



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

March 26, 2024

John A. Soltesz III
Assistant General Counsel
NJR Clean Energy Ventures III Corporation
1415 Wyckoff Road
Wall, NJ 07719
JSoltesz@NJResources.com

RE: **PETITION NO. 1557** – LSE Hercules LLC (NJR Clean Energy Ventures III Corporation) Declaratory Ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the construction, maintenance and operation of a 4-megawatt AC solar photovoltaic electric generating facility located at 95, 105 and 113 Raffia Road, Enfield, Connecticut, and associated electrical interconnection. **Compliance with Condition Nos. 3 and 7.**

Dear Attorney Soltesz:

The Connecticut Siting Council (Council) is in receipt of your correspondence dated March 26, 2024 regarding compliance with Condition Nos. 3 and 7 of the Declaratory Ruling issued by the Council on April 14, 2023 for the above-referenced facility. The correspondence includes the final structural design of the racking system, stamped by a Professional Engineer duly licensed in the State of Connecticut, in accordance with Condition No. 3 and notice of construction commencement, in accordance with Condition No. 7.

Therefore, the Council acknowledges that Condition Nos. 3 and 7 have been satisfied. This acknowledgment applies only to the conditions satisfied by the March 26, 2024 correspondence.

Please be advised that deviations from the standards established by the Council in the Declaratory Ruling are enforceable under the provisions of Connecticut General Statutes §16-50u.

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman
Executive Director

MAB/MP/dll



March 26, 2024

Attorney Melanie Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: PETITION NO. 1557 – LSE Hercules LLC petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, Notice of Commencement of Construction Activities in Connection with the Raffia Farm Solar Project.

Dear Attorney Bachman:

In accordance with Conditions #3 and #7 of the Connecticut Siting Council's Declaratory Ruling of Petition 1557 (dated April 14, 2023), LSE Hercules, LLC ("LSE") hereby submits the final structural design for the racking system (Condition #3) and provides written notice to the Siting Council that construction activities will commence on or about April 8, 2024 (Condition #7).

If you have any questions, please do not hesitate to contact me.

Sincerely,

John A. Soltesz III

John A. Soltesz III
Assistant General Counsel
NJR Clean Energy Ventures III Corporation

STRUCTURAL PRINT PACKAGE - 221041

ENFIELD, CT 06082

RACKING PROVIDER



20-345 COUNTY ROAD X
RIDGEVILLE CORNERS, OHIO 43555
(P) 419.267.5280
(F) 419.267.5214
WWW.APASOLAR.COM

STRUC. ENGINEER OF RECORD



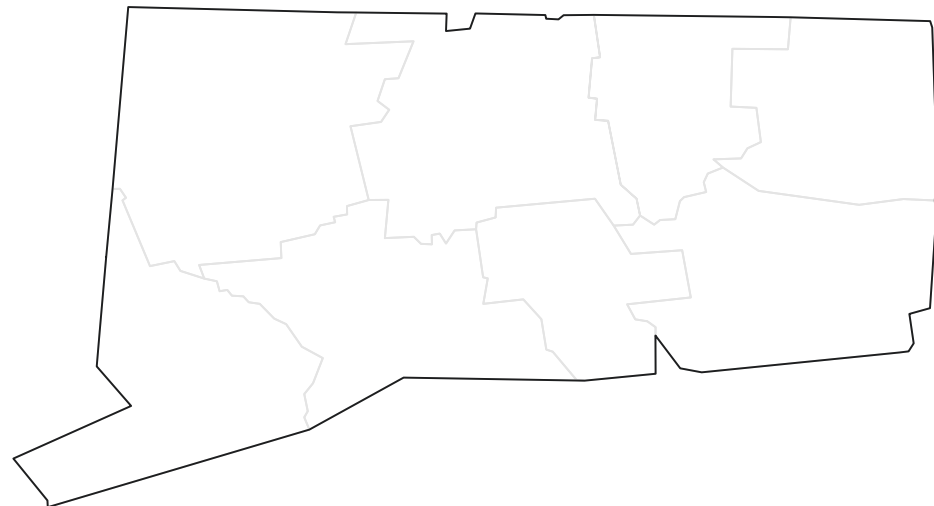
360 W. DUSSEL DR.
MAUMEE, OH 43537
(P) 419.725.7161
(F) 419.725.7160

RACKING PRODUCT LINE



USE WITH THE FOLLOWING PRINTS
& PACKAGES. INCLUDE WITH
SUBMISSION TO PERMIT/INSPECTION
AGENCY:

- ☒ CALCULATION PACKAGE:
221041 CALC SET – STAMPED
- ☒ FOUNDATION DESIGN REPORT (SITE
SPECIFIC, & ONLY WHERE REQUIRED
BY EOR OR AHJ)



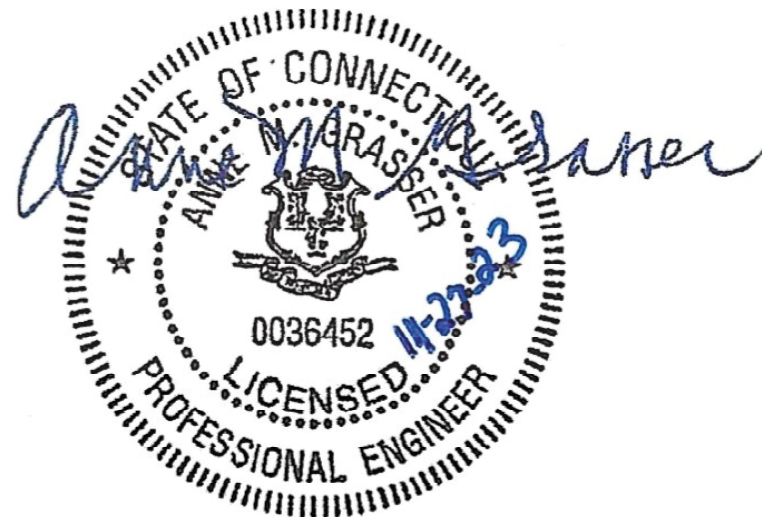
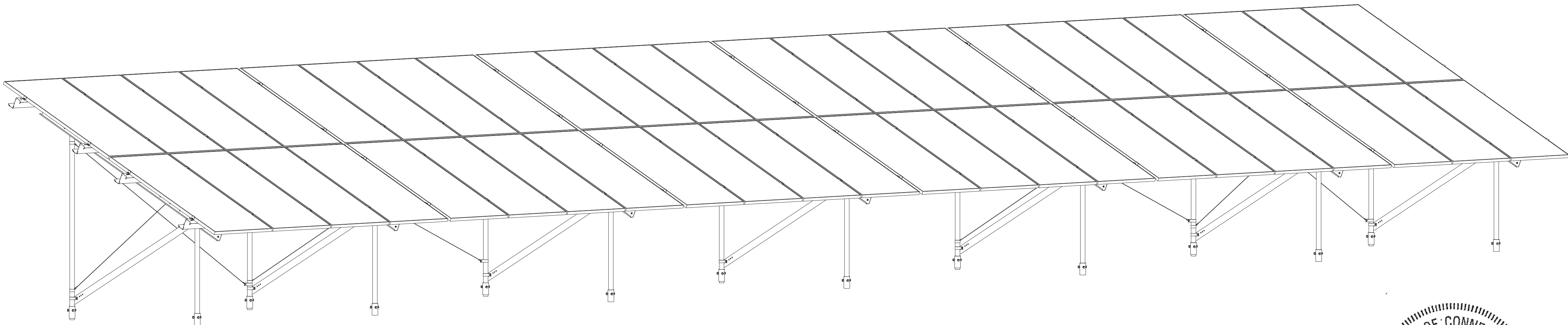
SITE ADDRESS: 105 RAFFIA RD.
ENFIELD, CT 06082

