

PRESENTED BY
STRUXURE WASHINGTON

PROJECT
SHANE & ROBYN MCARTHUR

ADDRESS
8609 SE 78TH ST MERCER
ISLAND, WA 98040

CONTRACT NO.
2106233

STRUXURE™

STRUXURE INC.
154 ETHAN ALLEN DRIVE
DAHLONEGA, GA 30533



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NOTES

FRAME: BRONZE
LOUVERS: ADOBE
ELEVATION: AT GRADE

DURING SUCH PERIODS OF TIME AS ARE DESIGNATED BY THE U.S. WEATHER BUREAU AS A HIGH WIND OR SNOW ADVISORY FOR THE AREA, THIS SYSTEM MUST BE LOCKED IN THE OPEN POSITION, WITH THE LOUVER BLADES VERTICAL THE STRUCTURE SHALL ALSO NOT BE WALKED UPON AND IS NOT DESIGNED FOR HUMAN ACTIVITY OR STORAGE.

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(800) 303-5248



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DESCRIPTION

DATE
05/06/22

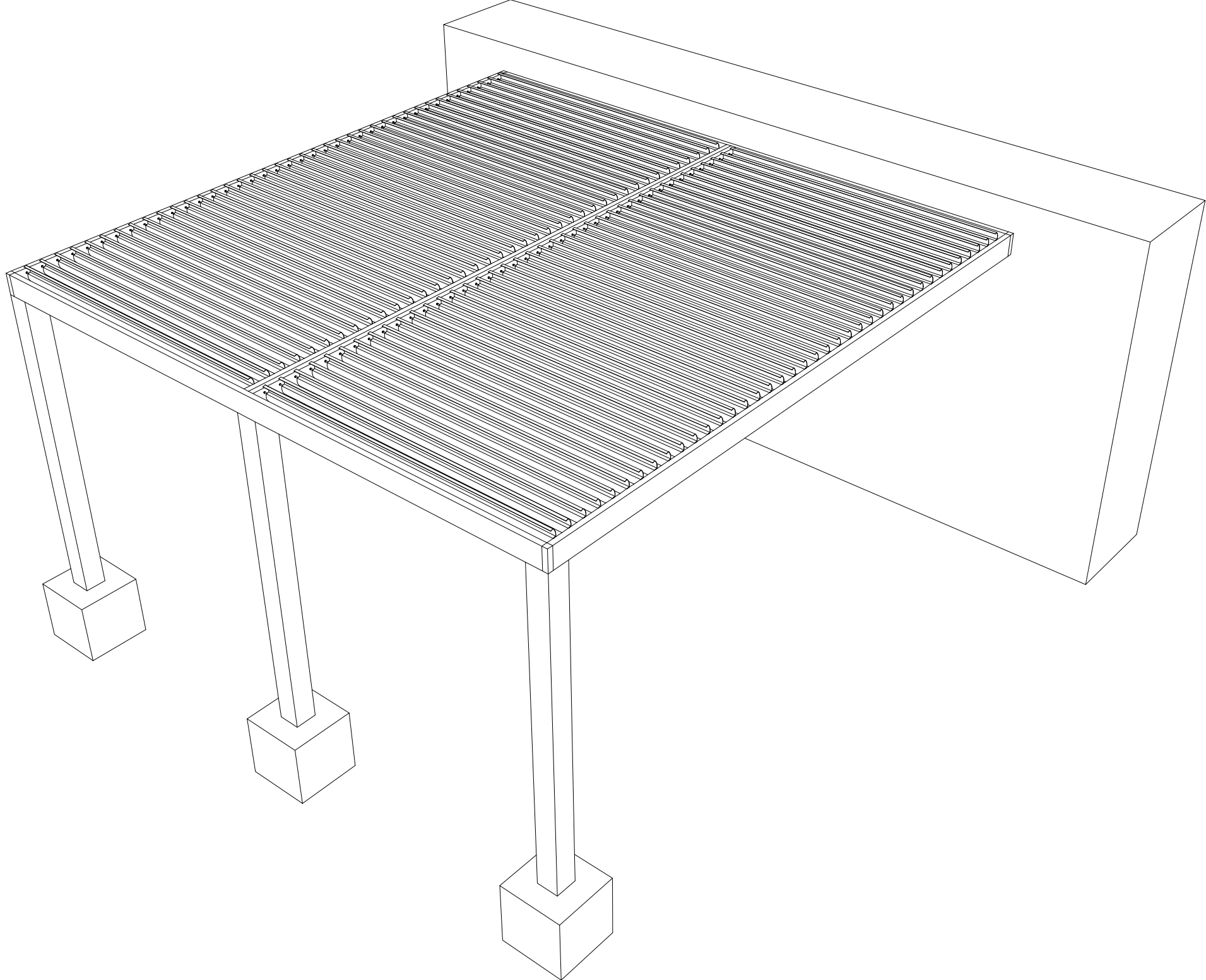
DRAWN BY
I&S

SCALE

SHEET NO.

A 100

ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6



LEGEND

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DESCRIPTION
 PERSPECTIVE
 VIEW

DATE
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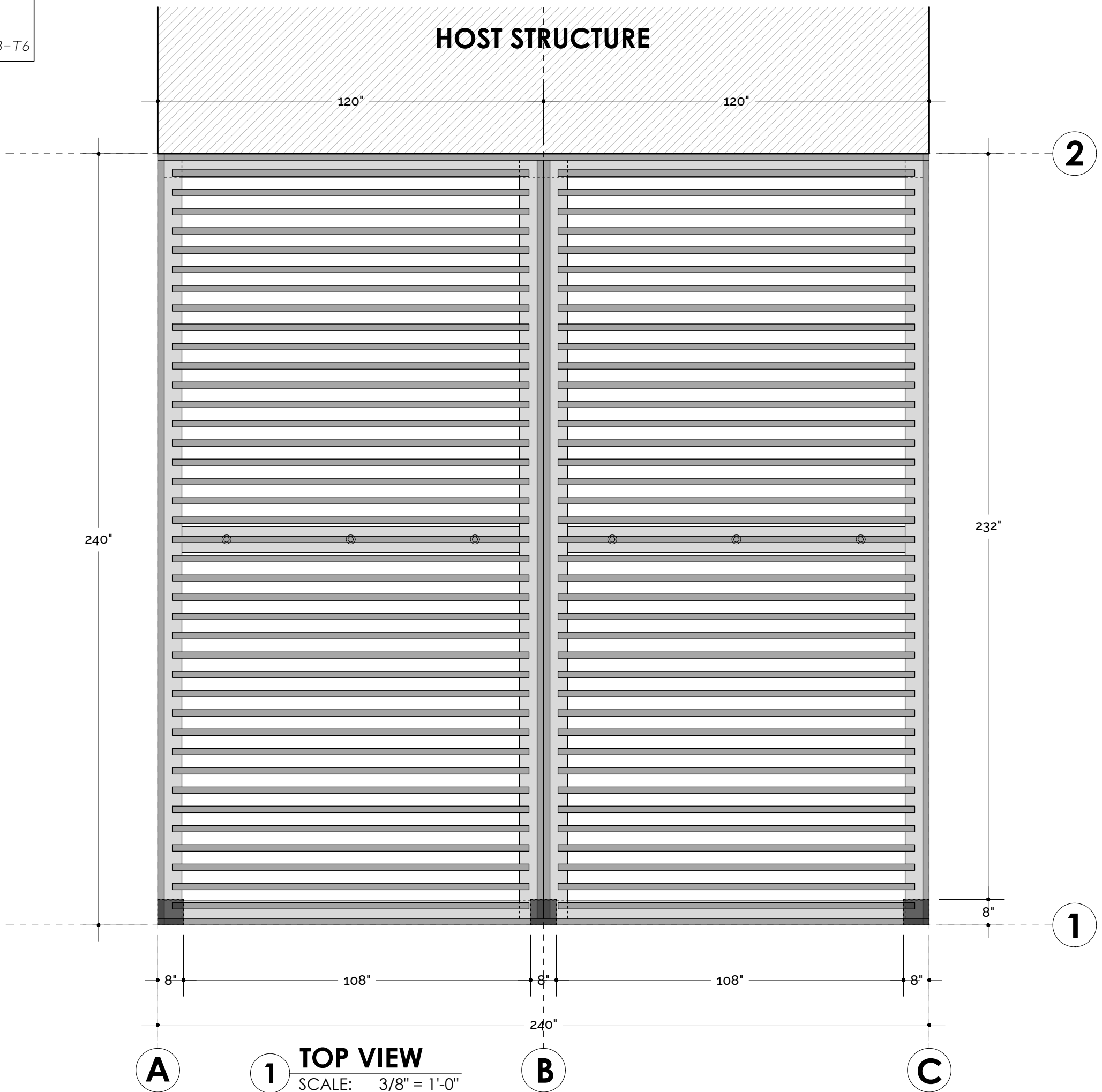
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SCALE
 N.T.S.

SHEET NO.
A 101

ALUMINUM TYPE:
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 ALL OTHER COMPONENTS 6063-T6

HOST STRUCTURE



1 TOP VIEW
 SCALE: 3/8" = 1'-0"



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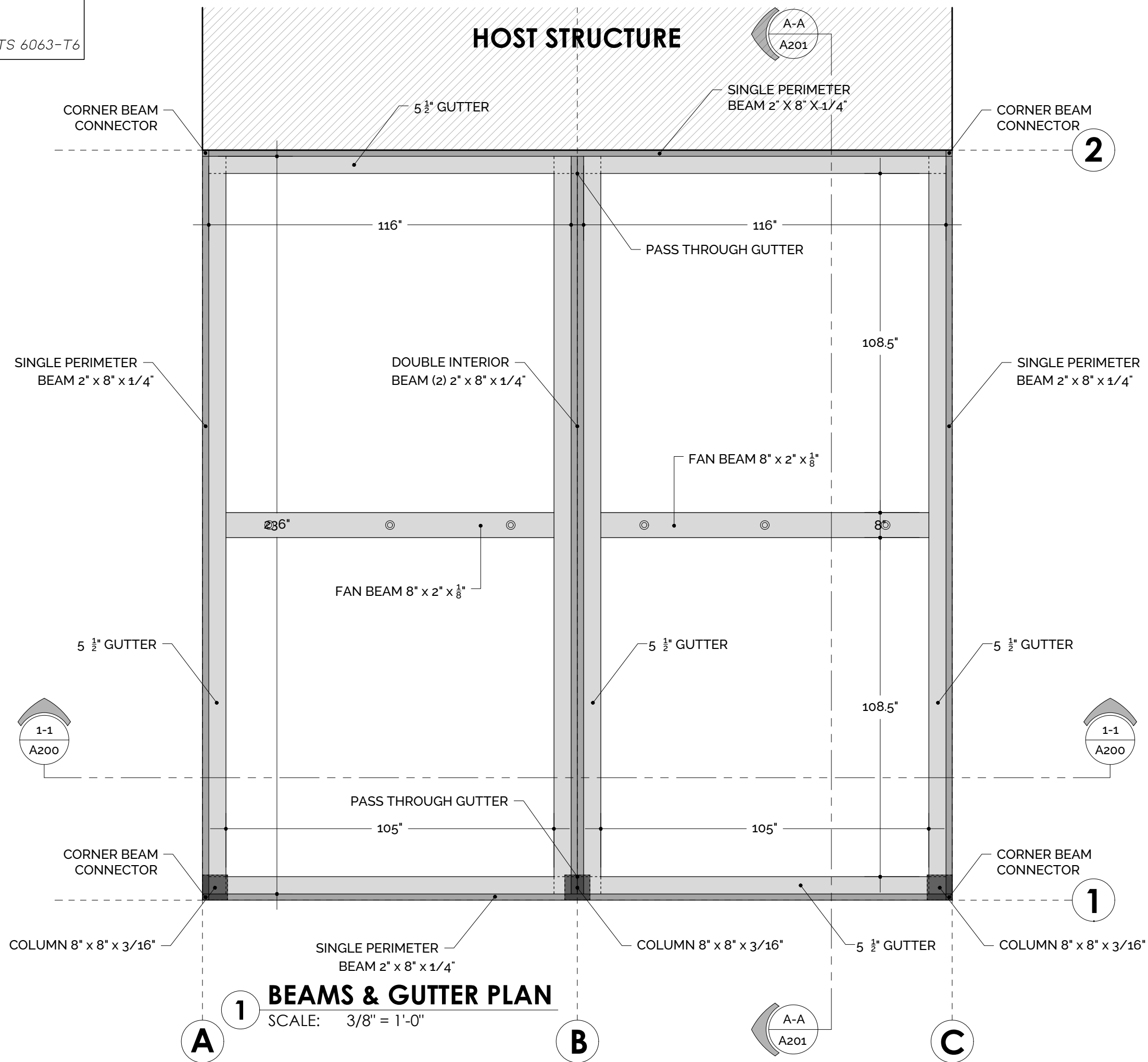
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DESCRIPTION	TOP VIEW
DATE	05/06/22
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SCALE	3/8" = 1'-0"
SHEET NO.	A 102

