Only 1 side may have a pour window, either X or Y but not both.

If X or Y is > 46.5" then reduce the max ply height from 96" to 48"

Plywood layout preview

User needs to be able to edit spacing, add/remove sheets. Min sheet length: 6". Max sheet length: 8'-0". This should be auto-populated and drawn when X, Y, and Z are provided, and refreshed whenever any of those are changed.

If the sum of provided sheet lengths don't equal "Height (Z)" then text should appear saying how much needs to be added or removed to equal Z.

Sheet Fields are entered into the sheet that is created.

Currently the Save/Load buttons simply write these to 1 text file.

Min x: 12, max x: 48
Default: -blank-

Min x: 12, max x: 48
Default: -blank-

Min x: 8'-0", max x: 20'-0"
Default: -blank-

Only positive integers allowed
Default: -blank-

X, Y, Z, and the plywood spacing boxes need a converter function when read.
It needs to handle ft'-in" style inputs in a variety of formats. No negative values are allowed anywhere. The only allowable non-numeric symbols for these boxes are ' " . -

For example, all of the below strings should result in a value of 40.5:
40.5
40.5"
3'4.5
3' 4.5
3'4.5"
3'-4.5
3'-4.5"
3'4 1/2
3'4 1/2"
3' 4 1/2
3'-4 1/2
3'-4 1/2"

Feet only inputs are also valid. 3' should result in a value of 36

Default: Choose by column size

Remove this option

Auto filled with current date

The draw button should be greyed out unless all necessary inputs are provided and valid.
Required inputs:
Width (X), a number within the allowed range
Length (Y), a number within the allowed range
Height (Z), a number within the allowed range
Quantity, a positive integer
A list of plywood sheet sizes, the sum must = Z
Everything else is optional

ColumnCreator (Version 4.2)

Gates Columns | Scissor Clamp Columns

Units in inches or ft'-in"

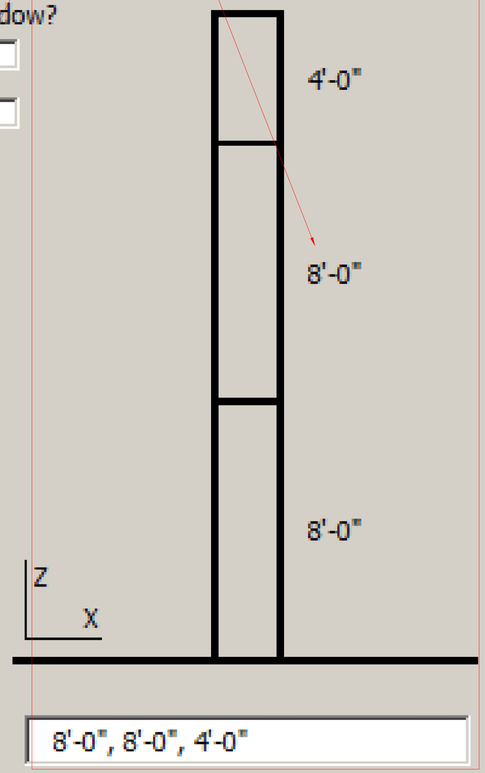
		Window?
Width (X)	24	☐
Length (Y)	18	☐
Height (Z)	240	
Quantity	1	

Squaring Corners
- ○ Regular
- ◉ Picking

Plywood type: HDO

Clamp size
- ○ 8-24 Gates
- ○ 24-36 Gates
- ○ 36-48 Gates
- ◉ Choose by column size

☑ Allow mismatched clamps



8'-0", 8'-0", 4'-0"

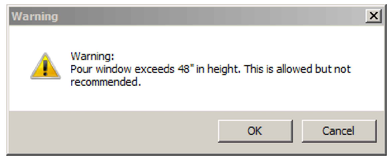
Sheet Fields

Sheet name	24" x 18" GATES COLUMN FORM
Project title	Project Title
Project address	Project Address
Date	12/3/2020
Sheet issued for…	
Scale (___ To 1'-0")	0.75
Drawn by	MCC
Job #	999
Sheet	1.0.0
Suffix	A
McClone Area	NCA

Save | Load

Draw Gates!

User can edit this blue text to set the location of the window seam.
If the top window dimension is >48" then warn the user like this:



No picking squaring corners allowed when a window is used.

ColumnCreator (Version 4.2)

Gates Columns | Scissor Clamp Columns

Units in inches or ft'-in"

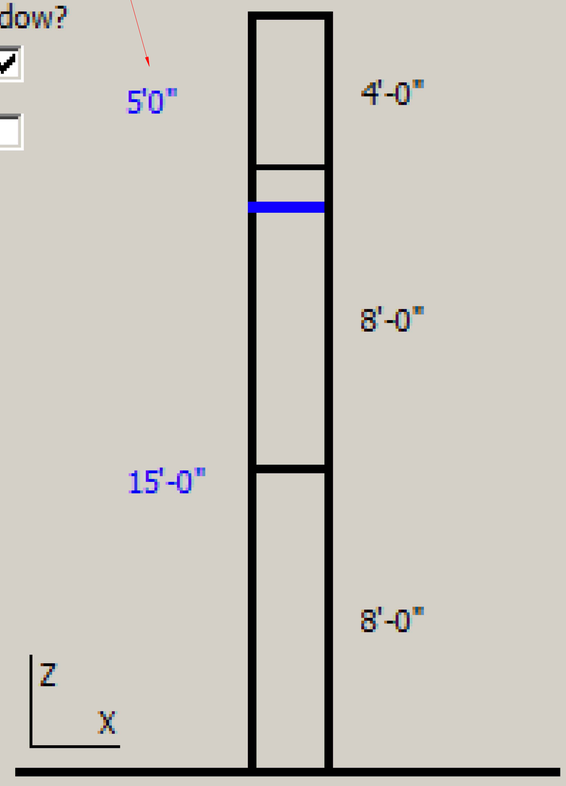
		Window?
Width (X)	24	☑
Length (Y)	18	☐
Height (Z)	240	
Quantity	1	

Squaring Corners
(•) Regular ( ) Picking

Plywood type: HDO

Clamp size
( ) 8-24 Gates
( ) 24-36 Gates
( ) 36-48 Gates
(•) Choose by column size

☑ Allow mismatched clamps



8'-0", 8'-0", 4'-0"

Sheet Fields

Sheet name	24" x 18" GATES COLUMN FORM
Project title	Project Title
Project address	Project Address
Date	12/4/2020
Sheet issued for...	
Scale (___ To 1'-0")	0.75
Drawn by	MCC
Job #	999
Sheet	1.0.0
Suffix	A
McClone Area	NCA

Save | Load

Draw Gates!