REVISION: B

PERMIT SET/
STRUCTURAL PACKET

APPROVED

SOLAR PHOTOVOLTAIC GROUND MOUNT



SHEET INDEX		
STRUCTURAL		
S-000	B	STRUCTURAL COVER
S-100	A	RACKING OVERVIEW
S-300	A	STRUCTURAL COMPONENTS
S-400	A	CONNECTIONS
S-500	A	STRUCTURAL PURLINS
S-600	A	CLAMPS & BRACES

GOVERNING STRUCTURAL CODE/S

2021 INTERNATIONAL BUILDING CODE

PACKAGE COVERAGE – LOADING AND SETUP RANGES & CONSTANTS

TILT ANGLES: 25°
MAX GROUND SNOW LOAD (PSF): 35
MAX WIND LOADS (MPH): 107
WIND EXPOSURE CATEGORY: C
MAX SEISMIC Ss: 0.174 g
MAX SEISMIC S1: 0.055 g

PV MODULE: HYPERION HY-DH144P8 OR SIMILAR

MAX. PANEL WIDTH: 44.65"
MAX. PANEL LENGTH: 89.69"
MAX. PANEL HEIGHT: 2.00"
MAX. PANEL WEIGHT: 74.00 LBS

RISK CATEGORY: I
MAX FRONT LIP CLEARANCE: 48"

IMAGE FOR REFERENCE ONLY

SEE VIEW A1 ON S600 FOR VIEW OF TRANSVERSE BRACE

SPECIAL INSPECTIONS ARE NOT REQUIRED BY APA
SOLAR OR THE STRUCTURAL ENGINEER OF RECORD.
THE JDI GROUP, WHERE REQUIRED BY OWNER,
CUSTOMER, AND/OR AUTHORITY HAVING
JURISDICTION, MINIMUM INSPECTION SHALL FOLLOW
IBC OR LOCAL AHJ SPECIAL INSPECTIONS
GUIDELINES.

C1 | PROFILE VIEW: RACK OVERVIEW



A1 ELEVATION VIEW FROM FRONT (NORTH-FACING)

DOCUMENT NAME: STRUCTURAL PRINT PACKAGE

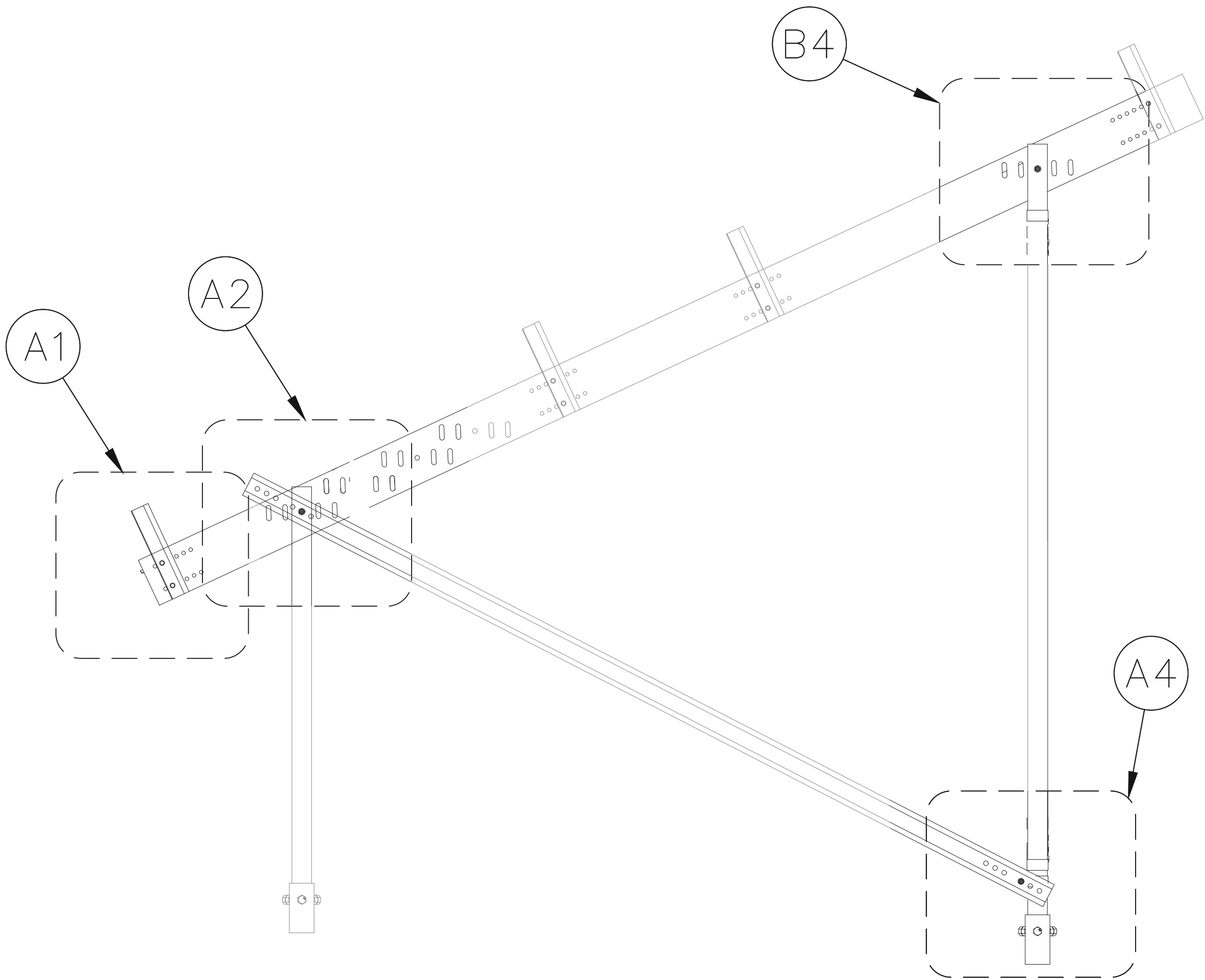
SITE STREET ADDRESS: 105 RAFFIA RD.