ALUMINUM TYPE:
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BEAMS & GUTTER PLAN

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

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DESCRIPTION
BEAMS &
GUTTER PLAN

DATE
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SCALE
3/8" = 1'-0"

SHEET NO.
A 103

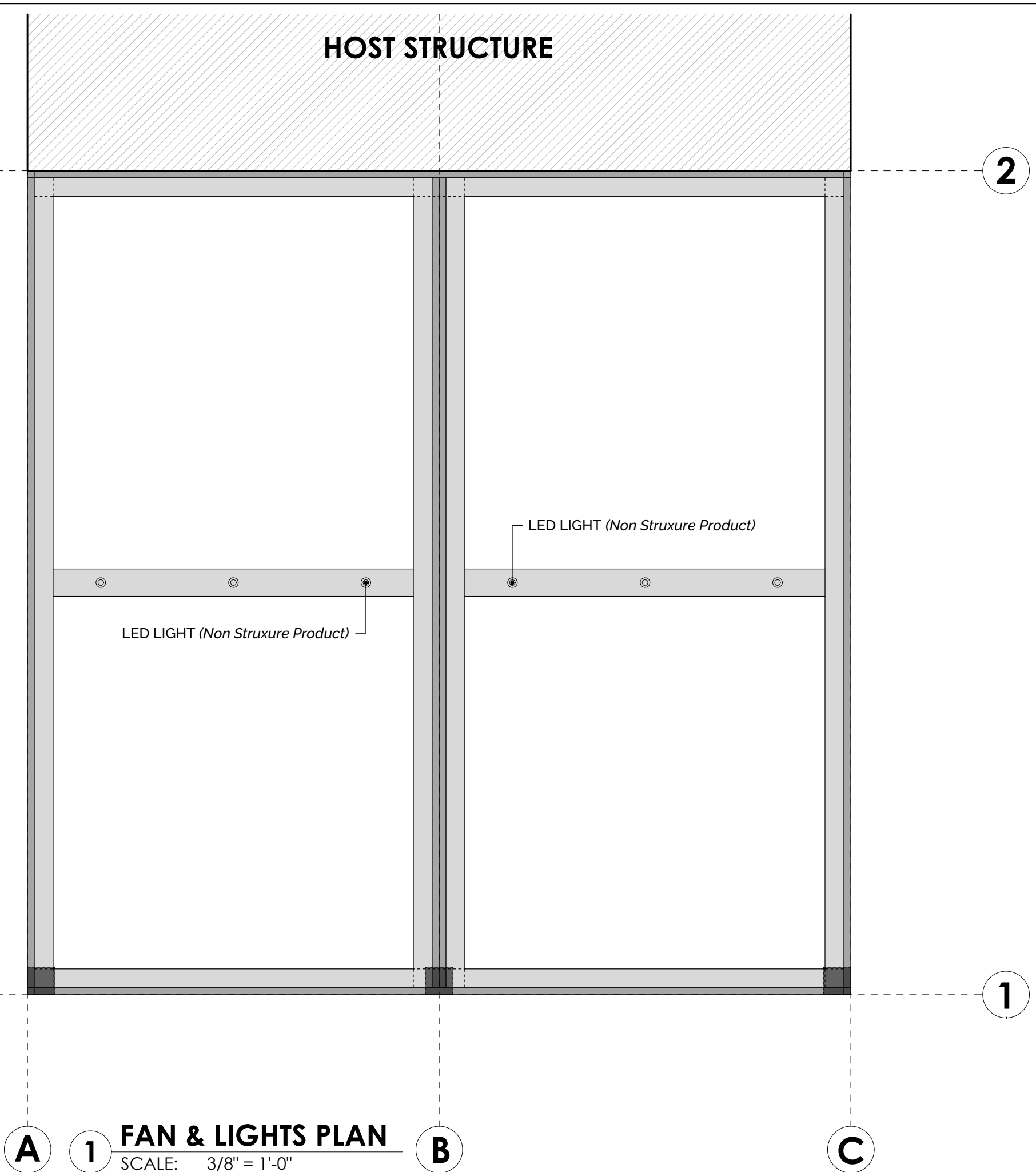


ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6

NOTE:
 FANS / LAMPS AND THEIR CONNECTION
 TO THE FAN BEAM (S) ARE BY OTHERS,
 AND ARE NOT INCLUDED IN THIS
 CERTIFICATION.

MAX FAN/ LAMP WEIGHT = 100 LBS.

HOST STRUCTURE



A 1 FAN & LIGHTS PLAN
 SCALE: 3/8" = 1'-0"

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DESCRIPTION
 BEAMS &
 GUTTER PLAN

DATE
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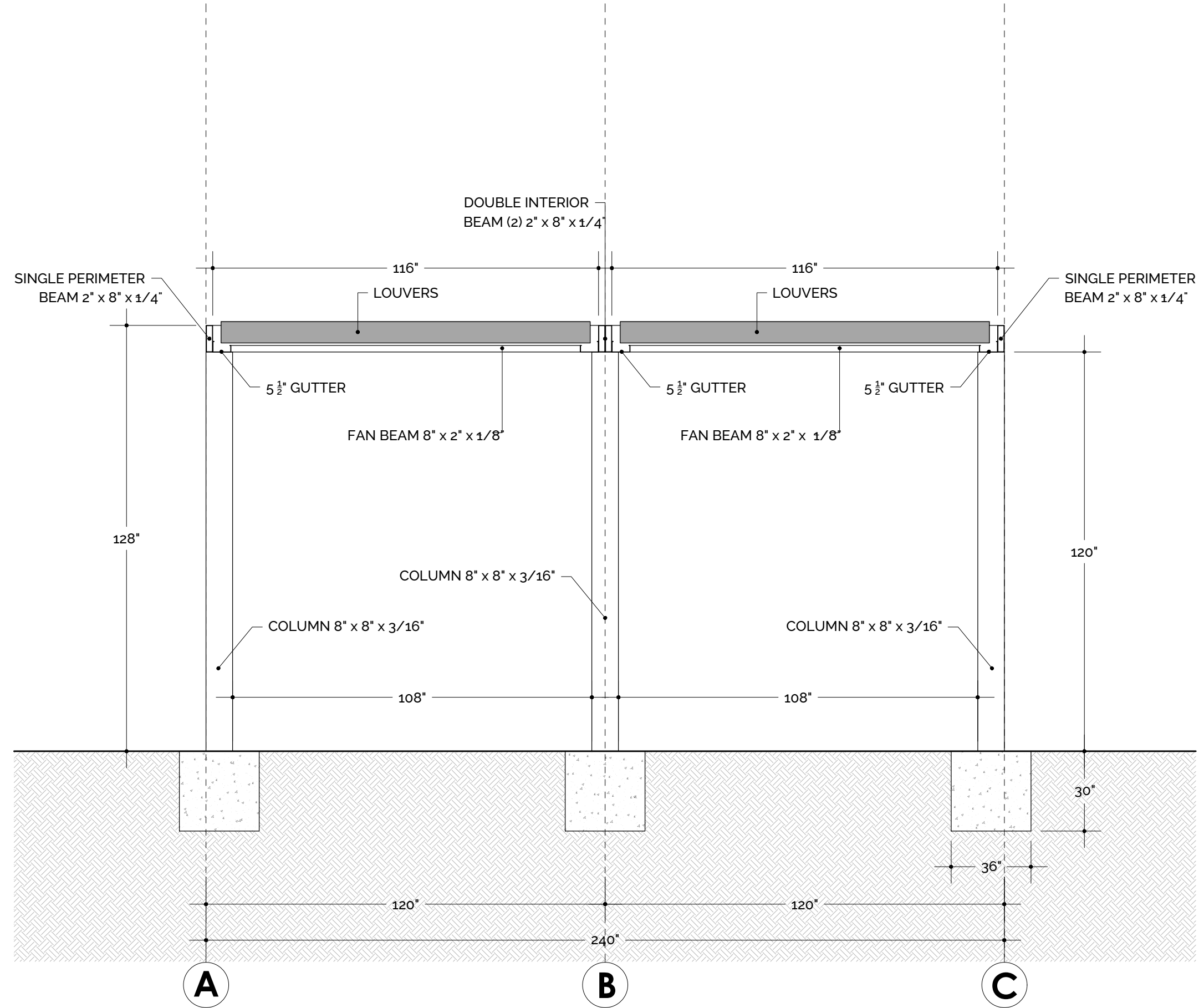
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SCALE
 3/8" = 1'-0"

SHEET NO.
A 104



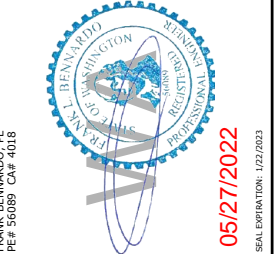
ALUMINUM TYPE:
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 ALL OTHER COMPONENTS 6063-T6



1 SECTION 1-1
 SCALE: 3/8" = 1'-0"



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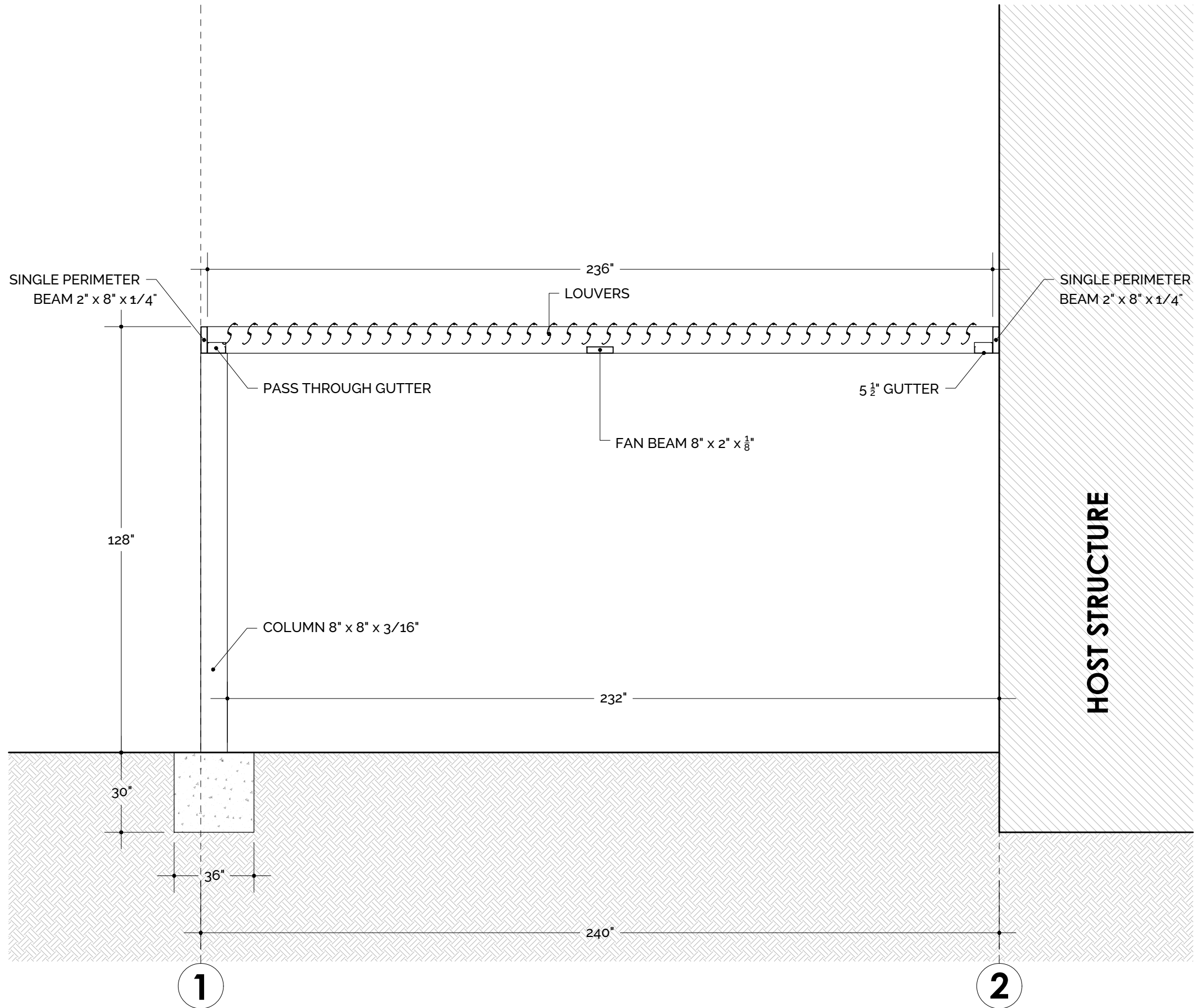
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DESCRIPTION	SECTION 1-1
DATE	05/06/22
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SCALE	3/8" = 1'-0"
SHEET NO.	A 200

