force	Approx. Weight
1	10.00 FT	3.00 FT	5.42 FT *	35.33 PSF	0.57 K	413 #
2	7.00 FT	7.00 FT	5.42 FT *	33.93 PSF	1.29 K	774 #
				Total Wind Force =	1.86 K	1,187 #

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Date:	7/15/24	City, State:	Aurora, CO	SHEET: 2 OF 3
Client:	**Stratus**	Overall Height:	10'-0"	Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph	McFarland Engineering

1501 S Potomac St

ME Job: 67448 PY.E.120.I

Moments at Transitions:

Zone	Lateral Force	2 Mom. Arm
1	0.57 K	8.50 FT
2	1.29 K	3.50 FT
		9.39 K-FT
Section Properties:	3.05 IN^3	.00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3 .00 IN^3

Structural Sections to be used:

Zone	Option	Pipe Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
2	Pipe	5.56 IN	0.258 IN	14.6 #/FT	5.12 IN^3	21.50	3.05 IN^3

Structure Required

# Req'd	Size	Wall Thickness
2	5.56 IN	0.258 IN

Docusign Envelope ID: DEAF0506-20A4-455E-8EAA-3BBB6FF9BDBA

Date:	7/15/24	City, State:	Aurora, CO	SHEET:	3 OF 3
Client:	**Stratus**	Overall Height:	10'-0"		Sean M. McFarland
Sign:	The Medical Center of Aurora #CO-027	Wind Speed	110 mph		McFarland Engineering

1501 S Potomac St

ME Job: 67448 PY.E.120.I

Two Pier Footings

Pier Footing Design:

d = A / 2 * (1 + (1 + (4.36 * h) / A)^1/2))

where A = (2.34 * P) / (S1 * b)

Select the footing and soil type:

Footing: Round

Vert. Soil Bearing (psf): 1500

Lat. Soil Bearing (psf): 150

Mmax =	7,041 #-FT	
Pmax (Lateral) =	1,396 #	
LSBP =	150 PCF	
S1 =	520 PCF	X d
d =	2.500 FT	*For use with Round Footing*
A =	2.51 FT^2	
h =	5.043 FT	
d =	5.180 FT	

USE: 2.50 FT. RND. X 5.50 FT DEEP PIERS w/ (6) #5's VERTICAL w/ #4's @ 12" O.C. (5 Ties Top 12")

Soil Bearing Check:

DLmax =	1,187 LBS	
Area of Footing =	4.91 FT^2	
Actural SBP =	242 PSF	
Allowable SBP =	1,350 PSF	(Includes code allowed 20% increase for every foot of footing below 12" into natural grade.)

242 PSF < 1,350 PSF THEREFORE OK

Baseplate Design -

D =	5.63 IN	A36 Steel	Fy= 36ksi		
e =	1.19 IN	E70 Electrodes	Fw= 928 #/in/16th		
b eff =	3.75 IN	A307 A.B.'s	Ft=20 ksi		
e eff =	2.25 IN	# of Bolts =	4	Dia. Bolt	0.75
Baseplate t =	0.88 IN	Column Mom =	7,041 #-FT		

P Bolt = M * 12 (in/ft) / 2 bolts (D + e + t) — 5,496 # < 8,800 #

t req'd = [(6*P*e eff* 1 bolt)/(.75*Fy(b eff + 2*t))]^1/2 — .707 IN < 0.88 IN

Weld = M * 12 (in/ft) / Fw (3.1415 * D^2/4) — 3.66 16th's < (2) 3.00 16th's

USE: (4) 3/4" Dia. Bolts w/ 7/8" Baseplate. Weld to Support with (2) 3/16" Fillet Welds.