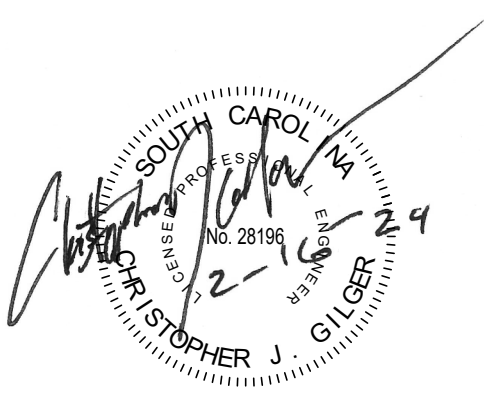
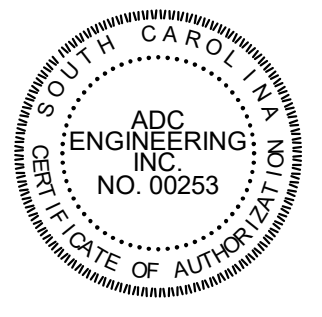


KEYED NOTES (THIS SHEET ONLY)	
501	NEW C12X20.7.
502	EXISTING DOUBLE JOIST.
504	EXISTING 3" DIA. PIPE COLUMN.
505	EXISTING 4" DIA. PIPE COLUMN.
506	EXISTING 5" DIA. PIPE COLUMN.
507	EXISTING W8X24 COLUMN.
509	NEW W12X16 BELOW DECKING.
510	G.C. TO HAVE JOIST EVALUATED TO DETERMINE IF IT IS ADEQUATE TO SUPPORT THE NEW UNITS AND NORMAL ROOF LOADS. SEE JOIST AND JOIST GIRDER RETROFIT NOTES ON S000. SOME JOIST LOADING DIAGRAMS HAVE BEEN PROVIDED. IF ADDITIONAL DIAGRAMS ARE NEEDED FOR ADDITIONAL JOISTS, NOTIFY ADC.
511	G.C. TO PROVIDE JOIST MEMBER SIZES TO JOIST RETROFIT DESIGNER.

**GENERAL NOTE:**  
 WEIGHTS INDICATED HEREIN SHALL BE MAX WEIGHT FOR THE UNIT AND THE CURB. SEE S002 FOR MAX UNIT WEIGHT. IF WEIGHT IS GREATER THAN THAT INDICATED, NOTIFY THE EOR.



Horry County Schools  
 North Myrtle Beach Middle School HVAC  
 11240 SC-90  
 Little River, SC 29566



**ADC ENGINEERING**  
 1226 YEAMANS HALL ROAD  
 HANAHAN, SC 29410  
 843-555-0161  
 ADCENGINEERING.COM

DATE: 02/16/2024  
 ADC PROJECT#: 23379  
 DESIGNED: C.J.G.  
 CHECKED: C.J.G.  
 DRAWN: DCC  
 REVISION:  
 1 03/29/24 ADDITIONAL LOADING DIAGRAM

BASIS OF DESIGN - UNIT SCHEDULE				
TAG	TYPE	AREA	UNIT WEIGHT (LBS)	ESTIMATED WEIGHT: UNIT, CURB, AND MISC FRAMING (LBS)
HP05	PACKAGE ROOFTOP	CAFETERIA	4407	5000
HP06	PACKAGE ROOFTOP	CAFETERIA	1060	1500
HP07	PACKAGE ROOFTOP	CAFETERIA	1060	1500
HP12	PACKAGE ROOFTOP	A WING	3134	3600
HP13	PACKAGE ROOFTOP	AUDITORIUM	3108	3600
HP14	PACKAGE ROOFTOP	AUDITORIUM	825	1200
HP21	PACKAGE ROOFTOP	ART	1512	2000
HP22	PACKAGE ROOFTOP	CORRIDOR	825	1200
HP23	PACKAGE ROOFTOP	BAND	3191	3600
HP24	PACKAGE ROOFTOP	CHORUS	1468	2000
HP88	PACKAGE ROOFTOP	GYM	3200	3600
HP89	PACKAGE ROOFTOP	GYM	3200	3600
MAU	PACKAGE ROOFTOP	ALTERNATE	4023	4600