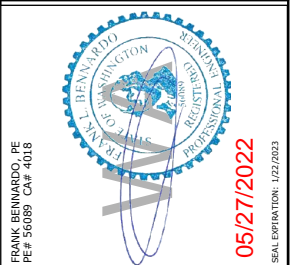
ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6



1 SECTION A-A
 SCALE: 3/8" = 1'-0"



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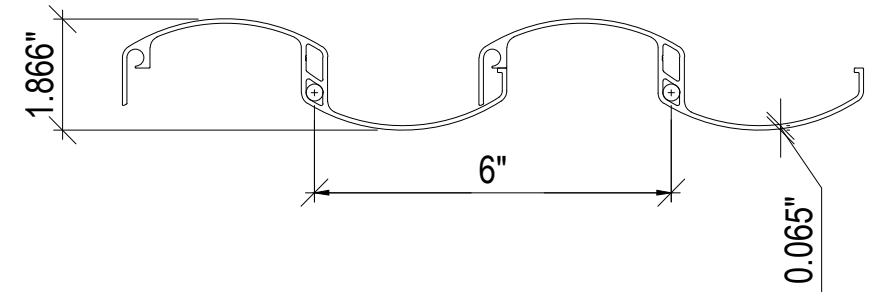
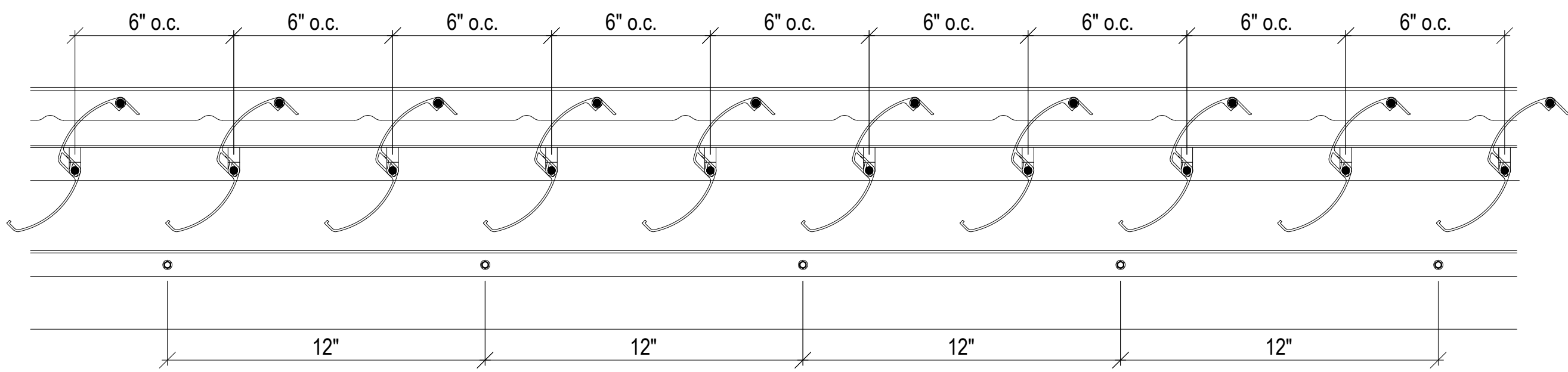
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SHEET NO.	A 201

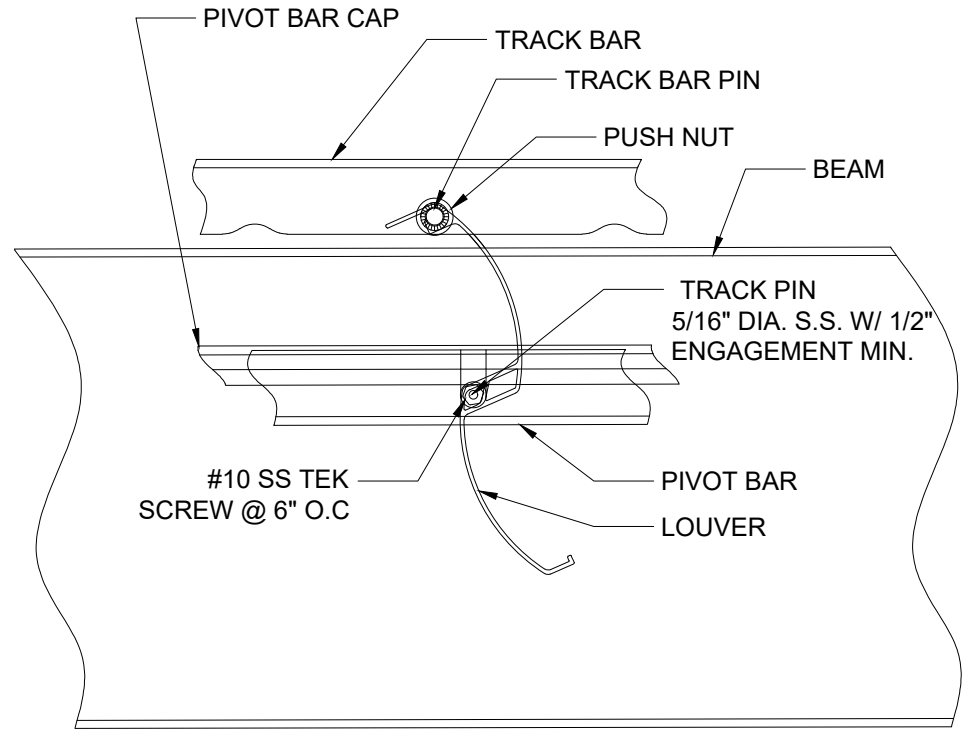
ALUMINUM TYPE:
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 ALL OTHER COMPONENTS 6063-T6

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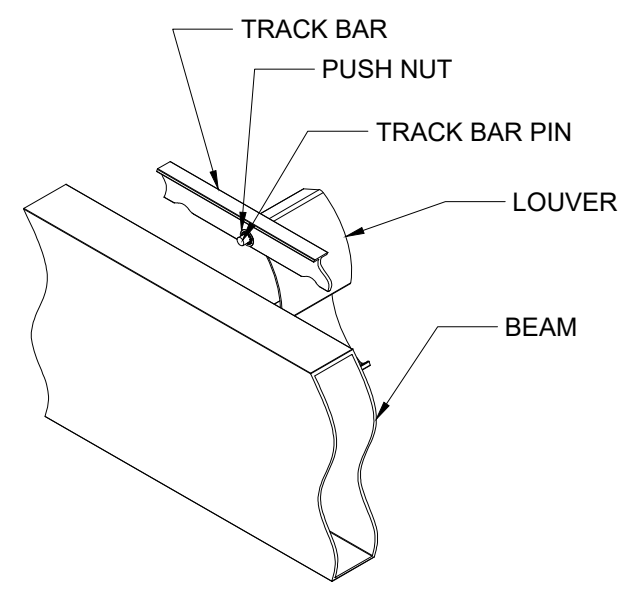


LOUVERS DETAIL

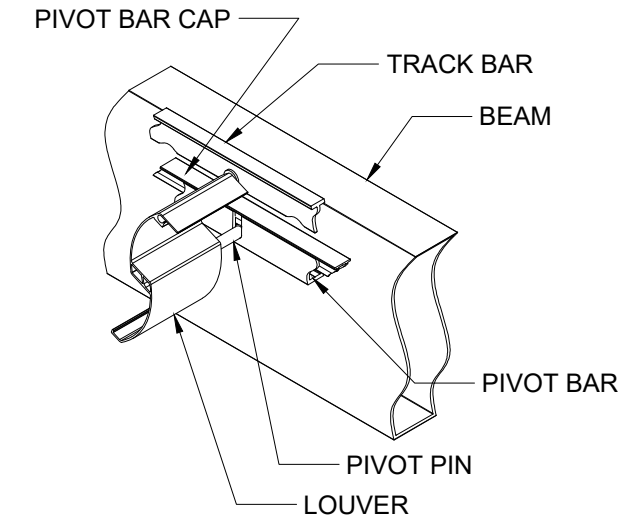
LOUVERS SHALL BE ROTATED TO A 90 DEGREE 'OPEN' POSITION DURING ANY NAMED STORM OR WEATHER DESIGN EVENT TO PREVENT EXCESSIVE FORCE TO THIS STRUCTURE. THE OWNER SHALL BE NOTIFIED IN WRITING OF THIS AND THAT CARE SHALL BE TAKEN TO AVOID BUILDUP OF SNOW, DEBRIS, CONSTRUCTION LOADS, & ANY OTHER FORCES THAT CAN AFFECT THE INTEGRITY OF THIS DESIGN.