SITE CITY, STATE, ZIP: ENFIELD, CT 06082

APPROVED

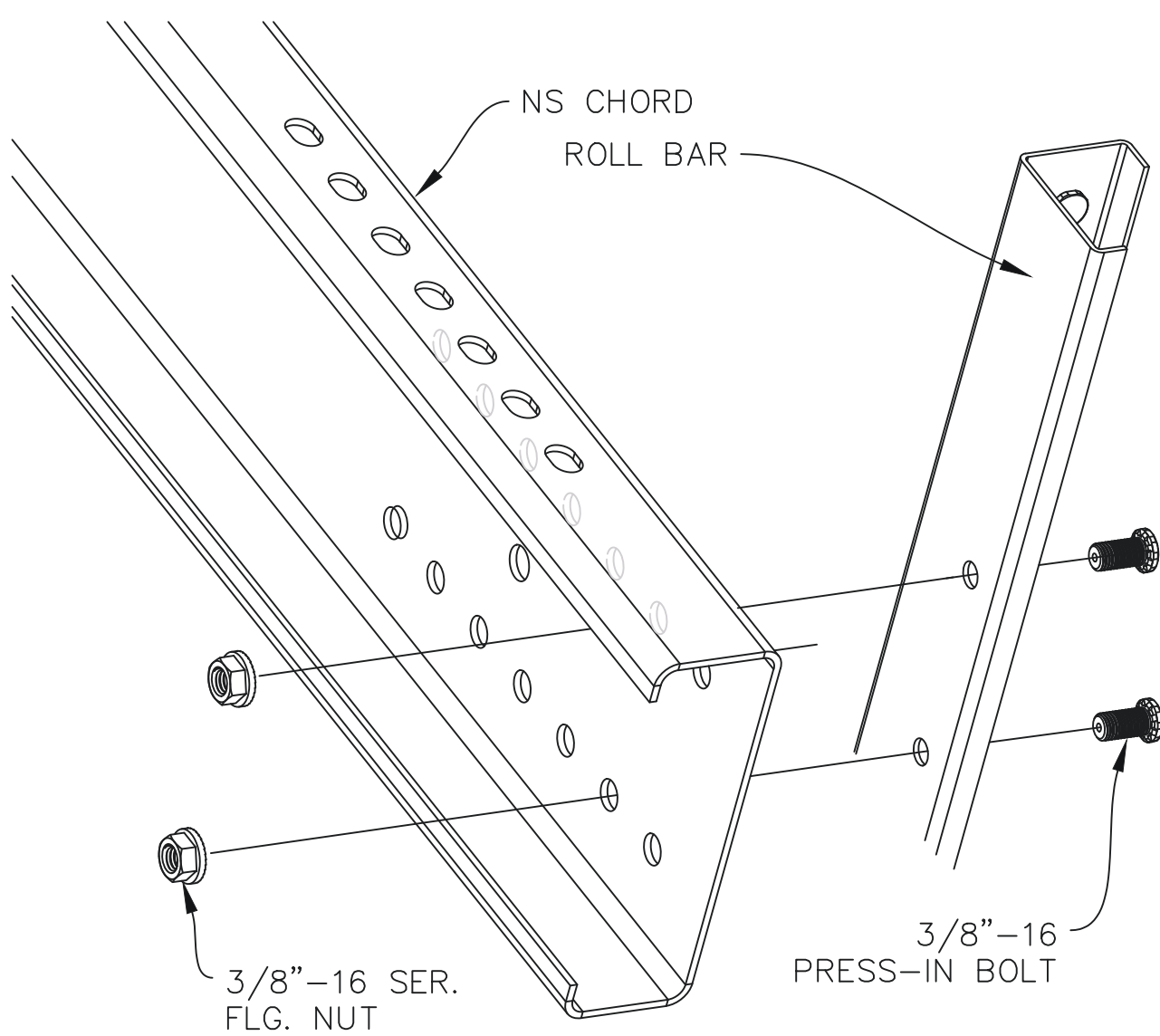
DRAWN	REVIEWED	APPROVED	SIZE
LB	TM	JDI	D
SHEET NAME			
RACKING OVERVIEW			
PROJECT NUMBER			
221041			
DRAWING NUMBER			REV.
S.100			A

IMAGE FOR REFERENCE ONLY



B1 FOUNDATION SET CONNECTIONS OVERVIEW

IMAGE FOR REFERENCE ONLY



ATTACHED TO OUTER HOLE SET FOR REFERENCE ONLY. SEE NOTES.

A1 CONNECTION: ROLL BAR-TO-NS CHORD

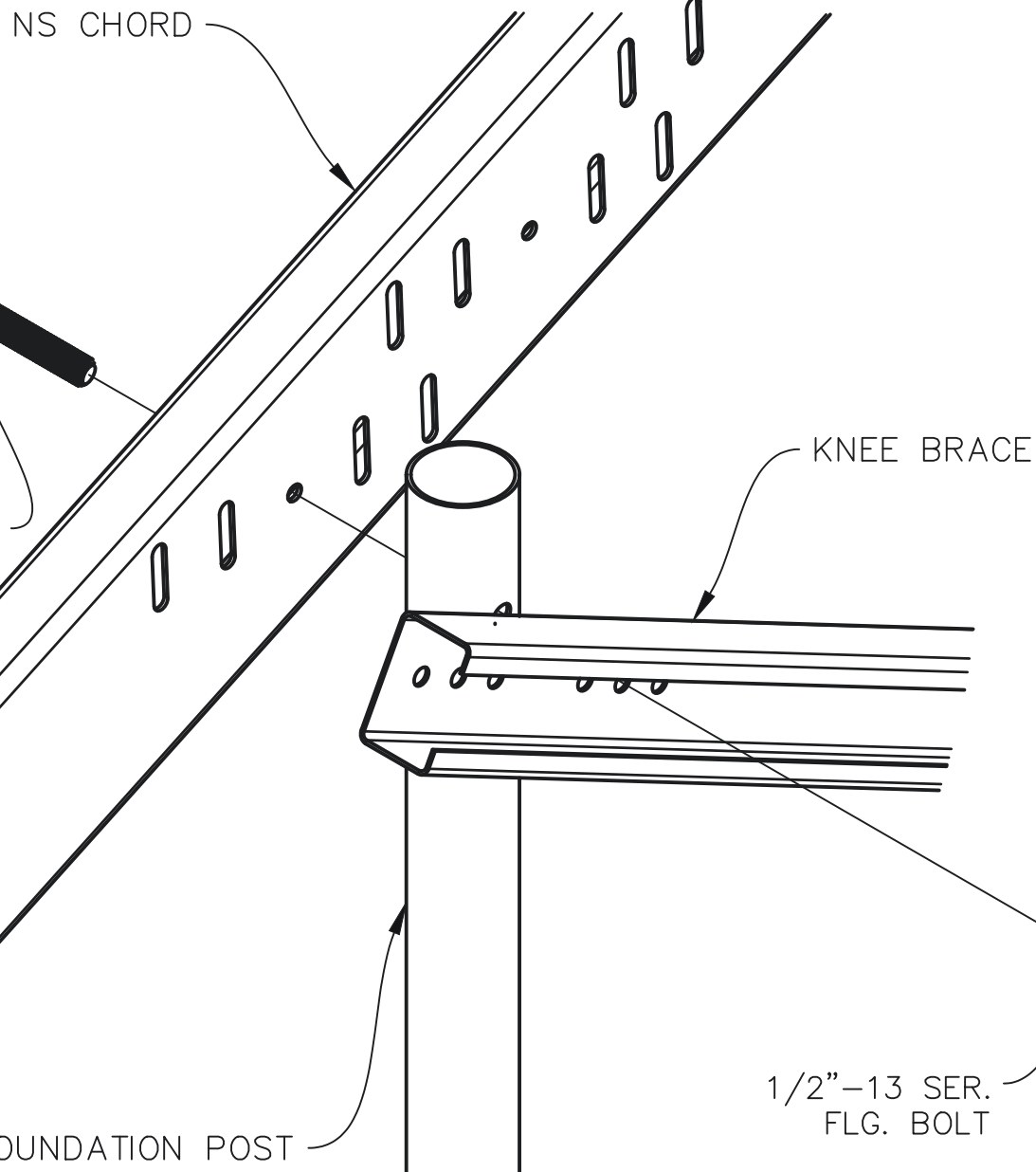
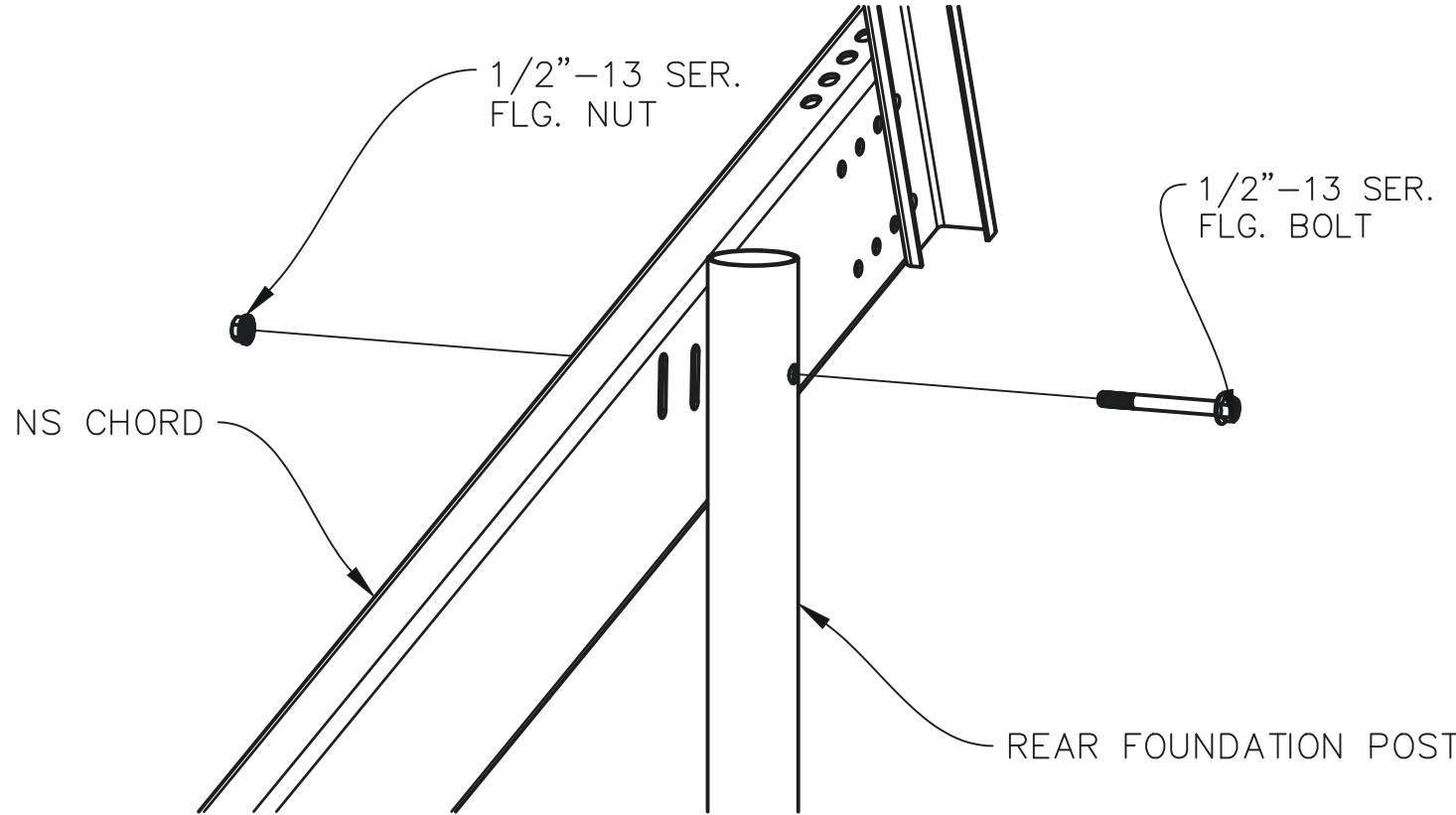