Scissor clamp columns can't have windows

Min x: 8", max x: 46"
Default: -blank-

Min x: 8", max x: 46"
Default: -blank-

Min x: 12", max x: 40"
Default: -blank-

Only positive integers allowed
Default: -blank-

ColumnCreator (Version 4.2)

Gates Columns | Scissor Clamp Columns

Units in inches or ft'-in"

Width (X): 24

Length (Y): 18

Height (Z): 240

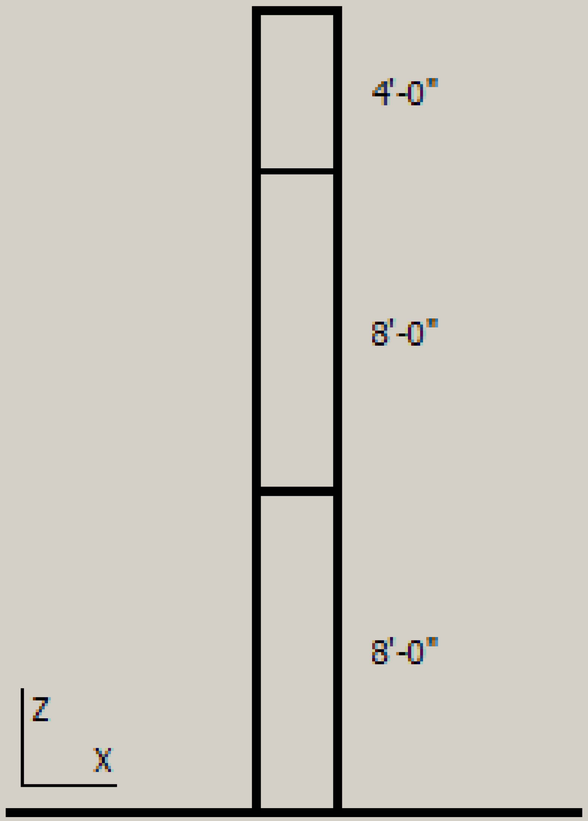
Quantity: 1

Maximum height
w/ full liquid head: 16'-3"

Plywood type: HDO

Clamp size
- 36" Scissor clamp
- 48" Scissor clamp
- 60" Scissor clamp
- Choose by column size

Allow mismatched clamps



8'-0", 8'-0", 4'-0"

Sheet Fields

Sheet name	24" x 18" SCISSOR CLAMP COLUMN FAE
Project title	Project Title
Project address	Project Address
Date	12/4/2020
Sheet issued for...	
Scale (___ To 1'-0")	0.75
Drawn by	MCC
Job #	999
Sheet	1.0.0
Suffix	A
McClone Area	NCA

Save | Load

Draw Scissors!

Precise dimensioning is essential.
Development must occur in an Imperial unit environment.

I've broken out this sheet into 4 phases. I want to review progress and polish the output before moving on to the next phase.

Sheets need to print in greyscale.

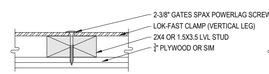
Z:\SHARED\COLLABORATION\ENGINEERING\DEVELOPMENT\REVIT

12/3/2020 1:47:53 PM

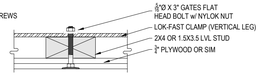
Phase 4: Everything remaining

CLAMP ATTACHMENT NOTES:

1) USE 1/4"Ø X 2-3/8" GATES SPAX POWERLAG SCREWS FOR ALL CLAMP SETS EXCEPT FOR THE TOP (RIGGING) CLAMPS & AT OPERATOR ANGLE CORNERS FOR LOWER CLAMPS - REF. DETAIL 4A.
2) USE 5/16" Ø x 3" GATES FLAT HEAD BOLTS FOR THE TOP CLAMP ATTACHMENTS & AT OPERATOR ANGLE CORNERS FOR LOWER CLAMPS - REF. DETAIL 4B.

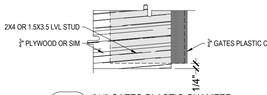


DETAIL 3A - GATES SPAX POWERLAG SCREW THROUGH PLYWOOD, STUD, AND CLAMP.

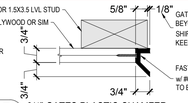


DETAIL 3B - GATES FLAT HEAD BOLT THROUGH PLYWOOD, STUD, AND CLAMP.

3 CLAMP ATTACHMENTS



2A 3/4" GATES PLASTIC CHAMFER



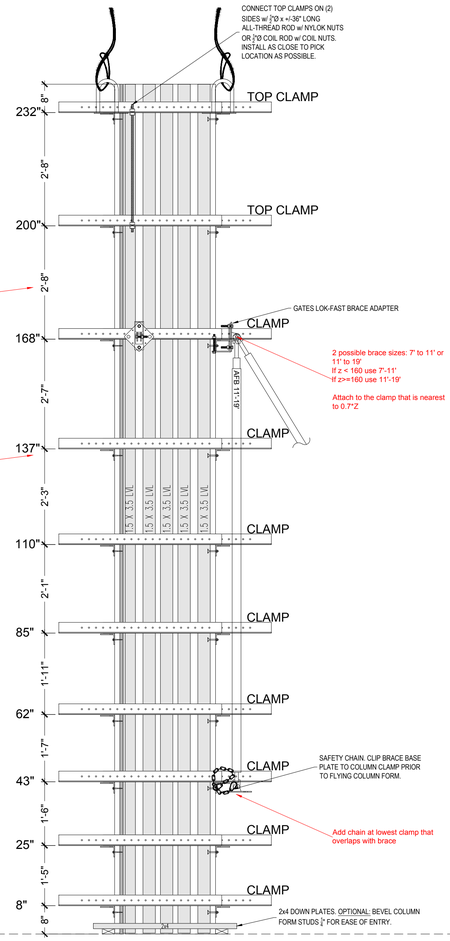
2B 3/4" GATES PLASTIC CHAMFER

1/4"Ø X 2-3/8" GATES SPAX POWERLAG SCREW

5/16"Ø X 3" GATES FLAT HEAD BOLT

FASTENERS

Phase 3: Elevation view



Get clamp spacing from clamp_matrix:
Column 1: larger side (x or y)
Remaining columns: spacing between clamps.
If height doesn't perfectly align with clamp spacing...
-Ensure it uses a number of clamps => the next taller column which does fit the clamp spacing.
- Add excess clamps at the bottom. The minimum clamp spacing is always 8", including to the top and bottom of the column.
Do not allow clamps to overlap.

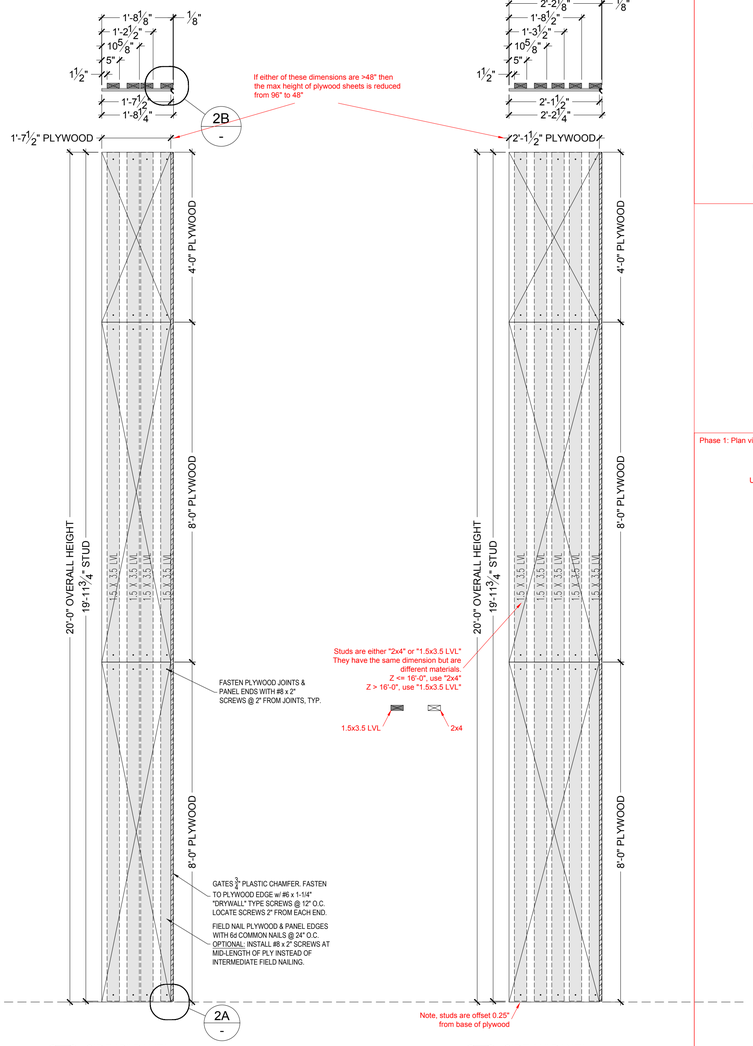
Clamp size is found by considering the larger of X and Y.
If <24" use size 8-24
Elseif <=36" use size 12-36
Elseif <=48" use size 24-48
Refer to ACAD blocks for precise dimensions of each size.

