

PROJ. NO.: **18-105**

DRAWN: RAR 5-9-18
 CHKD:

REV 1: DPS 5-10-18
 REV 2:
 REV 3:
 REV 4:
 SHOP DWG NO.: SH 10177
 EEC JOB NO.: 12603
 SHEET NO.:

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 SYP, S4S, KD, Seal & Stain; color = _____
 2 x 6 Fascia ----- #1 SYP, S4S, KD, PENTA TYPE C 0.3 pcf, Seal & Stain; color = _____
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, Seal & Stain; color = _____
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:
 1 LAYER OF HYDRASHELL MAX WITH 4" HEAD LAP.
 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 B, Fy=46ksi.
 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 holes in steel to be 1/16"Ø unless noted otherwise.
 7. All fabricated steel to be powder coated; color selected by owner.
 8. 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. Remove all organic material and topsoil from slab area. Verify suitability of subgrade. Footings are to bear on undisturbed, natural soil or engineered fill. Both are to be compacted to 95% Proctor density.
 2. Prepare slab with min. 8" compacted sand, gravel, or crushed rock.
 3. Concrete slab to be 4" thick. Reinforce slab with 6x6-w1.4xw1.4 welded wire fabric at mid-depth. Lap splices 8". Alt.: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).
 4. Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".
 5. In locations subject to frost, install isolation joint, max. 1/8" wide, around column piers using diamond or circular layout. Wire mesh shall be interrupted at isolation joints.
 6. Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.
 7. Concrete slabs in open areas are to be sloped for drainage from center to edge and away from columns. Surface is to be lightly broomed or have a wood troweled finish.
 8. Concrete slabs in enclosed areas are to have positive drainage to floor drains and have a troweled finish.
 9. Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.
 10. All concrete reinforcing steel to be grade 60, deformed bars.
 11. F_c of concrete to be 3000 psi @ 28 days for foundation. F_c of concrete to be 3500 psi @ 28 days for slab, air-entrained.
 12. All concrete work to be in accordance w/ latest ACI code.
 13. Assumed allowable soil bearing pressures: 2000 psf vertical bearing, 150 pcf passive lateral bearing. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).
 14. 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.
 15. 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.

ERECTION NOTES:
 All 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.

Bolts through slotted holes in steel are to be left finger tight only to allow for future movement. Other bolts are 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:
 2015 IBC w/ 2017 NYS Code Supplement
 Type of Construction: Type III-B
 Occupancy Classification: Assembly A-3
 Building Risk Category II
 Mean Roof Height = 9'-0"
 Building Volume = 2,020 ft³
 No. of Occupants = 32 (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_s = 30 psf (Ground Snow)
 P_f = 0.7 P_s C_s C_e I_s
 C_s = 1.0, C_e = 1.2, I_s = 1.0

P_r = 25 psf

P_s = P_r C_s

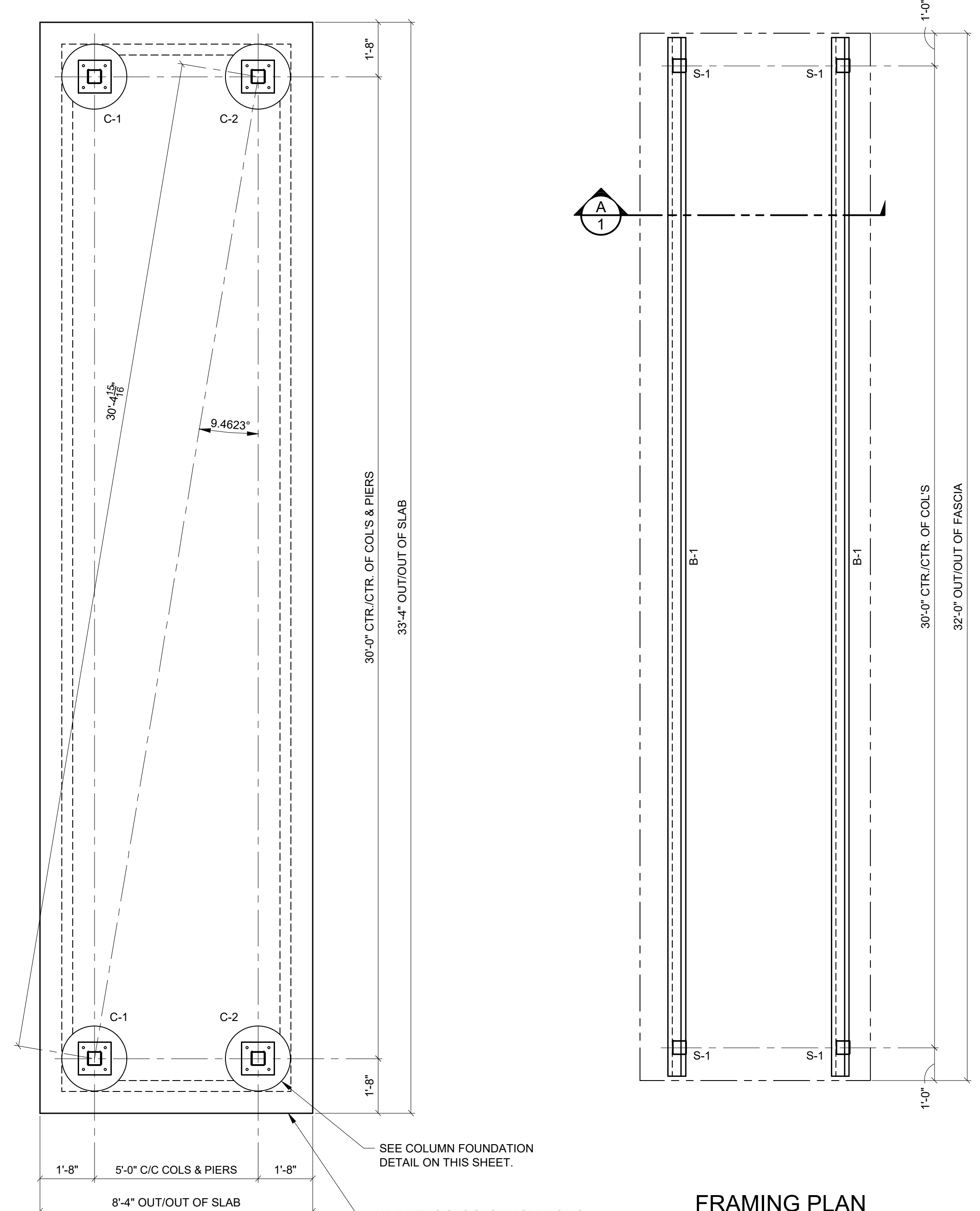
3:12 pitch: C_s = 1.0, P_s = 25 psf

WIND LOAD

V_{ult} = 115 mph, V_{adj} = 89 mph
 Exposure 'C', Open Building w/ GC_w = 0
 Component & Cladding Ultimate Wind Pressures: Pressure = 74 psf & Suction = 80 psf