IMAGE FOR REFERENCE ONLY

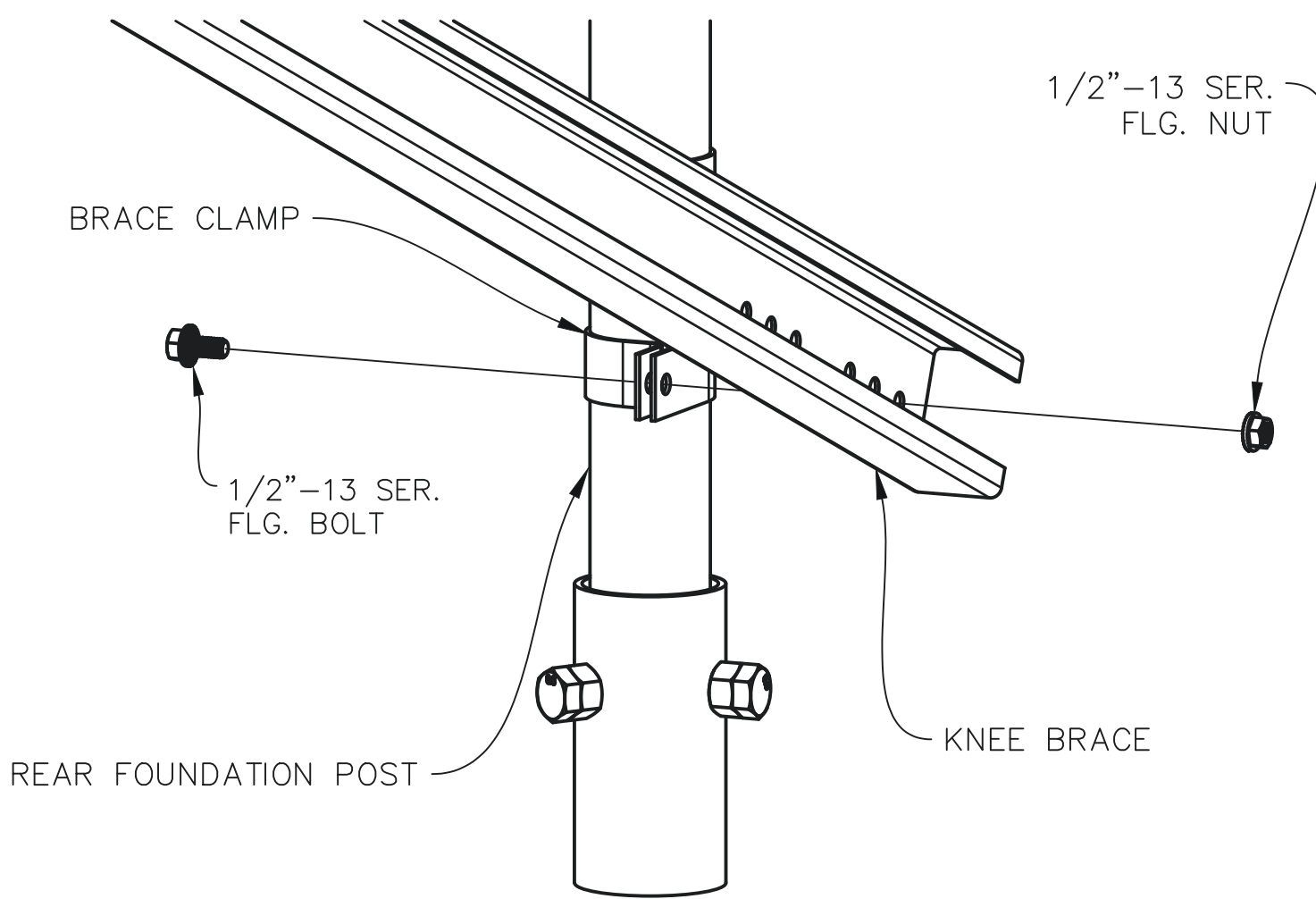
A2 CONNECTION: KNEE BRACE-TO-FRONT POST

IMAGE FOR REFERENCE ONLY



B4 CONNECTION: REAR POST-TO-NS CHORD

IMAGE FOR REFERENCE ONLY



A4 KNEE BRACE-TO-REAR POST

NOTES:

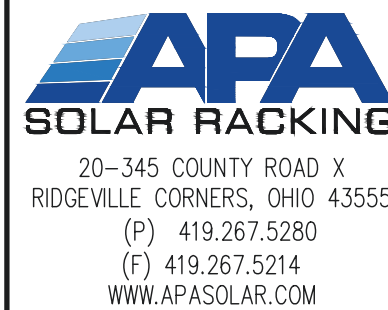
- HARDWARE TORQUE VALUES:

