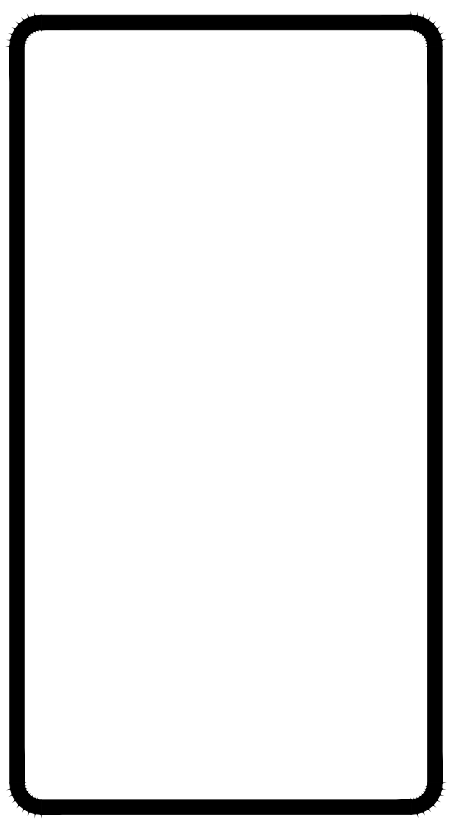


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Partner In Charge	ABW
Project Engineer	ABW
Drawn By	DAI
Date Drawn	11/11/2020
Revisions	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
Issue Date	



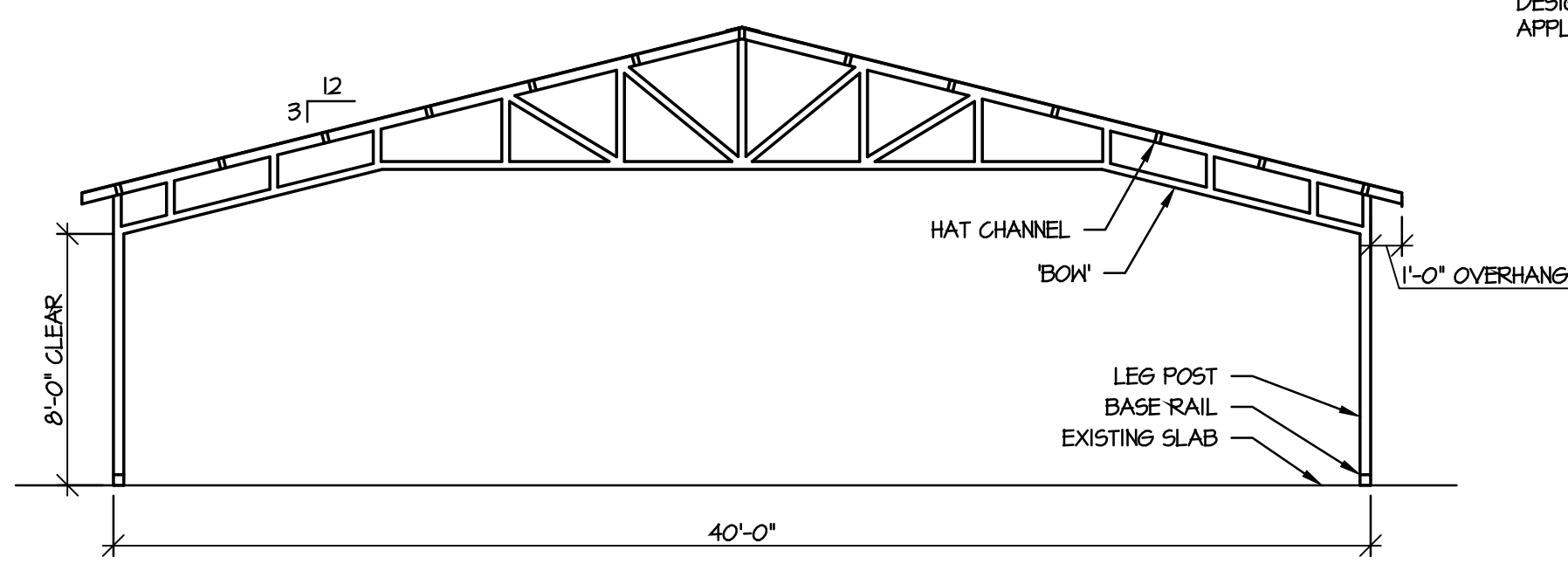
**OPEN STORAGE PAVILION
FOR
COASTAL CAROLINA UNIVERSITY**
485 CENTURY CIRCLE
CONWAY, SC 29526