SIDE VIEW



ISOMETRIC OUT-SIDE VIEW



ISOMETRIC IN-SIDE VIEW

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SCALE	N.T.S.
SHEET NO.	A 300

ALUMINUM TYPE:
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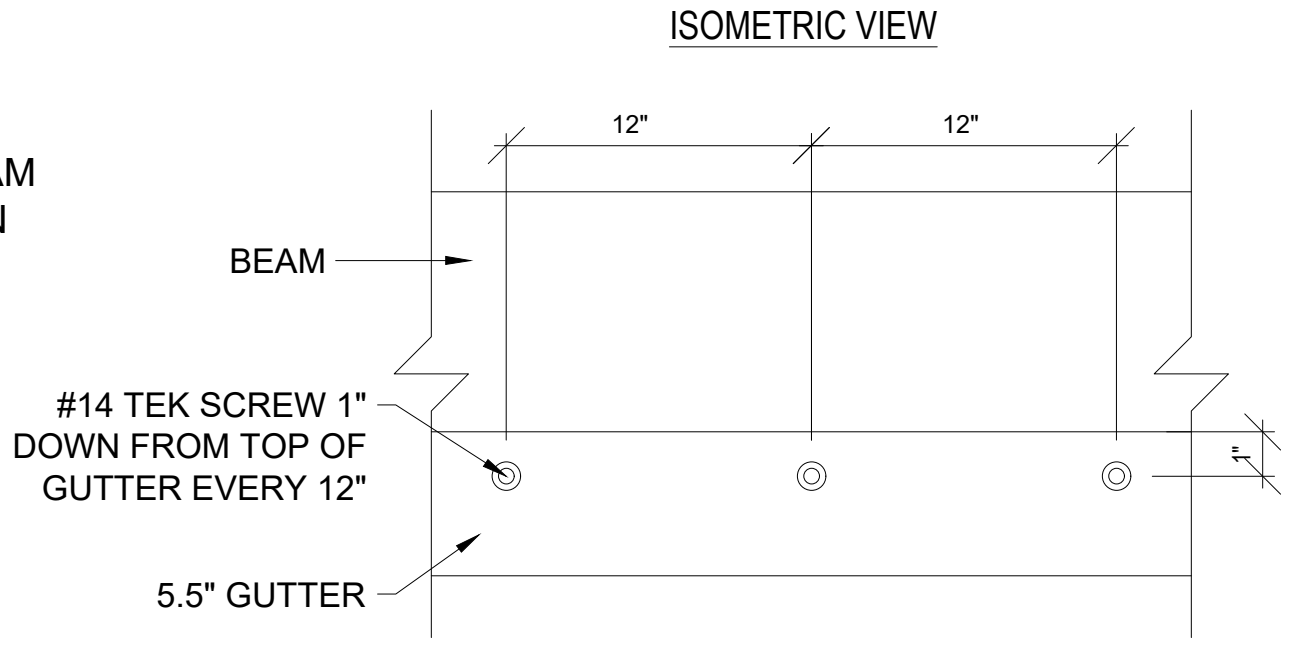
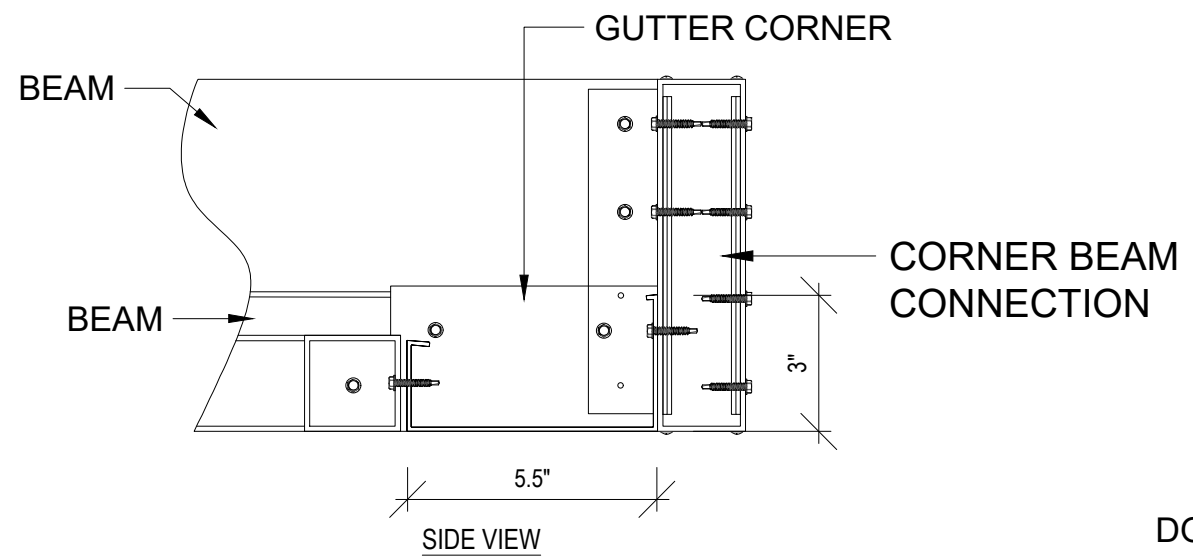
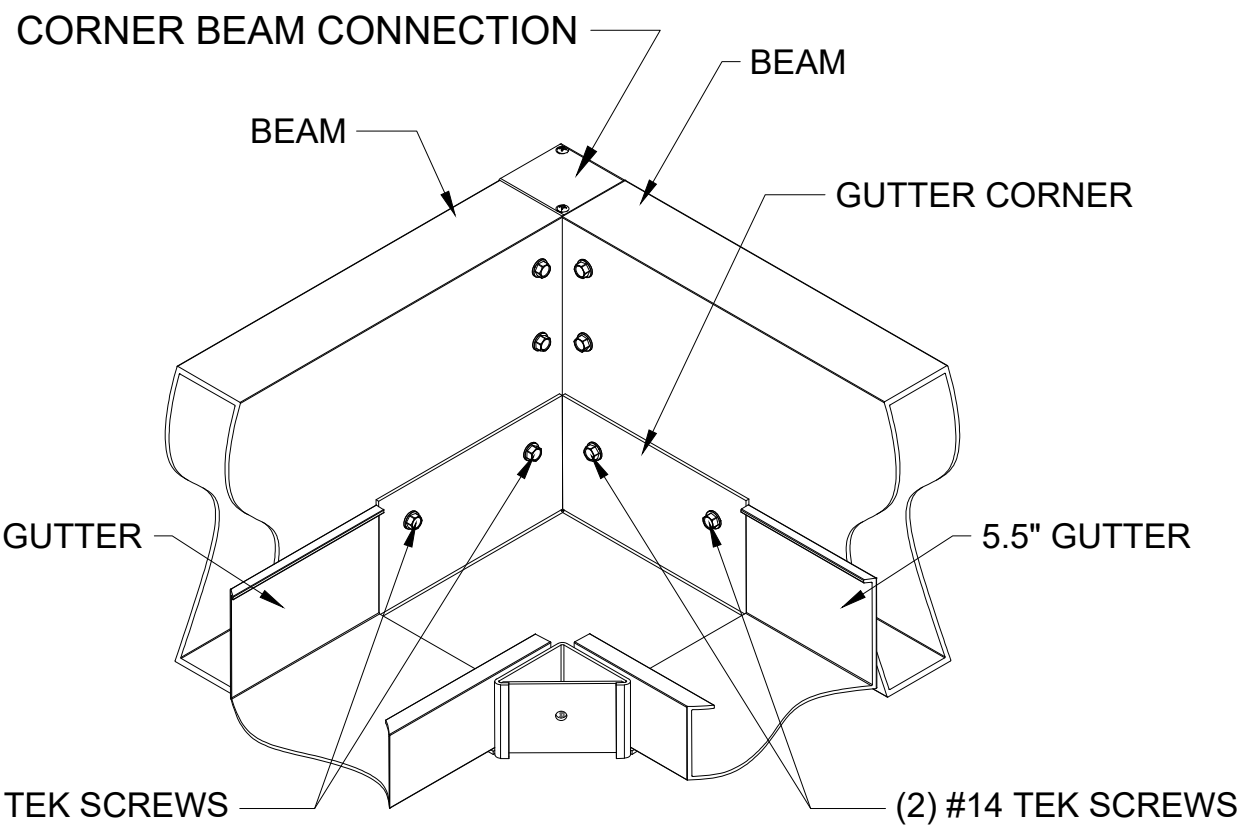
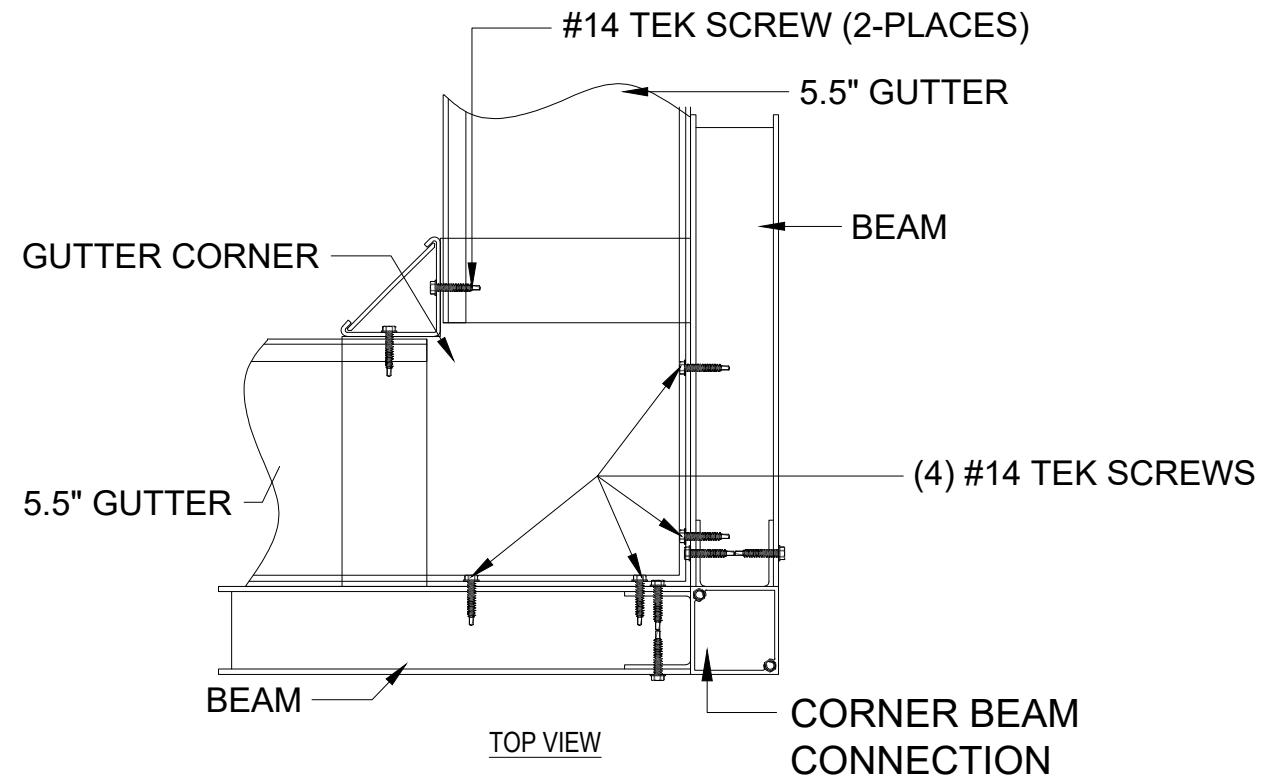
05/27/2022
 SEAL EXPIRATION: 1/22/2023