2 possible brace sizes: 7' to 11' or 11' to 19'
If z < 160 use 7'-11'
If z>=160 use 11'-19'

Attach to the clamp that is nearest to 0.7"Z

E COLUMN FORM ELEVATION
FAB 1-EA

Phase 2: Panel views



If either of these dimensions are >48" then the max height of plywood sheets is reduced from 96" to 48"

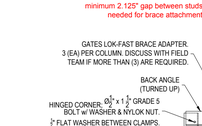
Studs are either "2x4" or "1.5x3.5 LVL"
They have the same dimension but are different materials.
Z <= 16'-0", use "2x4"
Z > 16'-0", use "1.5x3.5 LVL"

Note, studs are offset 0.25" from base of plywood

B SIDE "B" PANEL
VIEWED FROM PLYWOOD FACE

If X=Y then label all sides "Side A" and do not show anything for "Side B"

A SIDE "A" PANEL
VIEWED FROM PLYWOOD FACE



4 ALTERNATE PICKING DETAILS

All these details are static and never change.

DESIGN AND FABRICATION NOTES

- COLUMN SIZE = 24" X 18" — From width (X) and length (Y)
- NUMBER OF COLUMN FORMS = 1-EA — From quantity
- COLUMN FORM WEIGHT (APPROXIMATE) = 2300-LBS
- PLYWOOD = 3/4" PLYFORM (HDO), CLASS-1 (MIN) — From plywood type box on userform
- COLUMN FORMS AND CLAMP SPACING LAYOUTS FOR L4 X 3 X 1/4 GATES LOK-FAST COLUMN CLAMPS ARE DESIGNED FOR A POUR RATE = FULL LIQUID HEAD U.N.O.
- CONTACT THE MCC ENGINEER PRIOR TO ANY CHANGES OR MODIFICATIONS TO THE DETAILS ON THIS SHEET.

Calculated by this formula: RoundUp(wt_ply + wt_stud + wt_clamp + wt_brace + 50, 100)

wt_ply = (2.2 lb/ft^2) * (total plywood area in ft^2)
wt_stud = wt_stud_size * (total lumber length in ft)
- wt_stud_size = 1.31 lbs for 2x4s
- wt_stud_size = 1.80 lbs for 1.5x3.5 LVLs

wt_clamp = wt_clamp_size * (total # of clamp sets)
- wt_clamp_size = 76 lbs for 08-24 Gates clamps
- wt_clamp_size = 100 lbs for 12-36 Gates clamps
- wt_clamp_size = 123 lbs for 24-48 Gates clamps
- wt_clamp_size = 40 lbs for 36" scissor clamps
- wt_clamp_size = 56 lbs for 48" scissor clamps
- wt_clamp_size = 85 lbs for 60" scissor clamps

wt_brace = wt_brace_size * 3
- wt_brace_size = 52 lbs for 7-11 braces
- wt_brace_size = 76 lbs for 11-19 braces

COMPONENTS

All counts in this section are multiplied by quantity

PLYWOOD
- (4-EA) = (1-COL) X (4-EA/COL) @ 2'-1 1/2" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (4-EA) = (1-COL) X (4-EA/COL) @ 1'-7 1/2" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (2-EA) = (1-COL) X (2-EA/COL) @ 2'-1 1/2" WIDE X 4'-0" LONG 3/4" PLYWOOD
- (2-EA) = (1-COL) X (2-EA/COL) @ 1'-7 1/2" WIDE X 4'-0" LONG 3/4" PLYWOOD

STUDS
- (18-EA) = (1-COL) X (18-EA/COL) @ 19'-11 3/4" 1.5" X 3.5" LVL

COLUMN CLAMPS
- (10-EA) = (1-COL) X (10-EA/COL) @ GATES 12/36 LOK-FAST CLAMP ASSEMBLIES (SETS).

FASTENERS
- (52-EA) = (1-COL) X (52-EA/COL) @ 5/16" X 3" GATES FLAT HEAD BOLTS
- (52-EA) = (1-COL) X (52-EA/COL) @ 5/16"-18 UNC NYLOK LOCK NUTS
- (128-EA) = (1-COL) X (128-EA/COL) @ 1/4" X 2-3/8" GATES SPAX POWERLAG SCREWS
- (2-EA) = (1-COL) X (2-EA/COL) @ 1/2"-13 UNC X +/-36" LONG ALL-THREADED ROD
- (8-EA) = (1-COL) X (8-EA/COL) @ 1/2"-13 UNC NYLOK LOCK NUTS
- (8-EA) = (1-COL) X (8-EA/COL) @ 1/2" STANDARD FLAT WASHER

3/4" GATES PLASTIC CHAMFER (BASED ON 12' CHAMFER LENGTHS)
- (7-EA) = (1-COL) X (7-EA/COL) @ 12'-0" LONG PIECES

GATES ADJUSTABLE FORM BRACES (INCLUDING FORM BASE PLATES)
- (3-EA) = (1-COL) X (3EA/COL) 11'-TO-19' LONG GATES AFB

HOISTING SLINGS
- (2-EA) = (1-COL) X (2EA/COL) ENDLESS ROUND SLINGS; LIFTEX P/N "ENR1", PURPLE; SWL = 2400-LBS. PER SLING IN CHOKER CONFIGURATION.

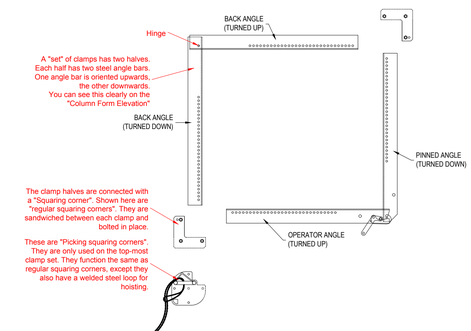
2 possible brace sizes: 7' to 11' or 11' to 19'
If z < 160 use 7'-11'
If z>=160 use 11'-19'

If weight <=2400lbs call out
"PURPLE SWL = 2400-LBS"
if weight >2400lbs call out
"GREEN SWL = 4800-LBS"

Phase 1: Plan view only.

Get number of studs from n_stud_matrix
Use side length and height. If length or height is between values in n_stud_matrix, then use the higher number.

