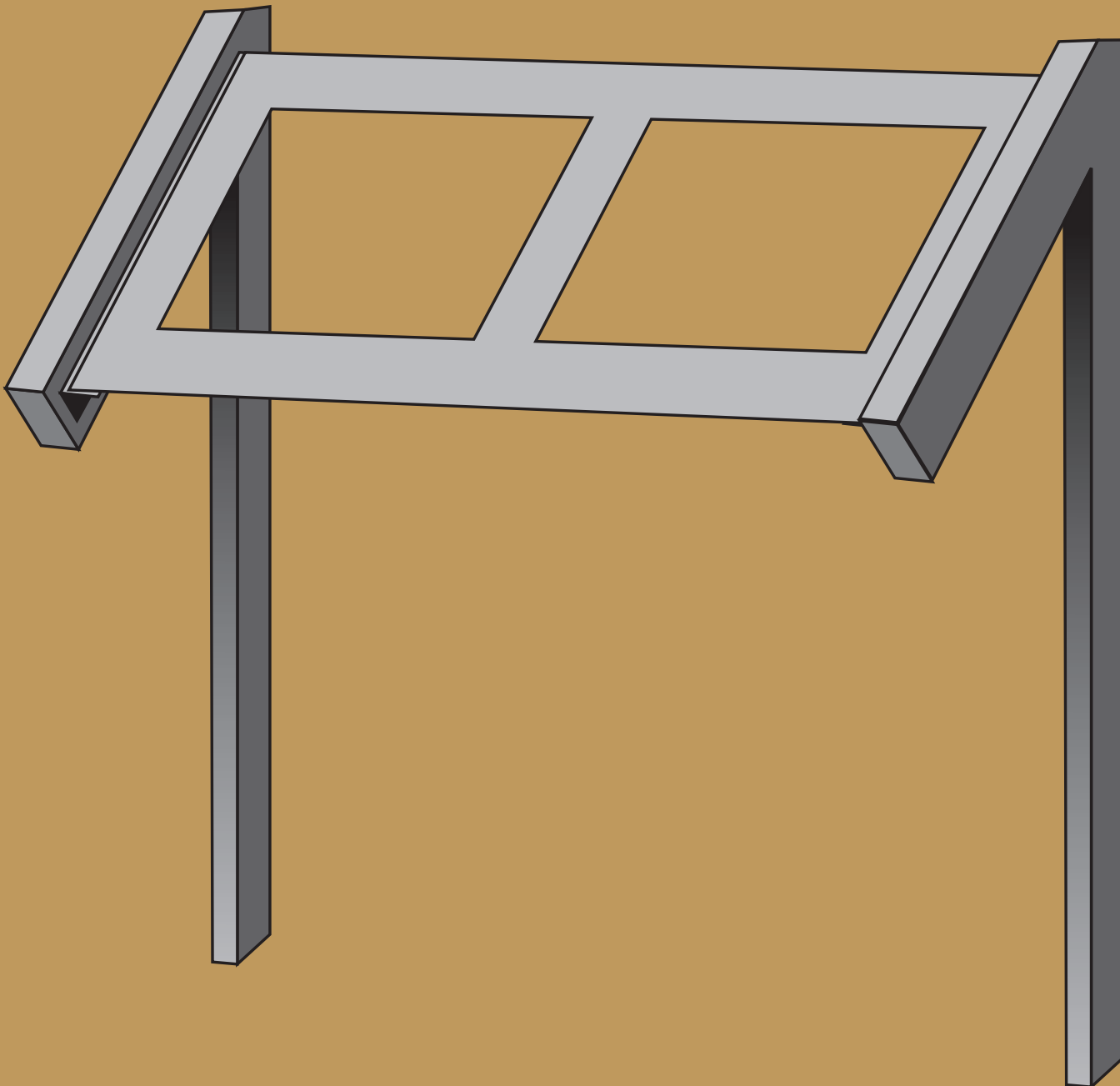


STANDARD LOW PROFILE FRAMES DEVELOPED FOR GENERIC STATEWIDE PANELS OR OTHER HPL PANELS MEASURING 48" x 24" x 1/2".

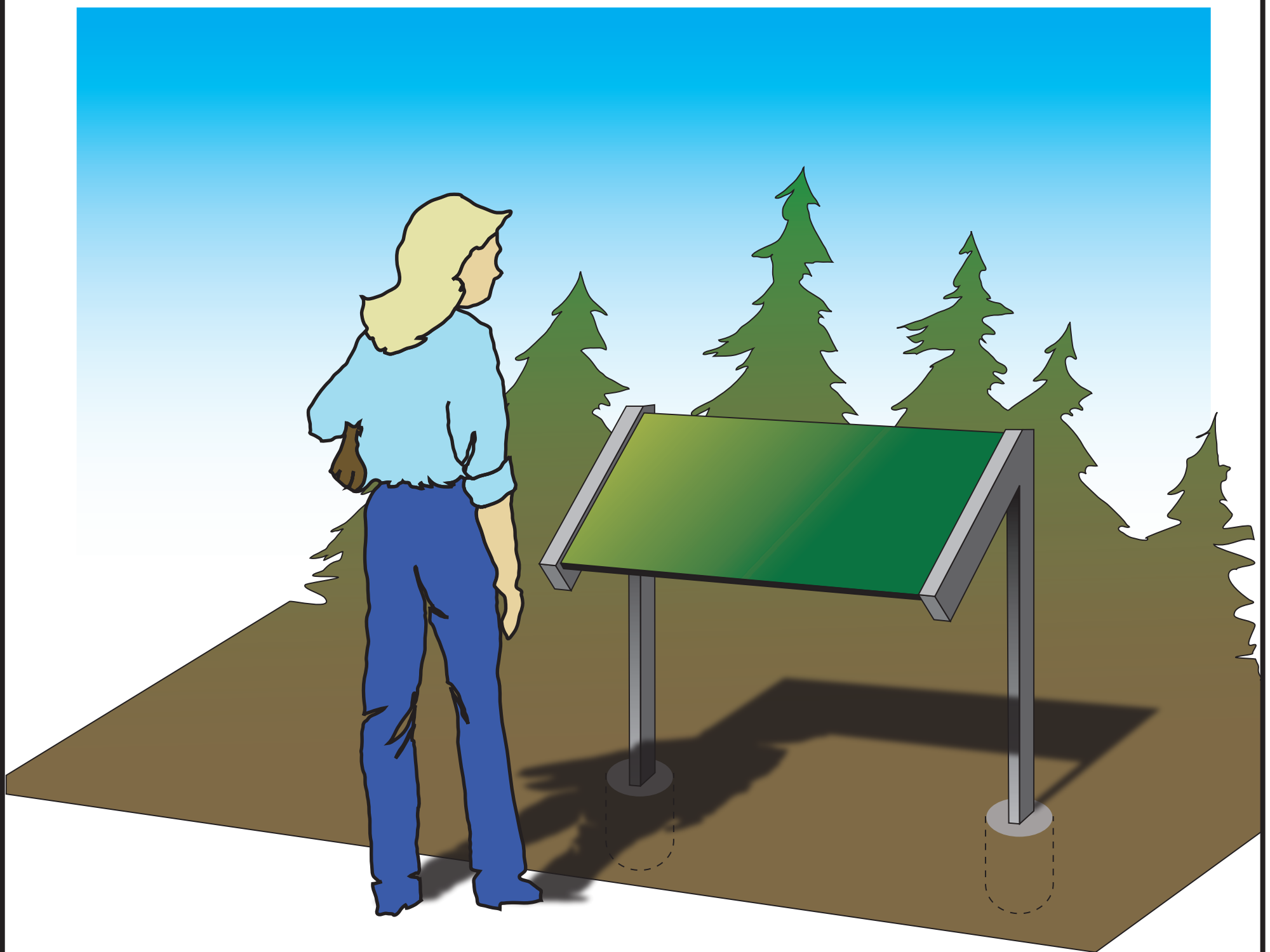


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DATE	

Low Profile Panel Frames

DRAWING NO.	
SHEET NO.	



DESCRIPTION

This is the standard single panel low profile frame developed by the Northern Service Center for HPL panels measuring $47\frac{1}{2}'' \times 24'' \times \frac{1}{2}''$, or $24'' \times 48'' \times \frac{1}{2}''$. The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME

The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24" deep and 12" in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL

The fasteners for attaching the panels to the backing plates are 1/4-20 x 5/8 BH Tork T-27, 18-8 SS.. These are little button head stainless steel security screws that are 5/8" long. The metal backing plate is 3/16" thick so that leaves 7/16" of threads to go into the panel. This means that the screw is 1/16" too long. To accomodate this, 2 stainless steel washers should be used on each screw. This will keep the fastener from disrupting the surface of the panel. DO NOT OVERTIGHTEN the fasteners in the panels. This could ruin the entire panel. If the insert is stripped out, it will be difficult or even impossible to replace.

DRAWING NO.
SHEET NO.

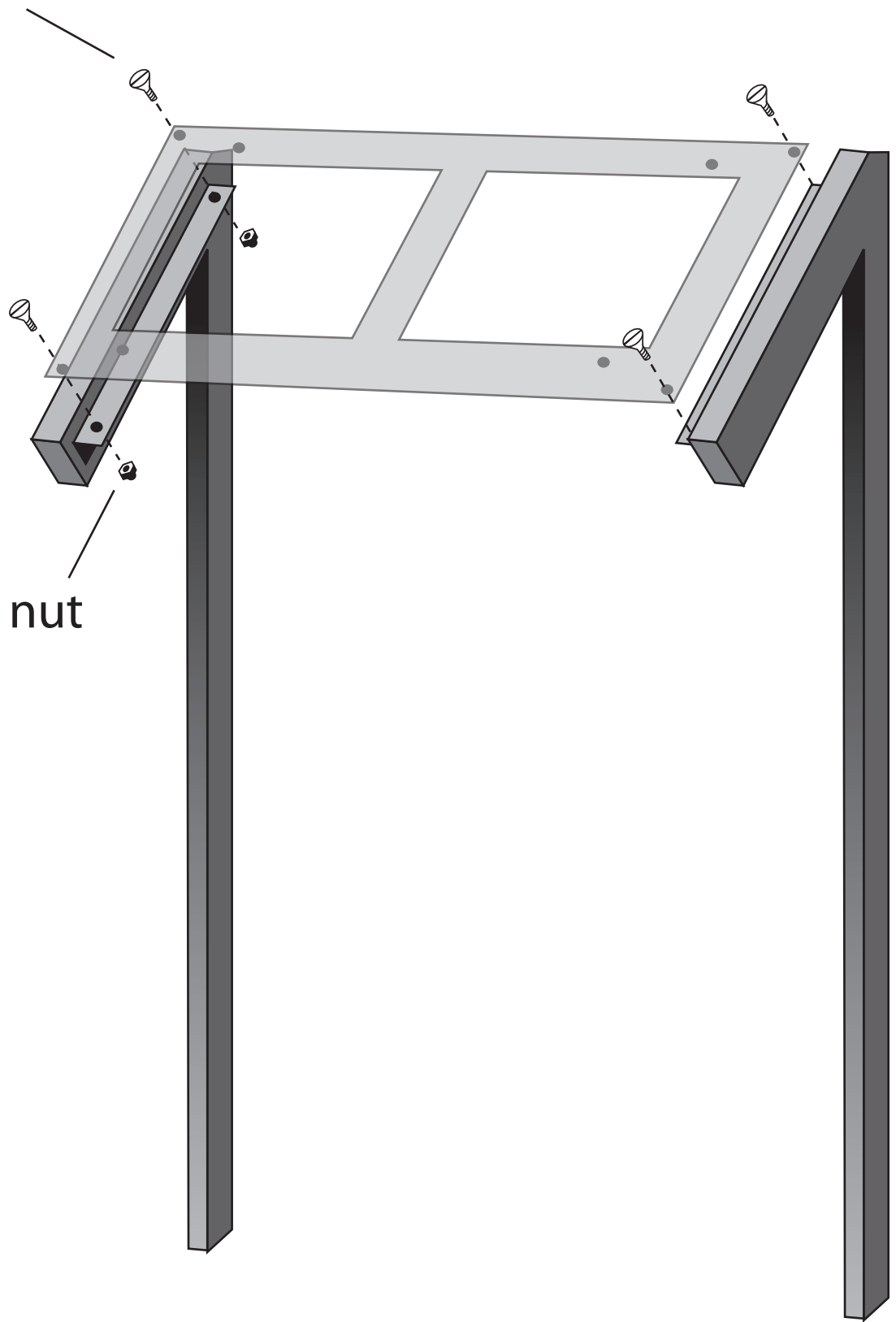
DPR Standard
Low Profile Panel Stands
single panel