SEISMIC

I_e = 1.0
 S_s = 0.243, S₁ = 0.070
 Site Class D (assumed)
 S_{DS} = 0.259, S_{D1} = 0.112
 Seismic Design Category B
 Equivalent Lateral Force Procedure
 Cantilevered Column Systems - Steel ordinary cantilever column system
 R = 1.25, C_s = 0.207
 V = 700#

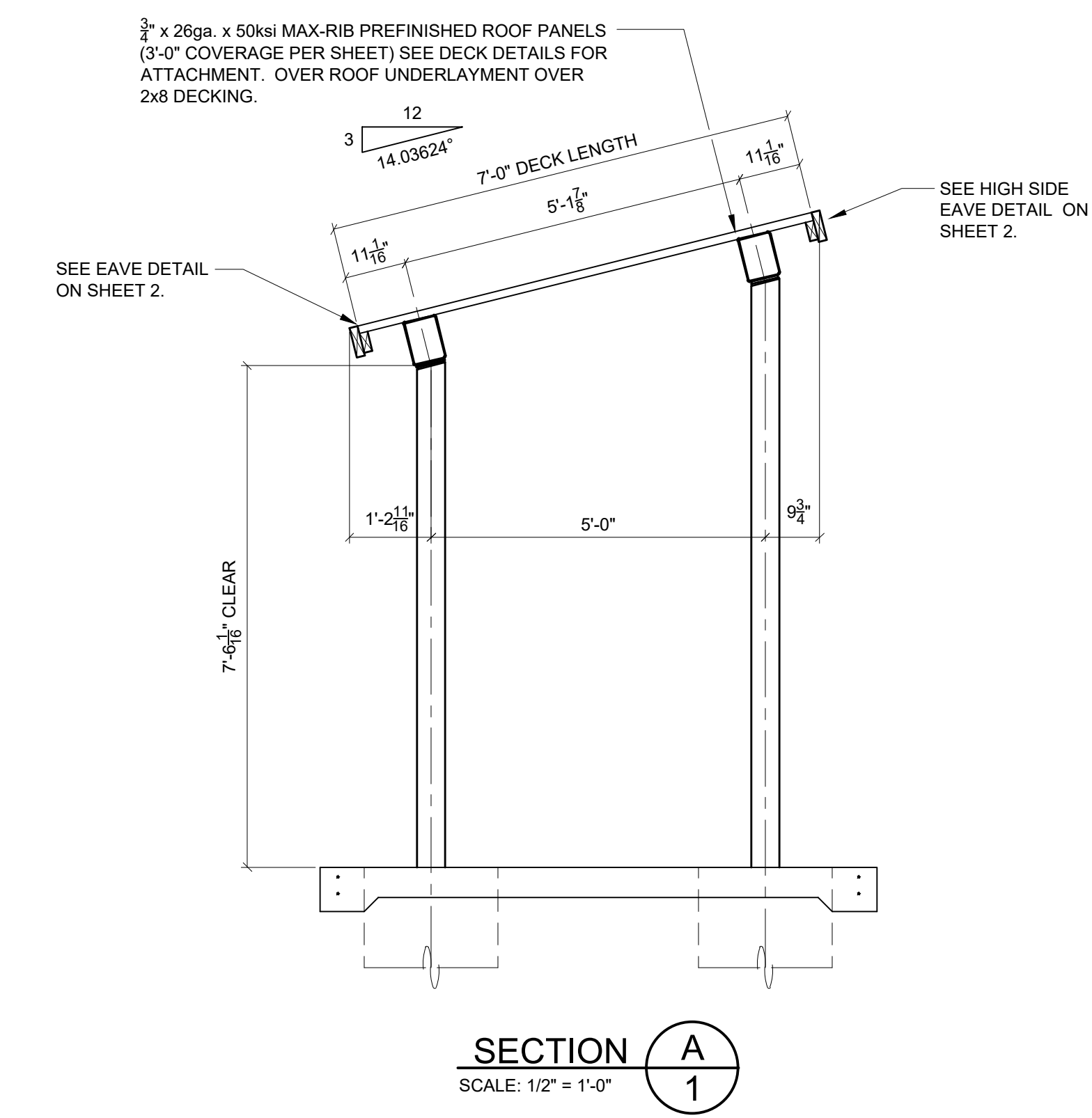


FOUNDATION PLAN
 SCALE: 3/8" = 1'-0"
FRAMING PLAN
 SCALE: 3/8" = 1'-0"