1 CLAMP FASTENING DETAILS



McCLONE CONSTRUCTION | SINCE 1974
NORTHERN CALIFORNIA OFFICE
4340 PRODUCT DRIVE - SHINGLE SPRINGS, CA 95682 - (530) 677-1022

24" x 18" GATES COLUMN FORM

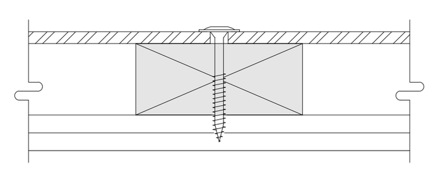
Project Title
Project Address

SHEET ISSUE DATE: 12/3/2020
SHEET ISSUE STATUS: PRELIMINARY
SCALE: 3/4" = 1'-0"
DRAWN BY: MCC
JOB: 999
SHEET: 1.0.0
SHEET SUFFIX: A

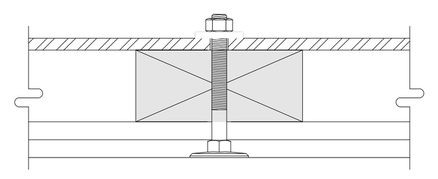
24X36 ORIGINAL SHEET SIZE

CLAMP ATTACHMENT NOTES:

1) USE 1/4"Ø X 2-3/8" GATES SPAX POWERLAG SCREWS FOR ALL CLAMP SETS EXCEPT FOR THE TOP (RIGGING) CLAMPS & AT OPERATOR ANGLE CORNERS FOR LOWER CLAMPS - REF. DETAIL 4A.
2) USE 5/16" Ø x 3" GATES FLAT HEAD BOLTS FOR THE TOP CLAMP ATTACHMENTS & AT OPERATOR ANGLE CORNERS FOR LOWER CLAMPS - REF. DETAIL 4B.

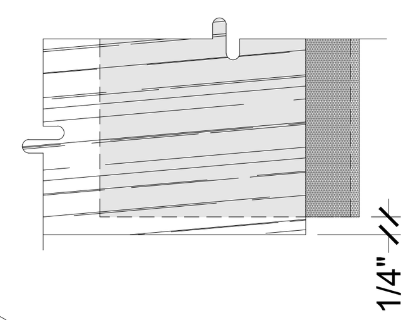


DETAIL 3A - GATES SPAX POWERLAG SCREW THROUGH PLYWOOD, STUD, AND CLAMP.

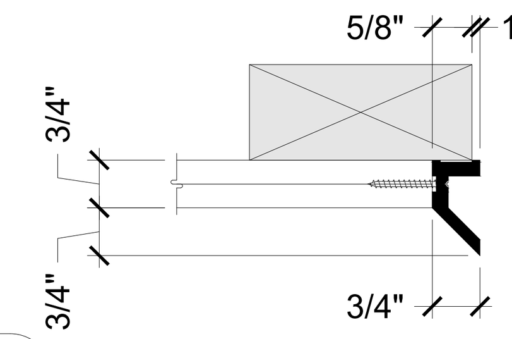


DETAIL 3B - GATES FLAT HEAD BOLT THROUGH PLYWOOD, STUD, AND CLAMP.

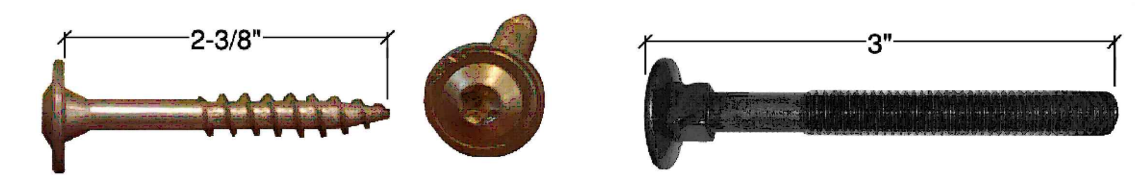
3 CLAMP ATTACHMENTS (3" = 1'-0")



2A 3/4" GATES PLASTIC CHAMFER (4" = 1'-0")



2B 3/4" GATES PLASTIC CHAMFER (4" = 1'-0")



1/4"Ø X 2-3/8" GATES SPAX POWERLAG SCREW

5/16"Ø X 3" GATES FLAT HEAD BOLT

FASTENERS

DESIGN AND FABRICATION NOTES

- COLUMN SIZE = 18" X 24"
- NUMBER OF COLUMN FORMS = 1-EA
- COLUMN FORM WEIGHT (APPROXIMATE) = 2500-LBS
- PLYWOOD = 3/4" PLYFORM (HDO), CLASS-1 (MIN)
- COLUMN FORMS AND CLAMP SPACING LAYOUTS FOR L4 X 3 X 1/4 GATES LOK-FAST COLUMN CLAMPS ARE DESIGNED FOR A POUR RATE = FULL LIQUID HEAD U.N.O.
- CONTACT THE MCC ENGINEER PRIOR TO ANY CHANGES OR MODIFICATIONS TO THE DETAILS ON THIS SHEET.

COMPONENTS

PLYWOOD
- (4-EA) = (1-COL) X (4-EA/COL) @ 1'-7 1/2" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (3-EA) = (1-COL) X (3-EA/COL) @ 2'-1 1/2" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (2-EA) = (1-COL) X (2-EA/COL) @ 1'-7 1/2" WIDE X 4'-0" LONG 3/4" PLYWOOD
- (1-EA) = (1-COL) X (1-EA/COL) @ 2'-1 1/2" WIDE X 4'-0" LONG 3/4" PLYWOOD
- (1-EA) = (1-COL) X (1-EA/COL) @ 2'-1 1/2" WIDE X 7'-0" LONG 3/4" PLYWOOD
- (1-EA) = (1-COL) X (1-EA/COL) @ 2'-1 1/2" WIDE X 5'-0" LONG 3/4" PLYWOOD

STUDS
- (13-EA) = (1-COL) X (13-EA/COL) @ 19'-11 3/4" 1.5" X 3.5" LVL
- (5-EA) = (1-COL) X (5-EA/COL) @ 14'-10 3/4" 1.5" X 3.5" LVL
- (5-EA) = (1-COL) X (5-EA/COL) @ 4'-11" 1.5" X 3.5" LVL

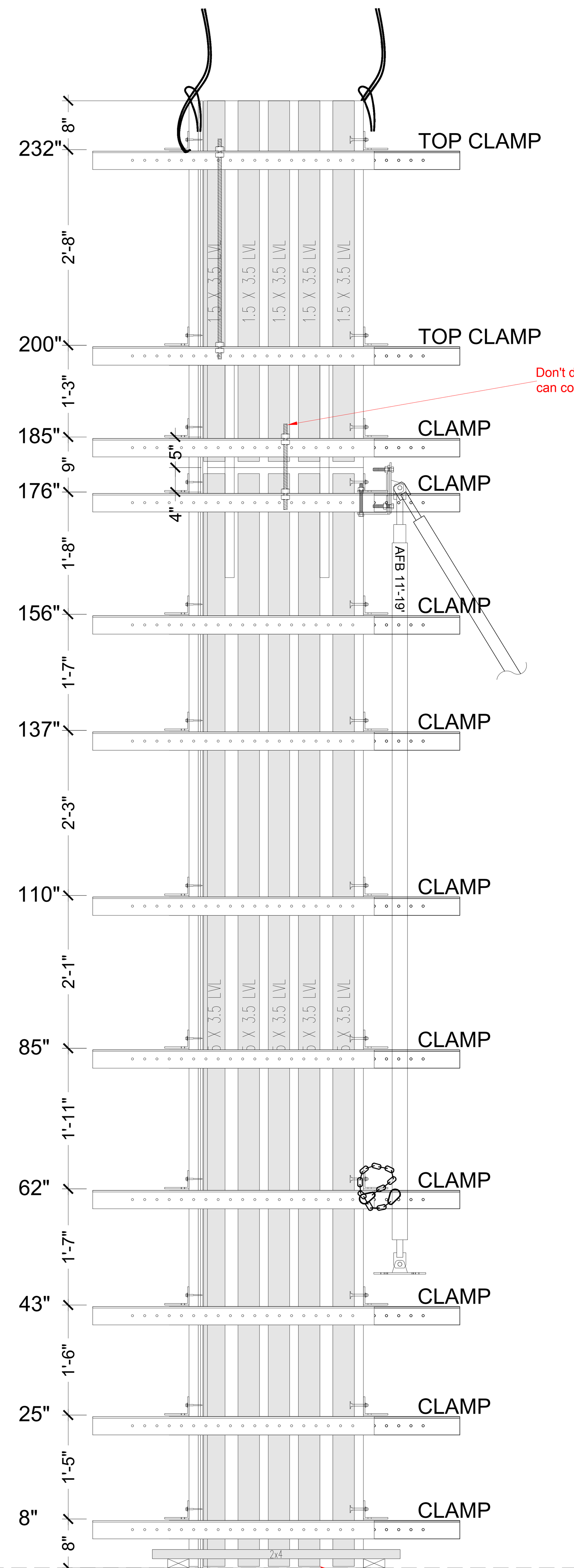
COLUMN CLAMPS
- (12-EA) = (1-COL) X (12-EA/COL) @ GATES 12/36 LOK-FAST CLAMP ASSEMBLIES (SETS).