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1/4 20 x 1 sts flat head machine screw



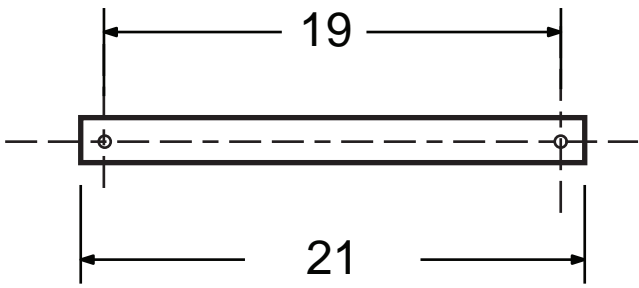
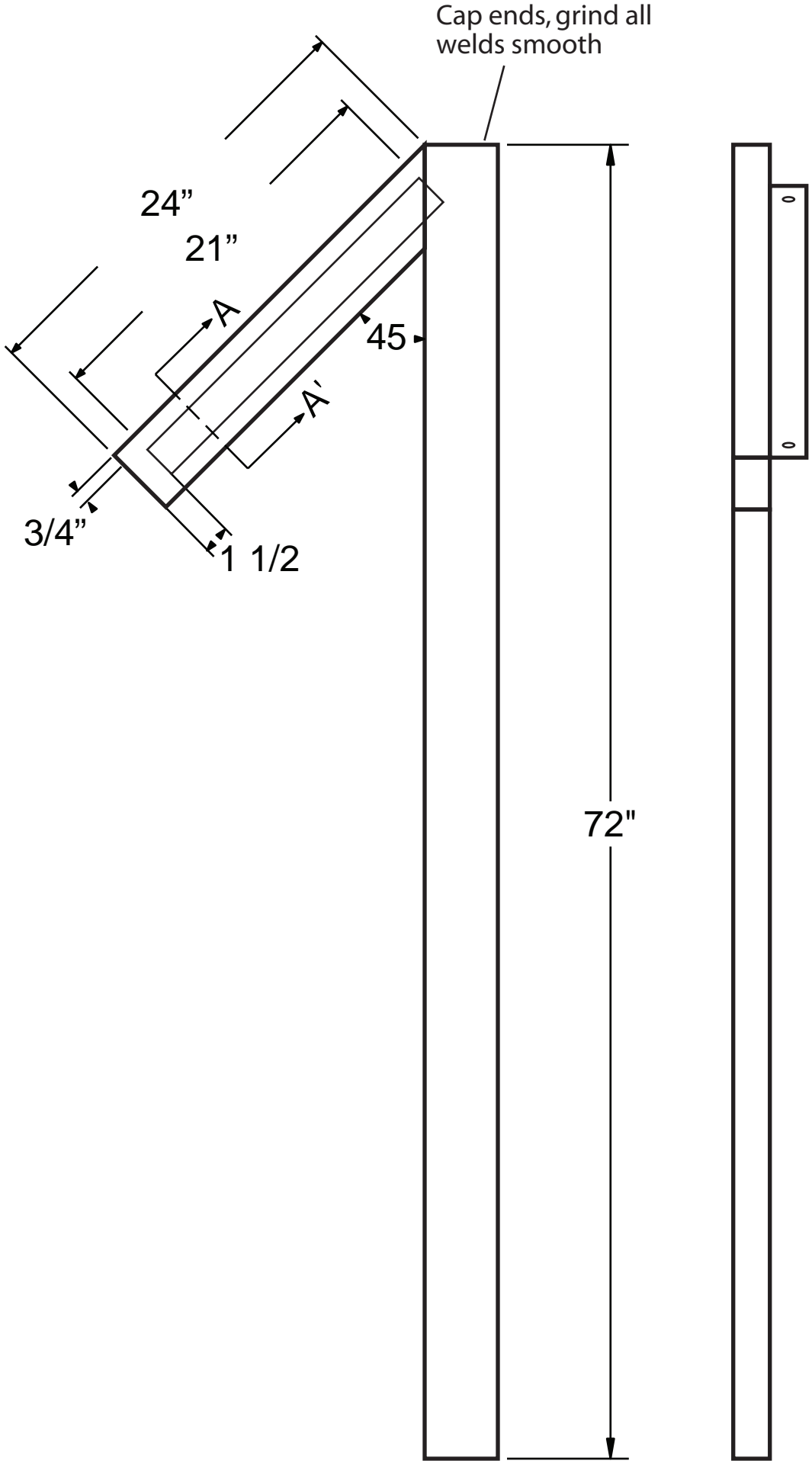
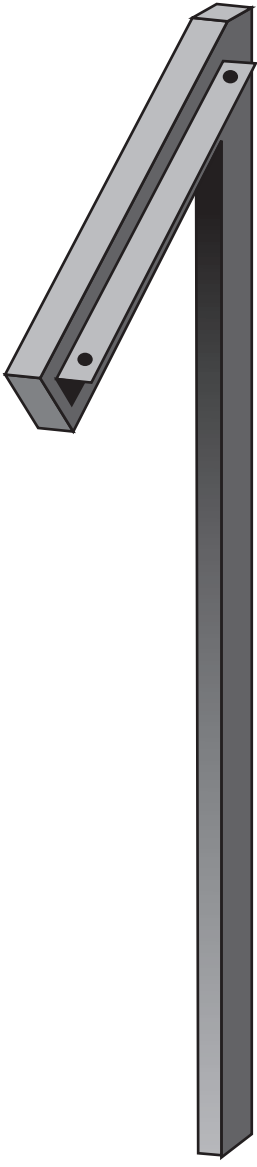
1/4 20 sts lock nut

Single Panel Frame Assembly

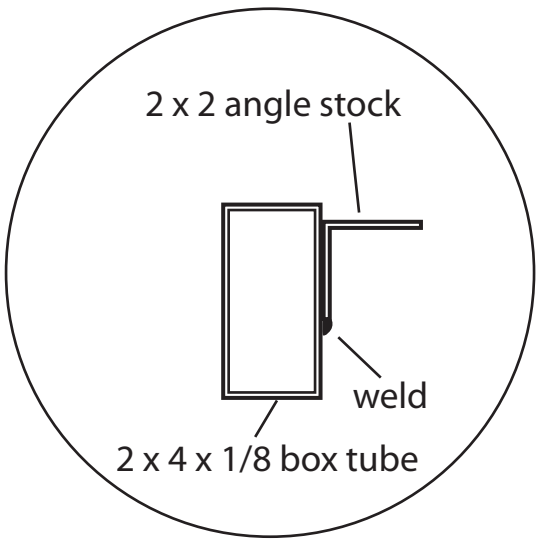
not to scale, must be assembled prior to installation in ground

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DESIGNED





hole location in 2 x 2 angle stock



section A—A'

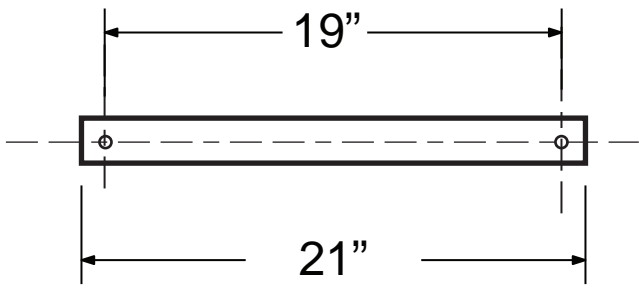
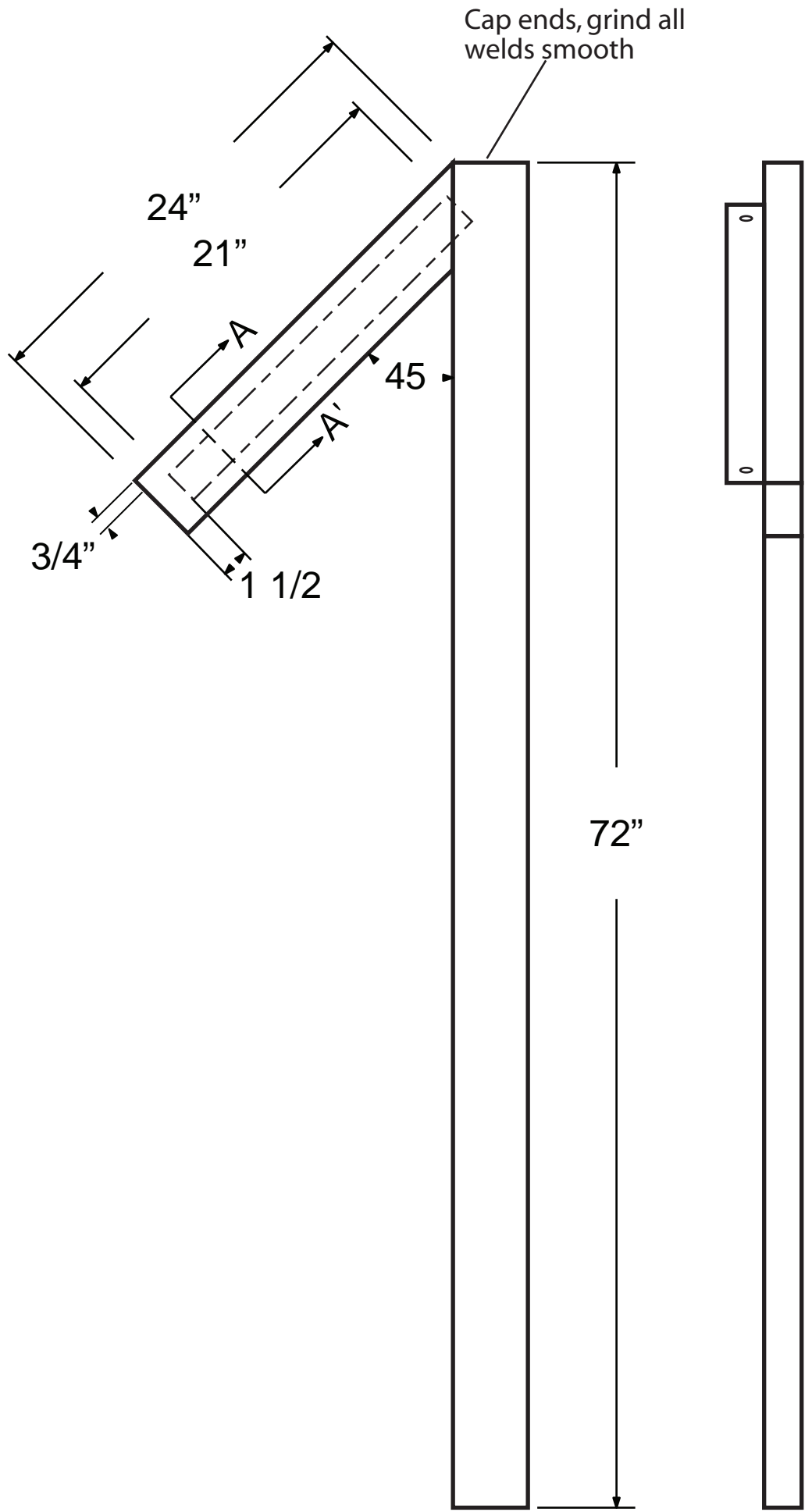
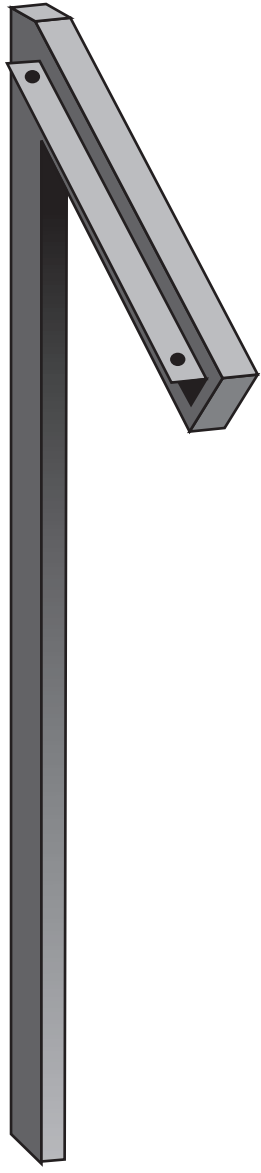
Powdercoat RAL #