1 PARTIAL 'A' ROOF FRAMING PLAN  
 1" = 10'-0"

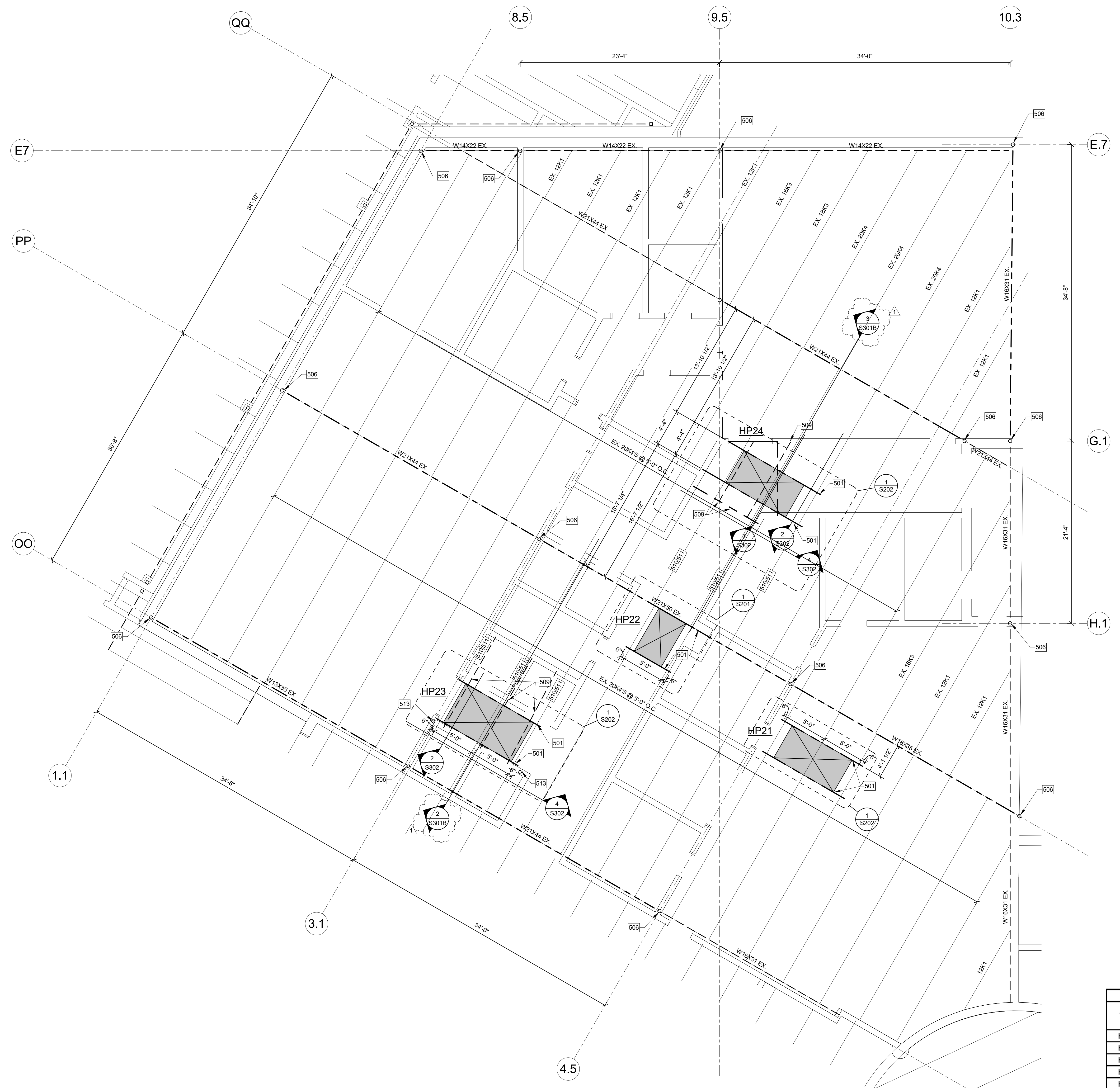
S103

3/29/2024 10:22:14 AM S:\DWG\Projects\2023\23379 - North Myrtle Beach Middle School HVAC\23379-North Myrtle Beach Middle School HVAC-Struct-R23-Local-John.Lvt