FASTENERS
- (56-EA) = (1-COL) X (56-EA/COL) @ 5/16" X 3" GATES FLAT HEAD BOLTS
- (56-EA) = (1-COL) X (56-EA/COL) @ 5/16"-18 UNC NYLOK LOCK NUTS
- (160-EA) = (1-COL) X (160-EA/COL) @ 1/4" X 2-3/8" GATES SPAX POWERLAG SCREWS
- (2-EA) = (1-COL) X (2-EA/COL) @ 1/2"-13 UNC X +/-36" LONG ALL-THREADED ROD
- (1-EA) = (1-COL) X (2-EA/COL) @ 1/2"-13 UNC X +/-14" LONG ALL-THREADED ROD
- (12-EA) = (1-COL) X (12-EA/COL) @ 1/2"-13 UNC NYLOK LOCK NUTS
- (12-EA) = (1-COL) X (12-EA/COL) @ 1/2" STANDARD FLAT WASHER

3/4" GATES PLASTIC CHAMFER (BASED ON 12' CHAMFER LENGTHS)
- (7-EA) = (1-COL) X (7-EA/COL) @ 12'-0" LONG PIECES

GATES ADJUSTABLE FORM BRACES (INCLUDING FORM BASE PLATES)
- (3-EA) = (1-COL) X (3EA/COL) 11'-TO-19' LONG GATES AFB

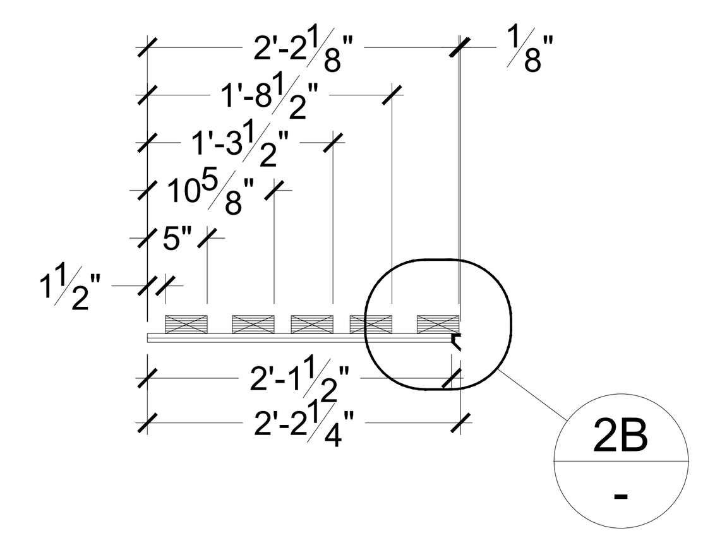
HOISTING SLINGS
- (2-EA) = (1-COL) X (2EA/COL) ENDLESS ROUND SLINGS; LIFTEX P/N "ENR2", GREEN. SWL = 4800-LBS. PER SLING IN CHOKER CONFIGURATION.

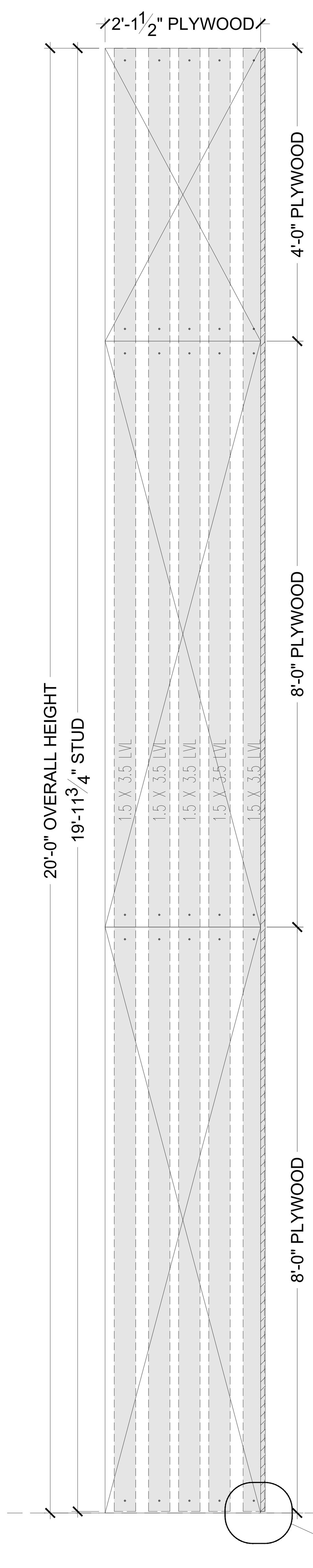


Don't draw this 14" rod if the main 36" rod can connect these clamps.

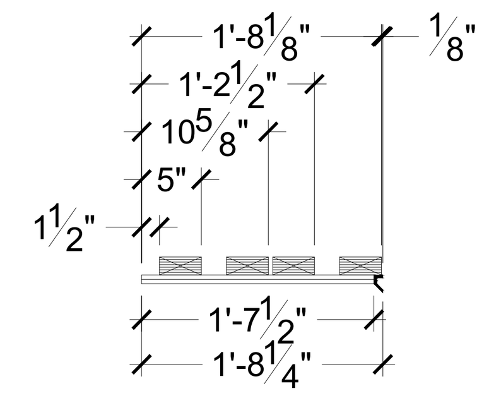
By default side X is shown here. The only exception is if a pour window is used on side Y, then we want to show that pour window so side Y is displayed.