3/8"-16 STAINLESS STEEL
MIN.: 17.5 FT-LBS
NOM.: 19.6 FT-LBS
MAX.: 50.0 FT-LBS

1/2"-13 STAINLESS STEEL
MIN: 25 FT-LBS
- DEPICTED HARDWARE AND PART PLACEMENT NOT INDICATIVE OF PREFERRED OR REQUIRED POSITIONS.
- HOLE/SLOT PATTERNS IN PARTS ALLOW FOR DEVIATION FROM NOMINAL DIMENSIONS, MULTIPLE PART POSITIONS, AND MULTIPLE TILT ANGLES.
- SEE INSTALLATION MANUAL FOR SETUP INSTRUCTIONS.
- SERRATED FLANGED BOLTS MAY BE REPLACED WITH EQUIVALENT PRESS-IN BOLTS. SEE NOTE 10 FOR MORE OPTIONS.
- PRESS-IN BOLTS, WHERE PRESENT, TO BE INSTALLED TO MANUFACTURERS RECOMMENDED VALUES.
- OTHER SPECIFIC CONNECTIONS ELSEWHERE IN PRINT SET.
- ROLL BAR MUST CONNECT TO THE CORRECT HOLES IN CEE CHANNEL (INNER, OR OUTER TYPICALLY), AS DETERMINED BY PV MODULE MANUFACTURERS ALLOWABLE CLAMPING ZONE.
- USE CORRECT NOMINAL HOLES IN CEE TO CONNECT TO FOUNDATION POST, AS INDICATED. ADJACENT HOLES AND SLOTS FOR FIELD ADJUSTMENTS.
- SERRATED HARDWARE MAY BE REPLACED WITH EQUIVALENT HARDWARE WITH WASHERS IF NECESSARY.
- IN ALL DETAILS, THE PRESENCE OF TWO SETS OF HARDWARE INDICATES THE REQUIREMENT OF TWO SETS OF HARDWARE.
- STAINLESS STEEL HARDWARE MAY BE REPLACED WITH GALVANIZED STEEL HARDWARE OR CORROSION AND STRENGTH COMPARABLE HARDWARE MATERIALS AND FINISHES.
- UNLESS NOTED OTHERWISE, ALL HARDWARE MAY BE INSTALLED IN EITHER DIRECTION (NUT/BOLT MAY BE ON EITHER SIDE OF CONNECTION).
- WHEN NECESSARY, ADDITIONAL HOLES MAY BE DRILLED TO COMPLETE CONNECTION. ENGINEERING SHALL BE CONTRACTED PRIOR TO FIELD MODIFICATIONS OF PARTS.

CUSTOMER

RACKING PROVIDER



RACKING TYPE

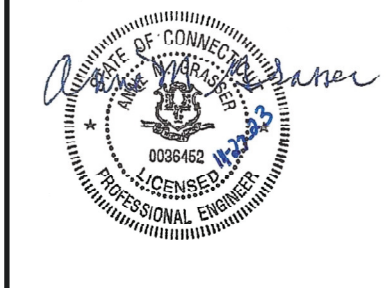


ENGINEER OF RECORD



360 W. DUSSEL DR.
MAUMEE, OH 43537
(P) 419.725.7161 (F) 419.725.7160

PROFESSIONAL SEAL/STAMP



DOCUMENT NAME:
STRUCTURAL PRINT PACKAGE
SITE STREET ADDRESS:
105 RAFFIA RD.
SITE CITY, STATE, ZIP:
ENFIELD, CT 06082

SHEET REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	8/15/2023

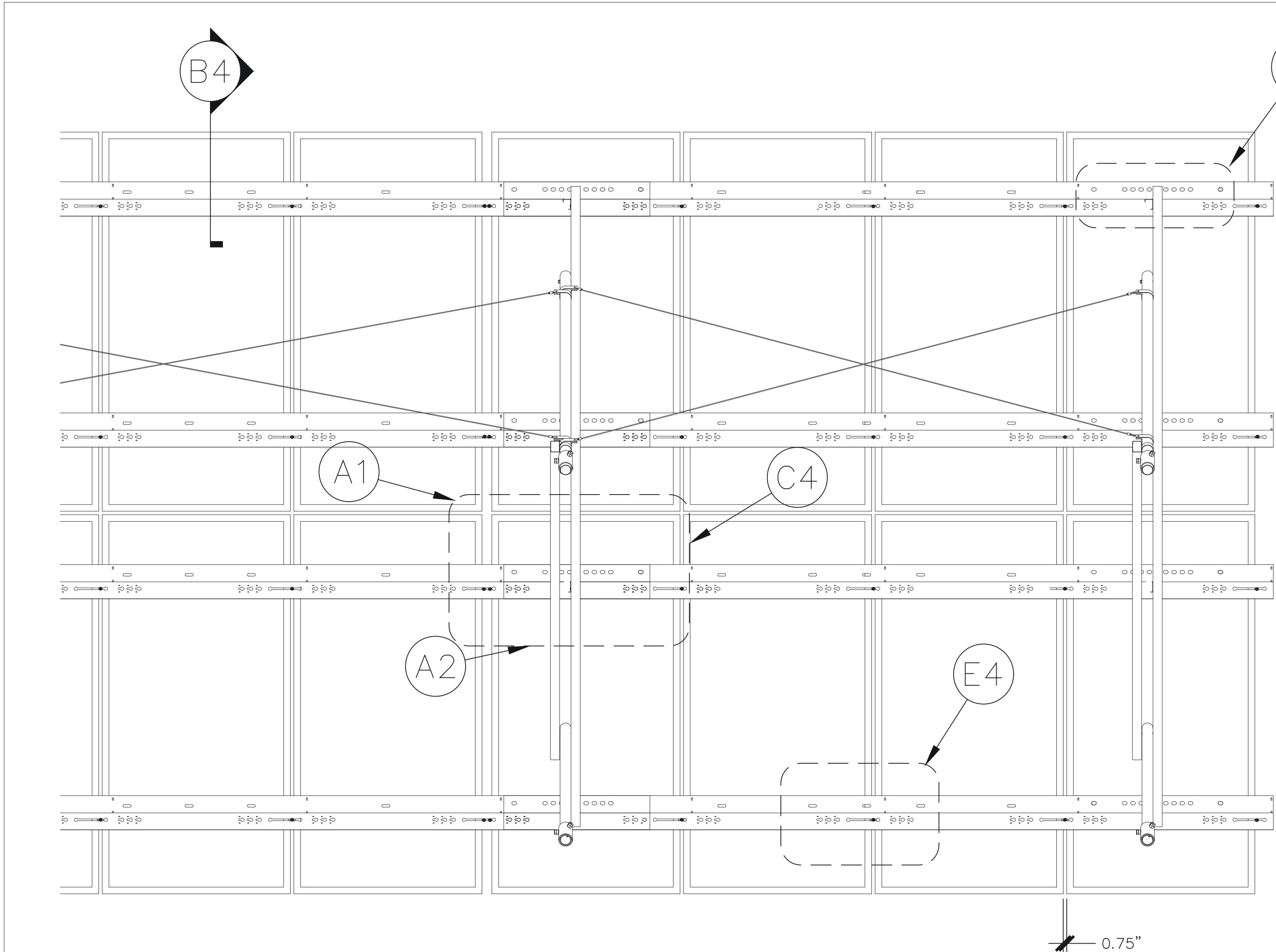
APPROVED

DRAWN	REVIEWED	APPROVED	SIZE
LB	TM	JDI	D
SHEET NAME			
CONNECTIONS			
PROJECT NUMBER			
221041			
DRAWING NUMBER		REV.	
S.400		A	