REVISIONS	DATE
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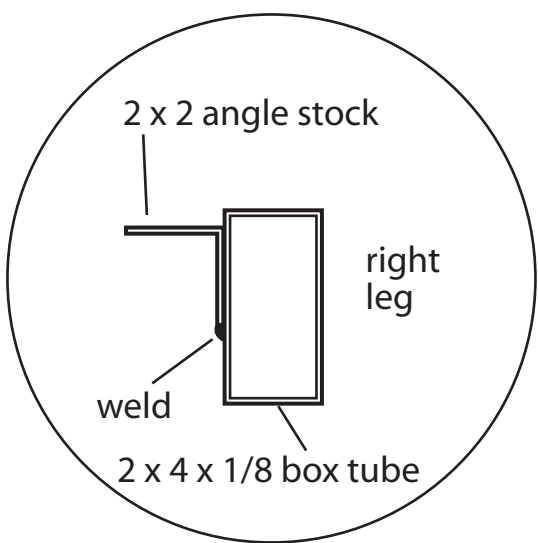
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hole location in 2 x 2 angle stock



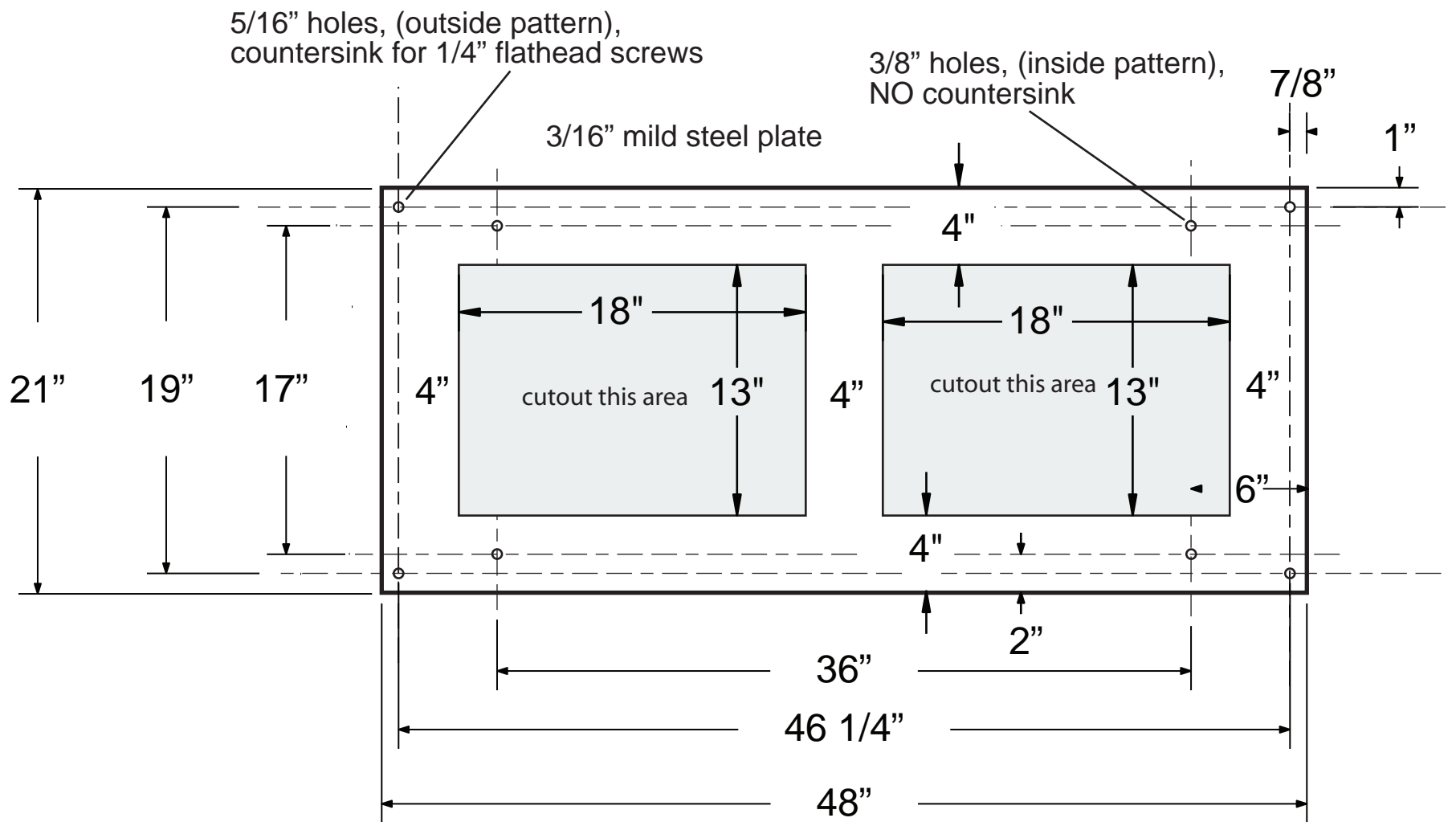
section A—A'

Powdercoat _____ RAL # _____

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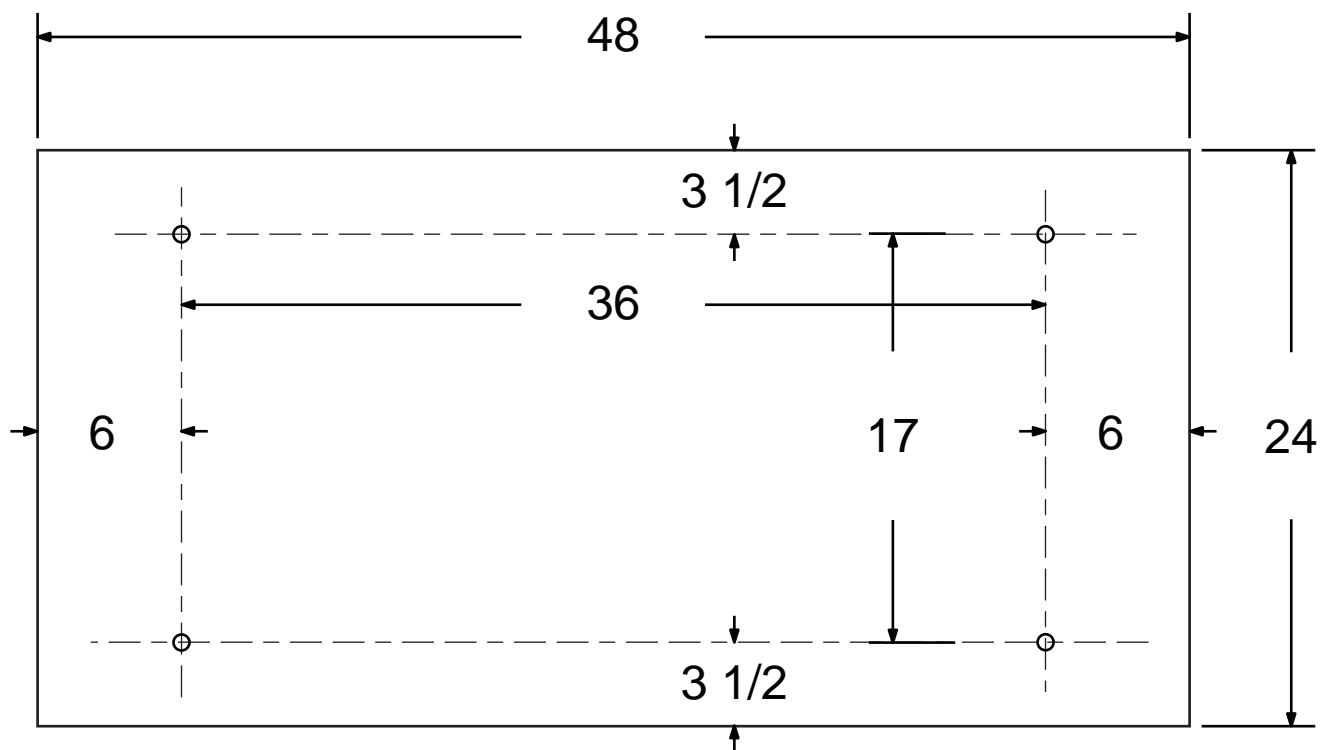


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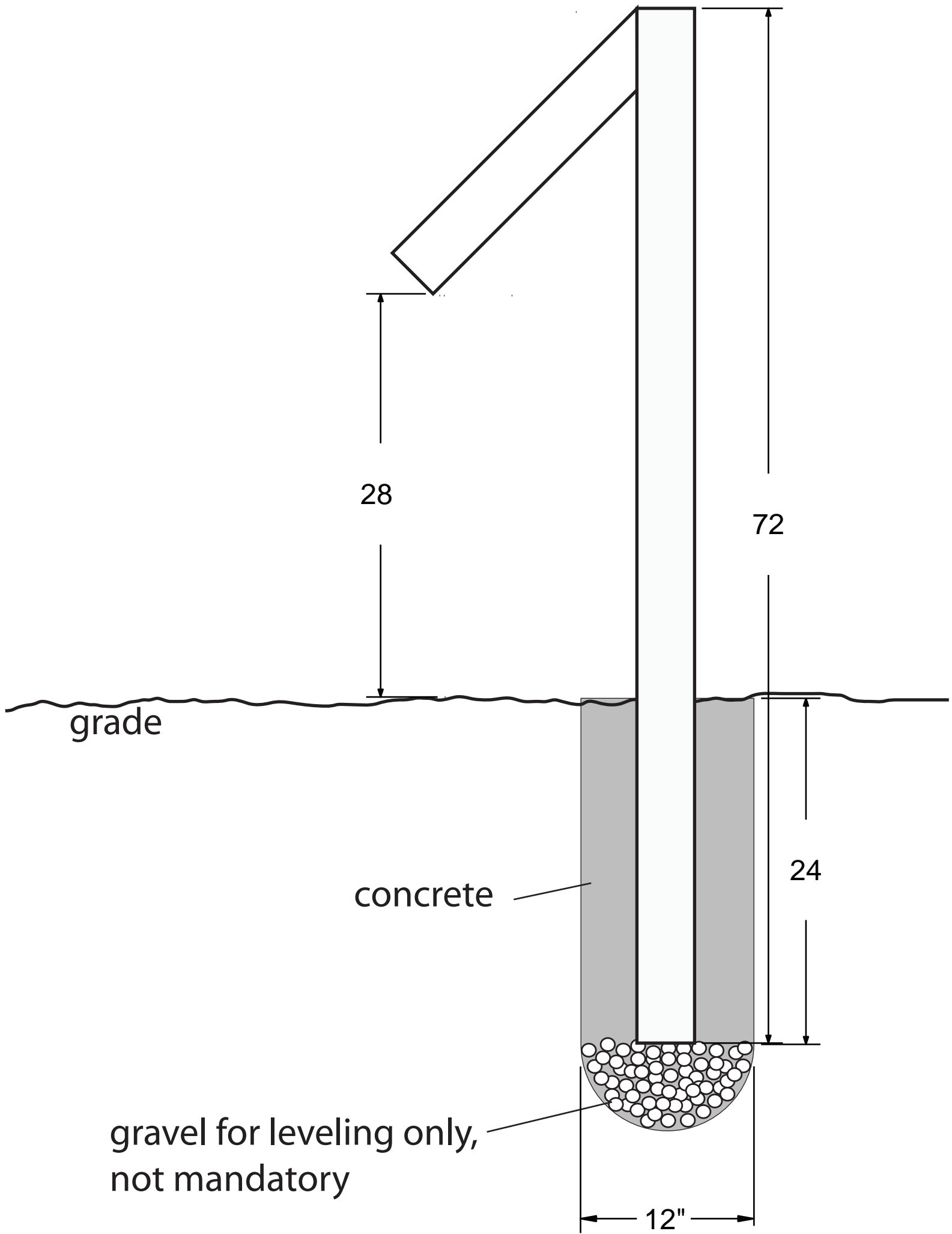
DRILL PATTERN FOR 48" PANEL
 1/4-20 helicoil threaded insert pattern for back
 of interpretive panels that measure 24' x 48"