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GUTTER ASSEMBLY

DESCRIPTION
 DETAILS

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 A 301

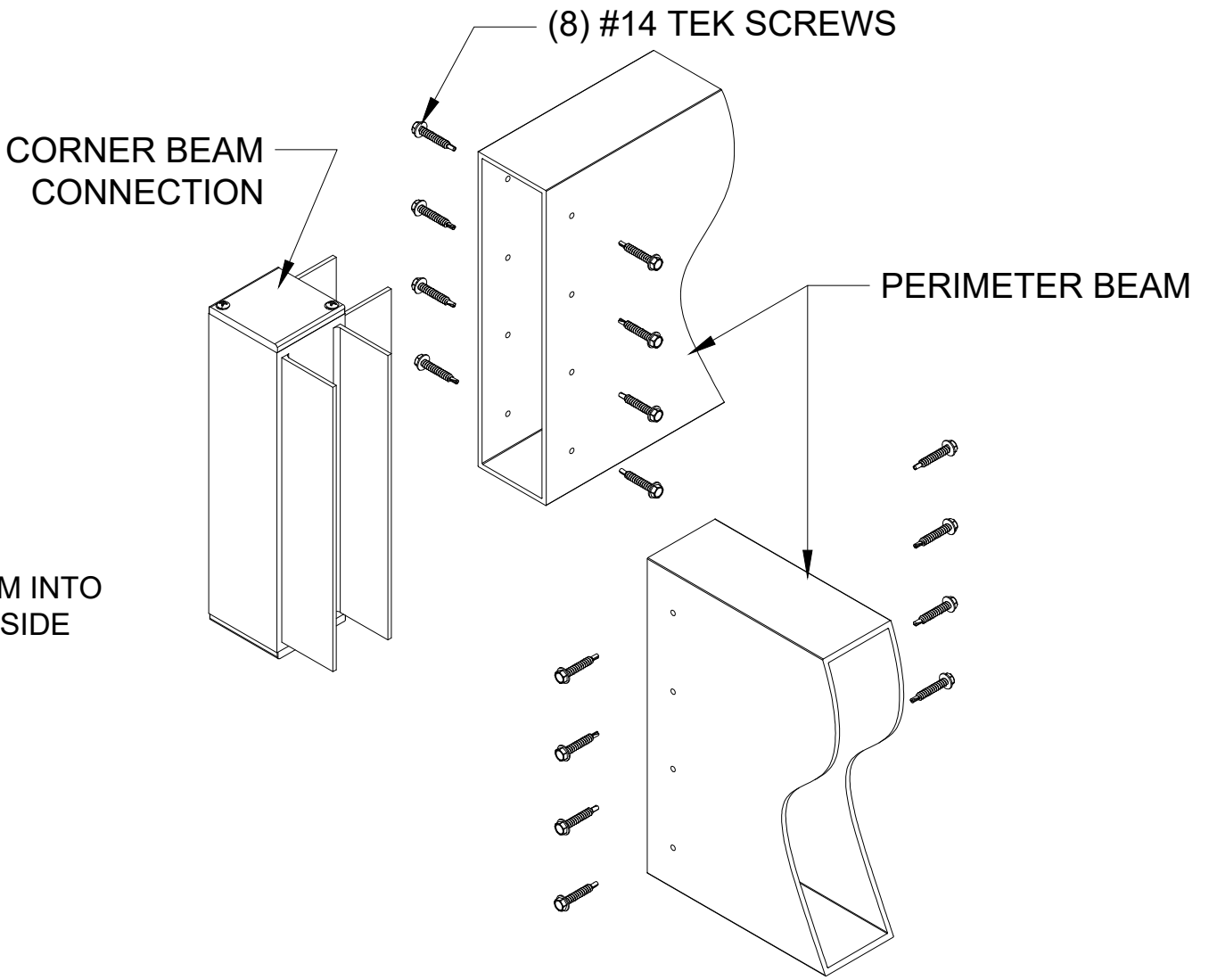
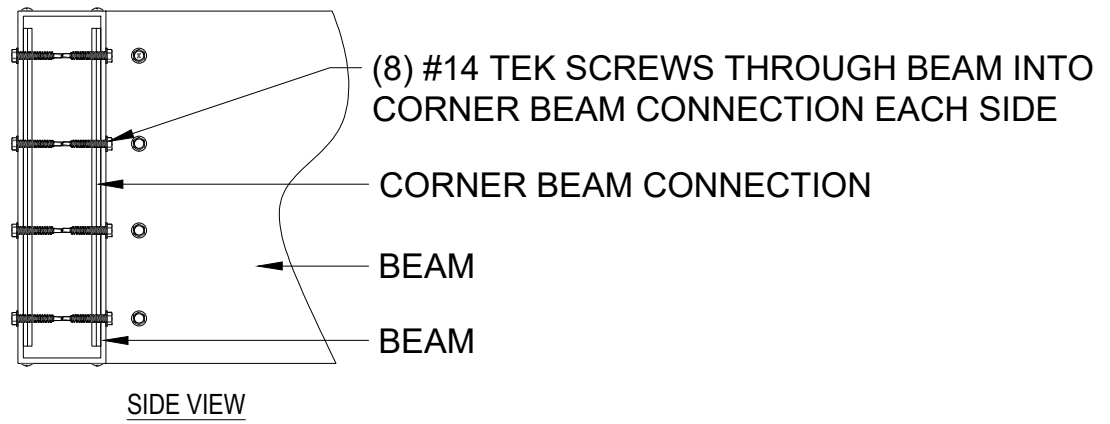
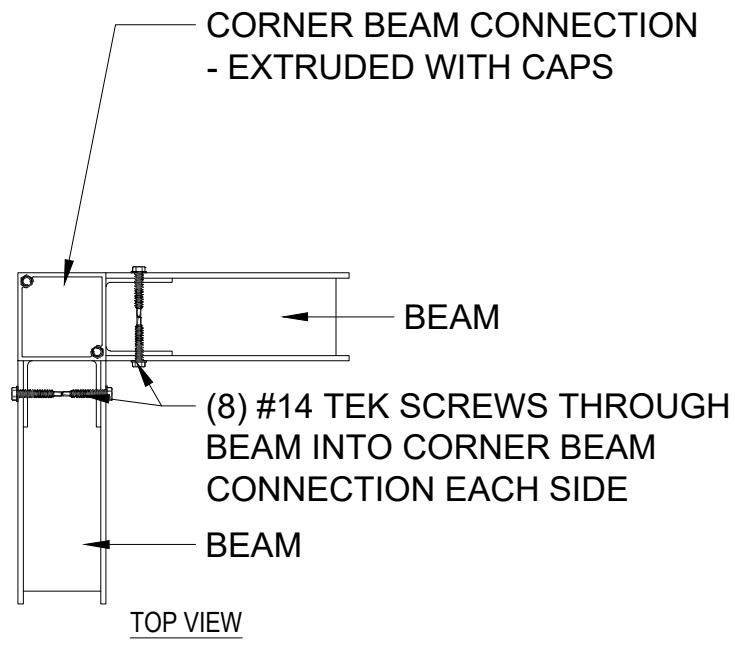
ALUMINUM TYPE:
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 ALL OTHER COMPONENTS 6063-T6

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TYPICAL CORNER ASSEMBLY

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DESCRIPTION	DETAILS
DATE	05/06/22
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SCALE	N.T.S.
SHEET NO.	A 302

ALUMINUM TYPE:
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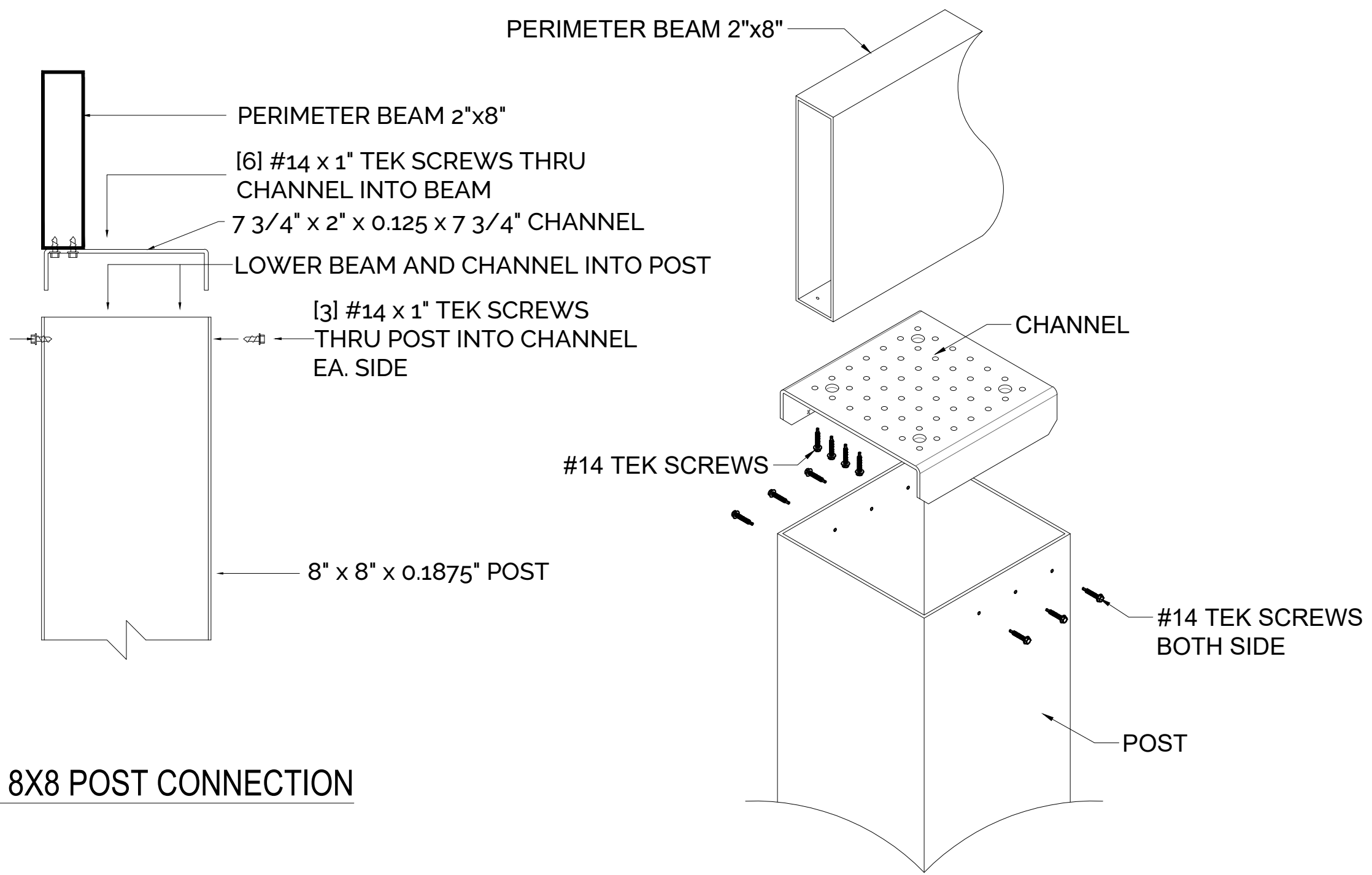


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SINGLE BEAM TO 8X8 POST CONNECTION



DESCRIPTION	DETAILS
DATE	05/06/22
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SHEET NO.	A 303

ALUMINUM TYPE:
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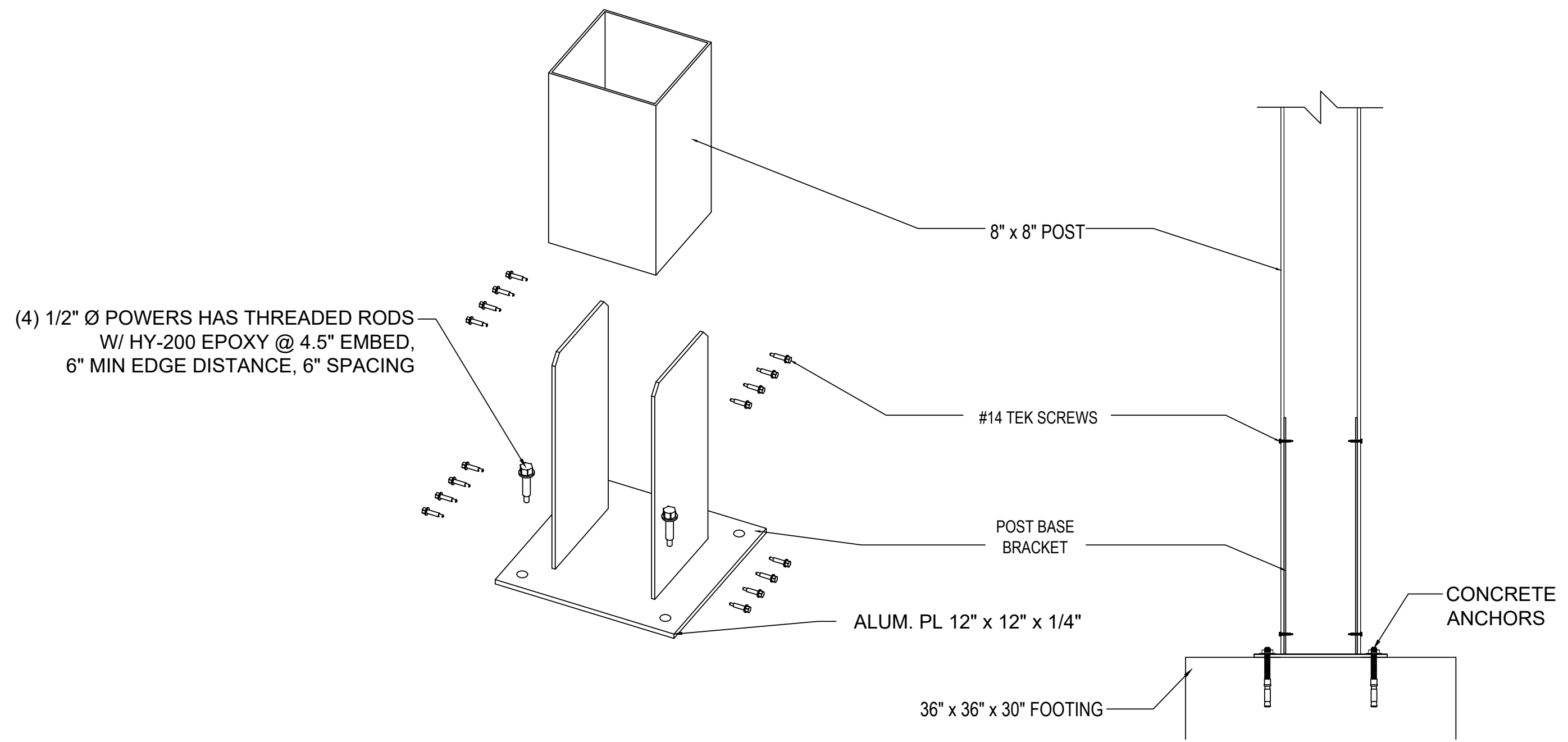
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8" x 8" POST BASE PLATE