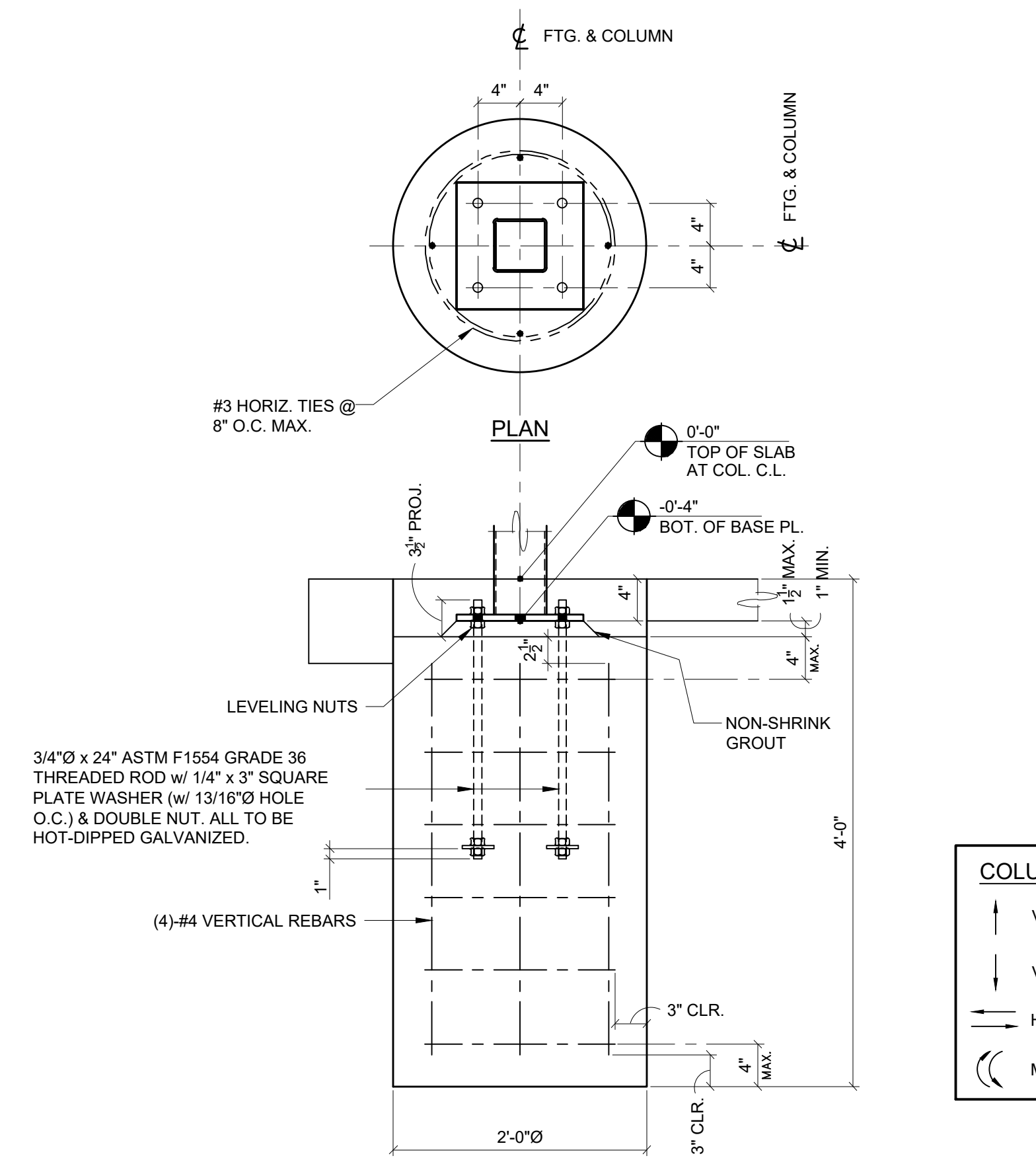
UNLOADING, HANDLING & STORAGE OF DECKING
 DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY ONE TON. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS. IF STORED TEMPORARILY, DECK SHOULD 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.

COLUMN BASE REACTIONS:

- ↑ V_{DL+34(SL+0.6*WL)} = 2,700#
- ↓ V_{0.6*DL+0.6*WL UPLIFT} = -650#
- H_{DL+0.6*WL} = 600#
- ⤵ M_{0.T.DL+0.6*WL} = 4,400#-ft



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



COLUMN FOUNDATION DETAIL

IT IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE STATE EDUCATIONAL LAW FOR ANY PERSON TO ALTER ANY ITEM IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

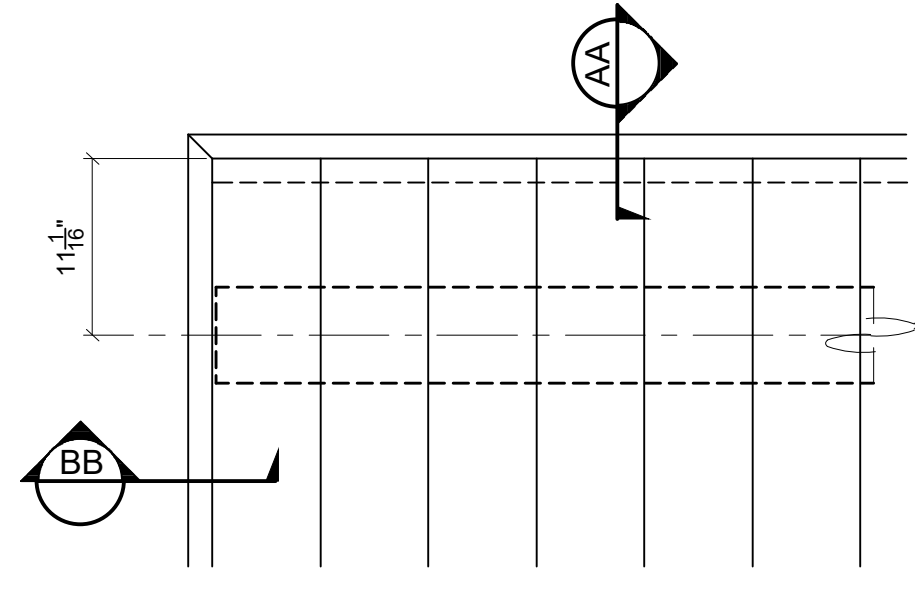


5/10/18

DESIGN CERTIFICATION FOR:
 BUILDING SIZE: 7' x 32'
 BUILDING LOCATION: MOHEGAN LAKE, NY
 THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS, INC. AND ONLY IF MATERIALS ARE PAID FOR IN FULL.
 IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, INC. OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL & VOID.

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 THIS SHEET.
4. SNAP CHALK LINE AT BUILDING EAVE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS.