REVISIONS	
NO.	DATE

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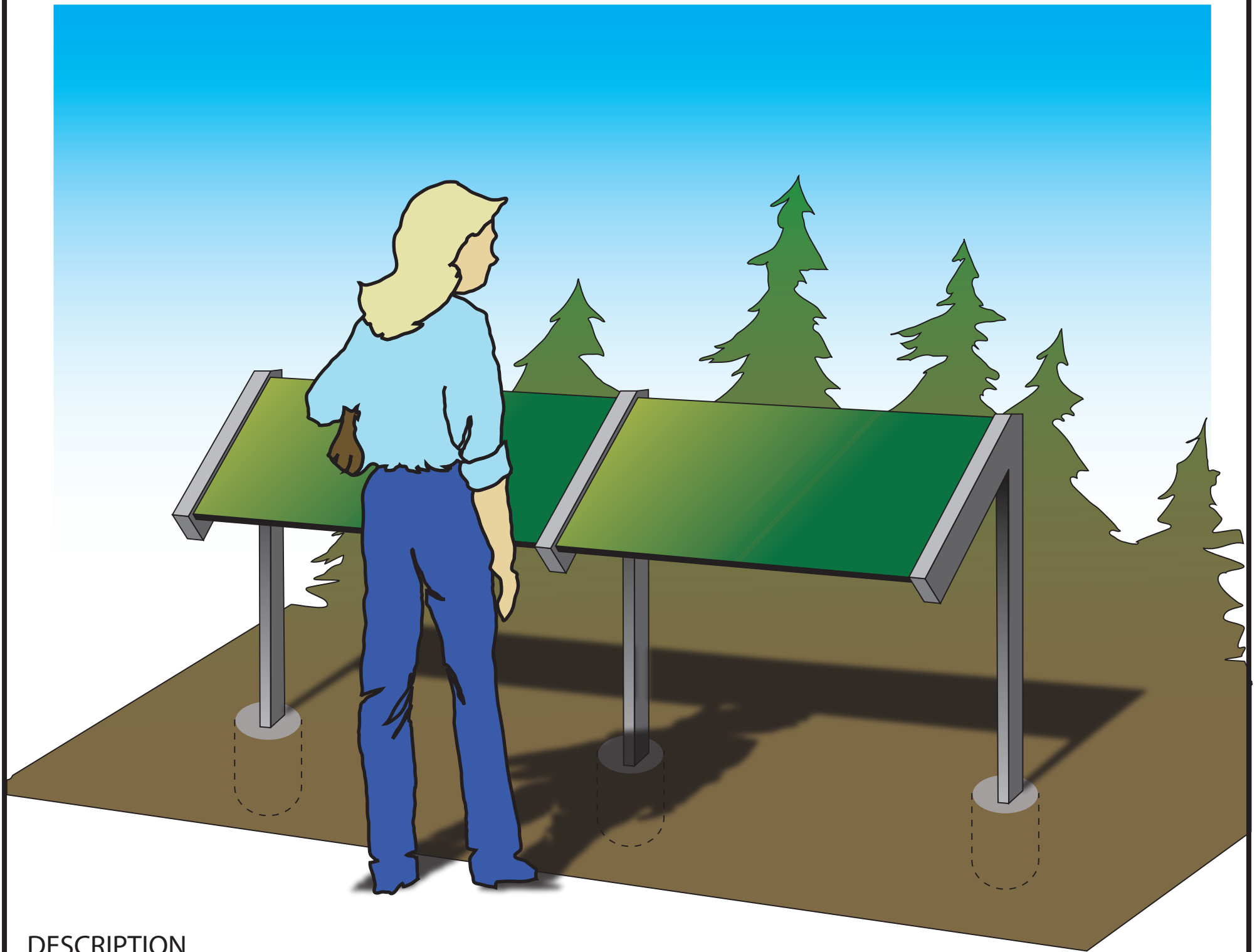




signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit

REVISIONS	DATE
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DESCRIPTION

This is the standard side by side low profile frame developed by the Northern Service Center for HPL panels measuring 47½" x 24" x ½", or 24" x 48" x ½". The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME

The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24" deep and 12" in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL

The fasteners for attaching the panels to the backing plates are 1/4-20 x 5/8 BH Tork T-27, 18-8 SS.. These are little button head stainless steel security screws that are 5/8" long. The metal backing plate is 3/16" thick so that leaves 7/16" of threads to go into the panel. This means that the screw is 1/16" too long. To accomodate this, 2 stainless steel washers should be used on each screw. This will keep the fastener from disrupting the surface of the panel. DO NOT OVERTIGHTEN the fasteners in the panels. This could ruin the entire panel. If the insert is stripped out, it will be difficult or even impossible to replace.

SHEET NO.	DRAWING NO.	DPR Standard Low Profile Panel Stands side by side panels
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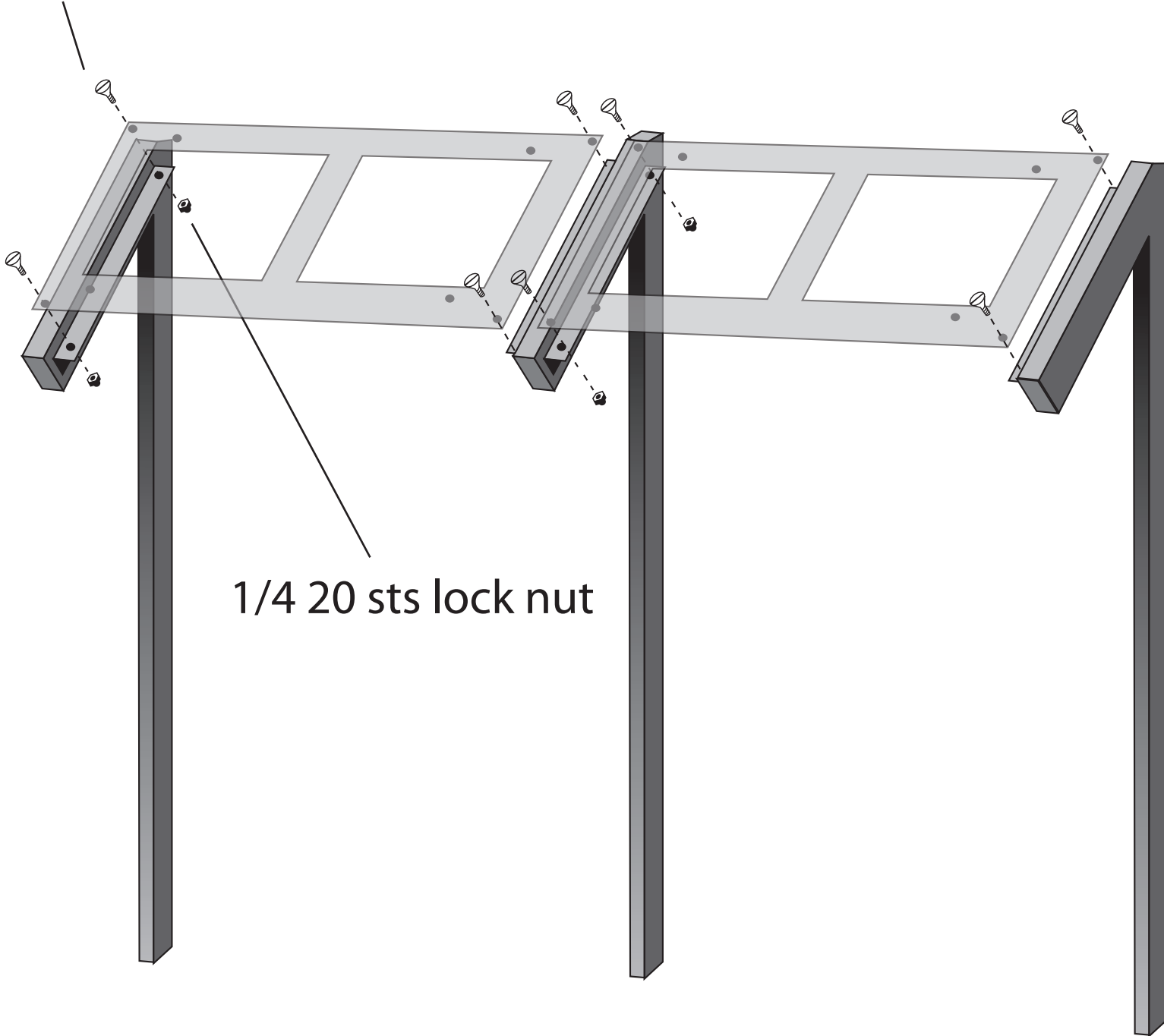
REVISED	DATE

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1/4 20 x 1 sts flat head machine screw



1/4 20 sts lock nut

Side by Side Frame Assembly

not to scale, must be assembled
prior to installation in ground

1 of 5

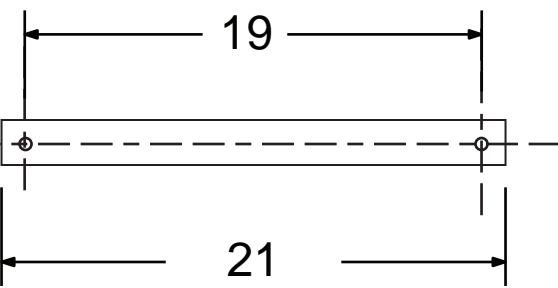
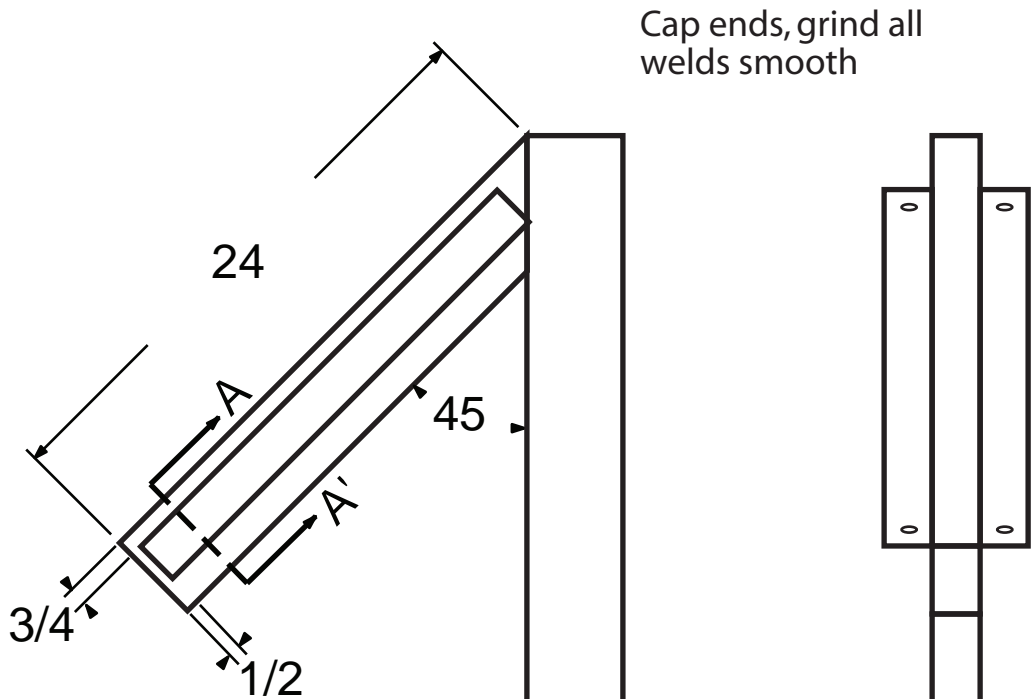
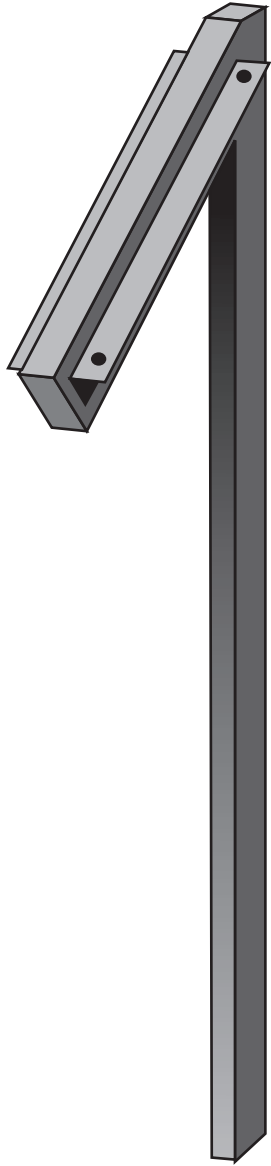
DRAWING NO.
SHEET NO.