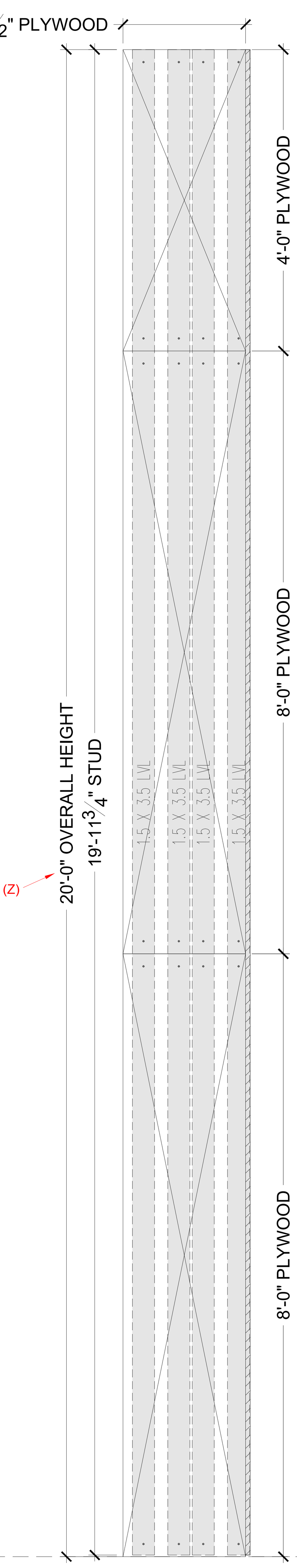
E COLUMN FORM ELEVATION
FAB 1-EA





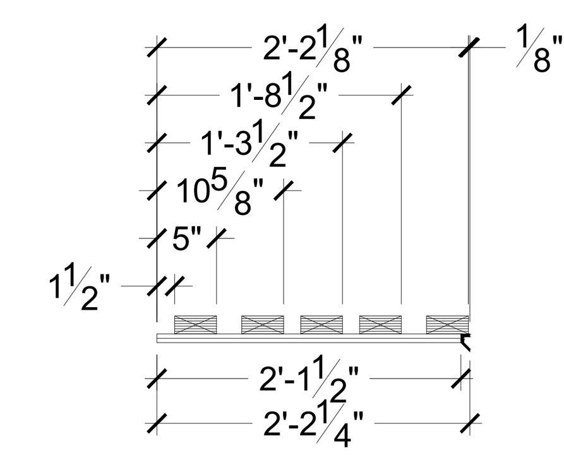
B SIDE "B" PANEL
VIEWED FROM PLYWOOD FACE

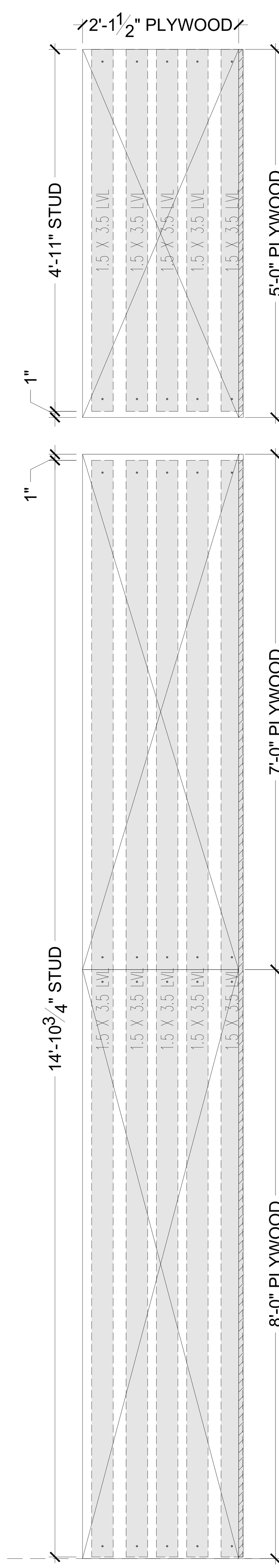




Height (Z)

A SIDE "A" PANEL
VIEWED FROM PLYWOOD FACE



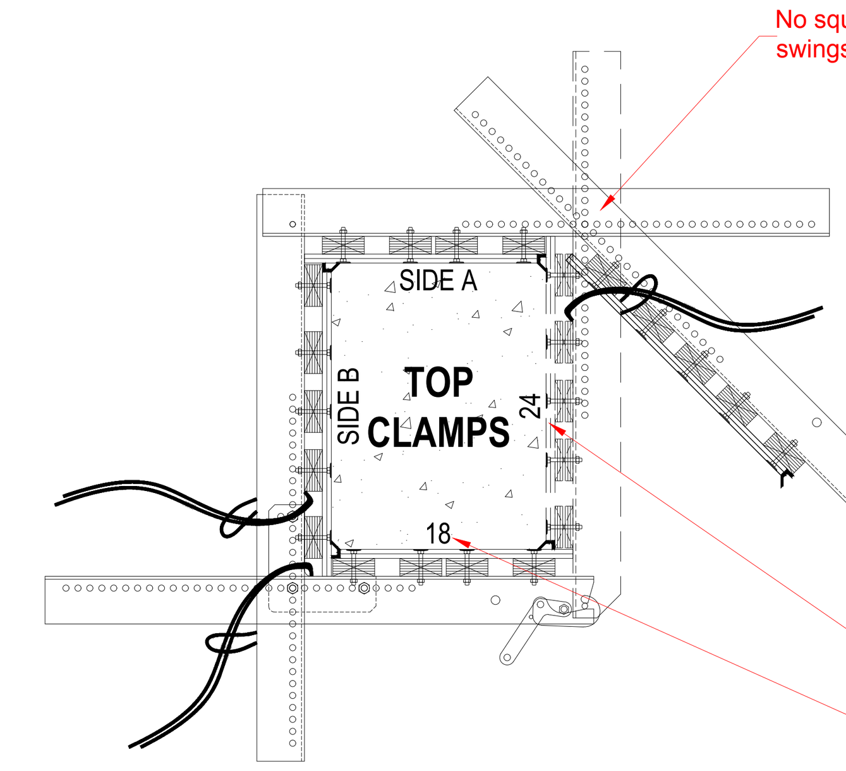


If the plywood sheets above or below the window seam can be combined into 1 sheet that's <96" tall then combine them.

W POUR WINDOW PANEL
VIEWED FROM PLYWOOD FACE

Columns with a window will have a 3rd type of side

No squaring corner used where window swings out.

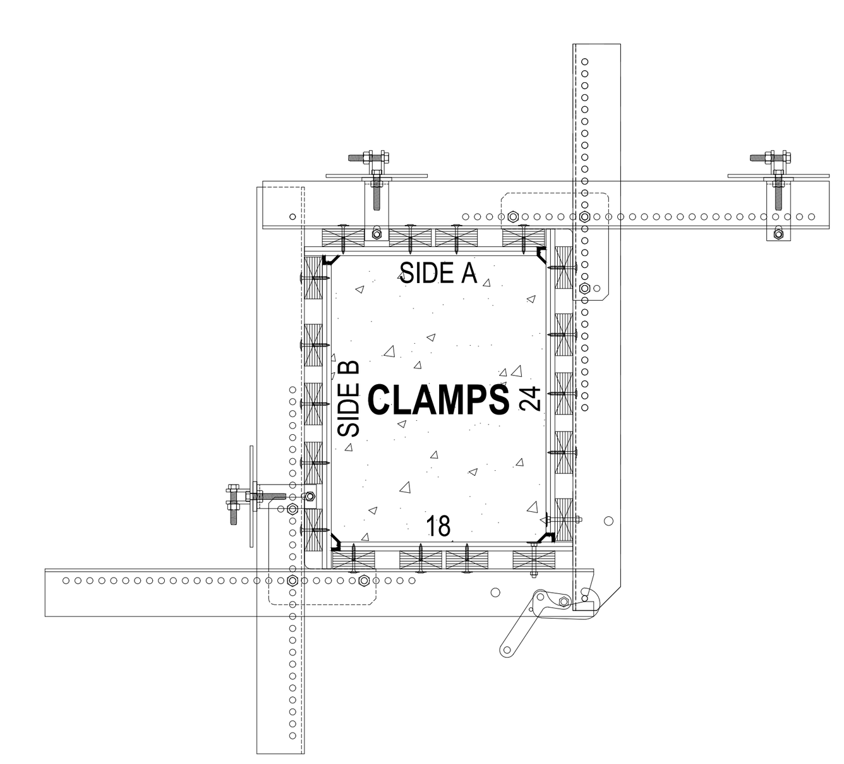


When a window is used, show an opening clamp

I'm only showing the window swing out on this side relative to paper, so the column is rotated which is why X is vertical here.