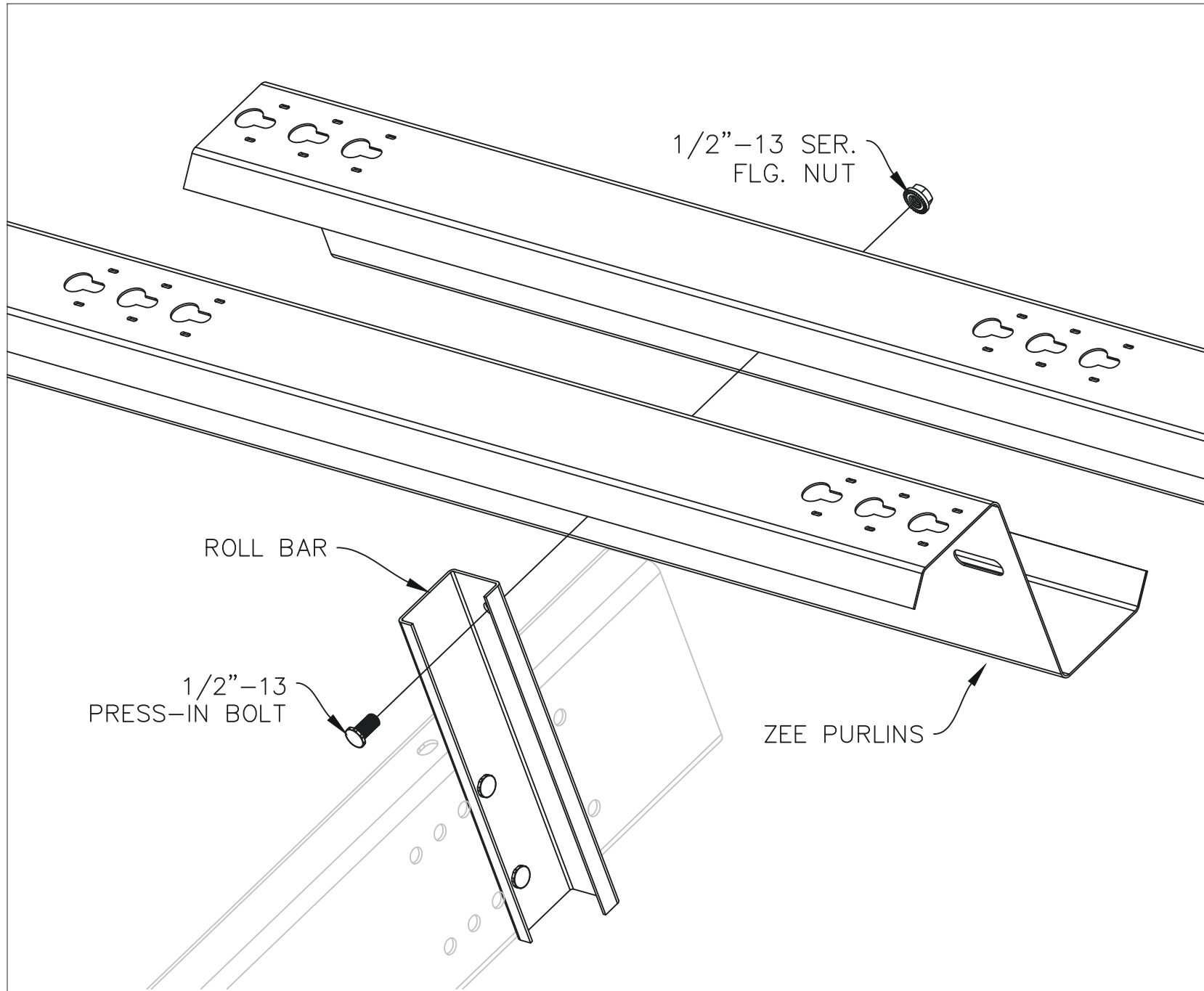
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03/24/2023 2:24:55 PM JVB

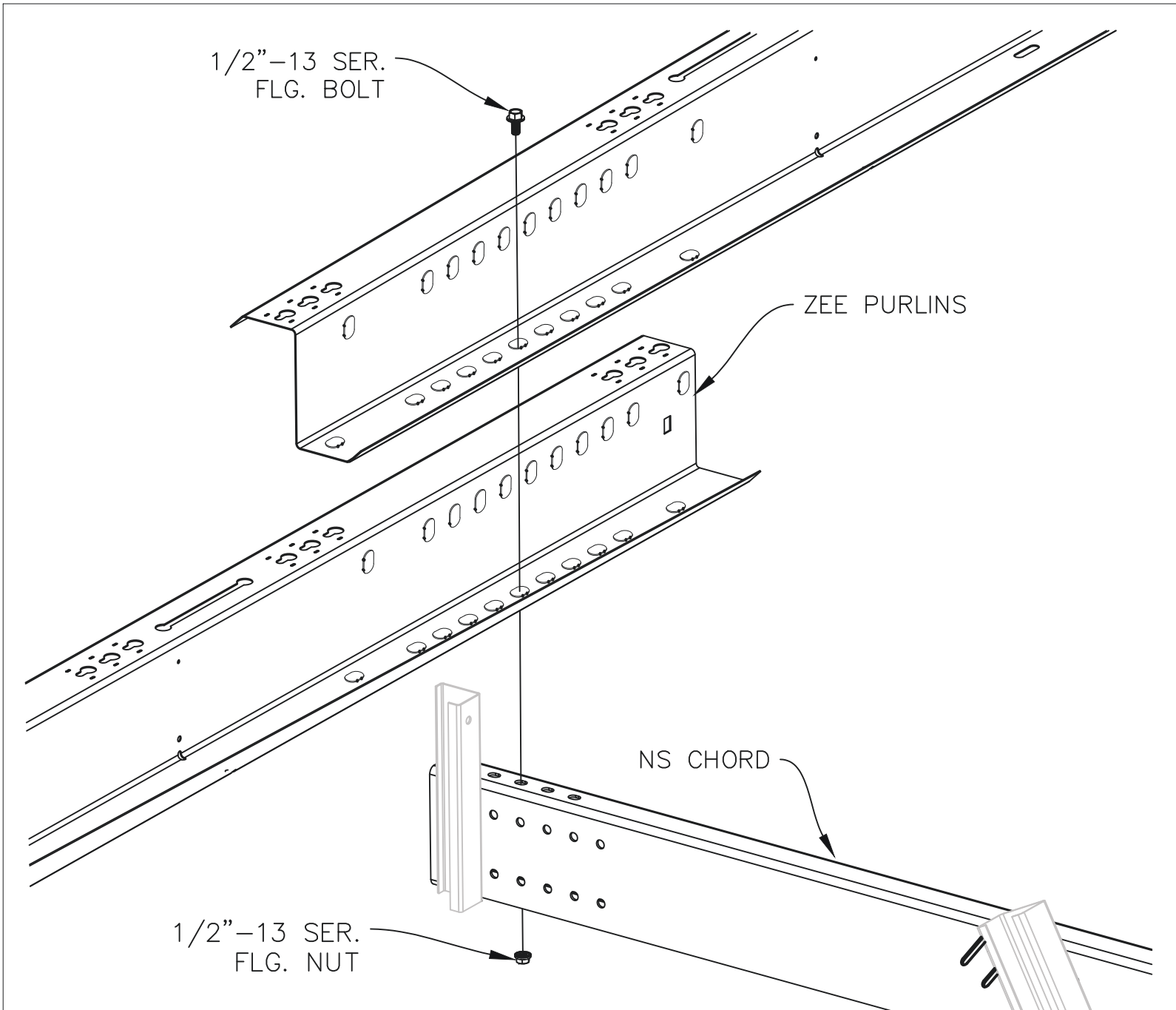
03/24/23 1:13:13 all project/2023/21041_model.ctb, user: c:\pwworkspace\apacorp\project\21041 - model.ctb - rpa - enroute.dwg