KEYED NOTES (THIS SHEET ONLY)	
501	NEW C12X30.7
506	EXISTING 5" DIA. PIPE COLUMN.
509	NEW W12X16 BELOW DECKING.
510	G.C. TO HAVE JOIST EVALUATED TO DETERMINE IF IT IS ADEQUATE TO SUPPORT THE NEW UNITS AND NORMAL ROOF LOADS. SEE JOIST AND JOIST GIRDER RETROFIT NOTES ON S000. SOME JOIST LOADING DIAGRAMS HAVE BEEN PROVIDED. IF ADDITIONAL DIAGRAMS ARE NEEDED FOR ADDITIONAL JOISTS, NOTIFY ADC.
511	G.C. TO PROVIDE JOIST MEMBER SIZES TO JOIST RETROFIT DESIGNER.
513	HSS 4X4.

**GENERAL NOTE:**

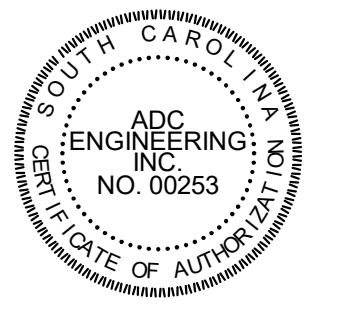
- WEIGHTS INDICATED HEREIN SHALL BE MAX WEIGHT FOR THE UNIT AND THE CURB. SEE S002 FOR MAX UNIT WEIGHT. IF WEIGHT IS GREATER THAN THAT INDICATED, NOTIFY THE EOR.



BASIS OF DESIGN - UNIT SCHEDULE				
TAG	TYPE	AREA	UNIT WEIGHT (LBS)	ESTIMATED WEIGHT: UNIT, CURB, AND MISC FRAMING (LBS)
HP05	PACKAGE ROOFTOP	CAFETERIA	4407	5000
HP06	PACKAGE ROOFTOP	CAFETERIA	1060	1500
HP07	PACKAGE ROOFTOP	CAFETERIA	1060	1500
HP12	PACKAGE ROOFTOP	A WING	3134	3600
HP13	PACKAGE ROOFTOP	AUDITORIUM	3108	3600
HP14	PACKAGE ROOFTOP	AUDITORIUM	825	1200
HP21	PACKAGE ROOFTOP	ART	1512	2000
HP22	PACKAGE ROOFTOP	CORRIDOR	825	1200
HP23	PACKAGE ROOFTOP	BAND	3191	3600
HP24	PACKAGE ROOFTOP	CHORUS	1468	2000
HP88	PACKAGE ROOFTOP	GYM	3200	3600
HP89	PACKAGE ROOFTOP	GYM	3200	3600
MAU	PACKAGE ROOFTOP	ALTERNATE	4023	4600

**1 PARTIAL 'B' ROOF FRAMING PLAN**  
3/16" = 1'-0"

Horry County Schools  
**North Myrtle Beach Middle School HVAC**  
 11240 SC-90  
 Little River, SC 29566



*Signature*  
 J. GILBERT  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 28106  
 STATE OF SOUTH CAROLINA



DATE: 02/16/2024  
 ADC PROJECT #: 23379  
 DESIGNED: C.J.G.  
 CHECKED: C.J.G.  
 DRAWN: DCC  
 REVISION:  
 1 03/29/24 ADDITIONAL LOADING DIAGRAM