DPR Standard
Low Profile Panel Stands
single panel

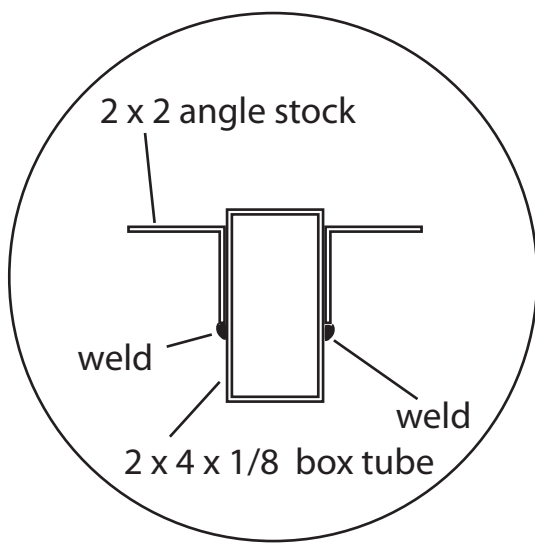
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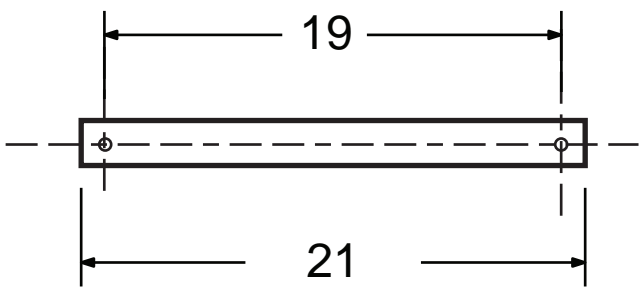
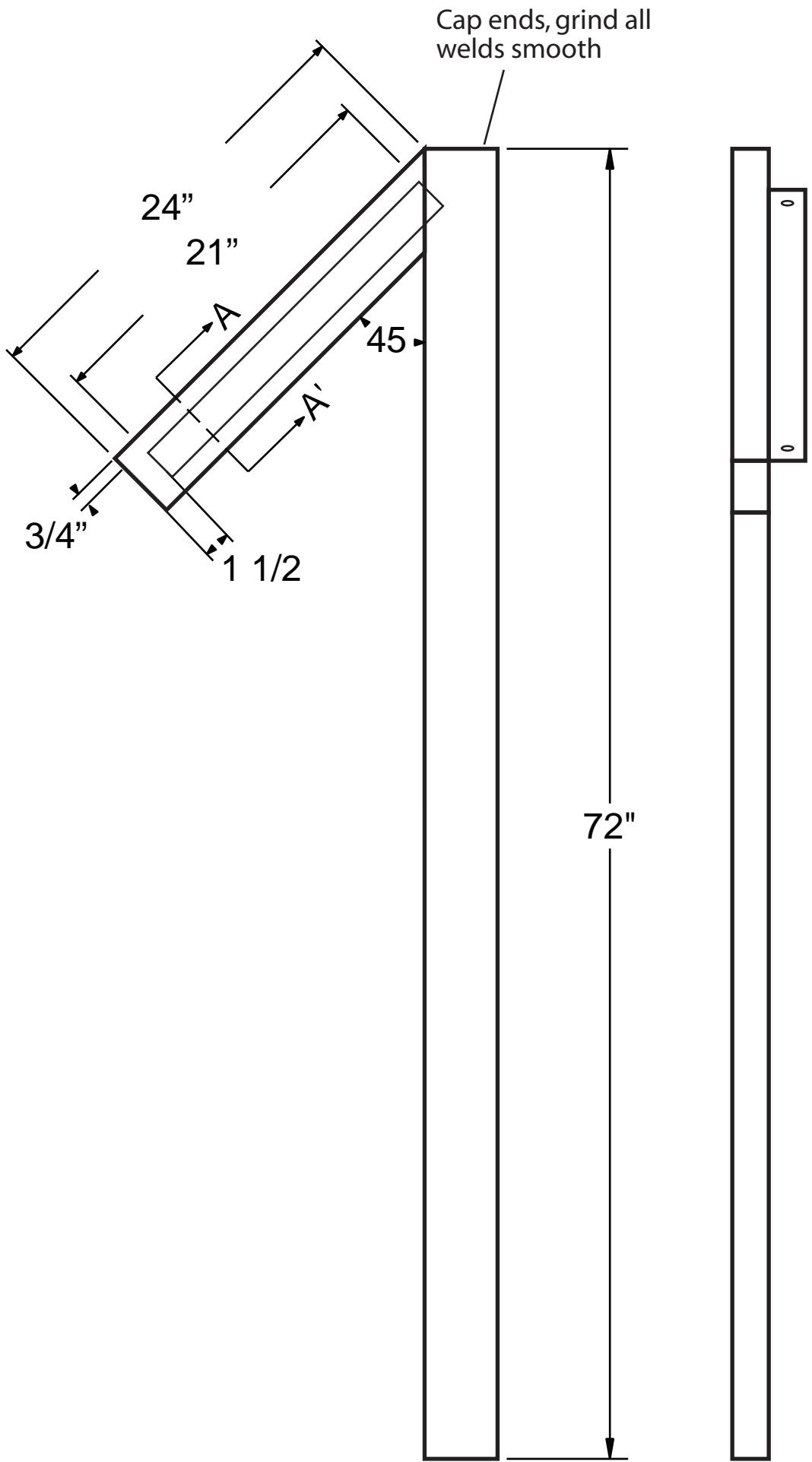
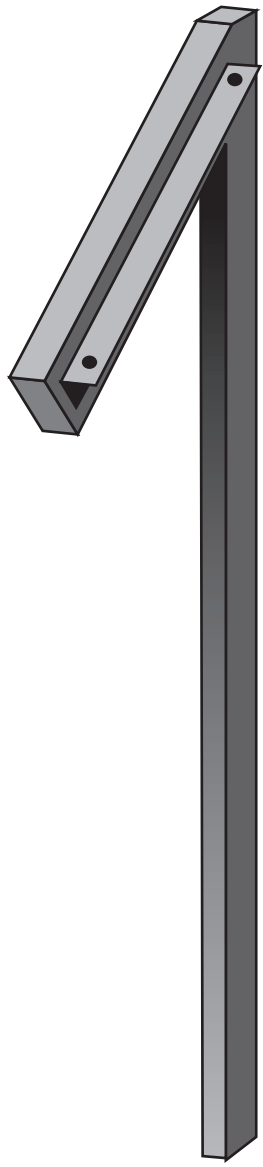
hole location in 2 x 2 angle stock



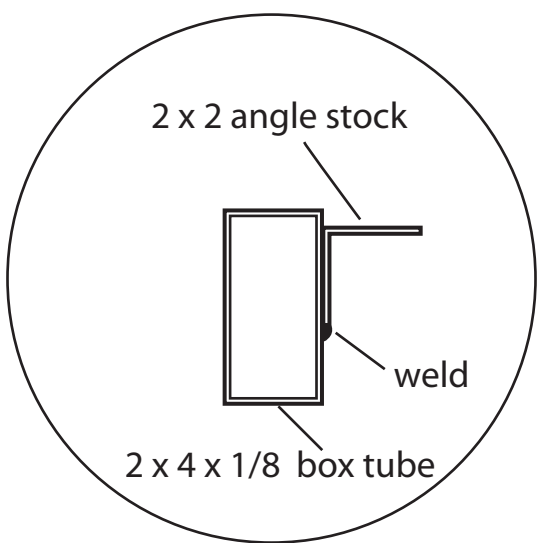
section A A'

Powdercoat RAL #

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hole location in 2 x 2 angle stock



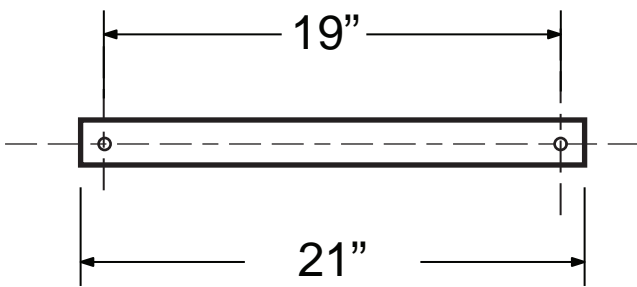
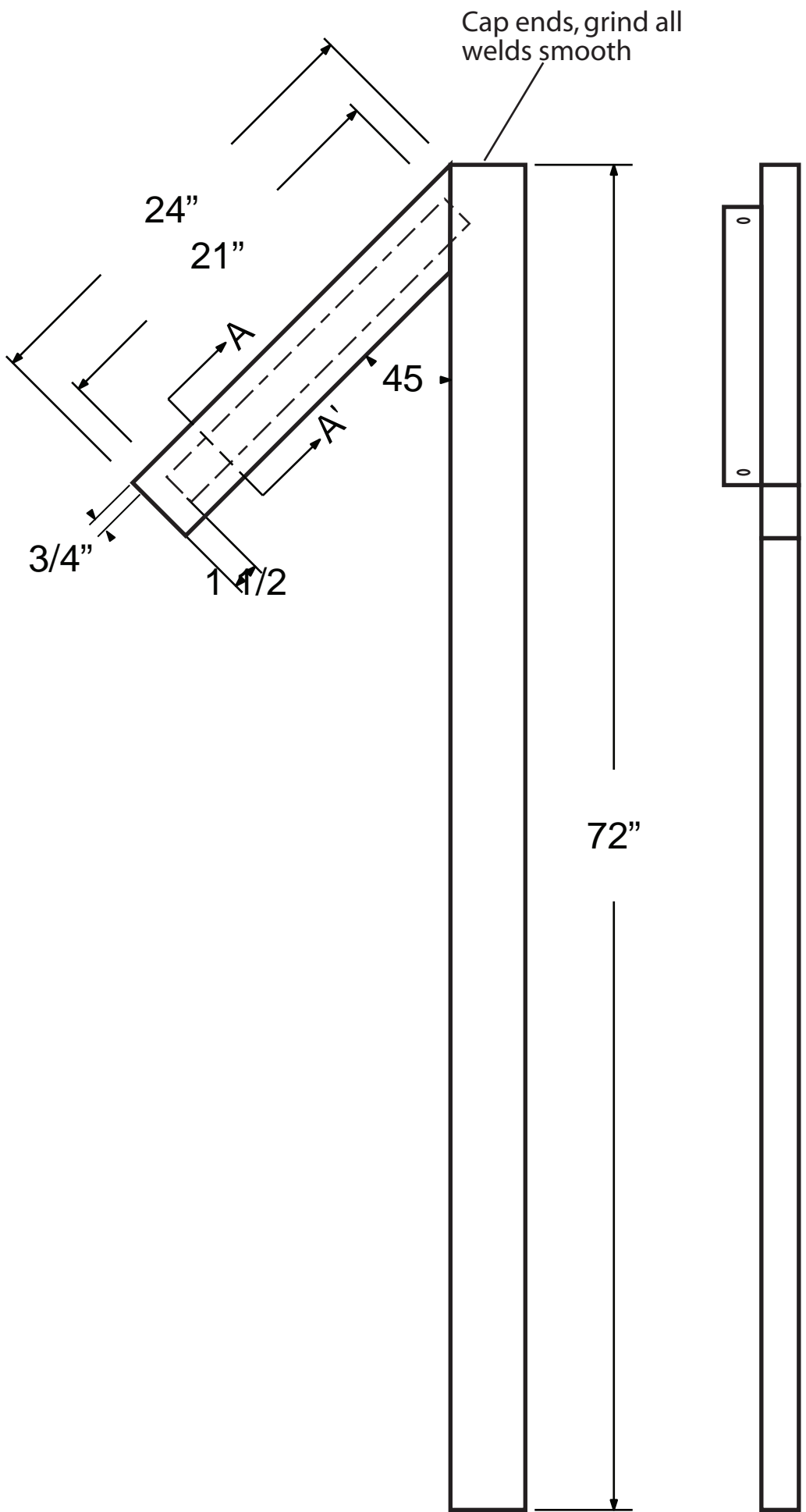
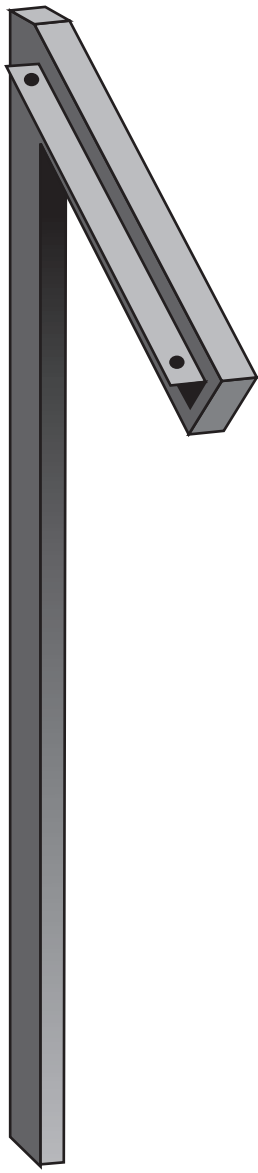
section A—A'

Powdercoat RAL #

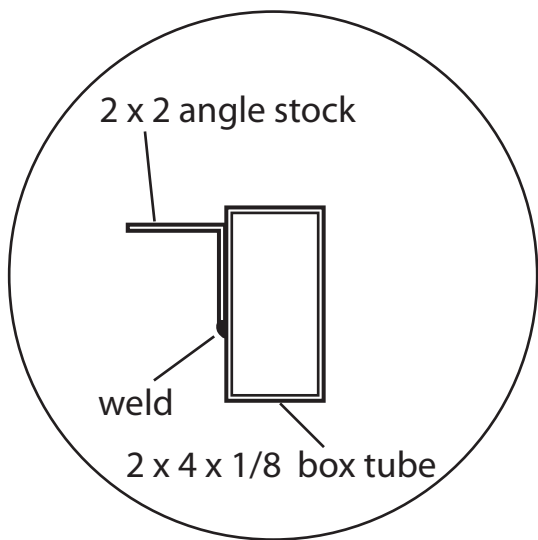
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hole location in 2 x 2 angle stock