Height (X)

Length (Y)



1 CLAMP FASTENING DETAILS

24X36 ORIGINAL SHEET SIZE

McCLONE CONSTRUCTION | SINCE 1975
NORTHERN CALIFORNIA OFFICE
4340 PRODUCT DRIVE • SHINGLE SPRINGS, CA 95682 • (530) 677-1022

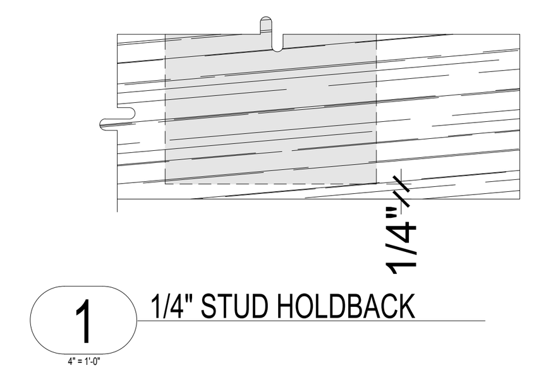
24" x 18" GATES COLUMN FORM

Project Title
Project Address

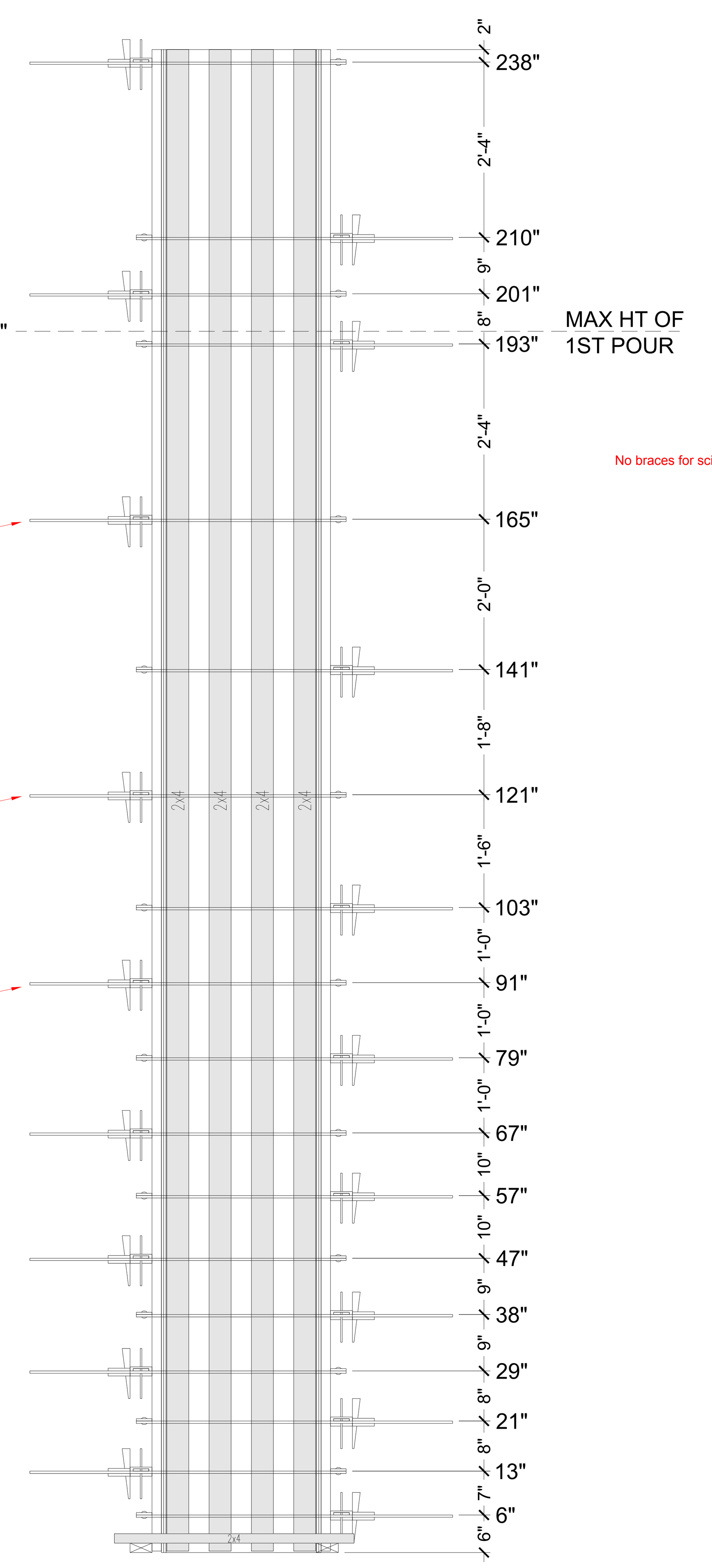
SHEET ISSUE DATE	12/4/2020
SHEET ISSUED FOR	PRELIMINARY
SCALE	3/4" = 1'-0"
DRAWN BY	MCC
JOB	999
SHEET	1.0.0
SHEET SUFFIX	A

Z:\SHARED\COLLABORATION\ENGINEERING\DEVELOPMENT\REVIT

12/4/2020 2:15:36 PM



1 1/4" STUD HOLDBACK



This height is from the userform "Maximum height w/ full liquid head". This is how tall the column can be poured before the crew must wait for the wet concrete to cure. Above this line, the clamp spacing pattern repeats from the top. A column may have up to 4 of these pours breaks

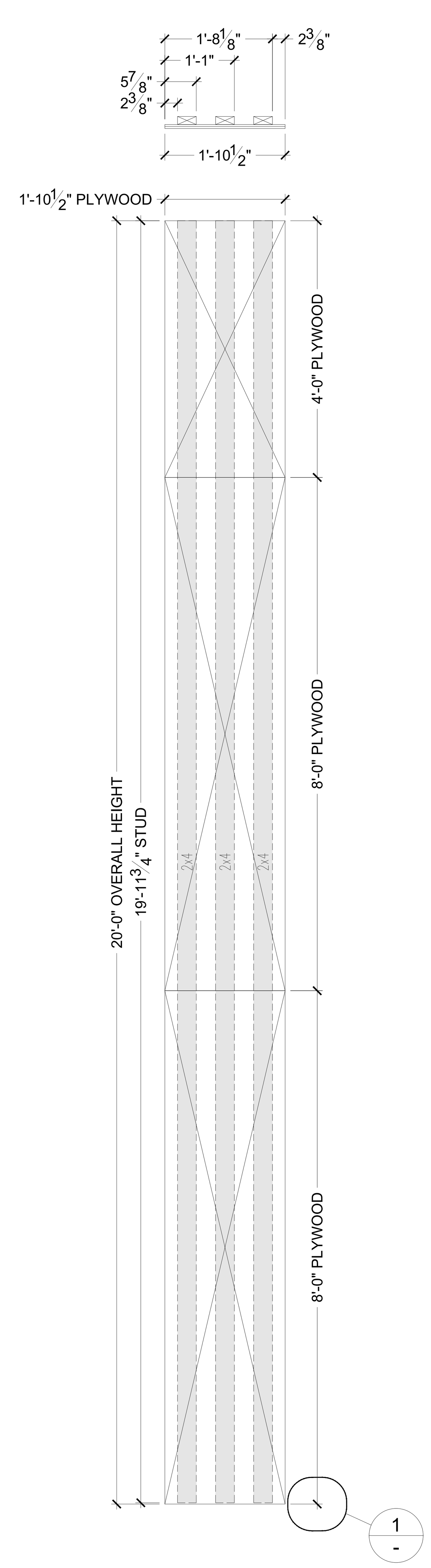
Scissor clamps alternate direction

Scissor clamp spacing from "scissor_clamp_matrix"
Column 1: maximum height w/ full liquid head" for given side length. If sides are different use whichever has the lower value in column 1.
Column 2: side length
Remaining columns: clamp spacing. Clamp spacing logic is same as Gates clamps.