DESCRIPTION
 DETAILS

DATE
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SHEET NO.
A 304

ALUMINUM TYPE:
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05/27/2022
 SEAL EXPIRATION: 12/27/2023

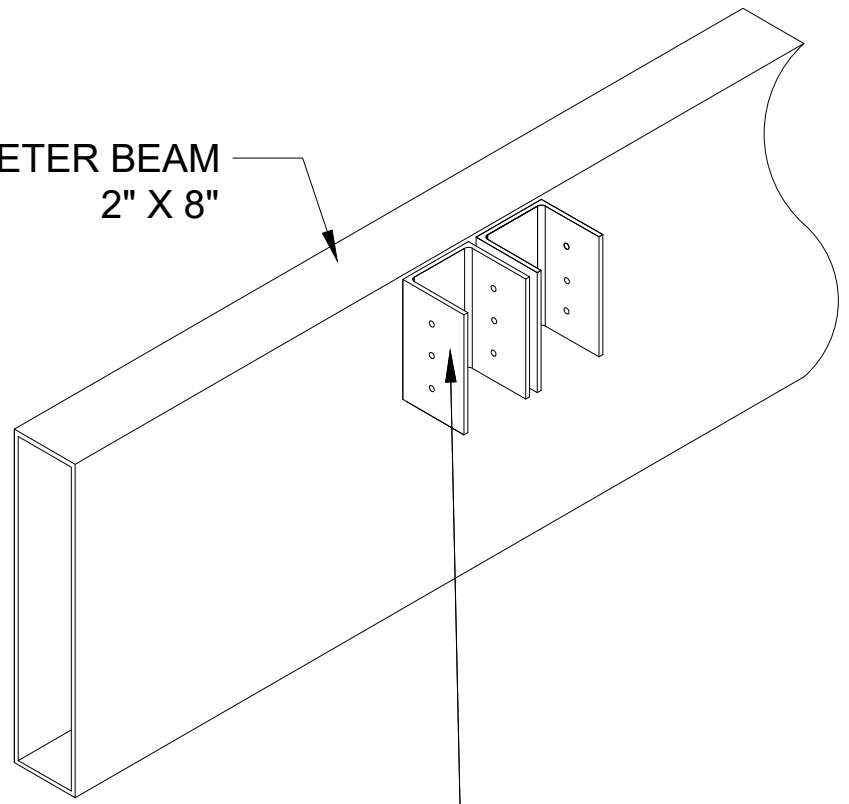


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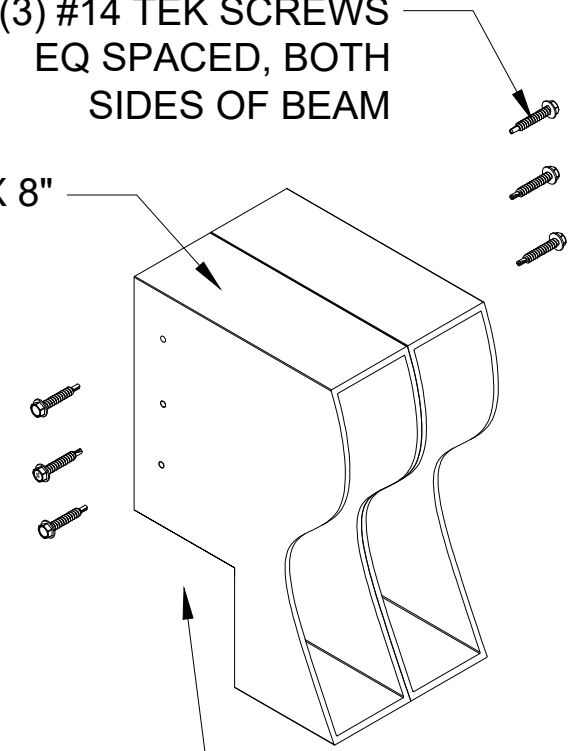
PERIMETER BEAM
 2" X 8"



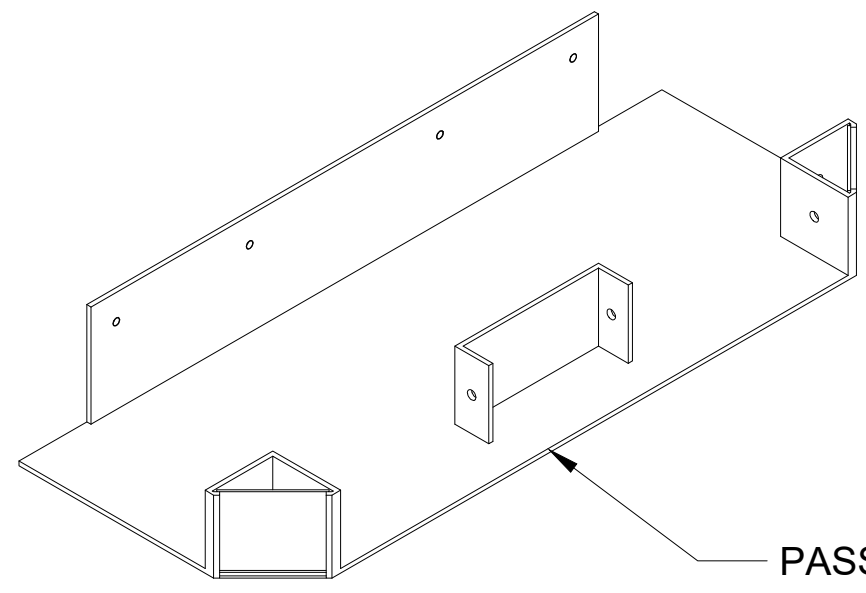
DOUBLE 2" X 1 3/4" X 2" X 0.125" U-CHANNEL INSERT
 LENGTH TO FIT SNUG (MIN 4" LONG), ATTACH EA
 CHANNEL TO BEAM W/ (3) #14 TEK SCREWS
 EQ SPACED, EA SIDE

INTERIOR BEAM [2] 2" X 8"

(3) #14 TEK SCREWS
 EQ SPACED, BOTH
 SIDES OF BEAM



NOTCHED BEAMS
 5.5" X 3" CUT



PASS THROUGH GUTTER

TYPICAL DOUBLE BEAM TO
BEAM CONNECTION
2" X 8" BEAMS
5.5" PASS THROUGH GUTTER

DESCRIPTION	DETAILS
DATE	05/06/22
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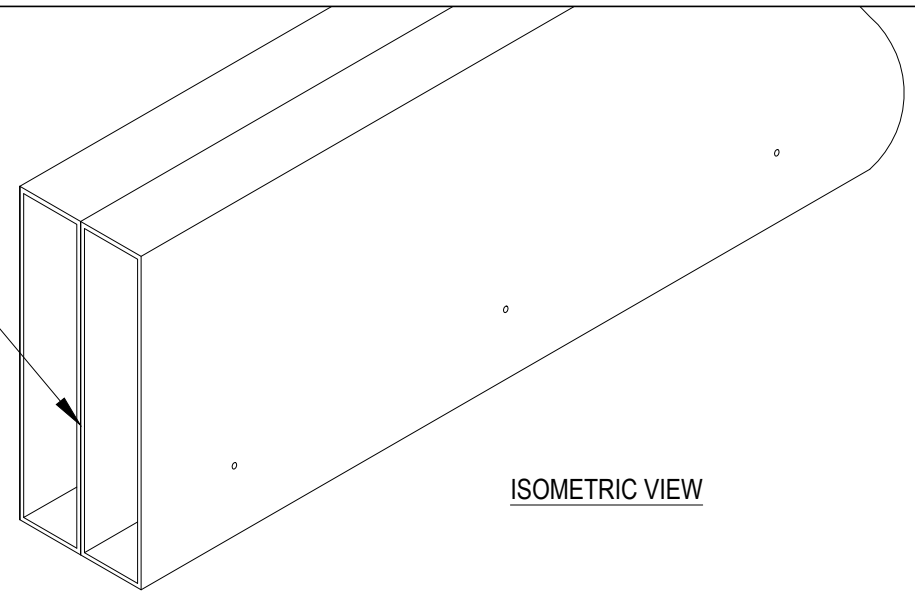


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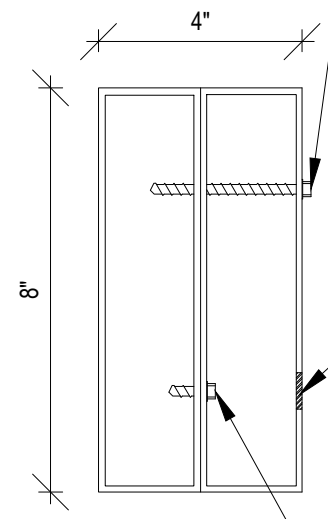
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DOUBLE 2X8 BEAM



ISOMETRIC VIEW

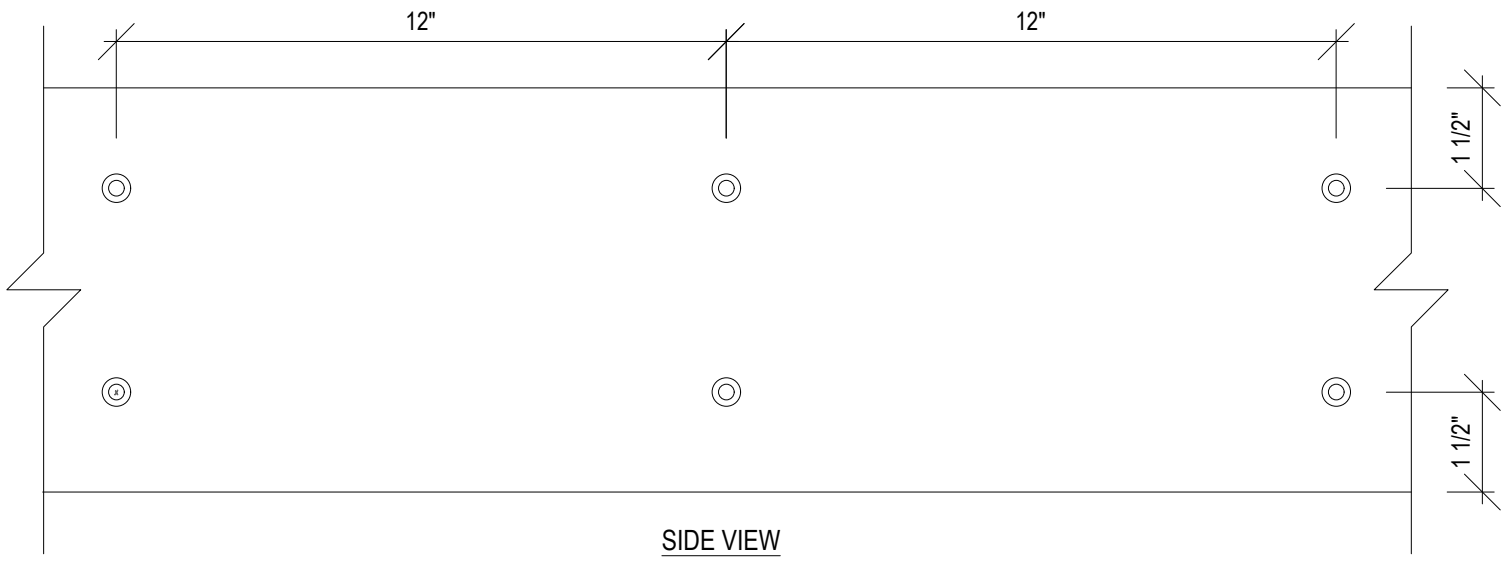
TYPICAL CONNECTION #14 X 3" TEK SCREWS 12" O.C.