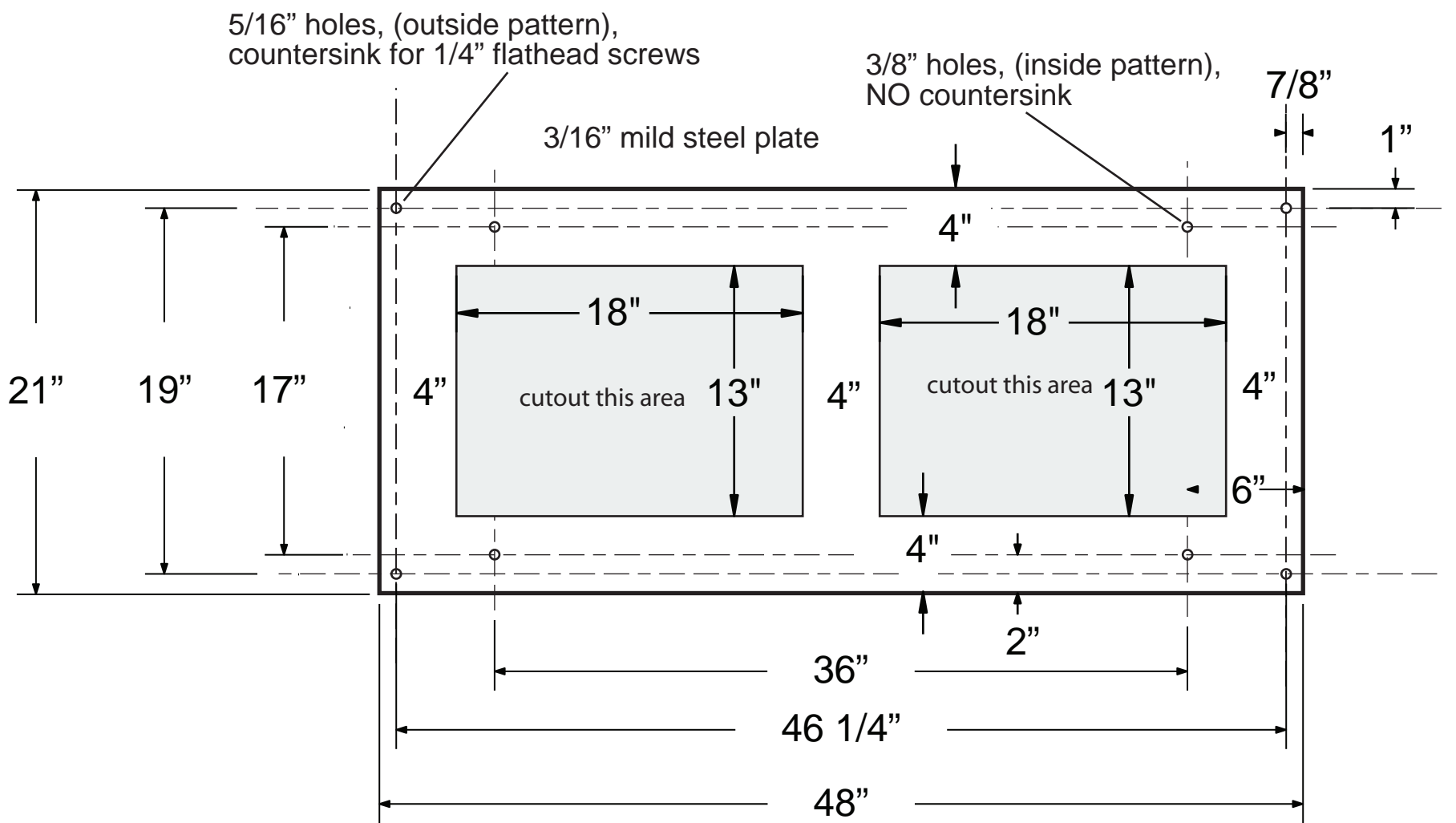


section A—A'

Powdercoat RAL #

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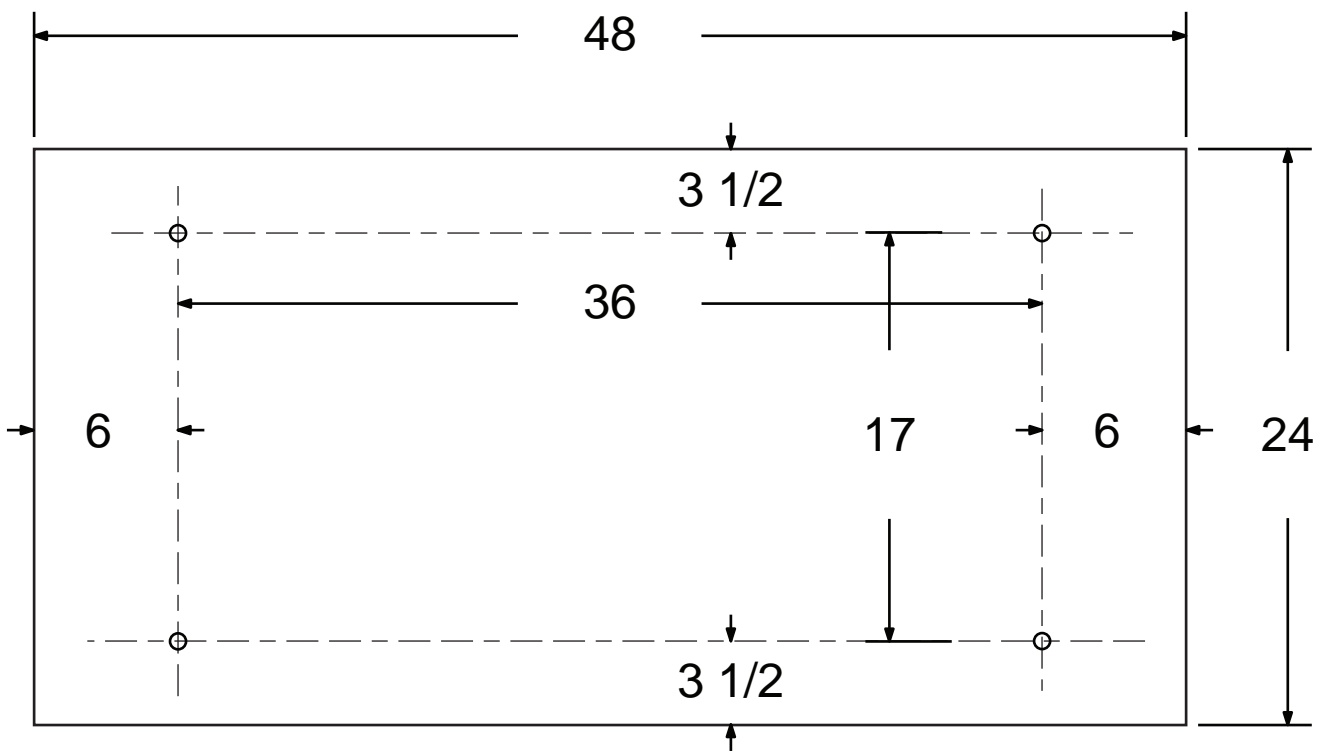




Powdercoat _____ RAL # _____

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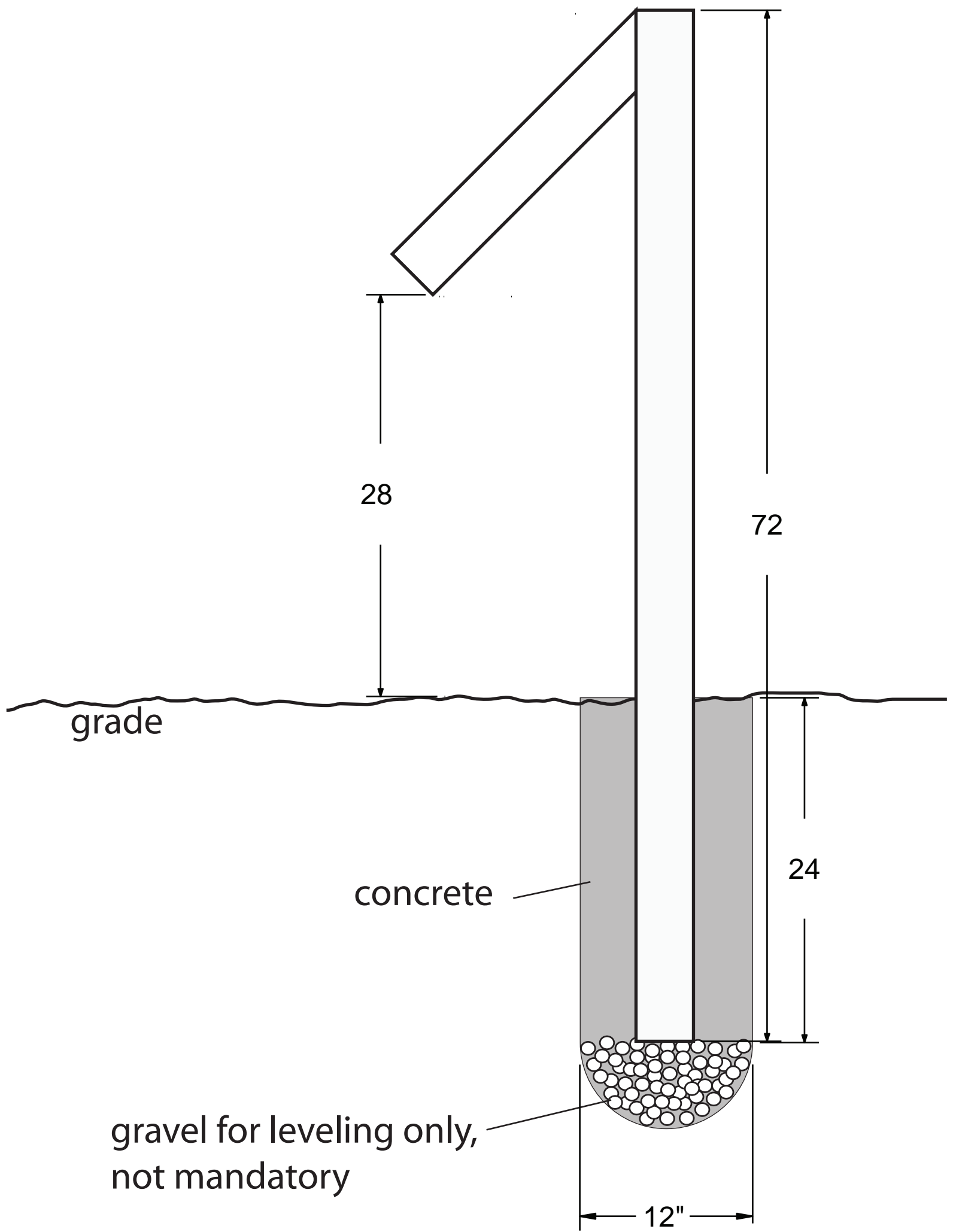
DRILL PATTERTN FOR 48" PANEL
 1/4-20 helicoil threaded insert pattern for back
 of interpretive panels that measure 24' x 48"