Weatherly
STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
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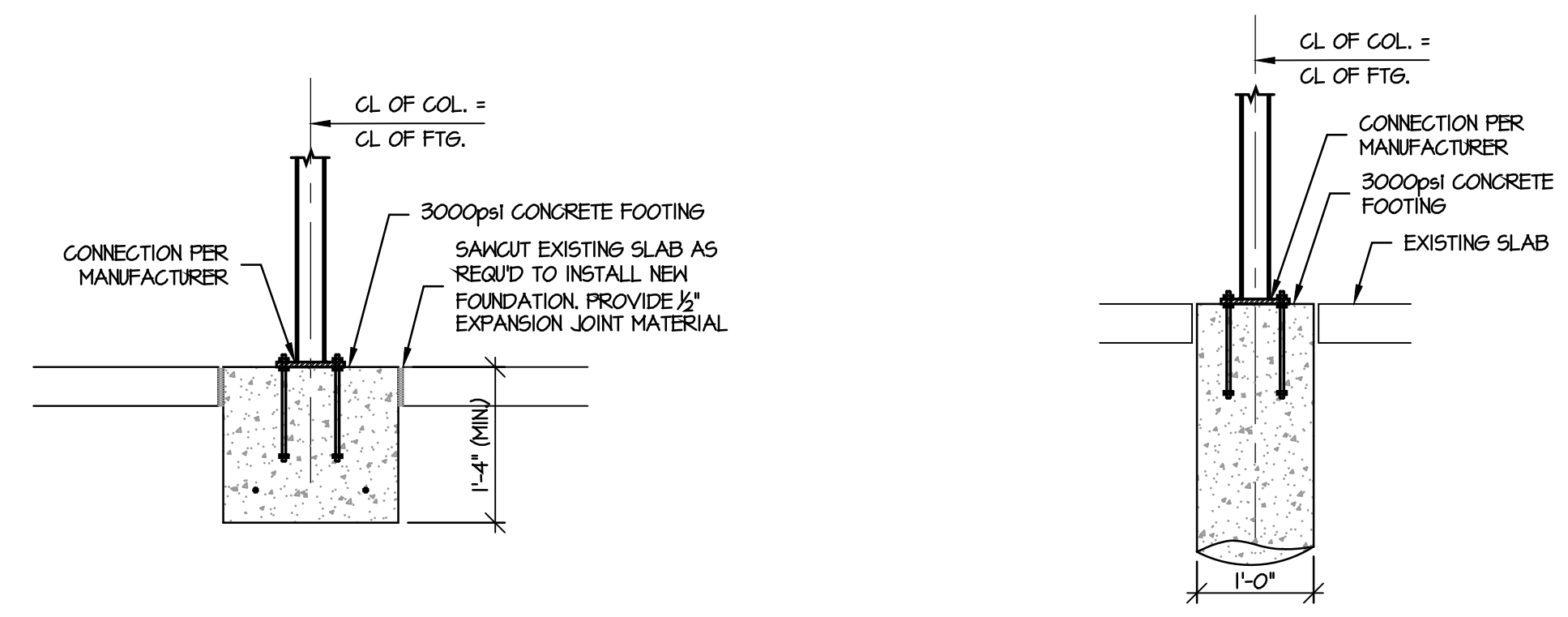
Project Number	WE-20-306
Sheet	S1.0

LOAD TABLE	
2018 INTERNATIONAL BUILDING CODE AND ASCE 7-16	
LIVE LOADS:	
1. FLOOR LOADS: (ASCE Table 4-1)	
A. EQUIPMENT STORAGE =	100 psf
2. ROOF LOADS:	
A. BASIC ROOF LIVE LOAD =	20 psf
Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC)	
DEAD LOADS:	
1. USE ACTUAL DEAD LOADS OF MATERIALS	
SNOW LOADS:	
GROUND SNOW LOAD - $P_g = 10$ psf	
SNOW EXPOSURE FACTOR - $C_e = 1.0$	
THERMAL FACTOR - $C_t = 1.0$	
SNOW LOAD IMPORTANCE FACTOR - $I = 1.0$	
FLAT-ROOF SNOW LOAD - $P_f = 10$ psf	
WIND LOADS:	
RISK CATEGORY = II	
$V_{ult} = 144$ (mph)	
$V_{asd} = 112$ (mph)	
WIND EXPOSURE = C	
WIND IMPORTANCE FACTOR - $I_w = 1.0$	
INTERNAL PRESSURE COEFFICIENT	
OPEN BUILDING +/- 0.00	
SEISMIC LOADS:	
SOIL SITE CLASS - D	
SEISMIC IMPORTANCE FACTOR - $I_e = 1.0$	
SPECTRAL RESPONSE ACCELERATIONS	
$S_s = 0.310$ $S_1 = 0.114$	
SPECTRAL RESPONSE COEFFICIENTS	
$S_{ds} = 0.321$ $S_{d1} = 0.180$	
BASIC SEISMIC-FORCE RESISTING SYSTEM =	
OPEN STRUCTURE	
ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD	
SEISMIC DESIGN CATEGORY = C	

- STRUCTURAL NOTES:**
- THE STRUCTURE SHOWN IS AN EXAMPLE. STRUCTURE PROVIDED SHALL BE 40'-0" x 60'-0" x 8'-0" CLEAR HEIGHT. STRUCTURE TO BE DESIGNED IN ACCORDANCE WITH IBC 2018 AND ASCE 7-16 MINIMUM DESIGN CRITERIA AS LISTED IN ATTACHED LOAD TABLE.
 - BUILDING IS TO BE PLACED ON EXISTING 4" CONCRETE SLAB.
 - FOUNDATION MAY BE ONE OF THE FOLLOWING:
 - CONTINUOUS FOUNDATION, SAWCUT SLAB AND PROVIDE CONTINUOUS FOUNDATION AS SHOWN IN DETAIL OPTION 'A'.
 - PROVIDE FOUNDATION UNDER EACH COLUMN BY CORING SLAB AND INSTALLING CONCRETE PIER AS SHOWN IN DETAIL OPTION 'B'.
 - FOUNDATION DESIGN SHALL BE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 1500 psf.
 - SUBMIT DRAWINGS AND CALCULATIONS PREPARED BY AN ENGINEER REGISTERED IN SOUTH CAROLINA DEMONSTRATING DESIGN IS IN COMPLIANCE WITH IBC 2018, ASCE 7-16 AND APPLICABLE MATERIAL STANDARDS.

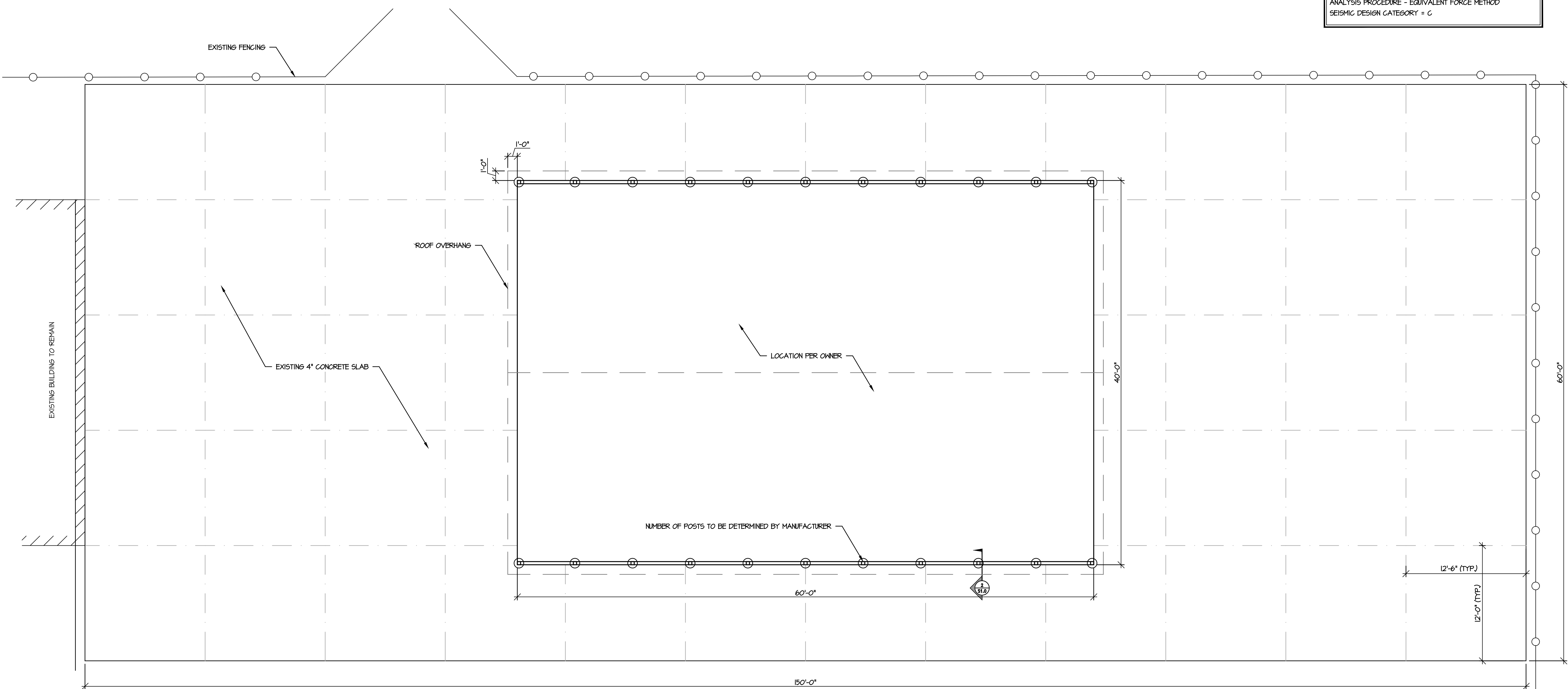


ELEVATION
SCALE: 3/16" = 1'-0"



FOUNDATION OPTION 'A' 1 S1.0
SCALE: 3/4" = 1'-0"

FOUNDATION OPTION 'B' 2 S1.0
SCALE: 3/4" = 1'-0"



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"