SECTION

3/4" HOLE DRILLED FOR SCREW INSTALLATION AND CAPPED.

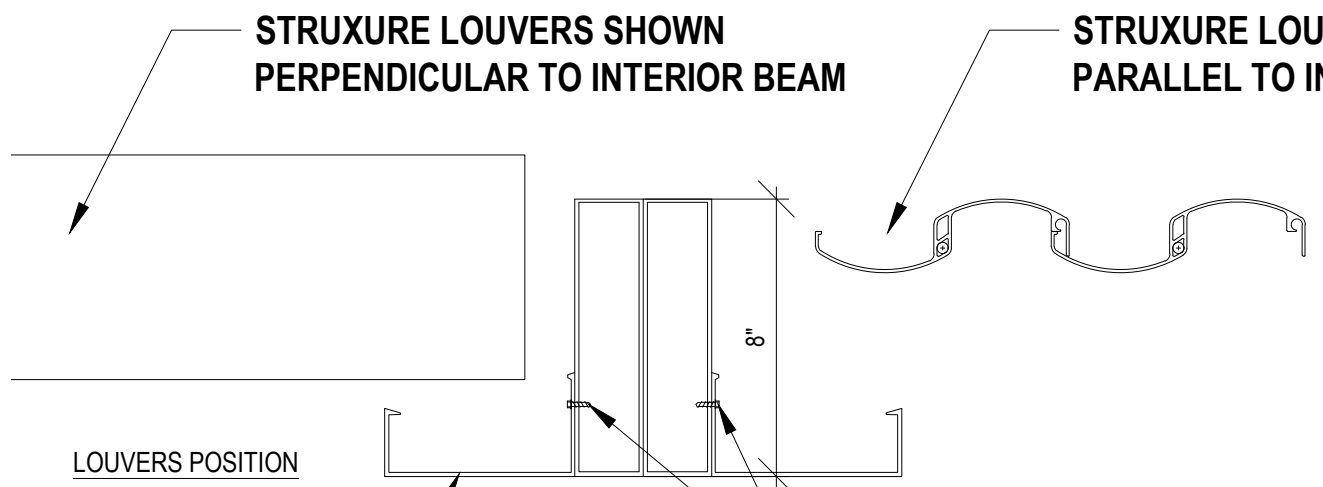
TYPICAL CONNECTION (2) #14 X 1" TEK SCREWS 12" O.C



SIDE VIEW

STRUXURE LOUVERS SHOWN PERPENDICULAR TO INTERIOR BEAM

STRUXURE LOUVERS SHOWN PARALLEL TO INTERIOR BEAM



LOUVERS POSITION

GUTTER

(1) #14 X 1" TEK SCREW 8" O.C.

DOUBLE BEAM CONNECTION (2X8)

DESCRIPTION
 DETAILS

DATE
 05/06/22

DRAWN BY
 I&S

SCALE
 N.T.S.

SHEET NO.
A 306

ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6

STRUXURE™
 154 ETHAN ALLEN DR.
 DAHLONEGA, GA 30533
 (800) 303-5248



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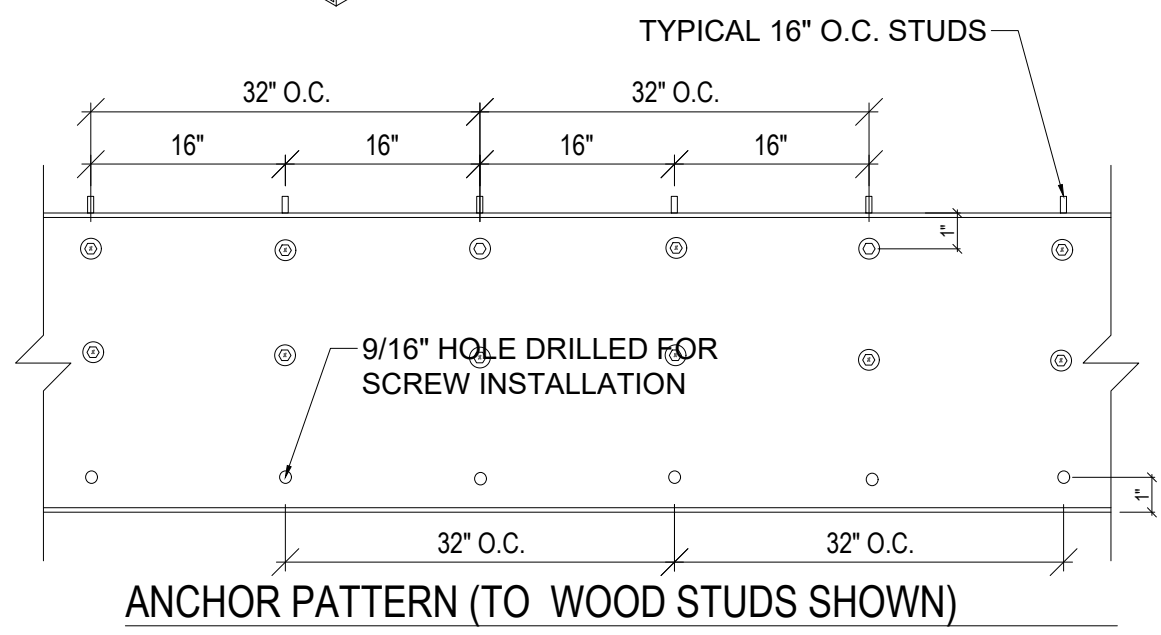
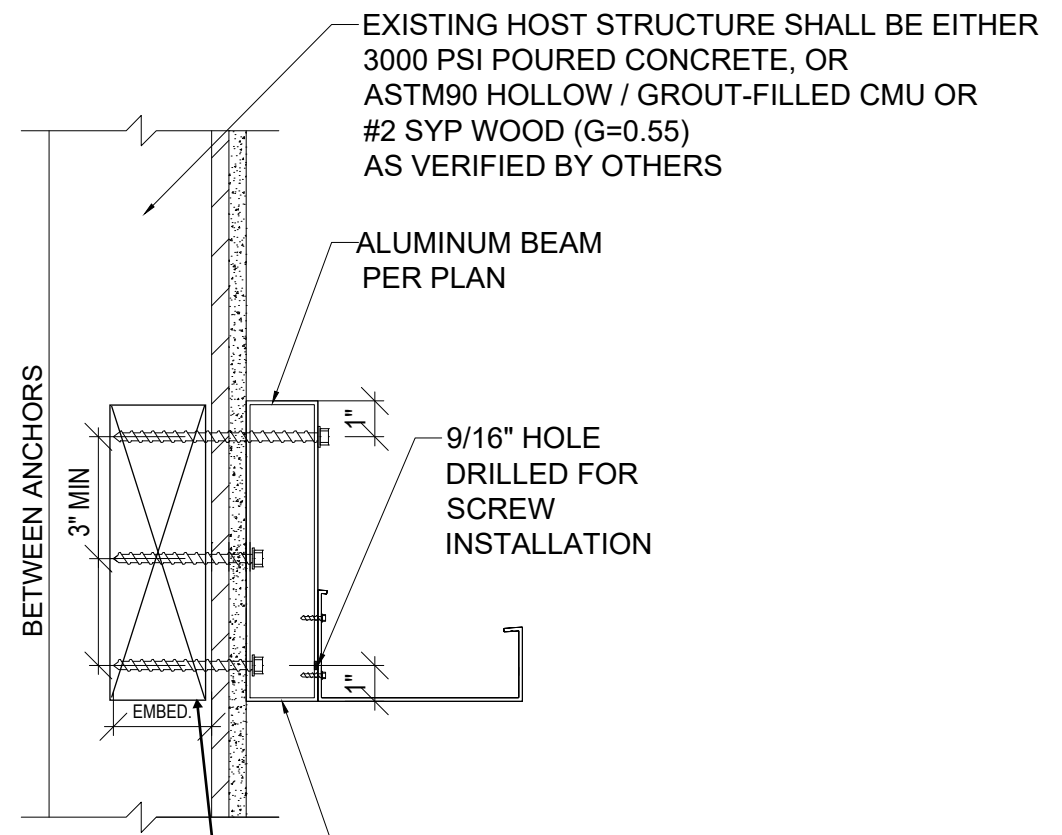
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**SHANE & ROBYN
 MCARTHUR**
 8609 SE 78TH ST
 MERCER ISLAND, WA 98040

HOST STRUCTURE

PERIMETER BEAM

GUTTER



WOOD ATTACHMENT ALTERNATE:
 [2] 1/2" DIAM. S.S. WOOD LAG SCREWS INTO WALL W/ 3" THREAD ENGAGEMENT AND 3/4" MIN EDGE DISTANCE, SPACED 12" O.C., W/ WOOD BLOCKING BETWEEN STUDS.

FOR CONCRETE ATTACHMENT:
 [2] 1/4" DIAM. ITW STAINLESS STEEL TAPCON INTO WALL W/ 3" EMBEDMENT AND 3" EDGE DISTANCE, SPACED 12" O.C., NO BLOCKING REQ.

FOR WOOD ATTACHMENT:
 [3] 1/2" DIAM. S.S. WOOD LAG SCREWS INTO WALL W/ 3" THREAD ENGAGEMENT AND 3/4" MINIMUM EDGE DISTANCE, SPACED 16" O.C., NO BLOCKING REQ.

FOR HOLLOW CMU ATTACHMENT:
 [2] 3/8" DIAM. S.S. HILTI KWIK-CON II+ INTO BLOCK FACE W/ 1-3/4" EMBEDMENT AND 3" MINIMUM EDGE DISTANCE, SPACED 12" O.C., NO BLOCKING REQ.