REVISIONS	DATE
	6/29/11

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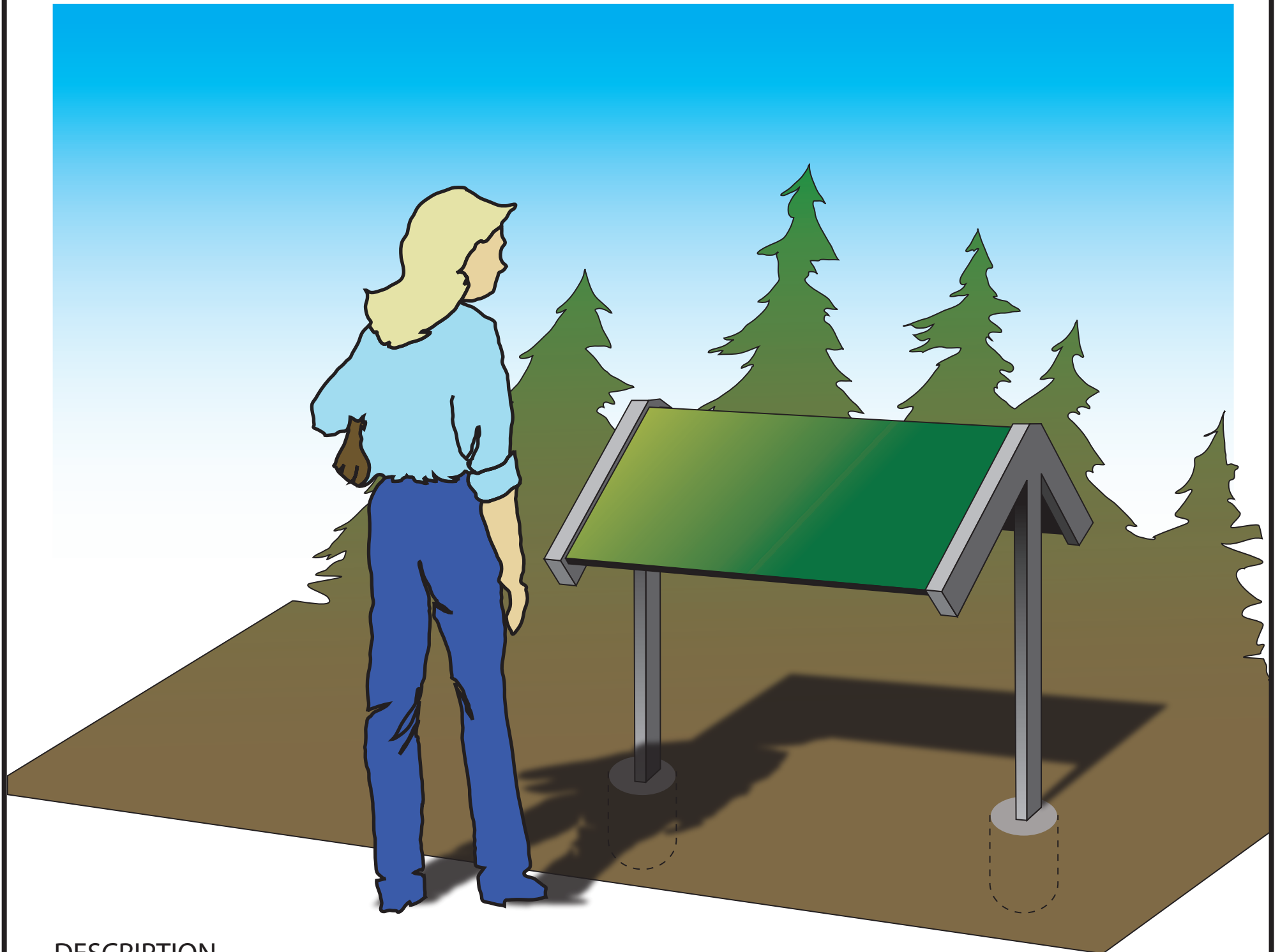
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signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit

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DESCRIPTION

This is the standard back to back low profile frame developed by the Northern Service Center for HPL panels measuring 47½" x 24" x ½", or 24" x 48" x ½". The smaller size leaves a wider margin between the edges of the panel and the metal legs which makes installation a little easier. Either panel size will fit in the frames.

INSTALLING THE FRAME

The frames need to be fully assembled prior to installing them in the ground in order to maintain proper distance between the legs and to insure that the LEGS REMAIN PARALLEL. If the backing plate is warped, it will be at best difficult to install the interpretive panel and worst case is to not be able to install the HPL panel at all. The frame legs should be set in concrete in holes 24" deep and 12" in diameter as per the installation drawing. This will insure a strong installation and proper ADA clearances. The frames are constructed of separate pieces for ease of transport. When the frames are fabricated completely welded together they are extremely difficult to handle and ship. Proper stainless fasteners are indicated on the drawings but must be purchased separately. The fabricators do not usually supply fasteners.

INSTALLING THE PANEL

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DRAWING NO.
SHEET NO.

**DPR Standard
Low Profile Panel Stands
back to back panels**

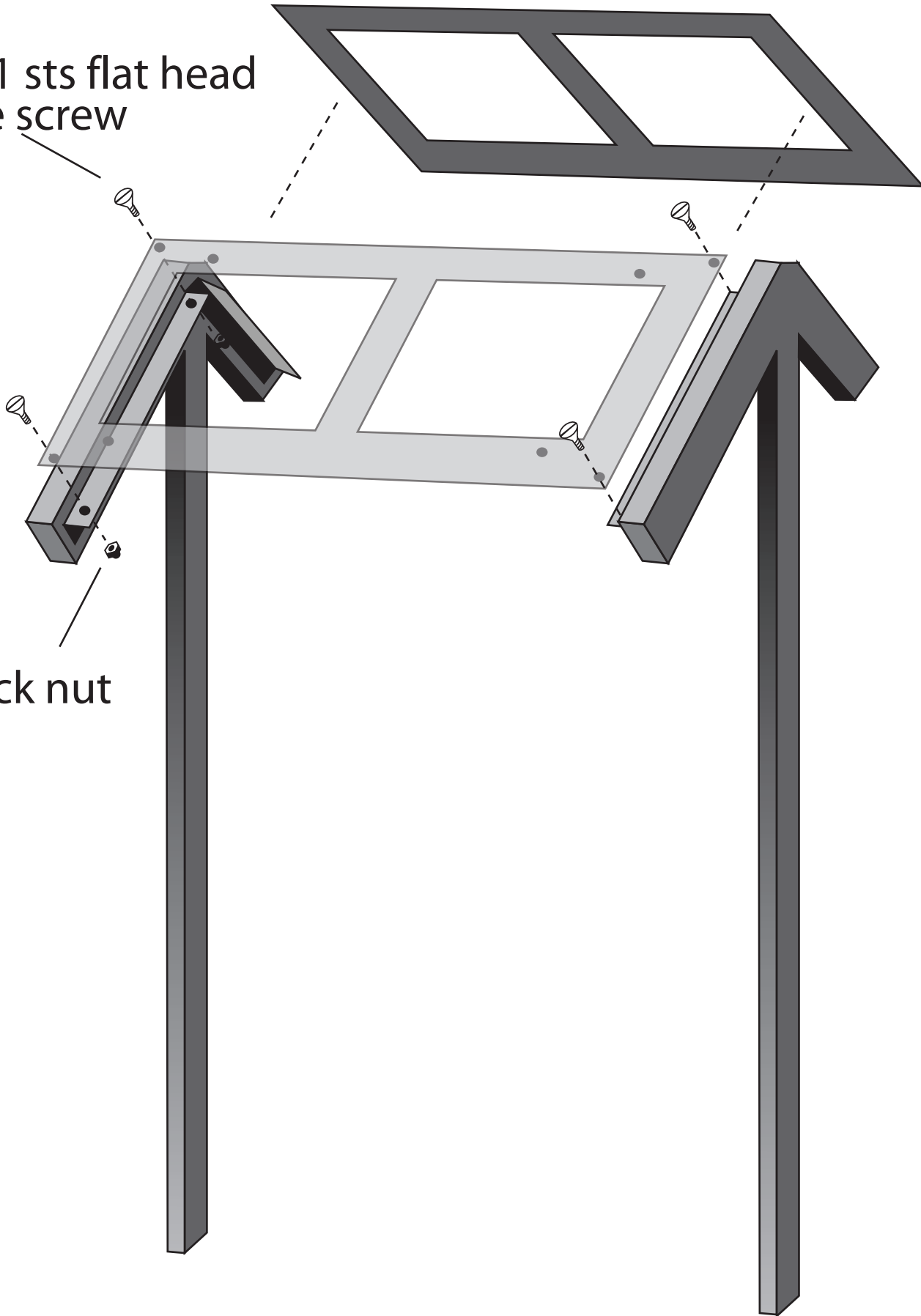
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1/4 20 x 1 sts flat head machine screw

1/4 20 sts lock nut



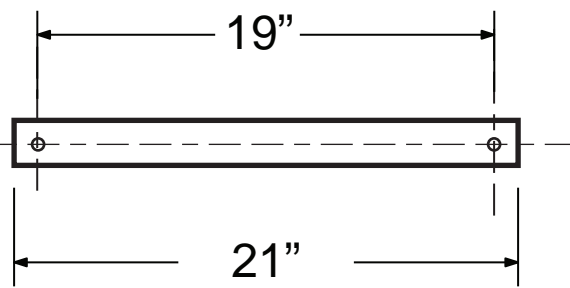
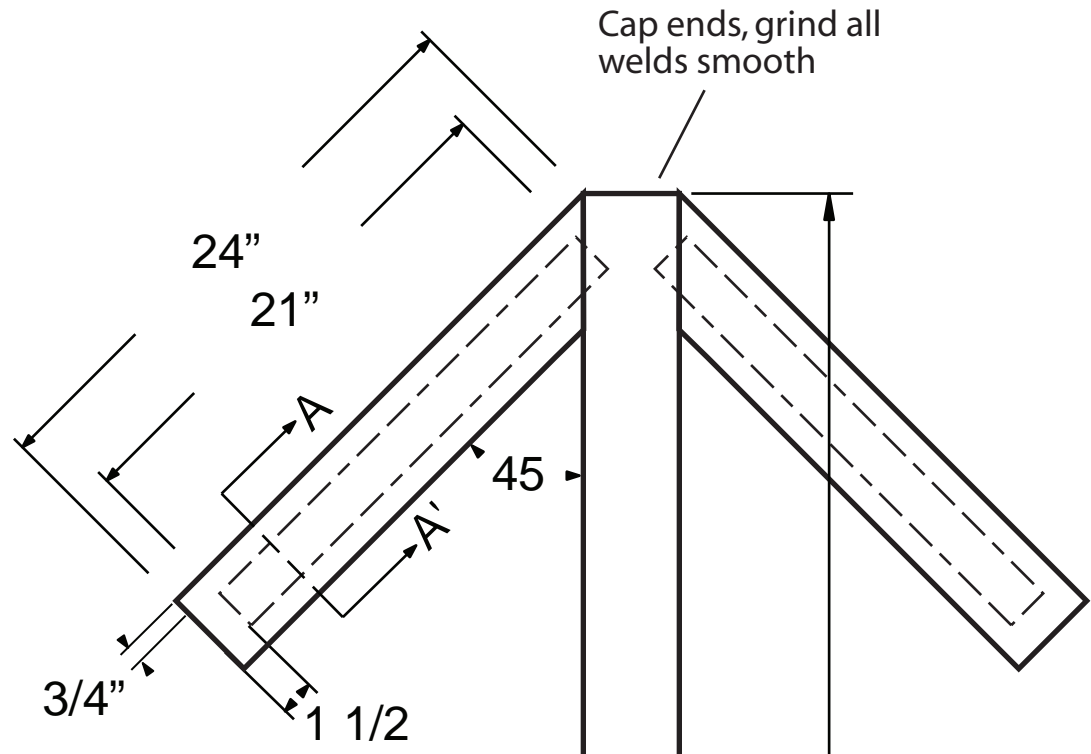
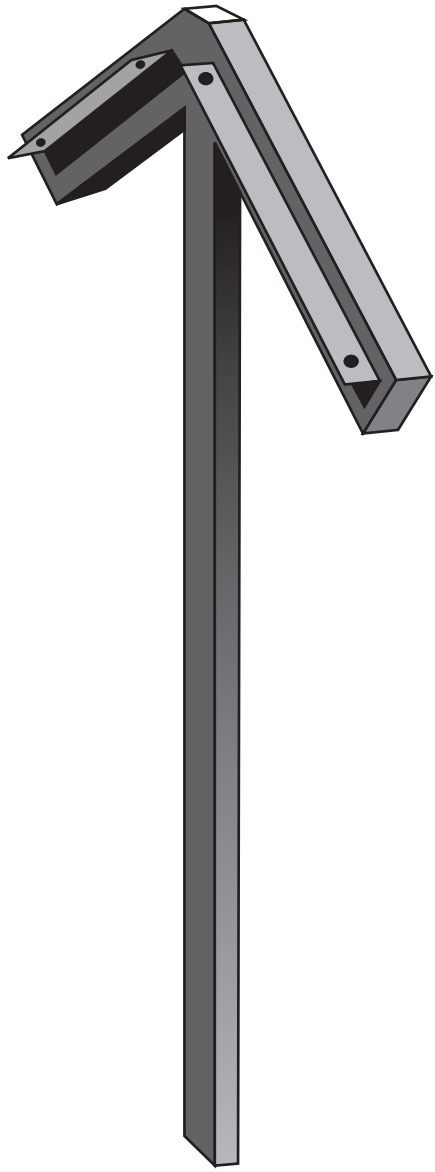
Back to Back Frame Assembly
 not to scale, must be assembled
 prior to installation in ground