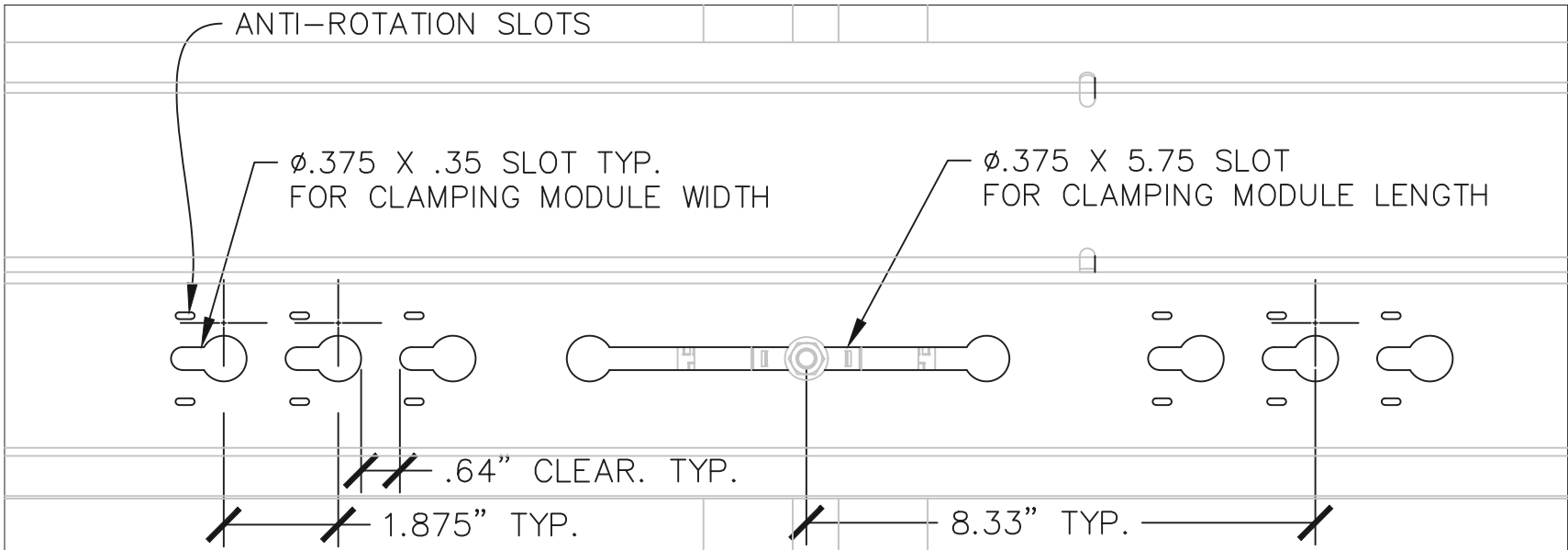
B1 OVERVIEW: ZEE PURLIN CONNECTIONS (RACK UNDERSIDE)



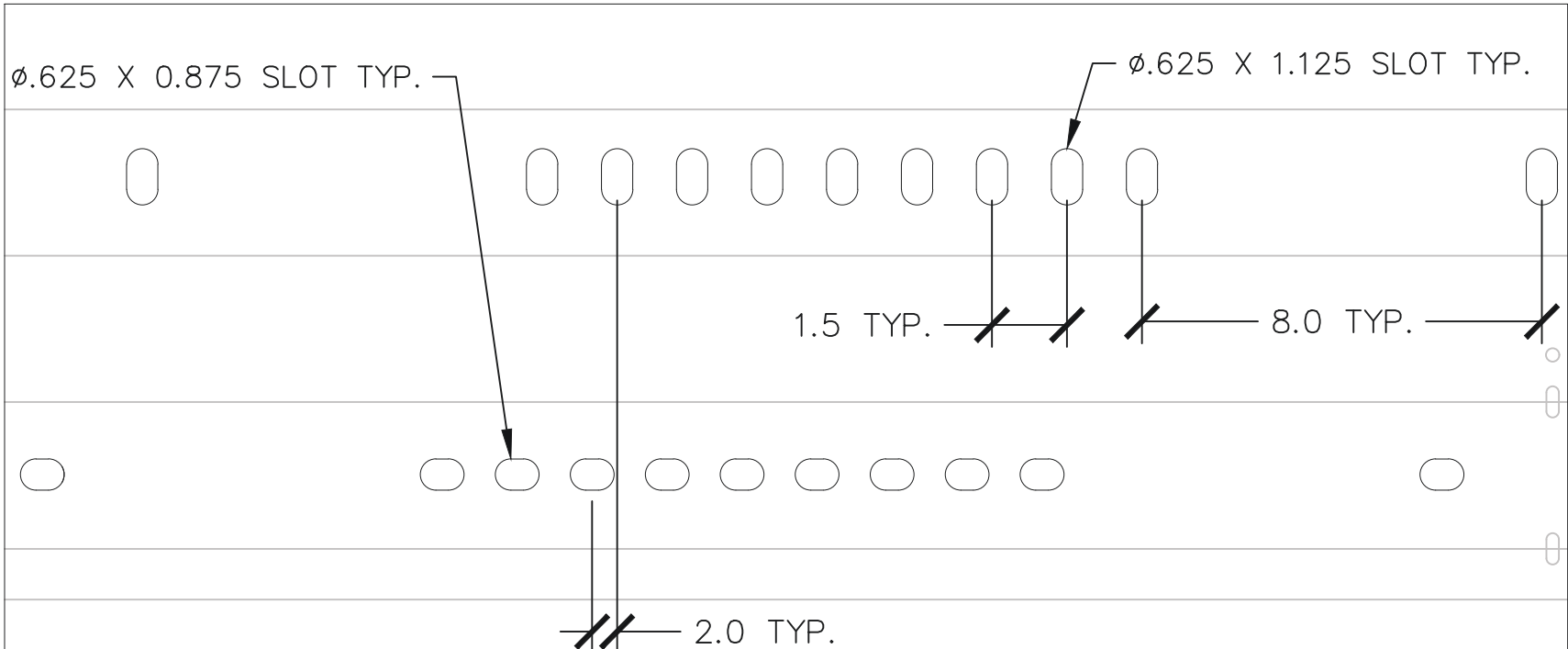
A1 CONNECTION: ZEE PURLINS-TO-ROLL BAR



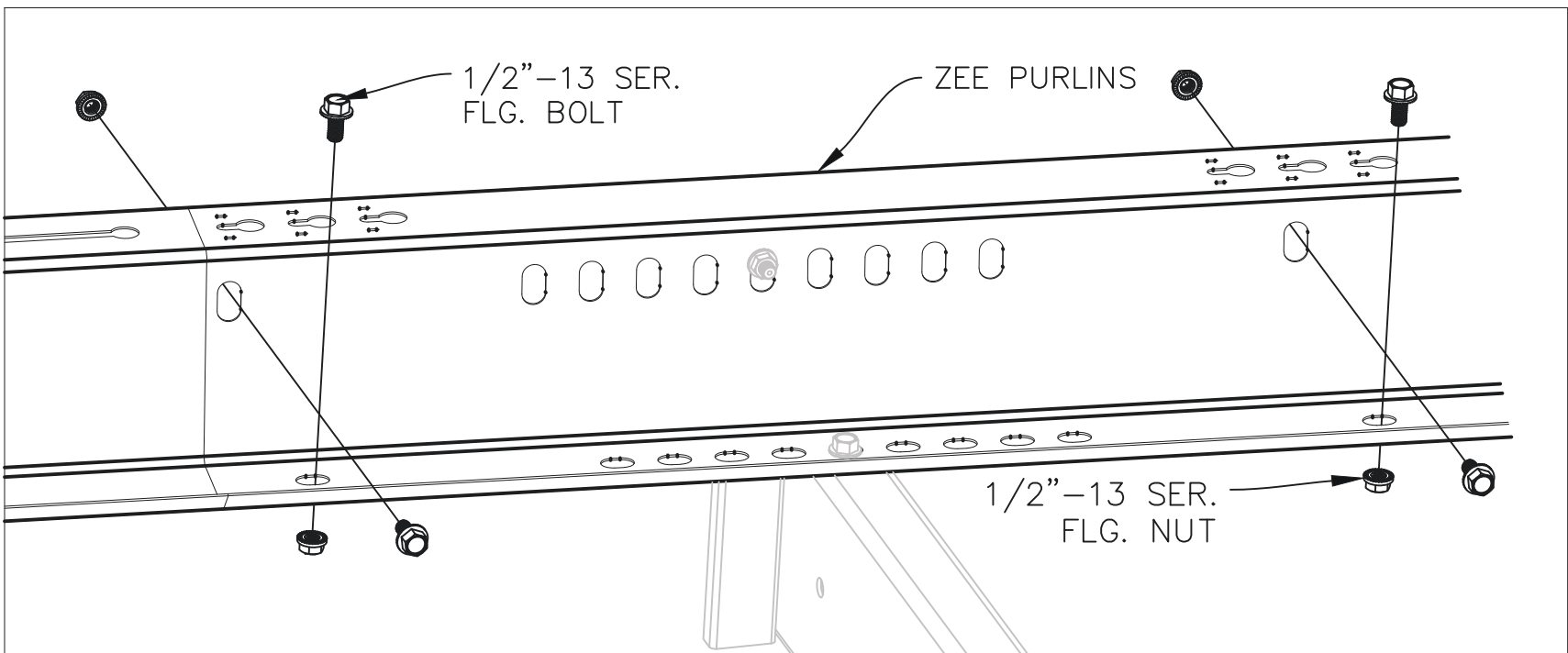
A2 CONNECTION: ZEE PURLINS-TO-NS CHORD



E4 DETAIL: ZEE PURLIN PANEL SLOTS



D4 DETAIL: ZEE PURLIN SPLICE SLOTS



C4 CONNECTION: ZEE-TO-ZEE PURLINS SPLICE

NOTES:

1. HARDWARE TORQUE VALUES:

3/8"-16 STAINLESS STEEL
MIN.: 17.5 FT-LBS
NOM.: 19.6 FT-LBS
MAX.: 50.0 FT-LBS

2. DEPICTED HARDWARE AND PART PLACEMENT NOT INDICATIVE OF PREFERRED OR REQUIRED POSITIONS.

3. HOLE/SLOT PATTERNS IN PARTS ALLOW FOR DEVIATION FROM NOMINAL DIMENSIONS, MULTIPLE PART POSITIONS, AND MULTIPLE TILT ANGLES.

4. SEE INSTALLATION MANUAL FOR SETUP INSTRUCTIONS.

5. SERRATED FLANGED BOLTS MAY BE REPLACED WITH EQUIVALENT PRESS-IN BOLTS.

6. PRESS-IN BOLTS, WHERE PRESENT, TO BE INSTALLED TO MANUFACTURERS RECOMMENDED VALUES.

7. OTHER SPECIFIC CONNECTIONS ELSEWHERE IN PRINT SET.

8. SERRATED HARDWARE MAY BE REPLACED WITH EQUIVALENT HARDWARE WITH WASHERS IF NECESSARY.

9. IN ALL DETAILS, THE PRESENCE OF TWO SETS OF HARDWARE INDICATES THE REQUIREMENT OF TWO SETS OF HARDWARE.

10. STAINLESS STEEL HARDWARE MAY BE REPLACED WITH GALVANIZED STEEL HARDWARE OR CORROSION AND STRENGTH COMPARABLE HARDWARE MATERIALS AND FINISHES.

11. UNLESS NOTED OTHERWISE, ALL HARDWARE MAY BE INSTALLED IN EITHER DIRECTION (NUT/BOLT MAY BE ON EITHER SIDE OF CONNECTION).

12. WHEN NECESSARY, ADDITIONAL HOLES MAY BE DRILLED TO COMPLETE CONNECTION. ENGINEERING SHALL BE CONTRACTED PRIOR TO FIELD MODIFICATIONS OF PARTS.

13. CONNECTION IN DETAIL A1 & A2 SHOWN IN NOMINAL POSITION. ACTUAL CONNECTION MAY BE $\pm 6"$.

14. WHEN CONNECTIONS IN DETAIL A1 & A2 ARE AT THEIR MAX/MIN POSITIONS ($\pm 2"$) INTERFERING SPLICE HARDWARE MAY BE RELOCATED TO NEXT NEAREST SLOTS.

15. WHERE PRESENT, TRANSVERSE BRACE MAY UTILIZE LOWER SPLICE BOLTS. SEE CONNECTIONS SHEET FOR MORE INFORMATION.

16. ZEE-TO-ZEE SPLICE SHALL ALWAYS OVERLAP MINIMUM 32", AS INDICATED, EXCEPT AT ENDS OF ROW, WHERE NO SPLICE IS REQUIRED.

17. SPLICE MAY OVERLAP IN EITHER DIRECTION.

18. ZEE PURLIN MATERIAL AND FINISH ARE MANUFACTURED TO SPECIFICATIONS THAT MEET OR EXCEED OUR STANDARD PRODUCT WARRANTY.

19. ZEE PURLINS GALVANIZED TO CONFORM TO A MINIMUM THICKNESS DESIGNATION EQUAL TO G90 OR INLINE GALVANIZED TO COMPARABLE THICKNESS AS PER ASTM A1057.

20. TYPICAL ZEE PURLIN RETURN LIP ANGLE SHOWN. ACTUAL ANGLE MAY VARY.

21. SLOT DIMENSIONS FOR REFERENCE ONLY. FINAL SHAPE, FREQUENCY, AND DIMENSIONS MAY VARY.

22. LENGTH OF PURLIN VARIES BY PROJECT AND LOCATION WITHIN ARRAY.

CUSTOMER

RACKING PROVIDER

APA
SOLAR RACKING
20-345 COUNTY ROAD X
RIDGEVILLE CORNERS, OHIO 43555
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(F) 419.267.5214
WWW.APASOLAR.COM

RACKING TYPE

TITAN
R10

ENGINEER OF RECORD

the jdg group
architects & engineers

360 W. DUSSEL DR.
MAUMEE, OH 43537
(P) 419.725.7161 (F) 419.725.7160

PROFESSIONAL SEAL/STAMP



DOCUMENT NAME:
STRUCTURAL PRINT PACKAGE

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105 RAFFIA RD.

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APPROVED

DRAWN	REVIEWED	APPROVED	SIZE
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SHEET NAME			
STRUCTURAL PURLINS			
PROJECT NUMBER			
221041			
DRAWING NUMBER		REV.	
S.500		A	

1X BRACE SET

L1

L2

TRANSVERSE

TRANSVERSE BRACE LOCATION FROM CHORD		
MODULES PER BAY	L1	L2
>3	(70.25")	(12.00")
<4	(52.00")	(14.00")

CABLE DIAMETER
1/8"

Technical drawing of a 90-degree elbow. Dimensions are given in inches: 1.50" horizontal run, 1.05" vertical rise, 0.78" horizontal offset, and 0.05" vertical offset. A fillet radius of R0.08 is indicated.

Technical drawing of a road sign. The sign is a diamond shape with a black border. Inside the diamond, the text 'D5' is written above 'S600'. Below the diamond is a circular speed limit sign with a black border and the number '50' in the center. A dimension line indicates a radius of R0.52" for the circular sign.

Diagram illustrating the assembly components for the end clamp:

- M8-1.25 HEX HEAD CAP SCREW
- ENDCLAMP
- M8-1.25 SER. FLG. NUT

Diagram illustrating the assembly components for the M8-1.25 Hex Head Cap Screw:

- M8-1.25 HEX HEAD CAP SCREW
- LOCK WASHER
- MIDCLAMP
- BONDING WASHER
- SPRING
- M8-1.25 SER. FLG. NUT

S.600	A
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