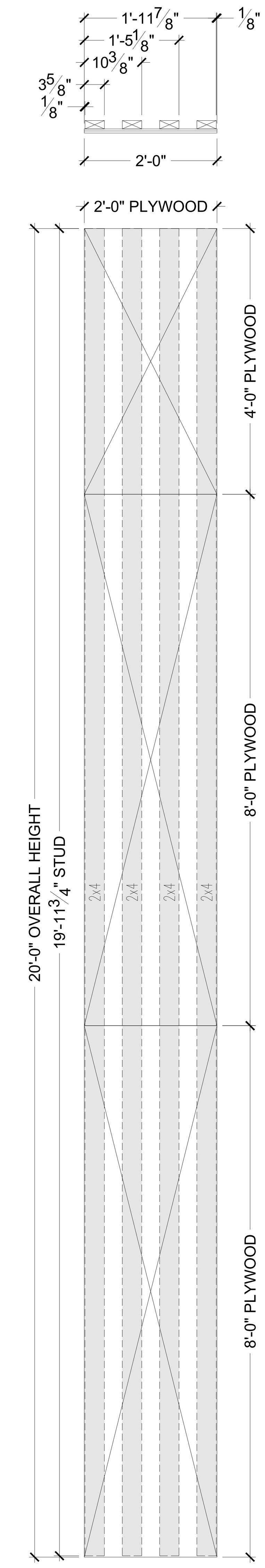
There are 3 scissor clamp sizes, select using the larger value of X and Y.
If < 23.5 use 36" scissor clamps
ElseIf <= 35.5 use 48" scissor clamps
ElseIf <= 46" use 60" scissor clamps

No braces for scissor clamps

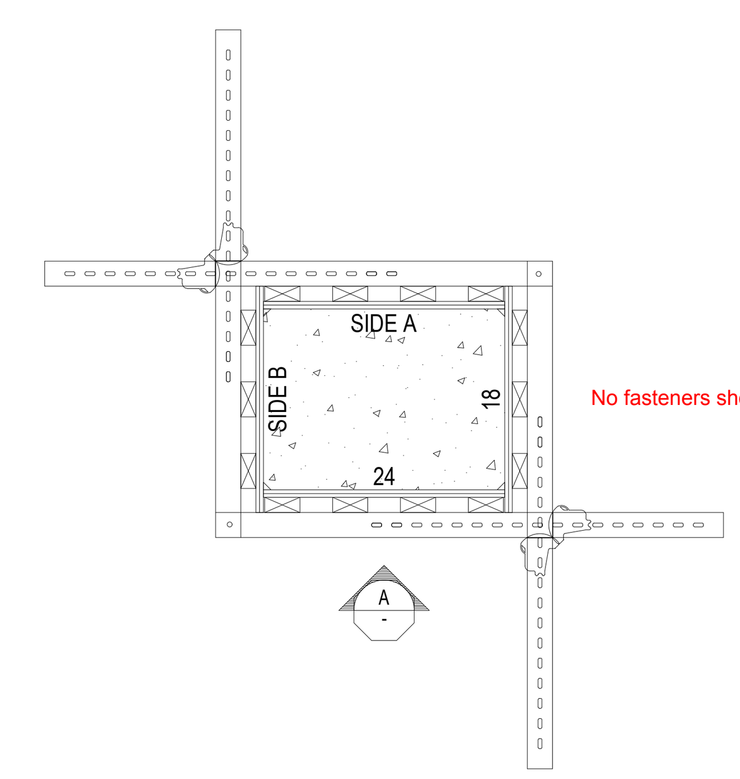
A COLUMN FORM ELEVATION
FAB 1-EA



B SIDE "B" PANEL
VIEWED FROM PLYWOOD FACE



C SIDE "A" PANEL
VIEWED FROM PLYWOOD FACE



No fasteners shown for scissor clamps

D PLAN VIEW

DESIGN AND FABRICATION NOTES

- COLUMN SIZE = 24" X 18"
- NUMBER OF COLUMN FORMS = 1-EA
- COLUMN FORM WEIGHT (APPROXIMATE) = 1800-LBS
- COLUMN PANEL WEIGHT (SINGLE PANEL) = 240-LBS
- PLYWOOD = 3/4" PLYFORM (HDO), CLASS-1 (MIN)
- COLUMN FORMS AND CLAMP SPACING LAYOUTS FOR SCISSOR CLAMPS ARE DESIGNED FOR A POUR RATE = 16'-3"
- CONTACT THE MCC ENGINEER PRIOR TO ANY CHANGES OR MODIFICATIONS TO THE DETAILS ON THIS SHEET.

Single panel weight is only plywood and studs on the larger of side A and side B.

From "Maximum height w/ full liquid head" on userform, which is from scissor_clamp_matrix

Calculated by this formula: RoundUp(wt_ply + wt_stud + wt_clamp + 50, 100)

wt_ply = (2.2 lb/ft^2) * (total plywood area in ft^2)
wt_stud = wt_stud_size * (total lumber length in ft)
wt_stud_size = 1.31 lbs for 2x4s
wt_stud_size = 1.80 lbs for 1.5x3.5 LVLs
wt_clamp = wt_clamp_size * (total # of clamp sets)
wt_clamp_size = 76 lbs for 08-24 Gates clamps
wt_clamp_size = 100 lbs for 12-36 Gates clamps
wt_clamp_size = 123 lbs for 24-48 Gates clamps
wt_clamp_size = 40 lbs for 36" scissor clamps
wt_clamp_size = 56 lbs for 48" scissor clamps
wt_clamp_size = 85 lbs for 60" scissor clamps

COMPONENTS

PLYWOOD
- (4-EA) = (1-COL) X (4-EA/COL) @ 2'-0" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (4-EA) = (1-COL) X (4-EA/COL) @ 1'-10 1/2" WIDE X 8'-0" LONG 3/4" PLYWOOD
- (2-EA) = (1-COL) X (2-EA/COL) @ 2'-0" WIDE X 4'-0" LONG 3/4" PLYWOOD
- (2-EA) = (1-COL) X (2-EA/COL) @ 1'-10 1/2" WIDE X 4'-0" LONG 3/4" PLYWOOD

STUDS
- (14-EA) = (1-COL) X (14-EA/COL) @ 19'-11 3/4" 2X4

SCISSOR CLAMP SETS (2 CLAMPS PER SET)
- (18-EA) = (1-COL) X (18-EA/COL) @ 48" SCISSOR CLAMP SETS

No fasteners specified for scissor clamps

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24" x 18" SCISSOR CLAMP COLUMN FAB

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24X36 ORIGINAL SHEET SIZE