REVISIONS	DATE

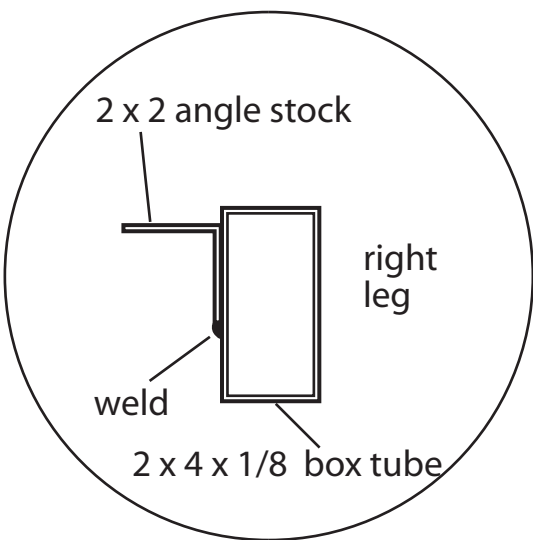
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top view, drill pattern
for angle stock,
5/16 holes, typical

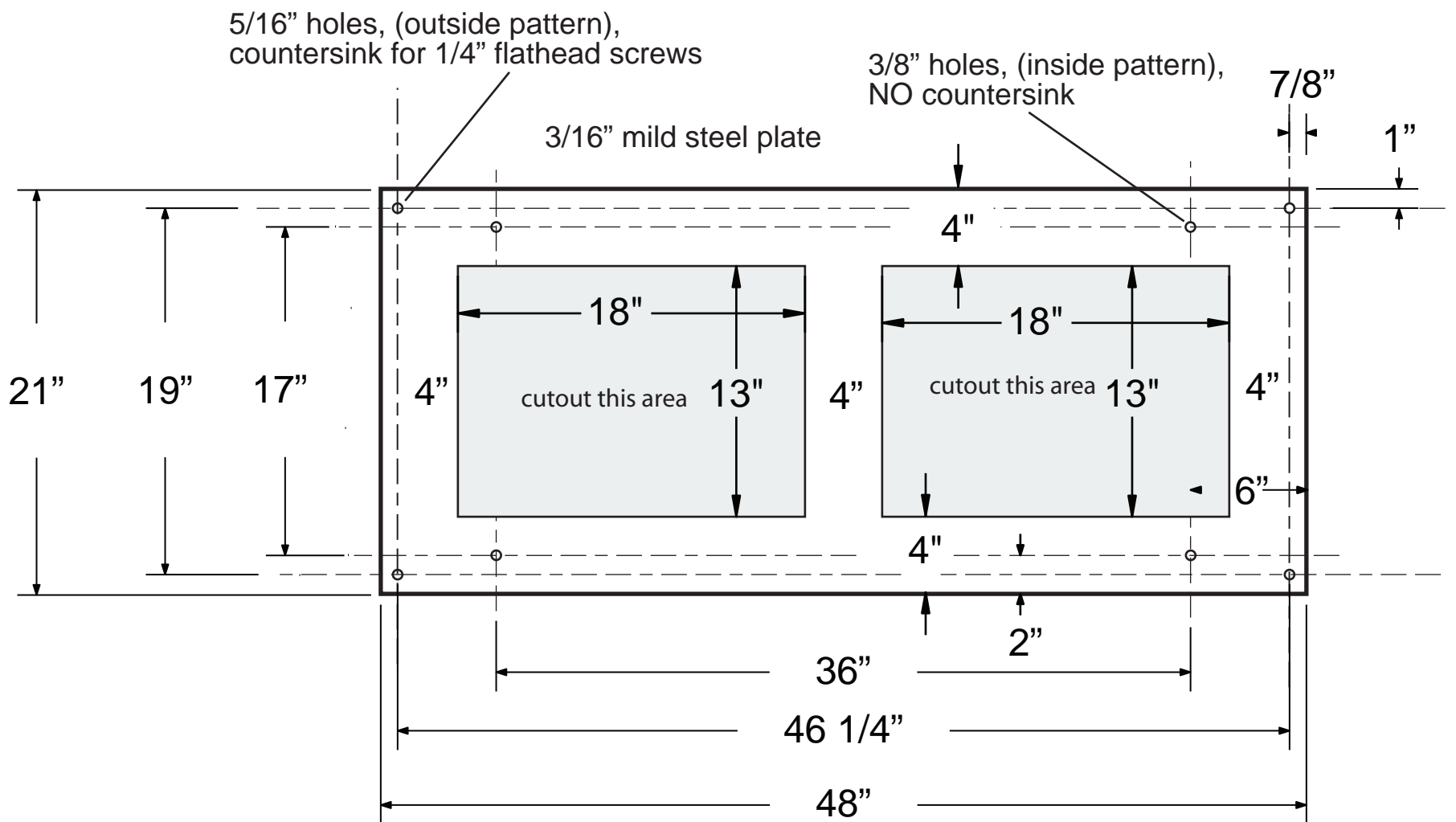


section A—A'

Powdercoat RAL #

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Powdercoat _____ RAL # _____

3 of 3

SHEET NO.

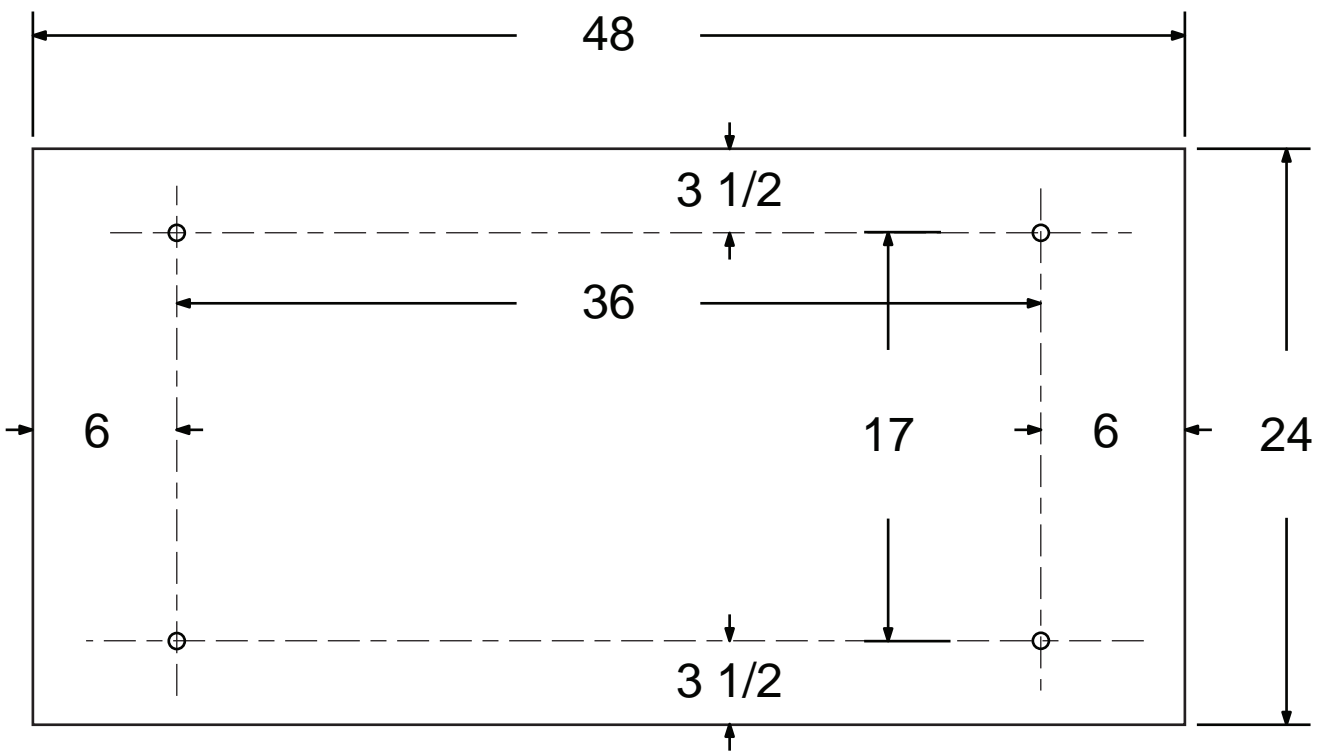
DRAWING NO.

DPR Standard
Low Profile Double Panel Stand
back panel, 2 rqd.

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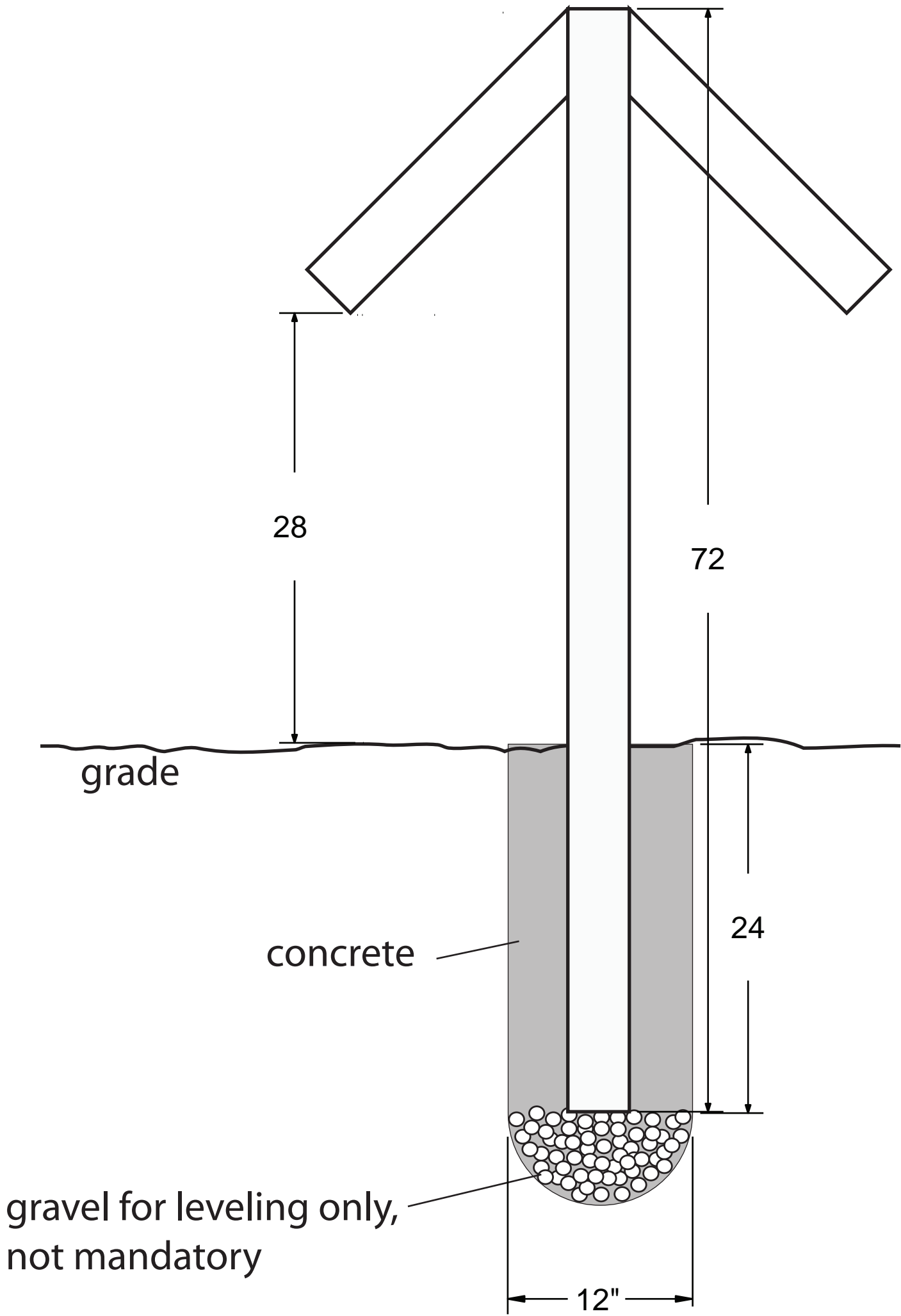
DRILL PATTERN FOR 48" PANEL
 1/4-20 helicoil threaded insert pattern for back
 of interpretive panels that measure 24' x 48"

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signframe must be fully assembled prior to installation in ground to assure proper alignment for ease of panel fit

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RAL 8011 (dark brown)

PMS 1545c



RAL 8001 (medium brown)

PMS 1395c



RAL 1001 (tan)

PMS 466c



RAL 1032 (gold)

PMS 124c



RAL 5024 (blue)

PMS 549c



RAL 6002 (green)

PMS 7483c



RAL 6003 (green)

PMS 574c



RAL 7042 (gray)

PMS cool gray 8c



RAL 9011 (black)



RAL 9003 (white)

colors are closest PMS match to RAL powdercoat colors



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