BEAM TO HOST STRUCTURE CONNECTION

DESCRIPTION	DETAILS
DATE	05/06/22
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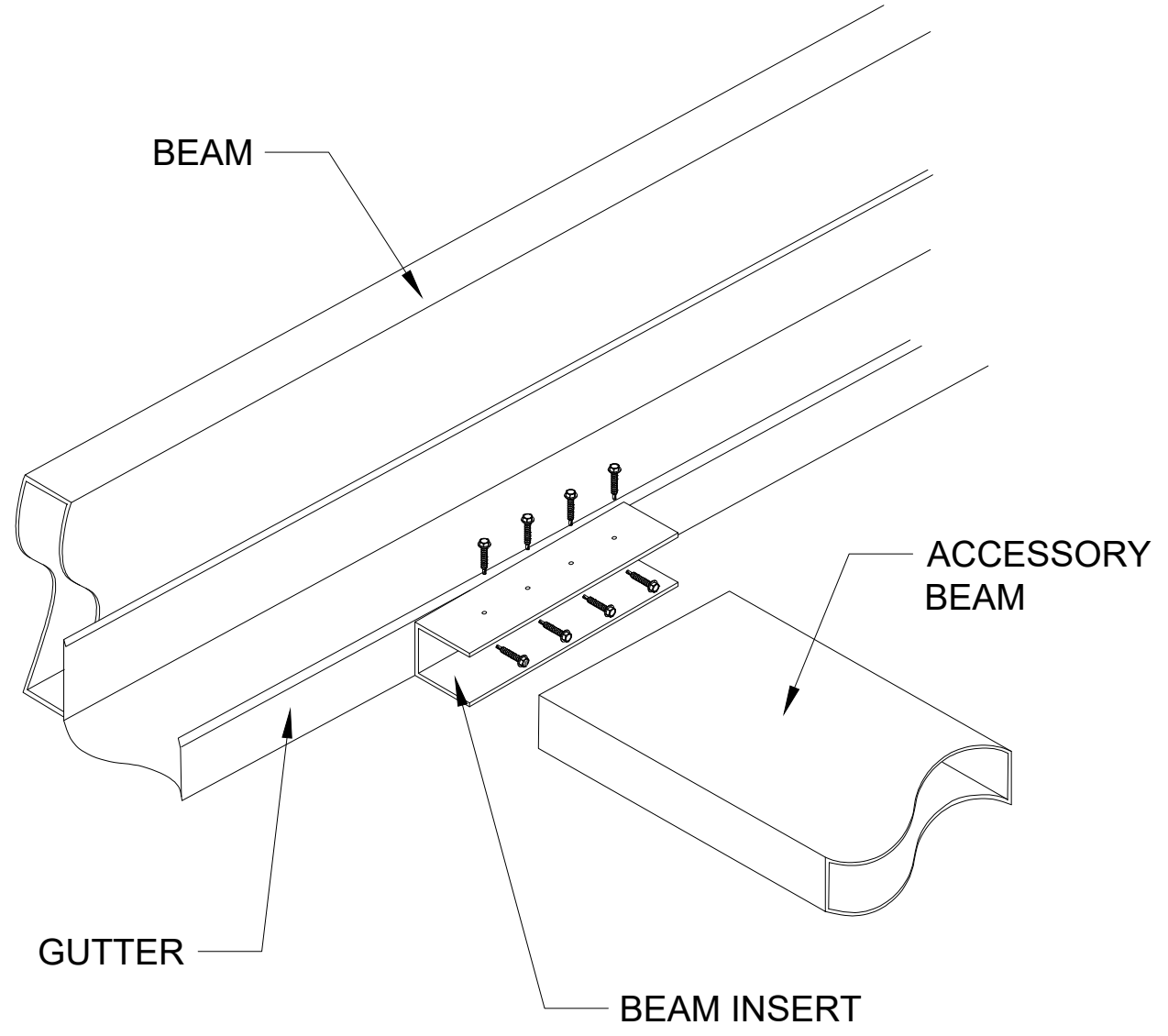
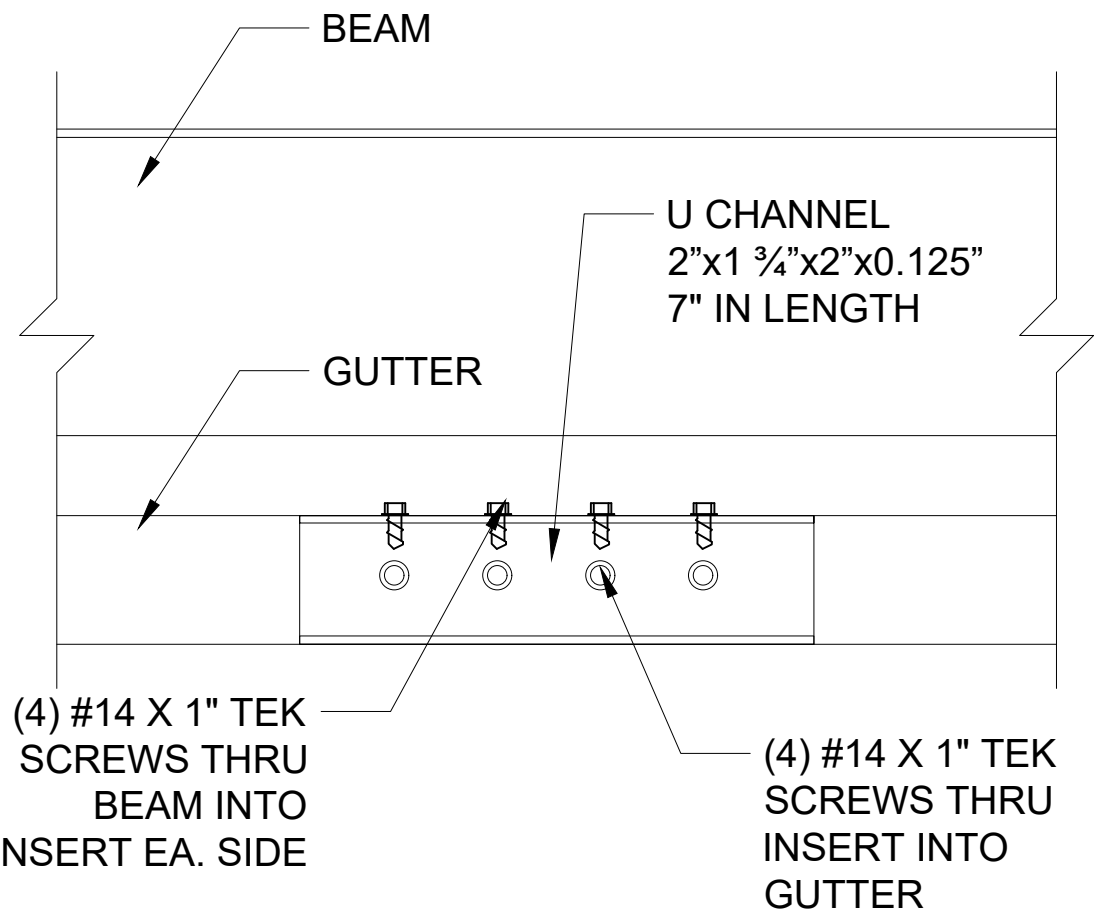
ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6

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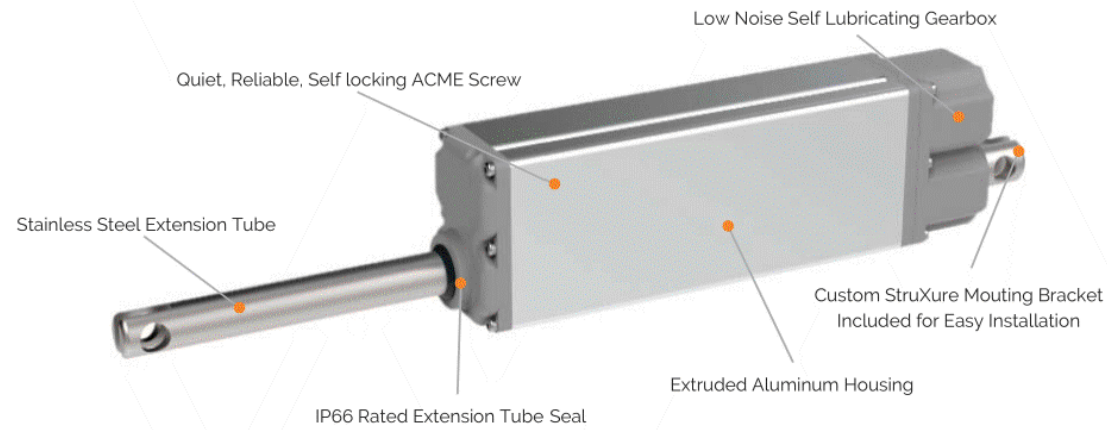


FAN BEAM CONNECTION

**SHANE & ROBYN
 MCARTHUR**
 8609 SE 78TH ST
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DESCRIPTION	DETAILS
DATE	05/06/22
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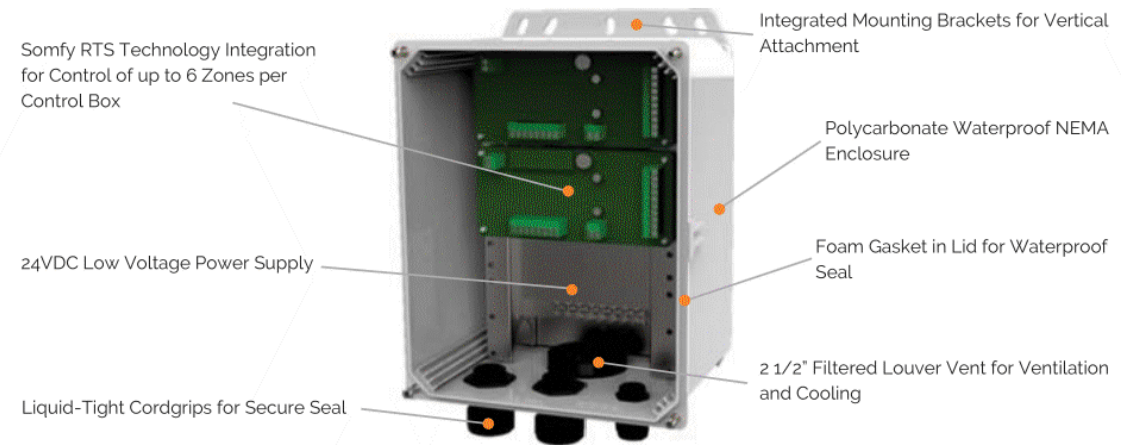
LOUVERED ROOF MOTOR



SOMFY TECHNICAL SPECIFICATIONS

SOMFY TECHNICAL SPECIFICATIONS		
VOLTAGE		
Input Voltage	[VDC]	24
LOAD		
Static Load (Fx), max.	[N/lbs]	2500 / 562
Dynamic Load (Fx), max.	[N/lbs]	2500 / 562
STROKE		
Stroke length, standard	[mm]	135
CURRENT		
Current consumption, rated load	[A]	1.875
GENERAL DATA		
Speed, no load	[mm/s]	3.4
Speed, rated load	[mm/s]	2.8
Operating temperature limits	[°C]	-10/+60
Service life	[Cycles]	± 10,000
Sound level	[dB(A)]	≤ 70
Lead screw type		ACME
Protection Class		IP66
Certificates		CE (EN60601-1)
Insulation		CLASS III

LOUVERED PERGOLA CONTROL



*Product dimensions: 10.59 x 8.59 x 6.96 in. / 268.99 x 218.19 x 176.78 mm
 ** Enclosure must be mounted in this vertical orientation.

COMPONENT RATINGS AND CERTIFICATIONS

POWER SUPPLY		
Input Voltage	[VAC]	115/230
Input Voltage Frequency Range	[Hz]	47 - 63
Output Voltage	[VDC]	24
Voltage Adjustable Range	[VDC]	21.6 - 28.8V
Current Range	[A]	0 - 14.6
Rated Power	[W]	350.4
Safety Standard	[UL Certification]	UL60950-1
POWER SUPPLY CABLE (NOT SHOWN)		
Safety Standard	[ETL Certification]	#3170291
Voltage Rating	[V]	300
Temperature Rating	[°F]	-40 to 158
ENCLOSURE		
Safety Standard	[UL Certification]	UL508A
	[File Number]	E352997
Temperature Range	[°F]	-40 to 257
Impact Resistance	[in/lb]	500
Dielectric Strength	[volts/mil]	380
UV Rating	[UL Certification]	UL 746C
Flammability Rating	[UL Certification]	UL 94

**NOT PART OF
CERTIFICATION
INCLUDED
ONLY FOR
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**SHANE & ROBYN
MCARTHUR**
8609 SE 78TH ST MERCER
ISLAND, WA 98040

DESCRIPTION
MOTOR
SPECIFICATION

DATE
05/06/22

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I&S

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N.T.S.

SHEET NO.

A 400

ALUMINUM TYPE:
 LOUVERS 6063-T5
 ALL OTHER COMPONENTS 6063-T6

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FRANK BENWARDO, PE
 PE# 56089 CA# 4018

05/27/2022
 SEAL EXPIRATION: 12/27/2023



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12		

SHANE & ROBYN
MCCARTHUR
 8609 SE 78TH ST MERCER
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DESCRIPTION
 REVISIONS

DATE
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DRAWN BY
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SCALE
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SHEET NO.
A 500

NOTES: