



Submittal #11 68 16-6.0 11 68 16 - Play Structures

Haselden Construction, LLC
6950 South Potomac Street
Centennial, Colorado 80112
Phone: (303) 751-1478
Fax: (303) 751-1627

Project: 190123 - Strawberry Park ES
39620 Amethyst Dr.
Steamboat Springs, Colorado 80487

Pre-K Shade Shelter Shop Drawings

REVISION:	0	SUBMITTAL MANAGER:	Ian Grams (Haselden Construction, LLC)
STATUS:	Open	DATE CREATED:	12/17/2020
ISSUE DATE:	12/17/2020	SPEC SECTION:	11 68 16 - Play Structures
RESPONSIBLE CONTRACTOR:	Star Play	RECEIVED FROM:	Brian Quintana
RECEIVED DATE:		SUBMIT BY:	
FINAL DUE DATE:	01/4/2021	LOCATION:	
		COST CODE:	
		TYPE:	Shop Drawing
APPROVERS:	Warner Hopkins (TAB Associates, Inc.)		
BALL IN COURT:	Ian Grams (Haselden Construction, LLC)		
DISTRIBUTION:	Todd Raper (Dynamic Program Management), Reilly O'Brien (Dynamic Program Management), Sarah Lara (Dynamic Program Management), Pascal Ginesta (Steamboat Springs School District)		
DESCRIPTION:			

SUBMITTAL WORKFLOW

NAME	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
Ian Grams		12/17/2020		Pending		
Warner Hopkins		01/04/2021		Pending		

BY

DATE

COPIES TO

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- ☒ No Comments
- ☐ Comments as noted
- ☐ Revise and resubmit

Review of submittal information is for general compliance with the contract documents, and does not include checking of calculations, dimensions or quantities; nor does it include review of contractor's safety measures, nor means and methods of construction. The specialty engineer is responsible for the design and detailing of all elements shown.

JIRSA HEDRICK & ASSOCIATES, INC.

Date: 12/18/2020 By: VSW

- | | |
|---|---|
| <input checked="" type="checkbox"/> Reviewed | <input type="checkbox"/> Furnish as Corrected |
| <input type="checkbox"/> Rejected | <input type="checkbox"/> Revise & Resubmit |
| <input type="checkbox"/> Submit Specific Item | <input type="checkbox"/> Action Not Required |

This review is only for the general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of his or her Work with that of all other trades; and for performing all work in a safe and satisfactory manner.



TAB Associates, Inc.

Date:01/05/2021 Name:warner

**RCRBD Record Set
T.A.**

04/22/2021

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☒ REVIEWED, NO EXCEPTION TAKEN

☐ FURNISH AS CORRECTED

☐ REVISE AS NOTED, RESUBMIT

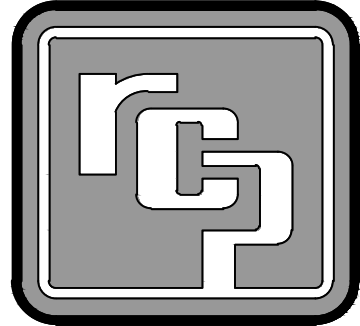
☐ REJECTED

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

DHM DESIGN CORPORATION

Date 01.04.2021 By Mark Wilcox

Shelter dimensions are approved at 10'x15'



CONTRACT NOTE:
Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

SOLID TIMBER SPECIFICATIONS
2 x 4 Nailer ----- #1 AYC, S4S, KD, Seal.
2 x 6 Fascia ----- #1 AYC, S4S, KD, Seal.
2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, Seal.
Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:
TWO LAYERS OF SYNTHETIC UNDERLAYMENT.
SYNTHETIC UNDERLAYMENT TO CONFORM TO ASTM D226 TYPE II OR ASTM D4869 TYPE IV.
ATTACH UNDERLAYMENT PER MANUFACTURER'S RECOMMENDATIONS
OR BUILDING CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

STEEL & HARDWARE SHOP NOTES:
1. All steel plate to be ASTM A572 Grade 50.
2. Steel tubes to be ASTM A500 Grade C.
3. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
4. All bolts to be ASTM F3125 Grade A325 Type 1. Exception: All bolts smaller than 1/2"Ø to be A307A. Anchor bolts as noted.
5. All nuts to be ASTM A563DH except as noted. At F1554 Gr. 36 anchor bolts and A307A bolts, nuts to be ASTM A563A.
6. All fabricated steel to be powder coated; color selected by owner.
7. Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

CONCRETE NOTES:
1. Footings are to bear on undisturbed, natural soil or engineered fill and to be compacted to 95% Proctor density.
2. Concrete foundation, re-bar, leveling nuts, grout & anchor bolts (if required) are N.I.C.
3. All concrete reinforcing steel to be grade 60, deformed bars.
4. F_c of concrete to be 3000 psi @ 28 days.
5. All concrete work to be in accordance w/ latest ACI code.
6. Soil bearing pressures: 3000 psf vertical bearing, 250 pcf passive lateral bearing per geotechnical report dated 12-13-2019.
7. Leveling nuts have been shown under column base plate. Adjust leveling nuts as required to ensure all column bases are at the same elevation. Fill void between column base plate and top of foundation with non-shrink grout.
8. Grout shall be non-shrink, non-metallic, factory pre-mixed grout in accordance with ASTM C1107 with F_c of not less than 9,000 psi.
9. Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

ELECTRICAL CONDUIT NOTE:
If electrical access is required, install conduit in foundation and align with access hole in column base plate. Coordinate with electrical contractor.

ERECTION NOTES:
All steel members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Predrill wood for screws and nails if necessary to avoid splitting.

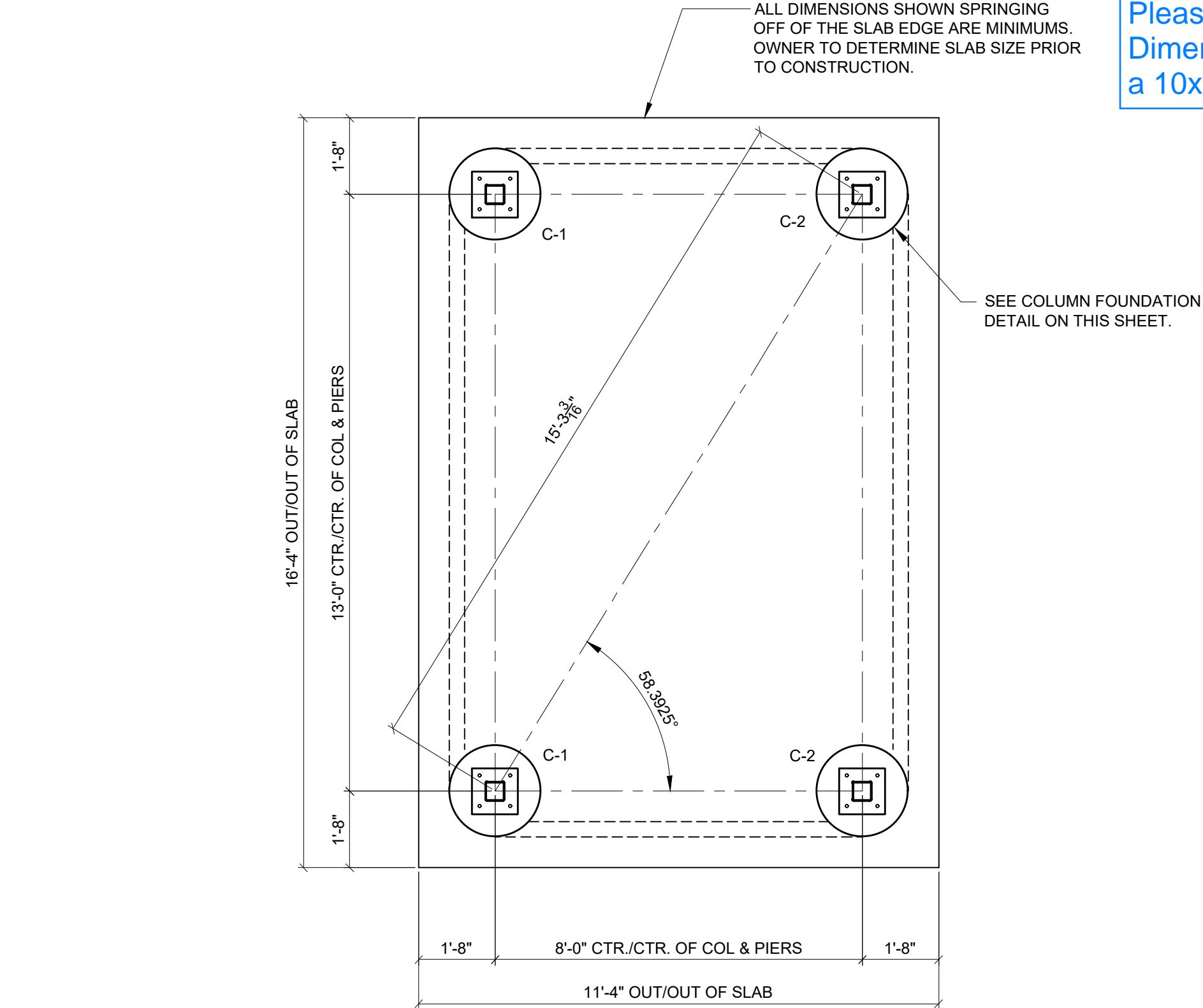
Bolts to be snug tight. Torque measurement is not required.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

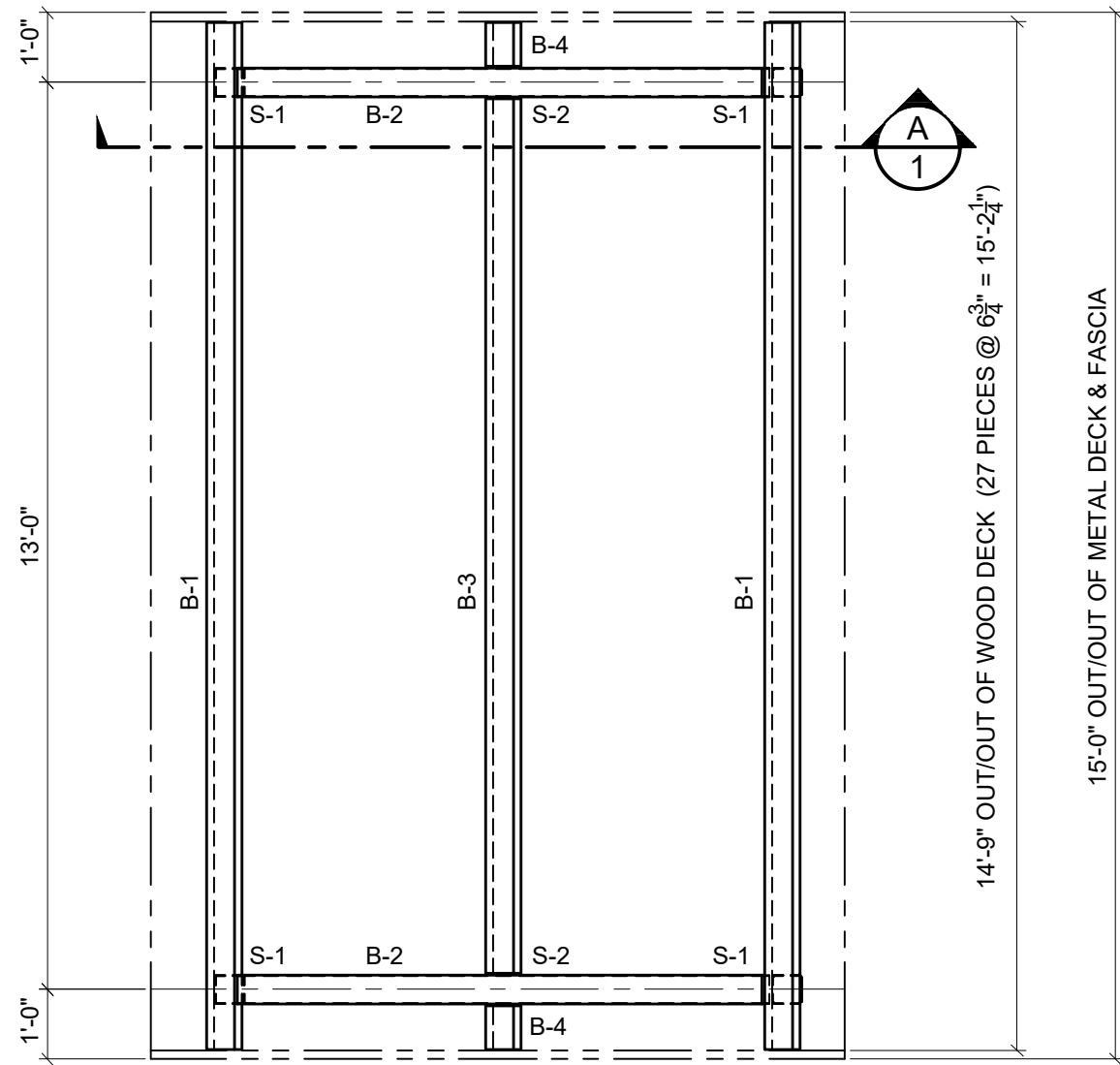
DESIGN CRITERIA:
2018 International Building Code w/ Amendments
Type of Construction: Type III-B
Occupancy Classification: Assembly A-3
Building Risk Category III
Mean Roof Height = 10'-0"
Building Volume = 1,500 ft³
No. of Occupants = 21 (7 ft² per person)
ROOF DL
Metal Roofing & Felt 1.2 psf
2" Nom. T&G Deck 4.6
Misc. 1.2
Total = 7 psf + weight of framing

FLOOR LL
L = 100 psf
ROOF LL
L_r = 20 psf
ROOF SL
P_g = 90 psf (Ground Snow)
P_r = 0.7*P_g*C_e*C_d*I_s
C_e = 1.0, C_d = 1.2, I_s = 1.1
P_r = 83 psf
P_s = P_r*C_s
3:12 pitch: C_s = 1.0, P_s = 83 psf
WIND LOAD
V_{ult} = 120 mph, V_{base} = 93 mph
Exposure 'C', Open Building w/ GC_o = 0
Component & Cladding Ultimate Wind Pressures: See ROOF PLAN
SEISMIC
I_e = 1.25
S_S = 0.585, S₁ = 0.102
Site Class D (assumed)
S_{DS} = 0.520, S_{D1} = 0.163
Seismic Design Category D
Equivalent Lateral Force Procedure
Cantilevered Column Systems - Steel ordinary cantilever column system
R = 1.25, C_s = 0.520, p = 1.0, V = 2,500#

METAL ROOFING NOTES:
CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.
METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.
DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

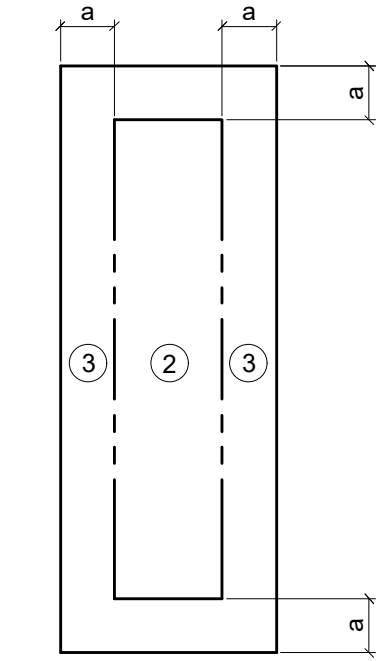


COLUMN LAYOUT PLAN
SCALE: 3/8" = 1'-0"



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

ERECTOR NOTE:
SEE METAL DECK DETAILS FOR ATTACHMENT OF CAP/TRIM PIECES.



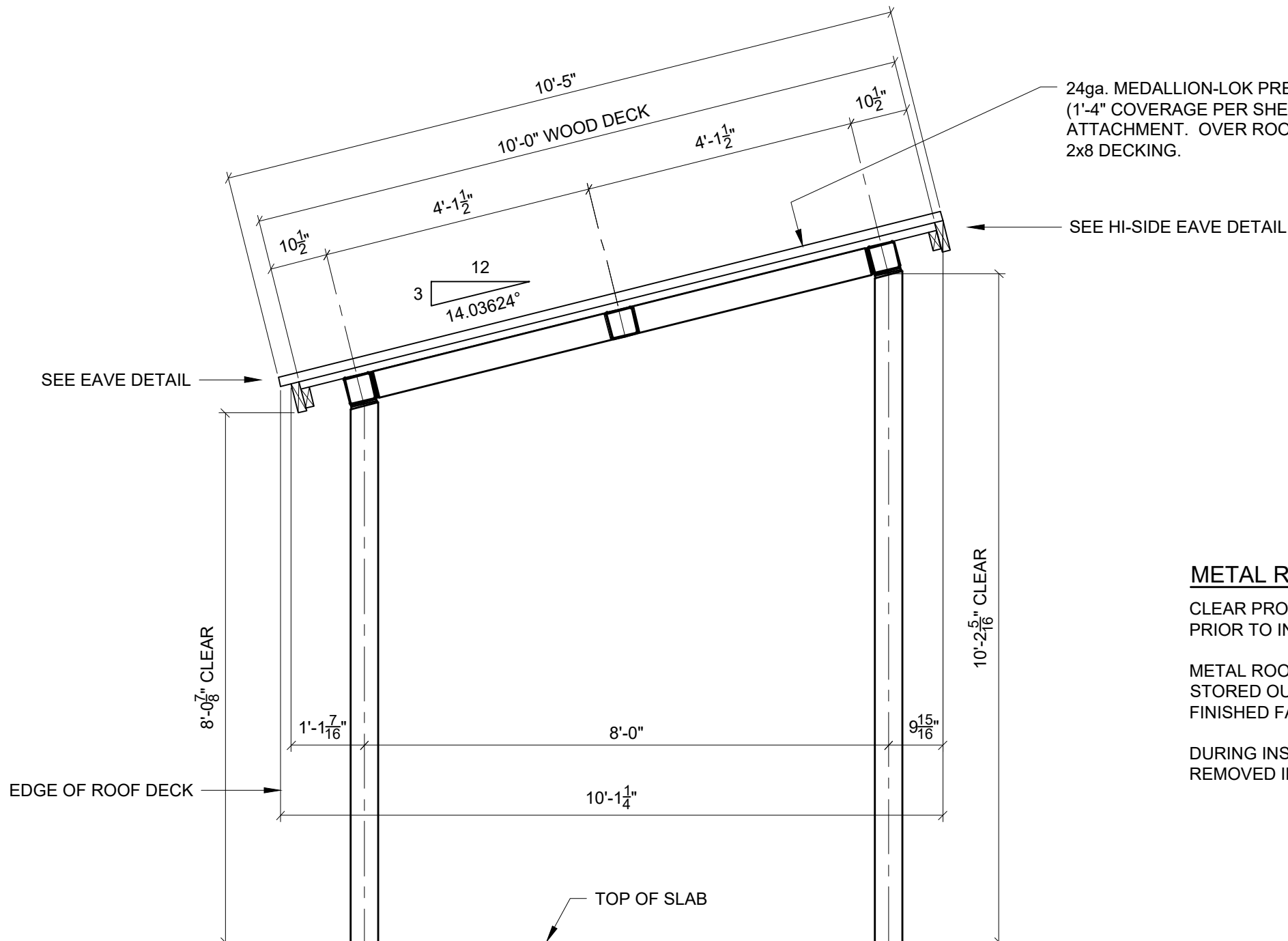
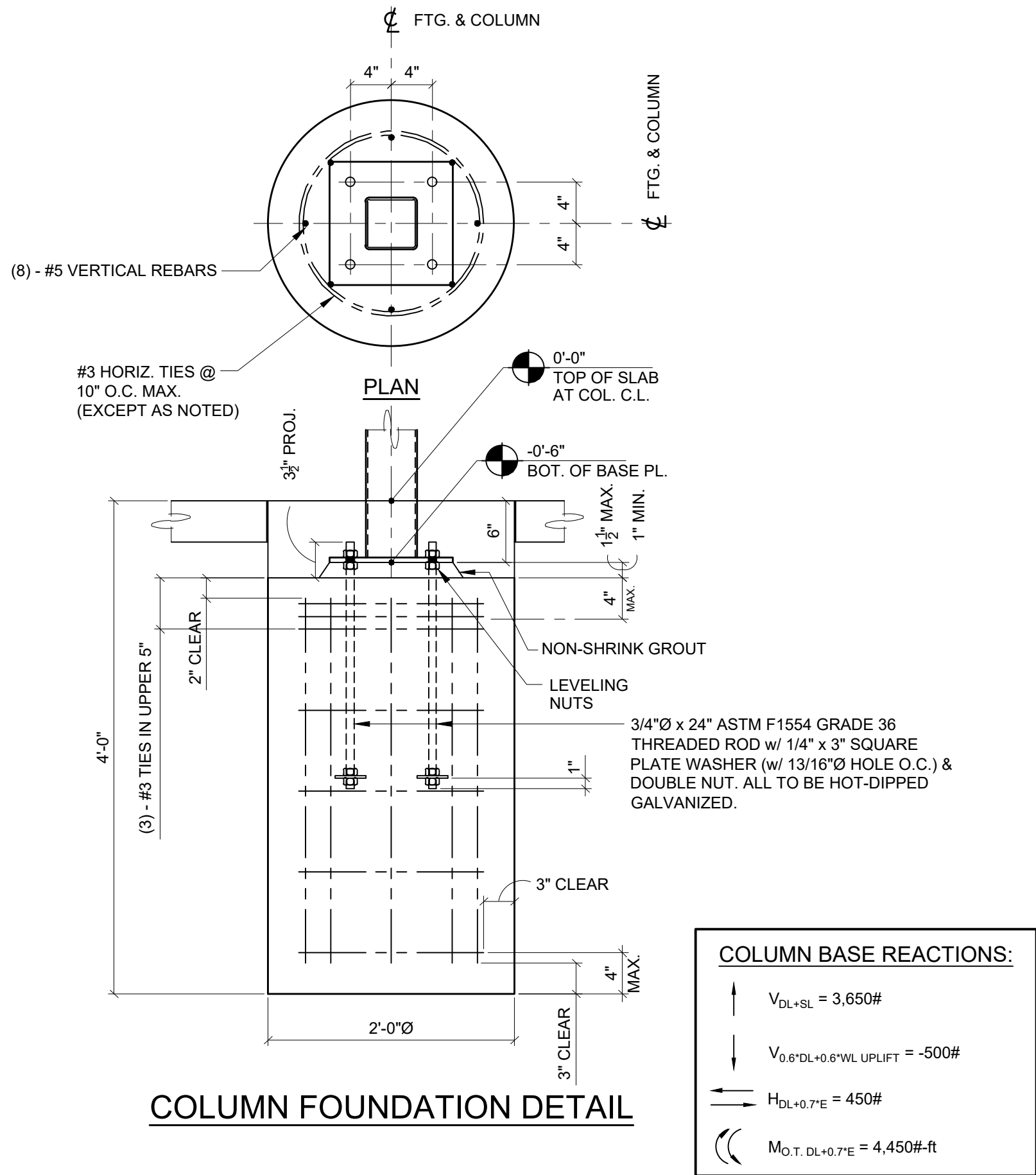
ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION
2	60.3 PSF	63.3 PSF
3	80.3 PSF	87.2 PSF

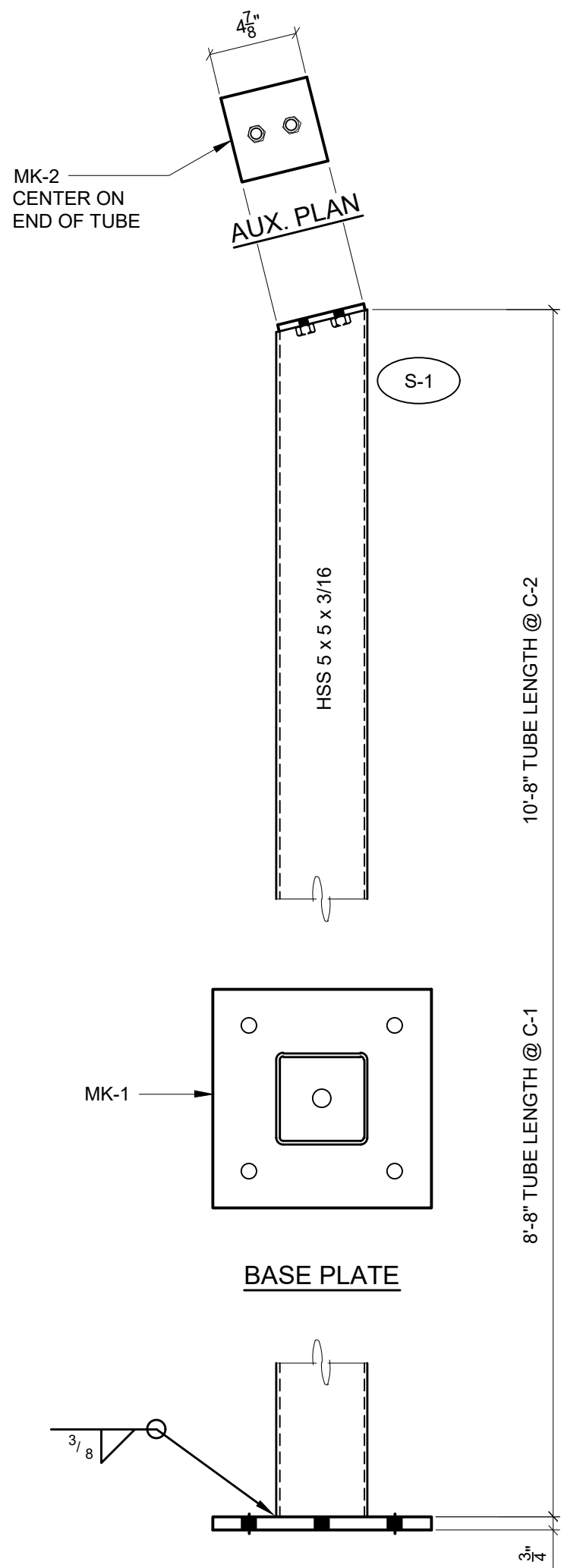
UNLOADING, HANDLING & STORAGE OF DECKING

DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY TWO TONS. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS. IF STORED TEMPORARILY, DECK SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND. IF WOOD DECKING IS WET &/OR STAINED, CONTACT RCP SHELTERS AND DO NOT INSTALL DECK.

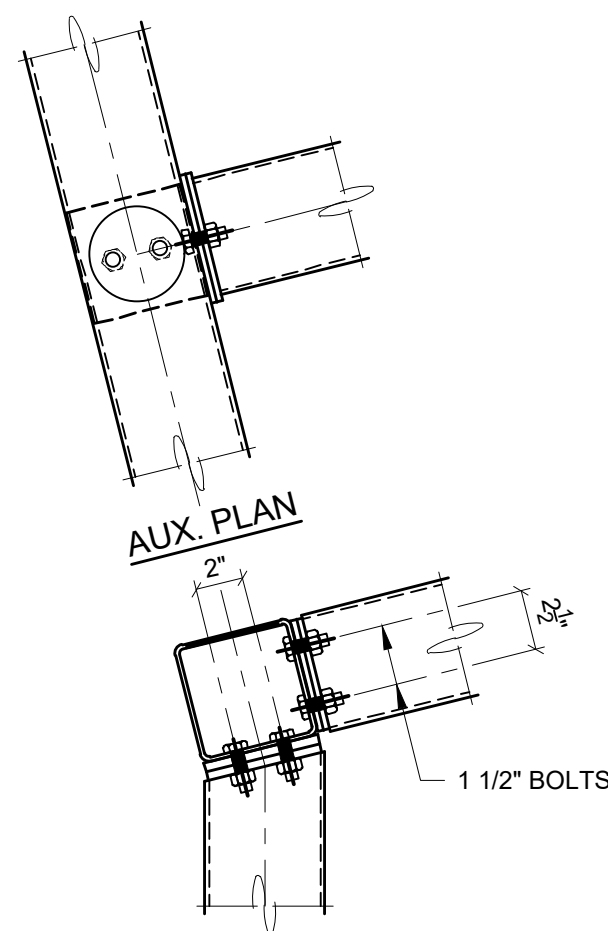
IT IS THE ERECTORS RESPONSIBILITY TO TALLY THE DECKING UPON ARRIVAL. NOTIFY "RCP SHELTERS" AT ONCE OF ANY SHORTAGES.



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

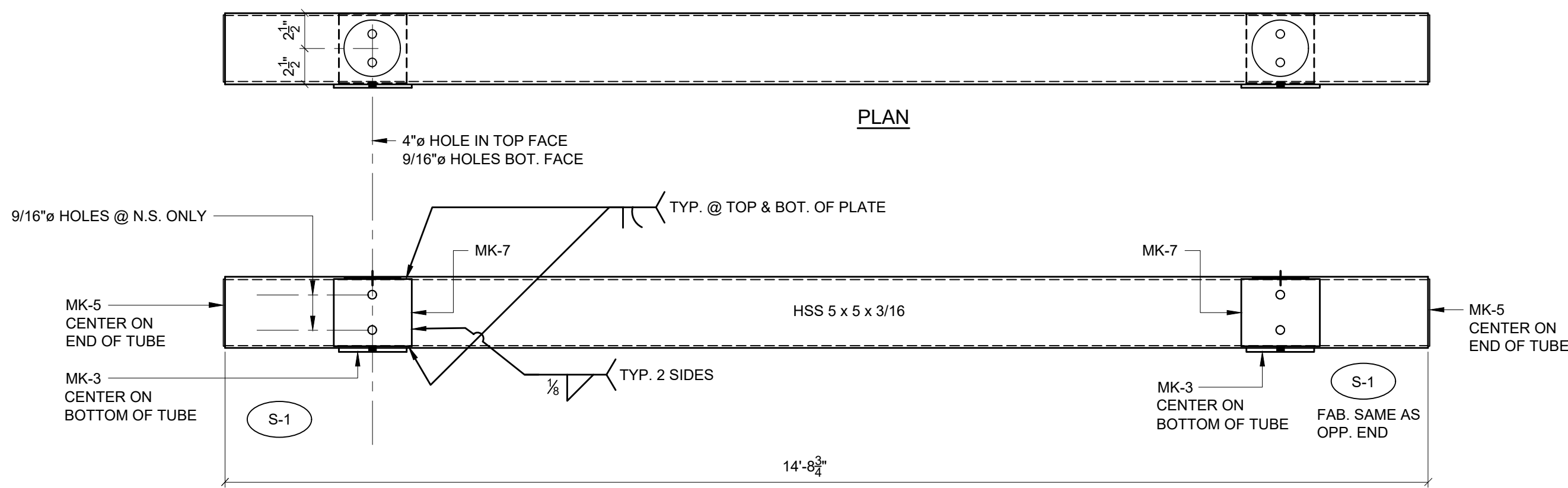


COLUMN C-1 2-REQ'D
COLUMN C-2 2-REQ'D

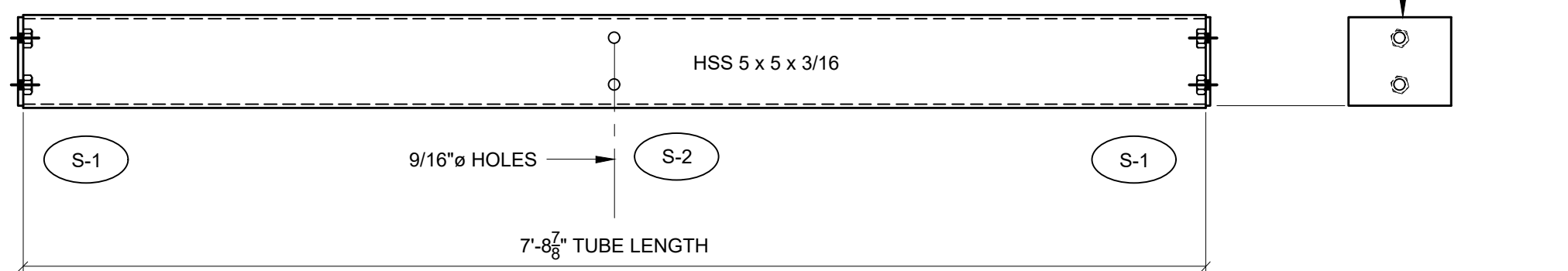


CONN S-1 4-req'd.

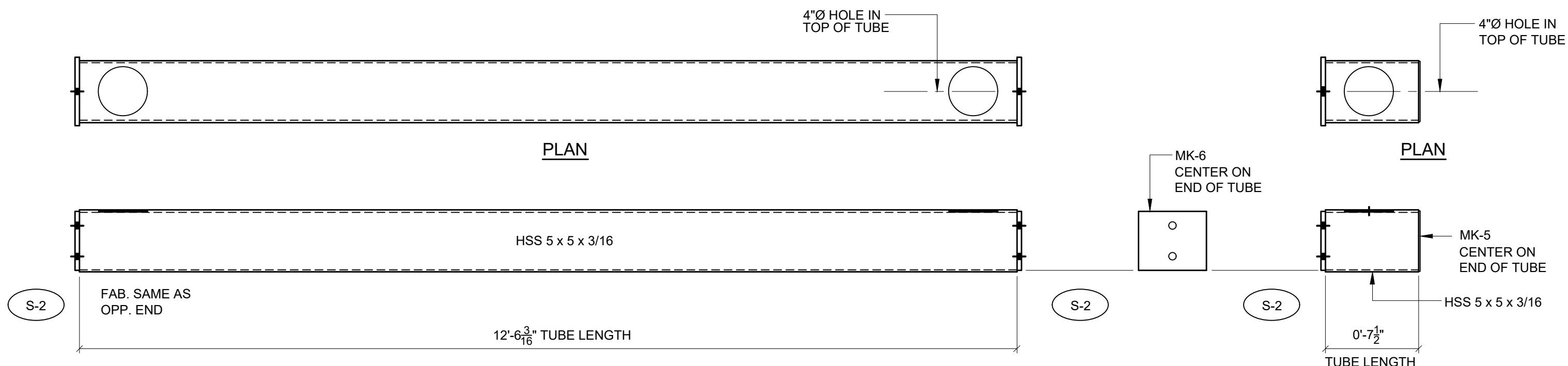
- 2 - 1/2"Ø x 1 1/2" BOLT (WITHOUT NUT)
2 - 1/2"Ø x 1 3/4" BOLT (WITHOUT NUT)



BEAM B-1 2-REQ'D



BEAM B-2 2-REQ'D



BEAM B-3 1-REQ'D

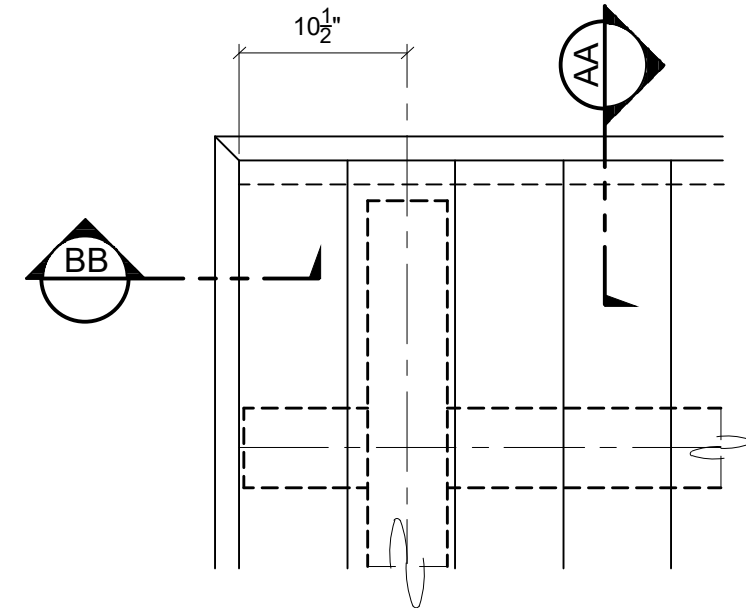
BEAM B-4 2-REQ'D

HARDWARE PARTS LIST			
Q	QUANTITY	DESCRIPTION	REMARKS
8	L	1/2"Ø x 1 1/2" BOLT	H325G 050 0150
8	L	1/2"Ø x 1 3/4" BOLT	H325G 050 0175
4	L	1/2"Ø x 6 1/2" BOLT	H325G 050 0650
16	A	1/2"Ø HEX NUT	HN325G 050-13
4	L	1/2"Ø HEX NUT	HN325G 050-13
162	L	1/4"-20 x 2 3/4" THREAD CUTTING SCREW	HTCSF 025 0275 #1
-	L	10d HDG CASING NAIL (0.128"Ø x 3")	- N.I.C., HDG
-	L	16d SINKER NAIL (0.148"Ø x 3 1/4")	- N.I.C.
16	L	3/4"Ø x 24" (F1554 GR. 36) THREADED ROD	- N.I.C., HDG
16	L	1/4" x 3" SQ. WASHER	- N.I.C., HDG
64	L	3/4"Ø HEX NUT A563A (ANCHOR & LEVELING)	- N.I.C., HDG

HARDWARE NOTES:
1. ALTERNATE FASTENERS ALLOWED. SEE TYPICAL WOOD DECK ATTACHMENT NOTE ON SHOP DRAWINGS.

TYPICAL DECK LAY-UP

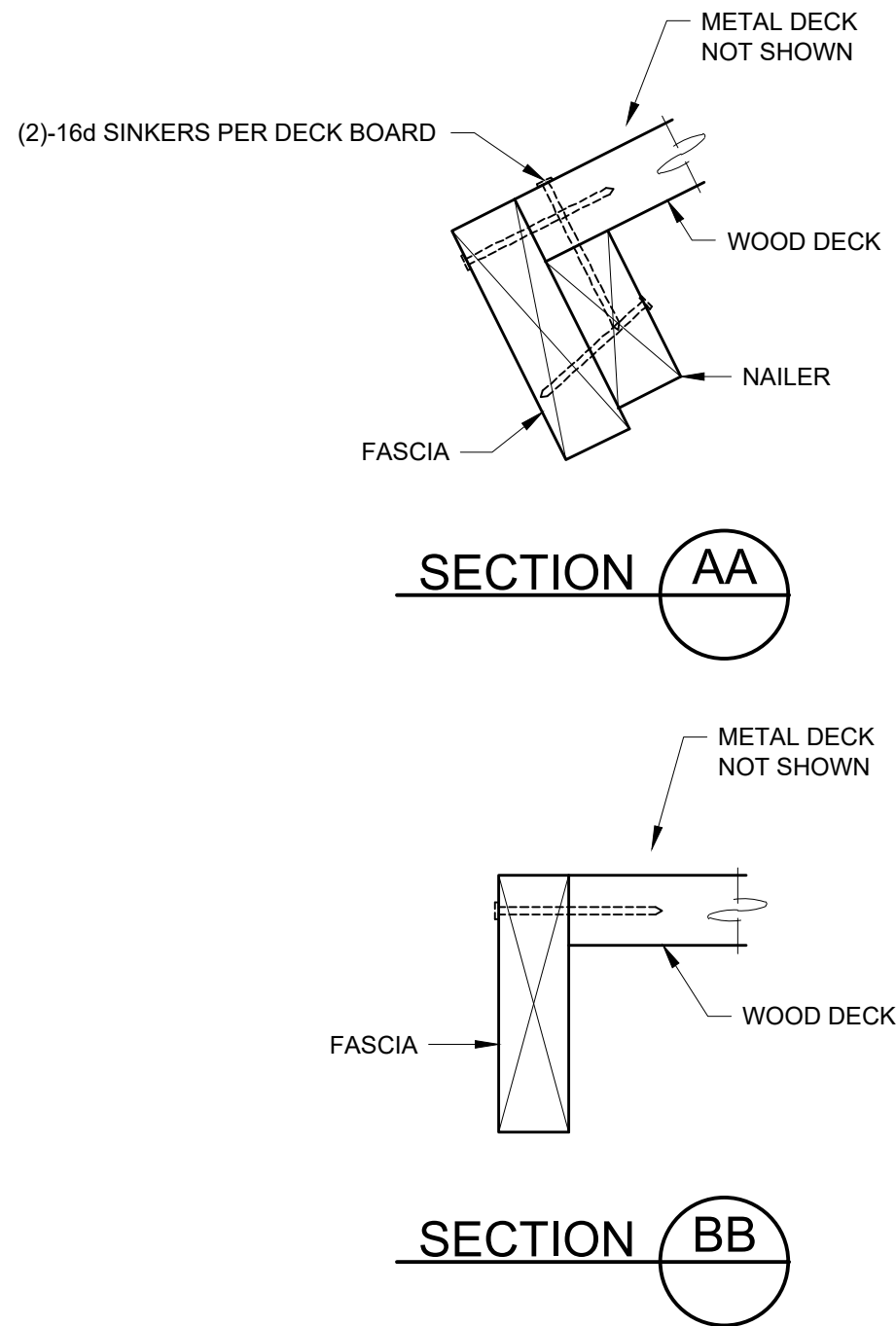
1. START LAYING DECK AT RAKE W/ TONGUES OUT.
2. DRIVE COURSES TIGHT W/ BLOCKING.
3. ATTACH DECKING PER DETAILS ON SHEET 3.
4. SNAP CHALK LINE AT BUILDING EAVE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS.



DECK PLAN AT CORNERS

FASCIA NOTES:

1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - c. AT CORNERS - 2 NAILS EACH DIRECTION
 - d. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

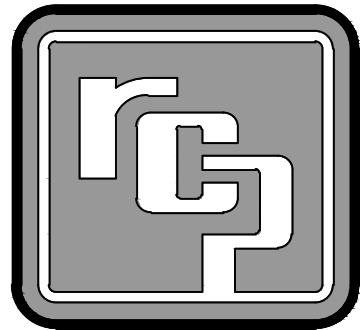


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PROJ. NO.:

20-242-A

DRAWN: DPS 12-14-20

CHK'D:

REV 1:

REV 2:

REV 3:

REV 4:

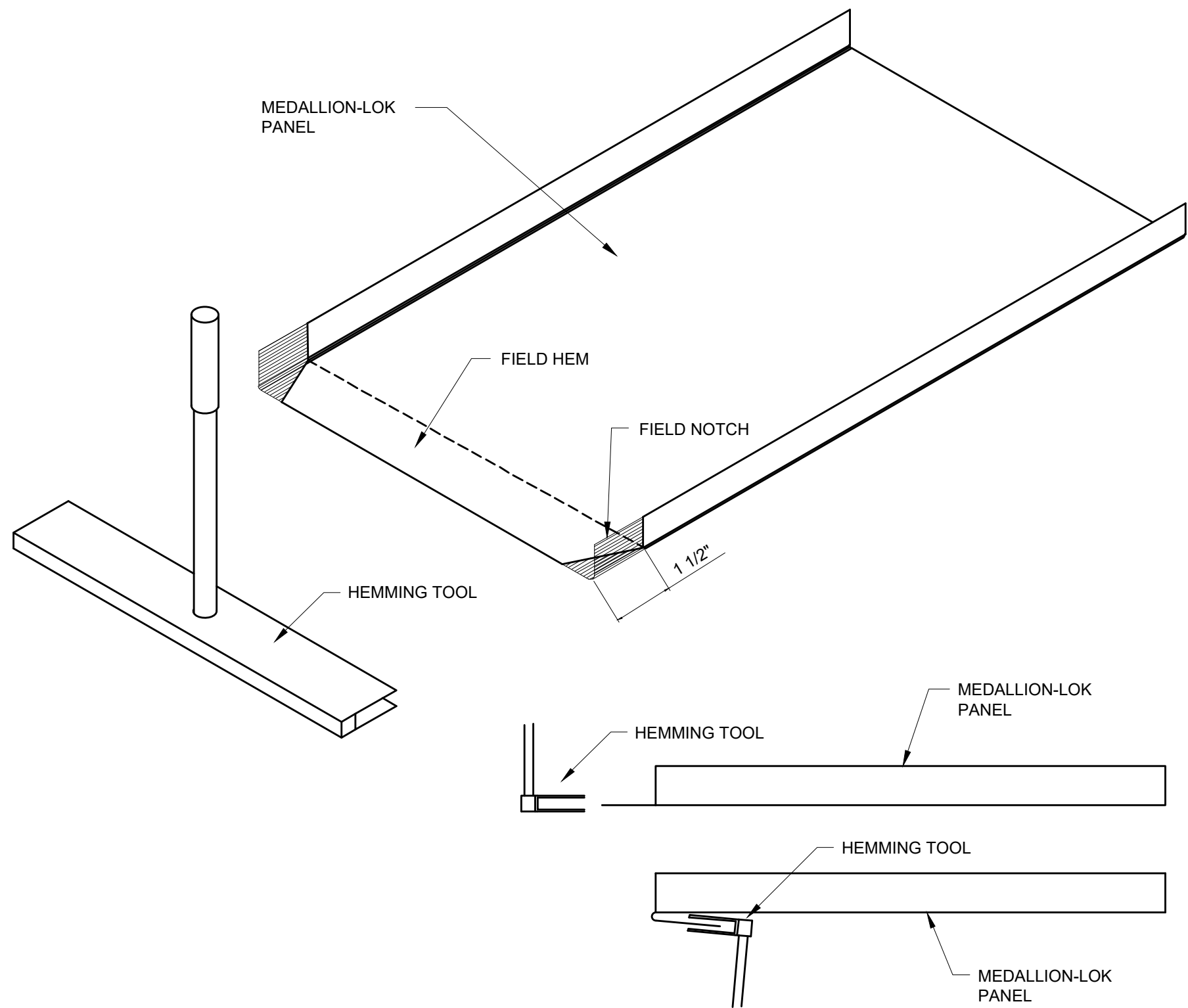
SHOP DWG NO.: 13598 R

EEC JOB NO.: 13757 R

SHEET NO.:

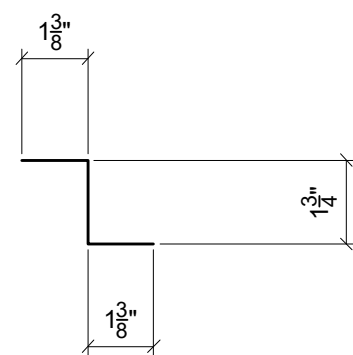
2 OF 3





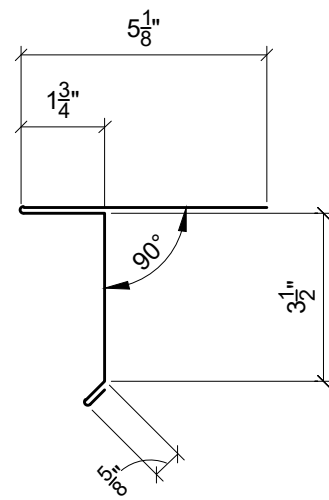
NOTES:

1. PANELS TO BE NOTCHED & HEMMED IN THE FIELD.
2. PLACE HEMMING TOOL OVER PANEL TAB.
3. BEND DOWN AND UNDER TO 180° AS SHOWN.



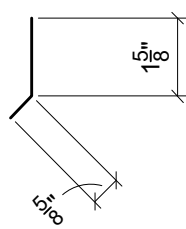
ZEE CLOSURE

40 LN. FT. REQUIRED



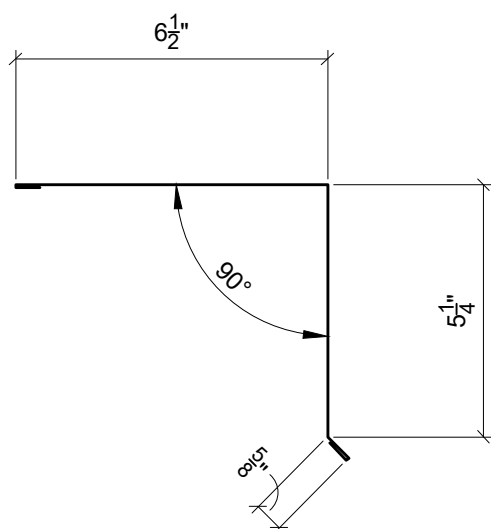
EAVE DRIP TRIM

16 LN. FT. REQUIRED



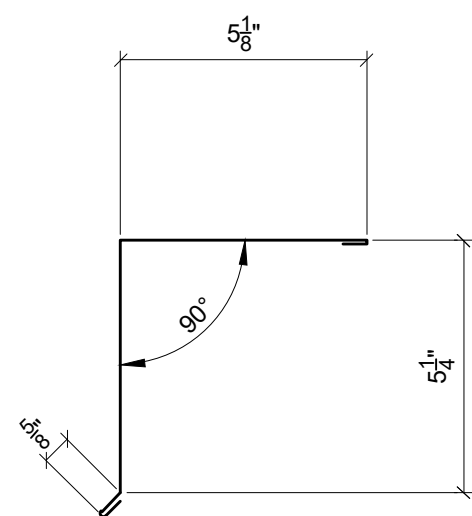
PERIMETER CLEAT

56 LN. FT. REQUIRED



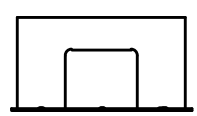
HI-SIDE TRIM

16 LN. FT. REQUIRED



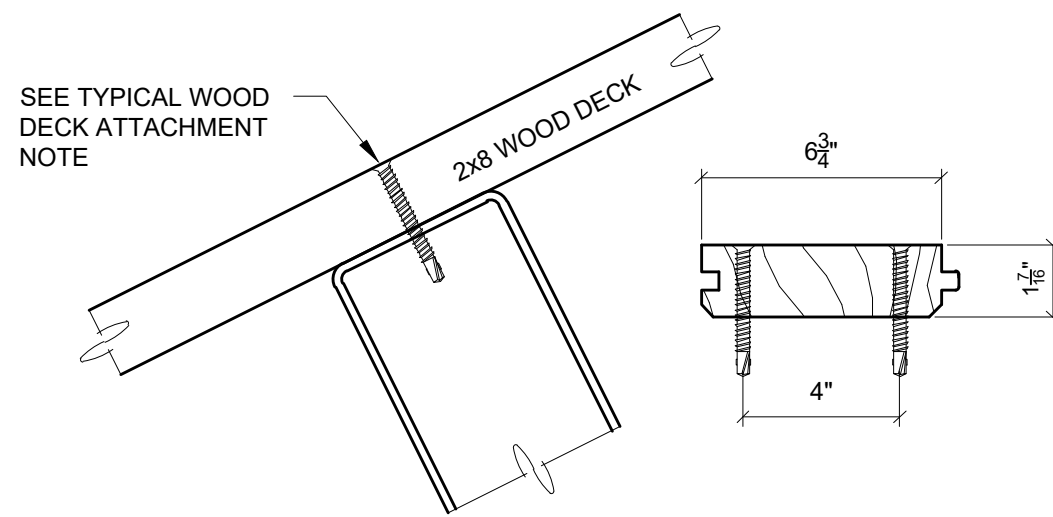
RAKE TRIM

24 LN. FT. REQUIRED



UL90 CLIP

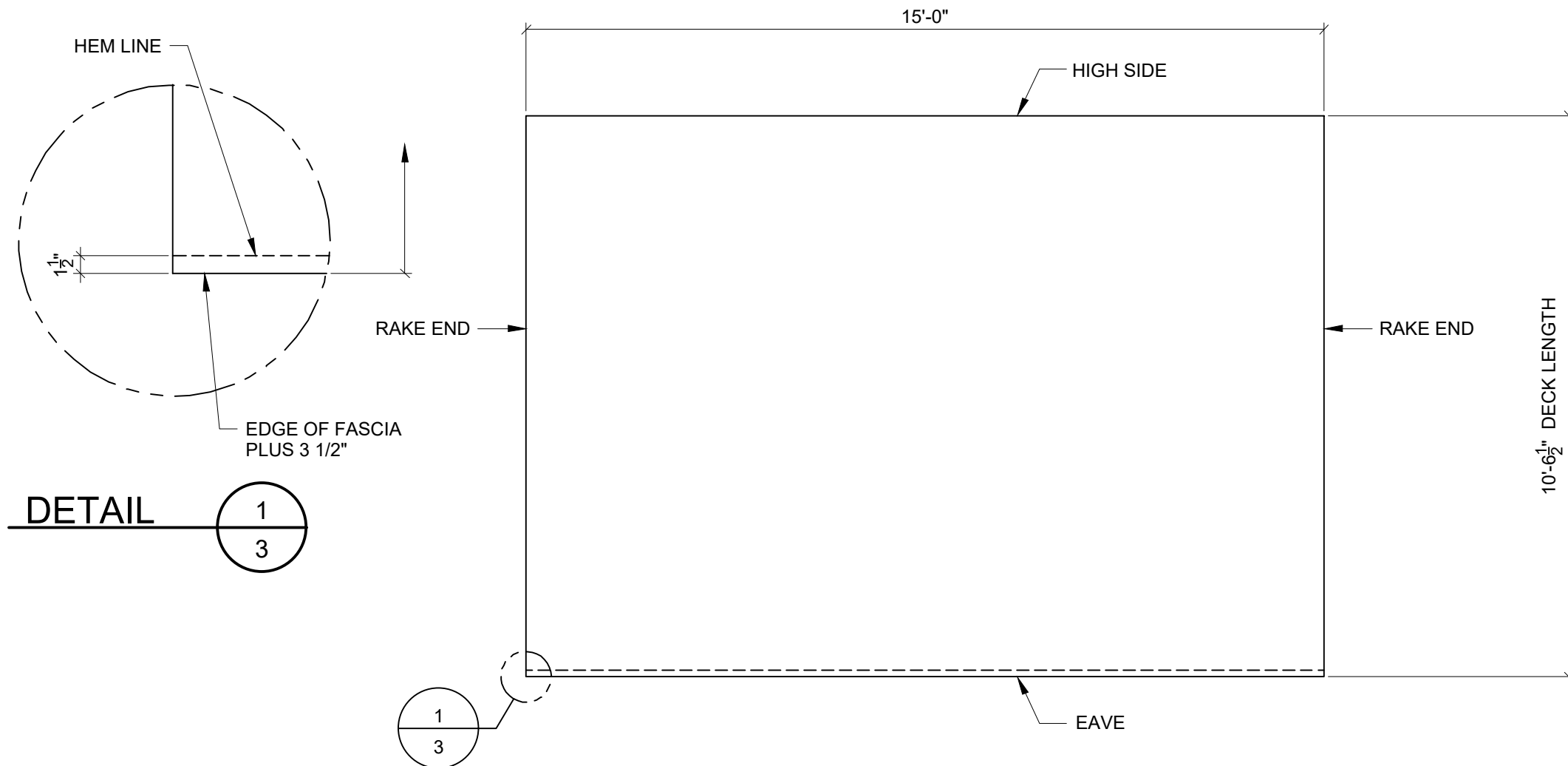
44 REQUIRED



DECK ATTACHMENT @ BEAM

TYPICAL WOOD DECK ATTACHMENT NOTE

ATTACH EACH PIECE OF DECK TO EACH SUPPORT WITH (2) - 1/4\"-20 x 2 3/4\" SELF-DRILLING SCREWS. DRILL PILOT HOLES AS REQ'D.
ALTERNATE FASTENERS ALLOWED:
1. HILTI X-U 52 (2\" LONG) FASTENERS.
2. RAMSET 1514 (2\" LONG) FASTENERS.
FASTENERS MUST BE INSTALLED WITH A MANUFACTURER APPROVED FASTENING TOOL. FASTENERS MUST PENETRATE TOP WALL OF TUBES.



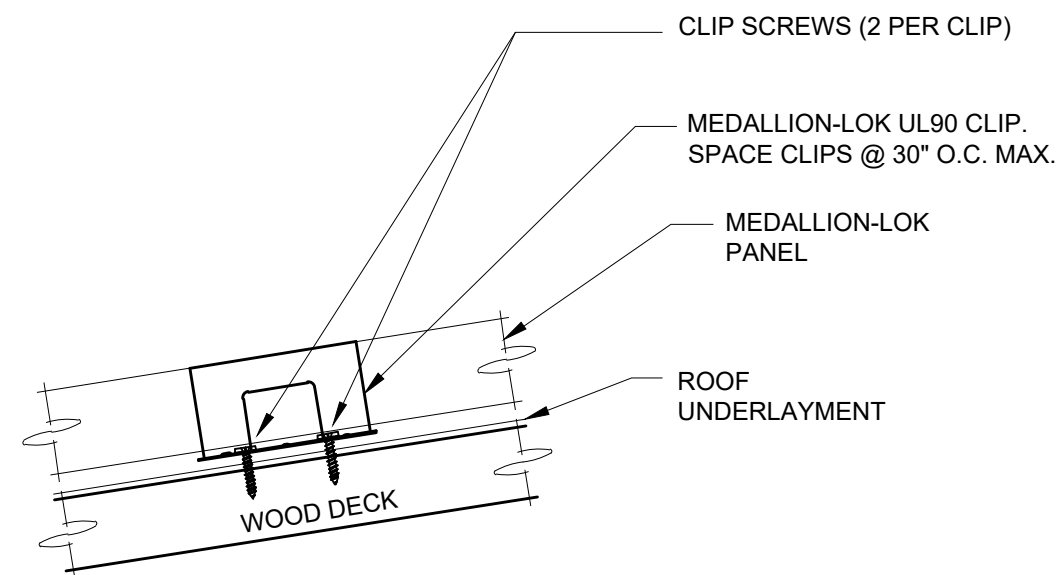
TRUE METAL ROOF DECK PLAN

1-REQ.'D

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

SELF-DRILLING SCREW SPECIFICATIONS:

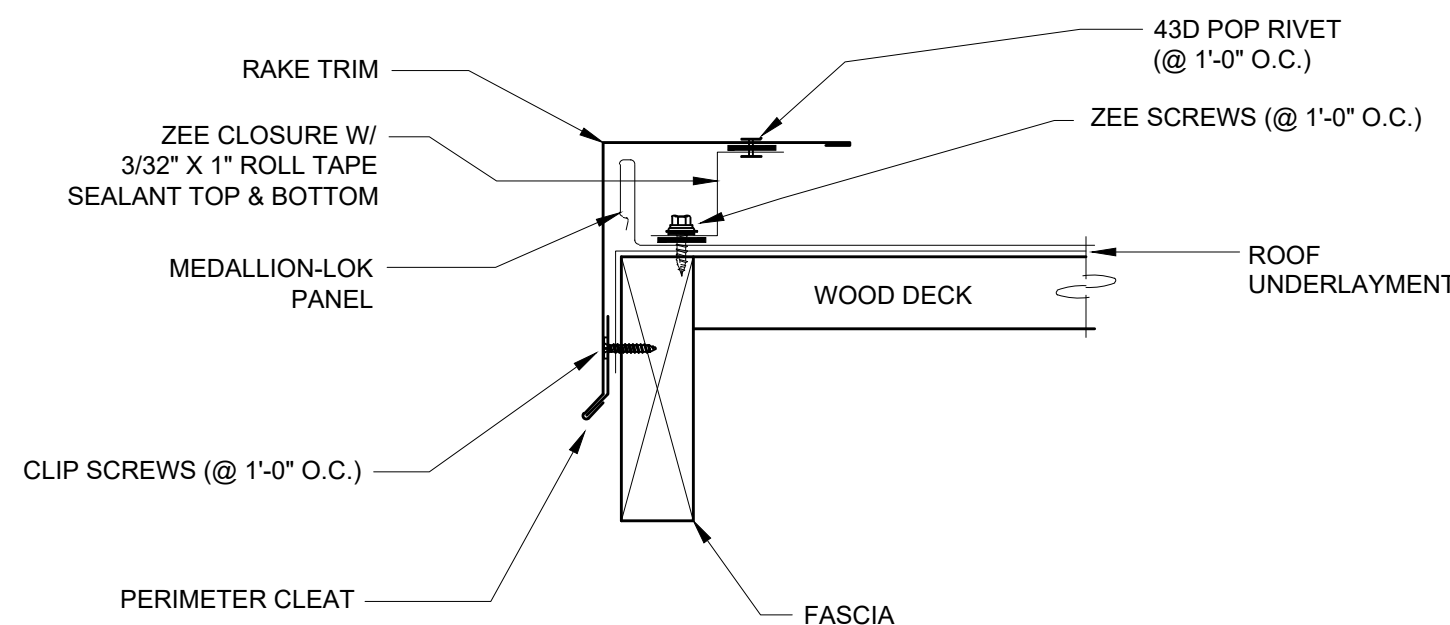
CLIP SCREW = #10-12 X 1\" TYPE A PANCAKE HEAD
ZEE SCREW = #9-15 x 1\" WOODGRIP HWH SHARP POINT



CLIP TO DECK

IF SPLICES ARE REQUIRED @ ZEE CLOSURE:

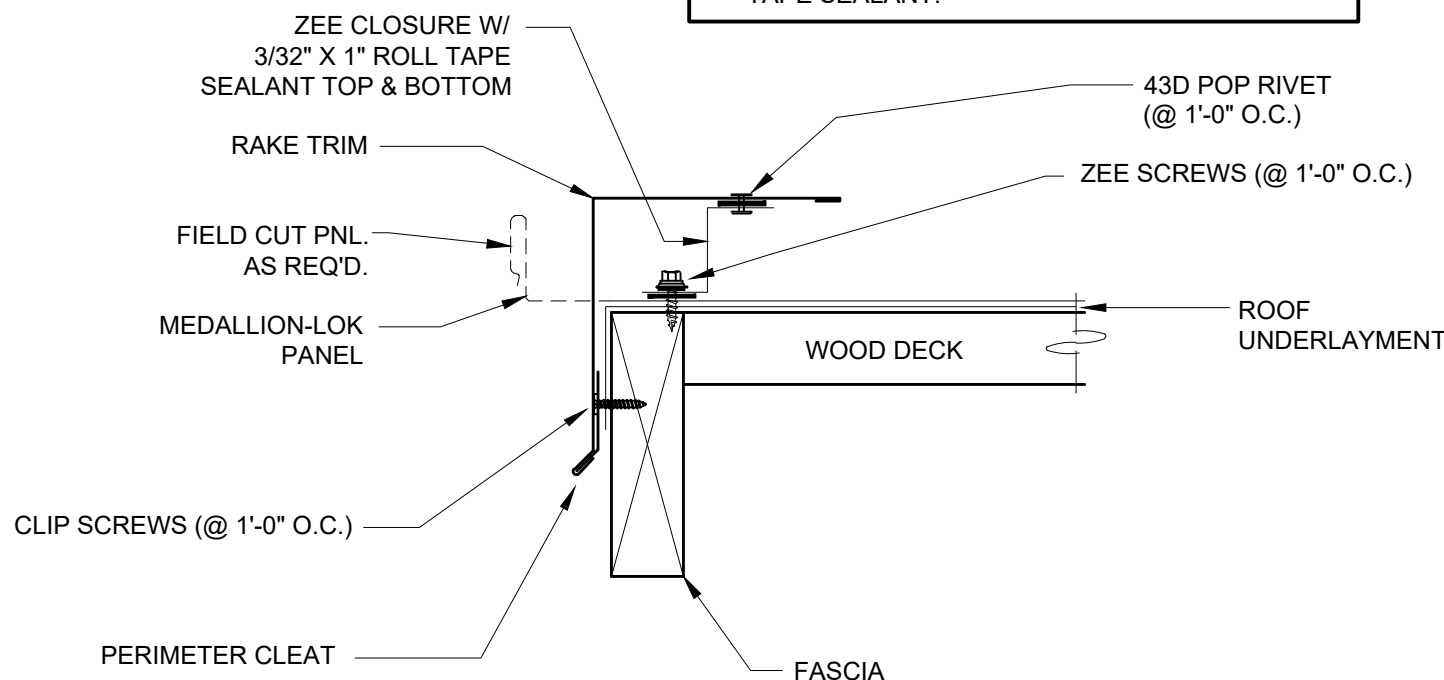
1. START LAYING ZEE'S @ RIDGE AND WORK TOWARD EAVE.
2. SPLICE 3\" AND TAPE ENTIRE SPLICE W/ ROLL TAPE SEALANT.



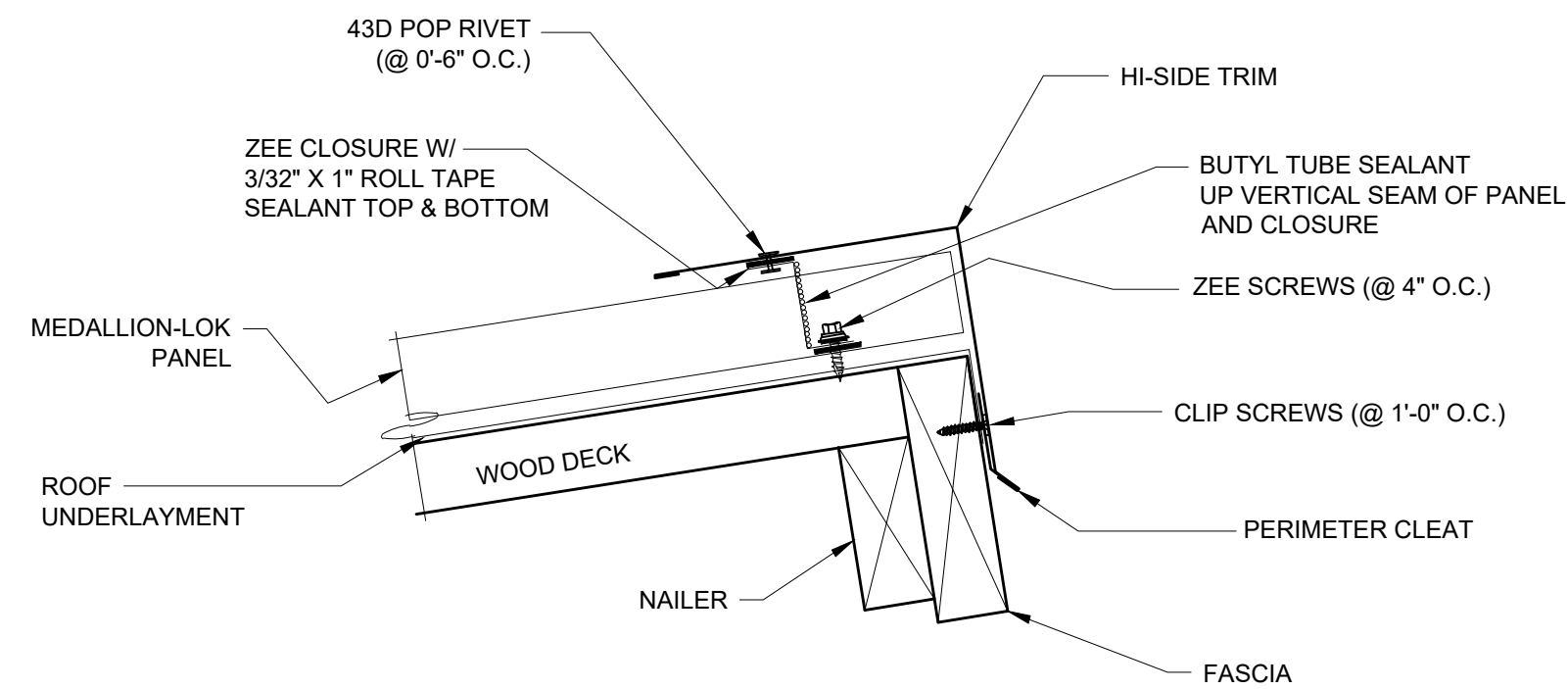
RAKE DETAIL

IF SPLICES ARE REQUIRED @ ZEE CLOSURE:

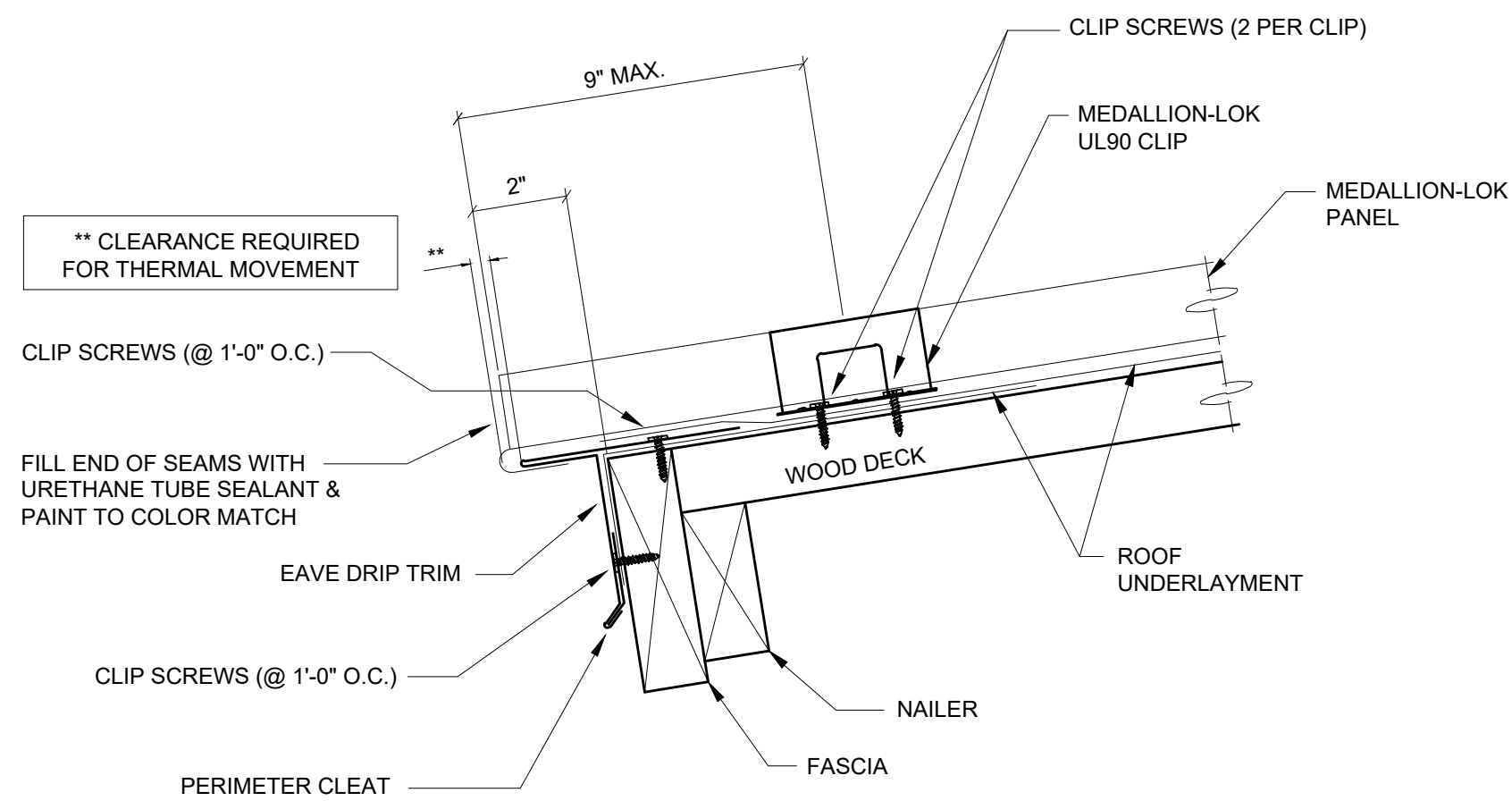
1. START LAYING ZEE'S @ RIDGE AND WORK TOWARD EAVE.
2. SPLICE 3\" AND TAPE ENTIRE SPLICE W/ ROLL TAPE SEALANT.



RAKE DETAIL (OFF MODULE)



HIGH SIDE EAVE DETAIL



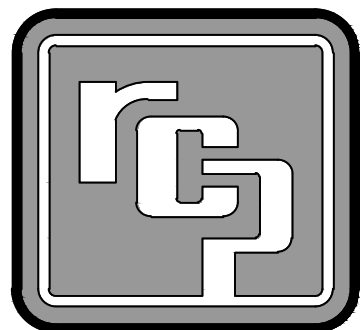
EAVE DETAIL

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13757 R

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3 OF 3