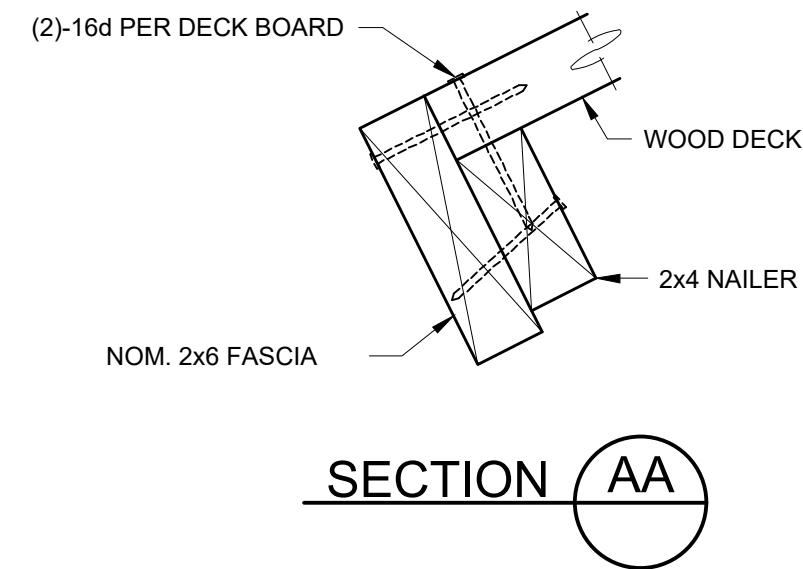
DECK PLAN AT CORNERS

FASCIA NOTES:

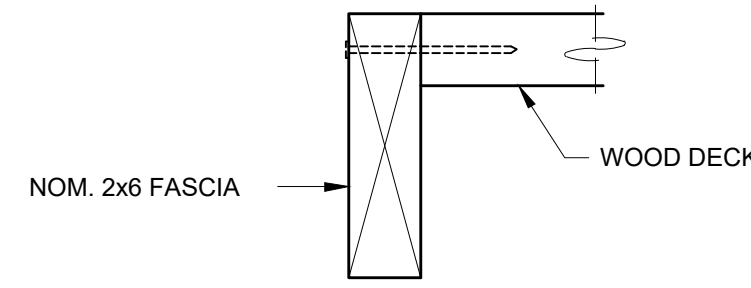
1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAIL A FOR SPLICE DETAIL.
3. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - c. AT CORNERS - 2 NAILS EACH DIRECTION
 - d. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

2 x 4 NAILER

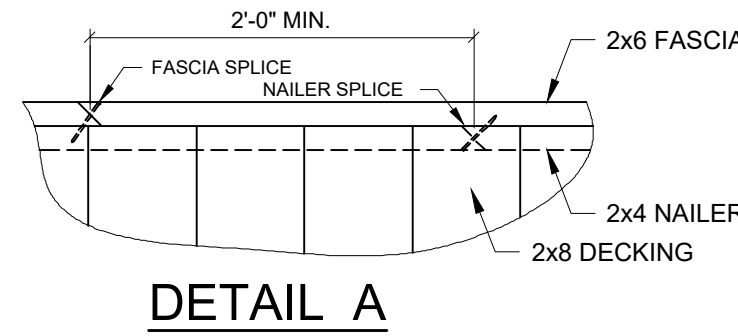
- A. MITER ALL SPLICES
- B. NAIL SPLICES TOGETHER WITH (2) 10d HDG CASING NAILS, DRIVE NAILS AT AN ANGLE TO AVOID PUNCHING THRU FASCIA.



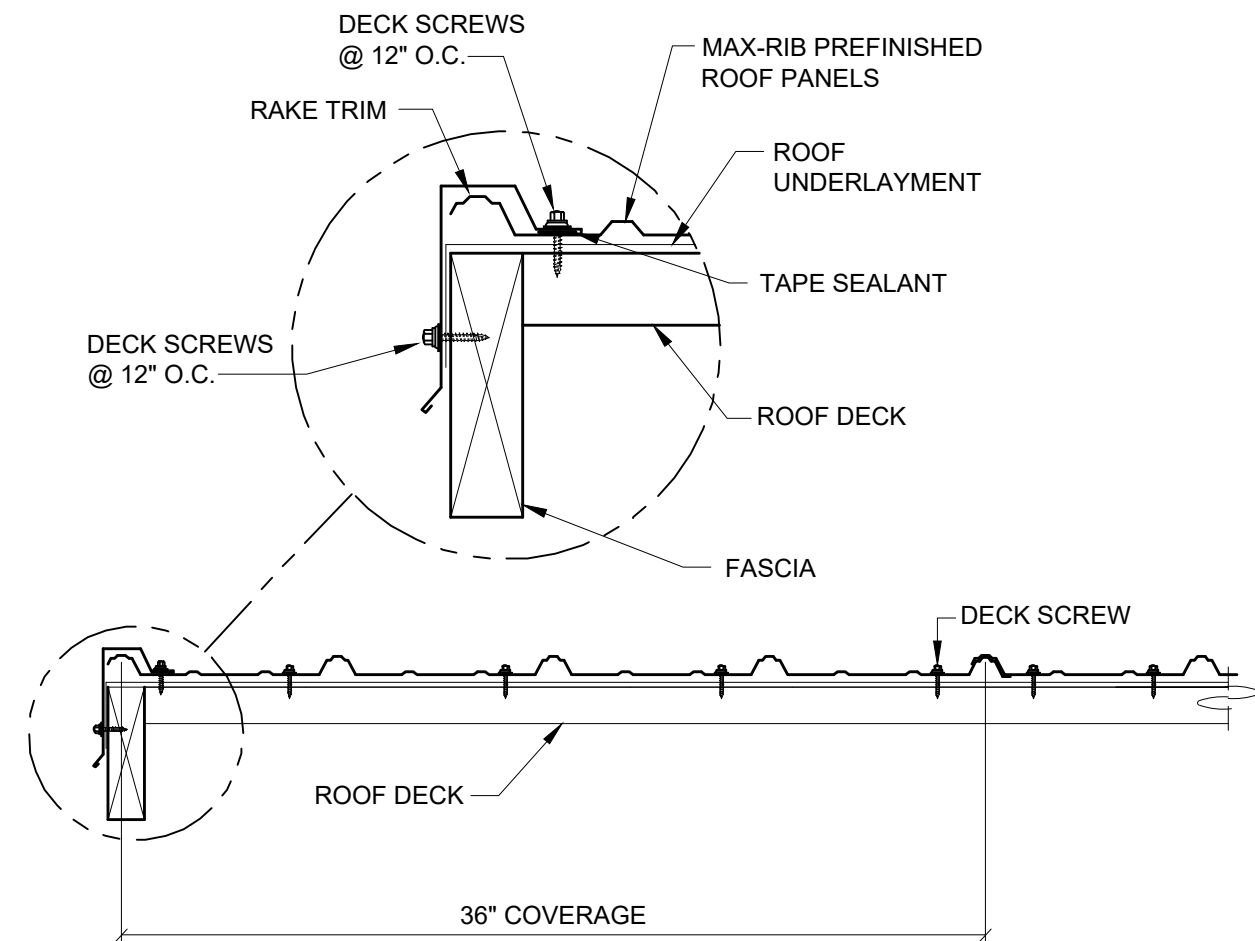
SECTION AA



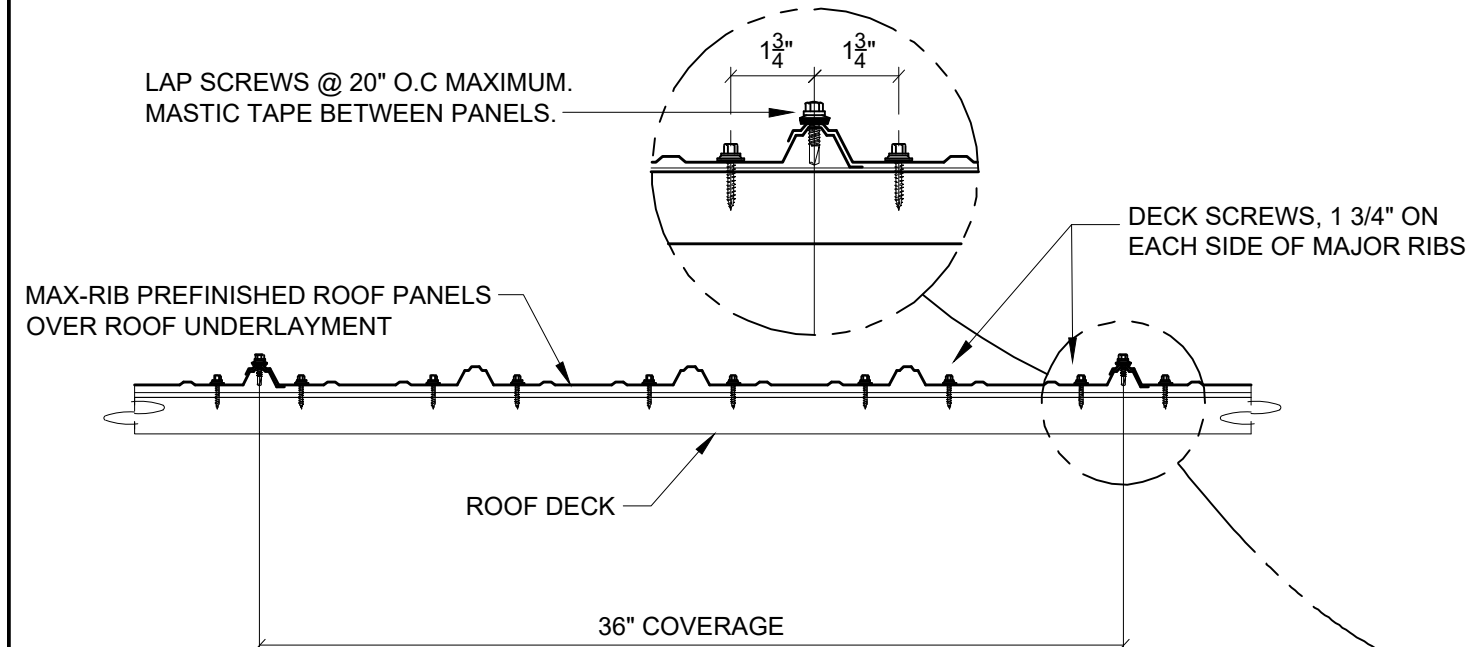
SECTION BB



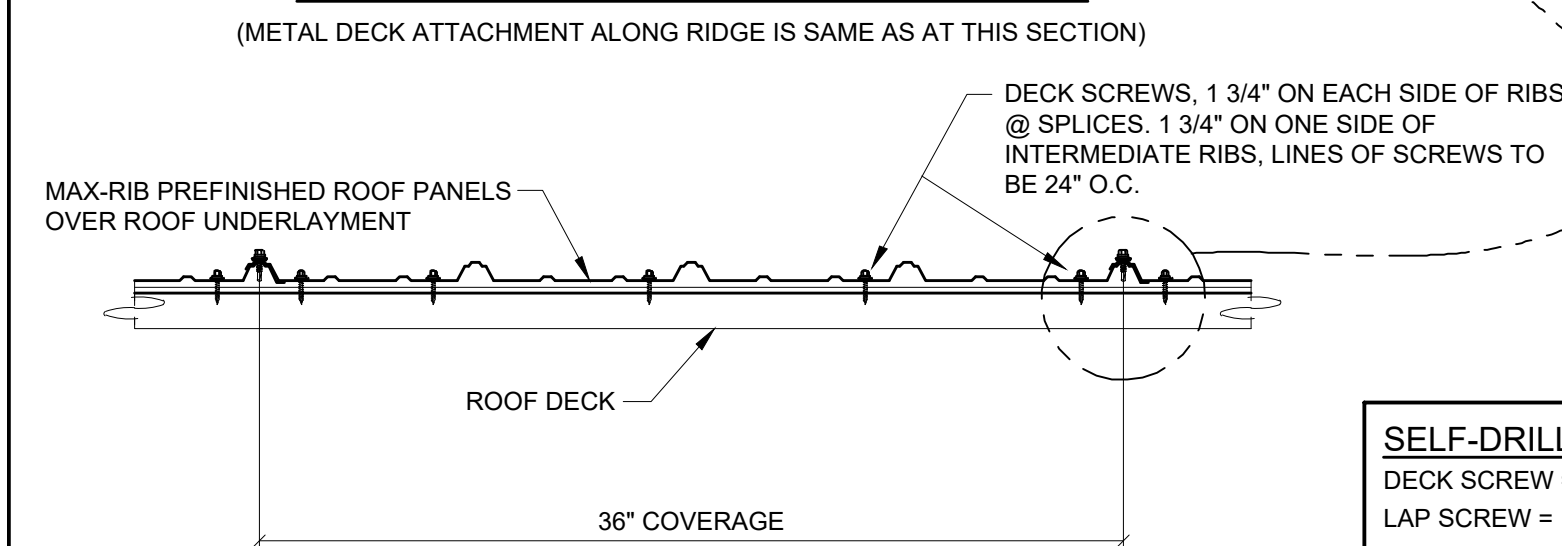
DETAIL A



SECTION THRU ROOFING PANEL @ RAKE



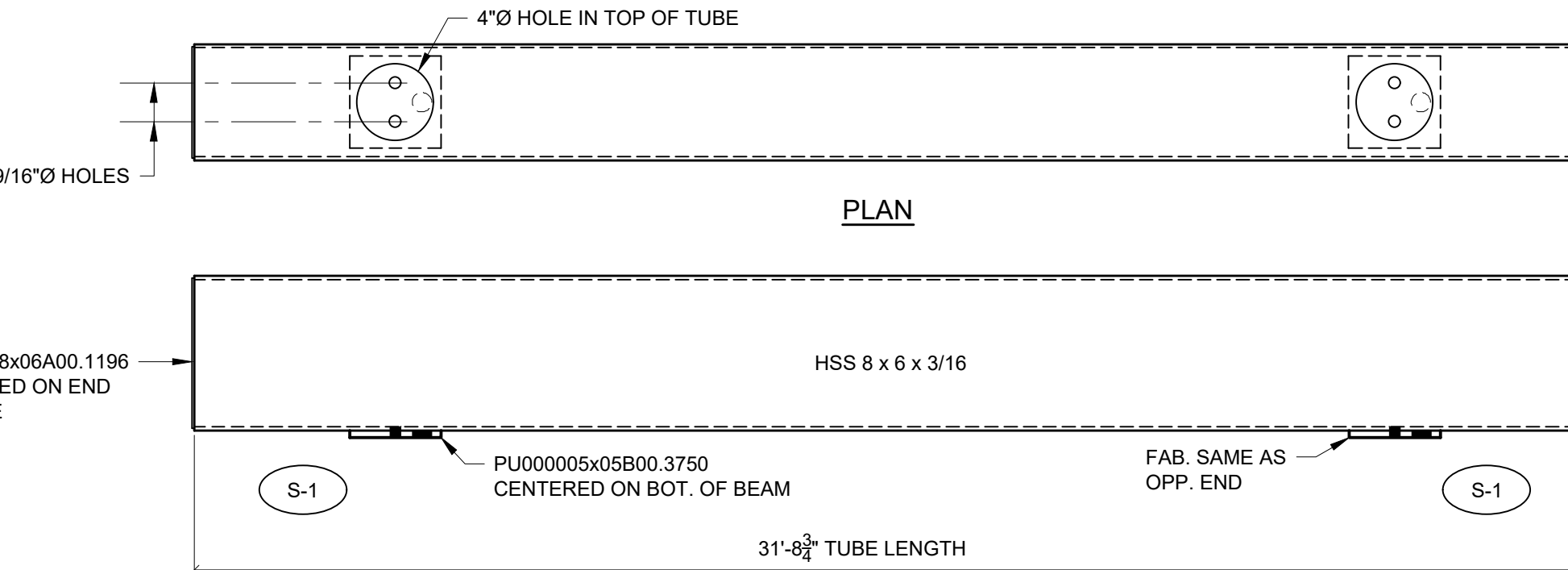
SECTION THRU ROOFING PANEL @ EAVE



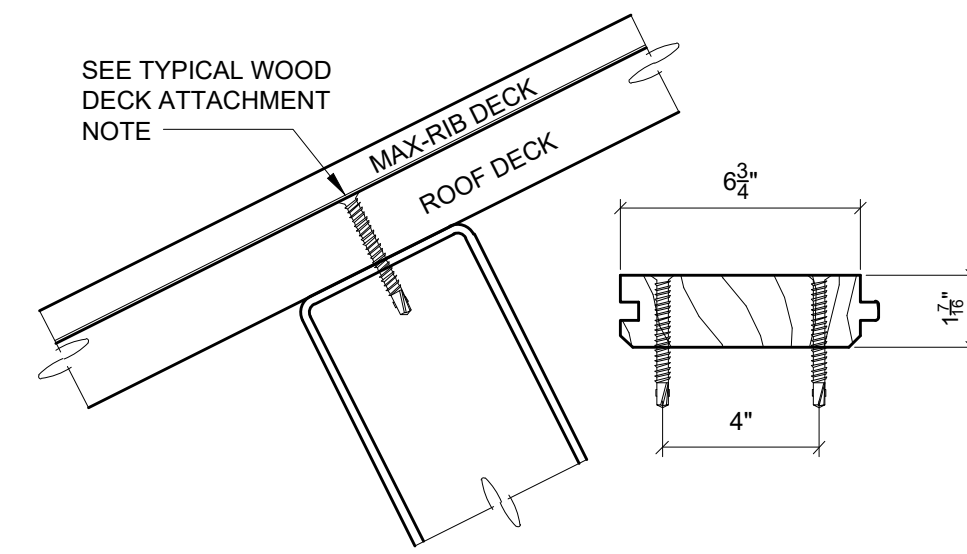
SECTION THRU ROOFING PANEL @ INTERIOR

SELF-DRILLING SCREW SPECIFICATIONS:
 DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT
 LAP SCREW = 1/4-14x7/8 IMP LAP, 5/16" HEX HEAD

THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.

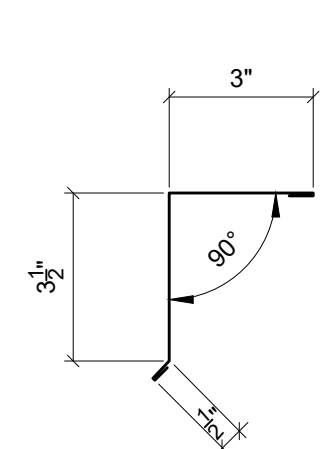


BEAM B-1 2-req'd.



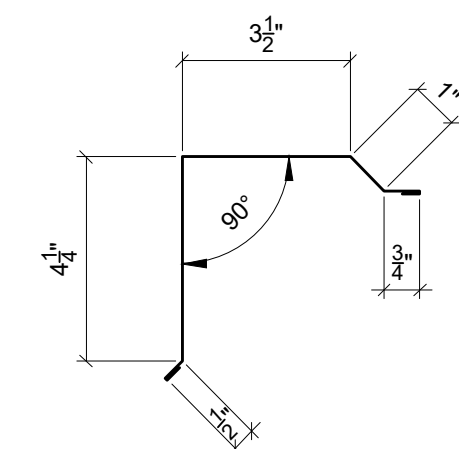
DECK ATTACHMENT @ BEAM

TYPICAL WOOD DECK ATTACHMENT NOTE
 ATTACH EACH PIECE OF DECK TO EACH SUPPORT WITH (2) 1/4"-20 x 2 1/2" 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.



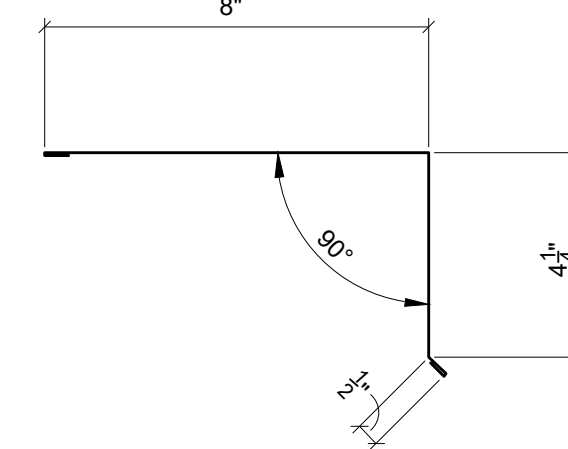
EAVE TRIM

35 LN. FT. REQUIRED



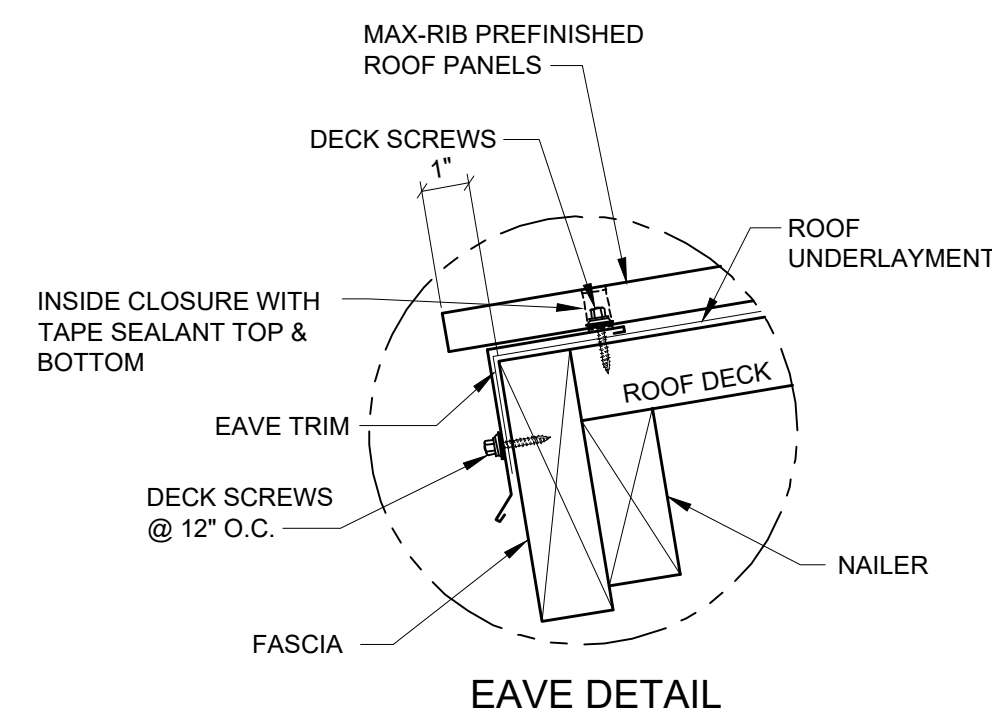
RAKE TRIM

16 LN. FT. REQUIRED

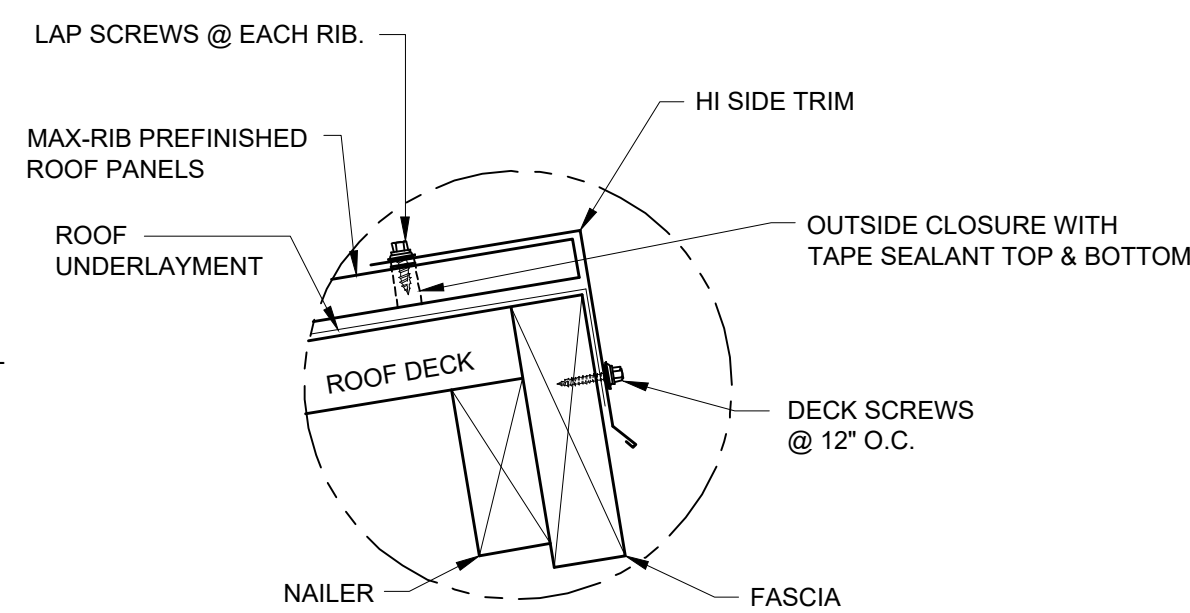


HI-SIDE TRIM

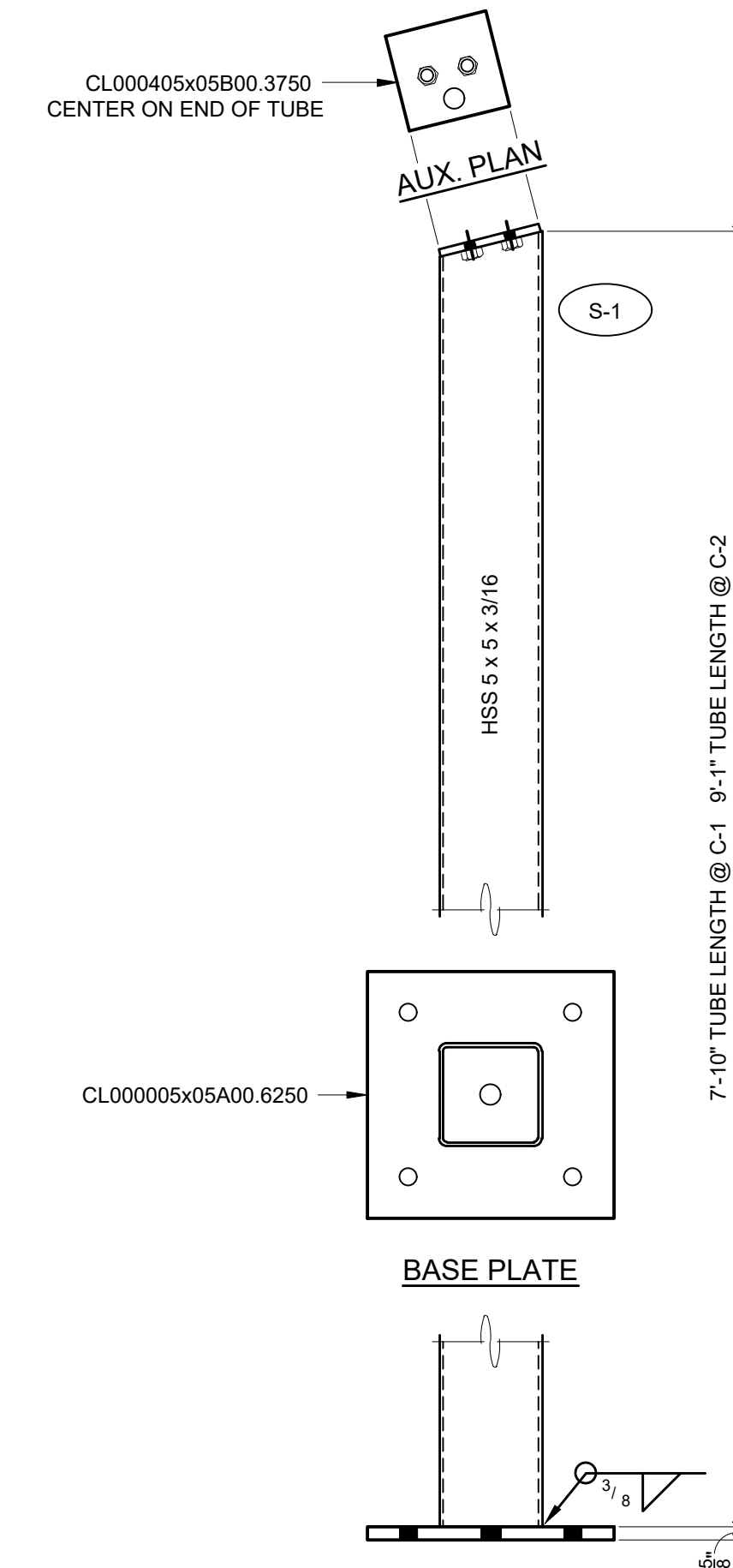
35 LN. FT. REQUIRED



EAVE DETAIL



HIGH SIDE EAVE DETAIL



COLUMN C-1 2-req'd.

COLUMN C-2 2-req'd.

CONN S-1 4-req'd.

2 - 1/2"Ø x 2" BOLT (WITHOUT NUT)

HARDWARE PARTS LIST				
QTY	USE OR ATTACH	HARDWARE DESCRIPTION	PART NO.	REMARKS
8	L	1/2"Ø x 2" BOLT	H325G 050 0200	
8	A	1/2"Ø HEX NUT	HN325G 050-13	
228	L	1/4-20 x 2-3/4 THREAD CUTTING S.	HTCSF 025 0275	#1
-	L	10d HDG CASING NAIL	-	N.I.C., HDG
-	L	16d COMMON NAIL	-	N.I.C.
-	L	16d SINKER NAIL	-	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

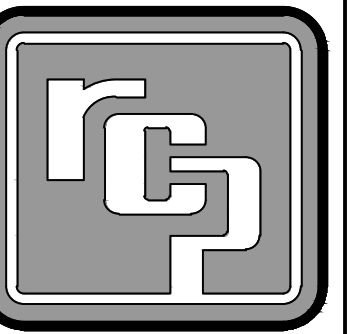
HARDWARE NOTES:
 1. ALTERNATE FASTENERS ALLOWED. SEE TYPICAL WOOD DECK ATTACHMENT NOTE ON SHOP DRAWINGS.

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 GRANITE KNOLLS REC. & SPORTS FACILITY
 MOHEGAN LAKE, NY

RCP SHELTERS, INC.

2100 SE RAYS WAY, STUART, FL 34994
 PO BOX 25, STUART, FL 34995 - 0025
 SHELTERS ■ PAVILIONS ■ CONCESSIONS ■ KIOSKS ■ FABRIC SHADE
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 Phone 800 - 525 - 0207 Fax 772 - 288 - 0207
 www.rcpselters.com E-mail - info@rcpselters.com



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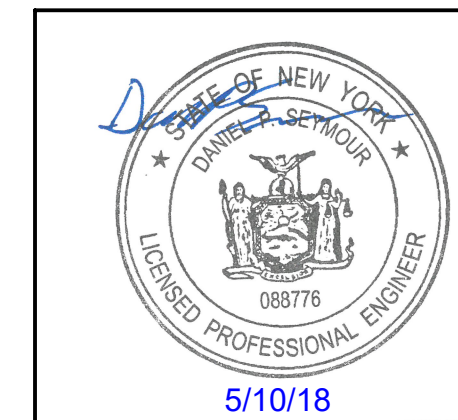
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