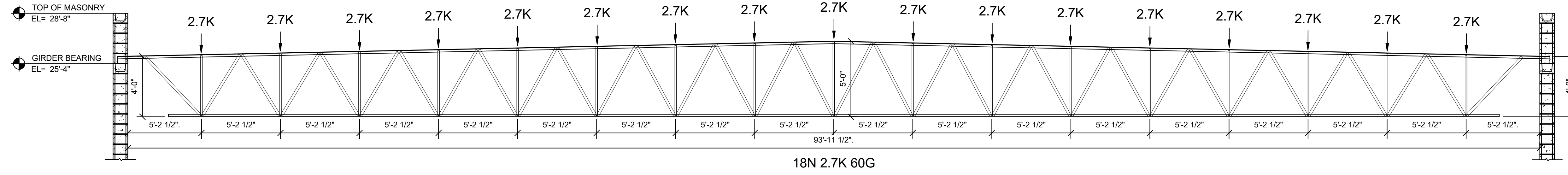
PARTIAL 'B' ROOF FRAMING PLAN

S104

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M = @ 627.2 K-FT  
 V = @ 25.4 K  
 8" JOIST SEATS

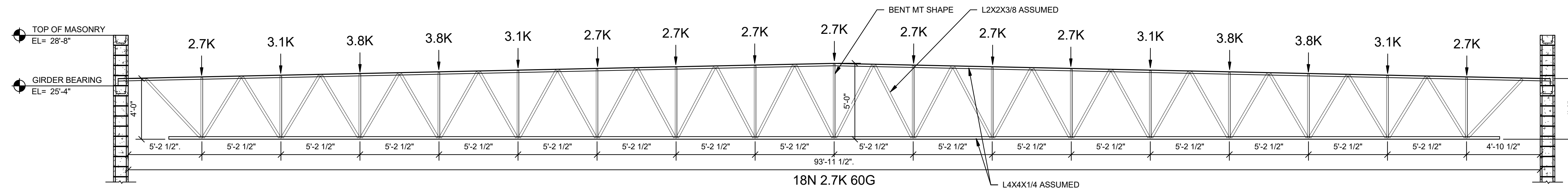
NOTE:  
 SEE 2/S301 FOR NEW LOADING REQUIREMENTS



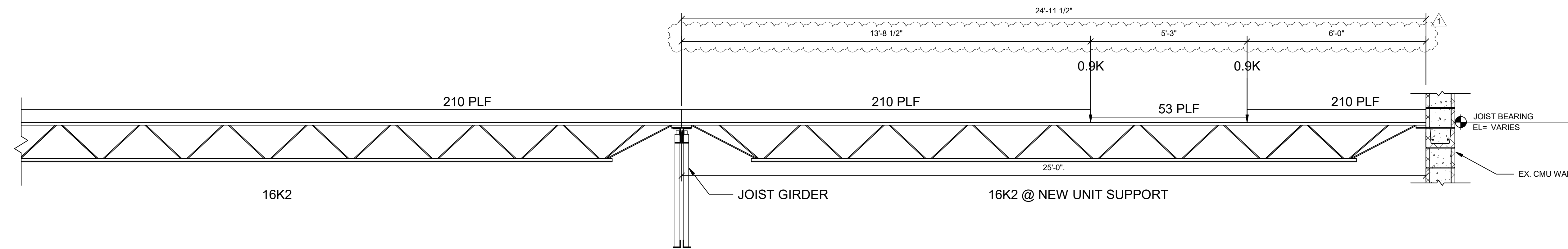
1 EX. JOIST GIRDER ORIGINAL LOADING  
 1/4" = 1'-0"

M = @ 675.0 K-FT - 7.7% INCREASE  
 V = @ 28.0 K - 10.2% INCREASE  
 8" JOIST SEATS

PSF ROOF DL = 8-10 LBS  
 PSF ROOF LL = 12  
 25'-0" TRIBUTARY AREA  
 UPLIFT = 39 PSF

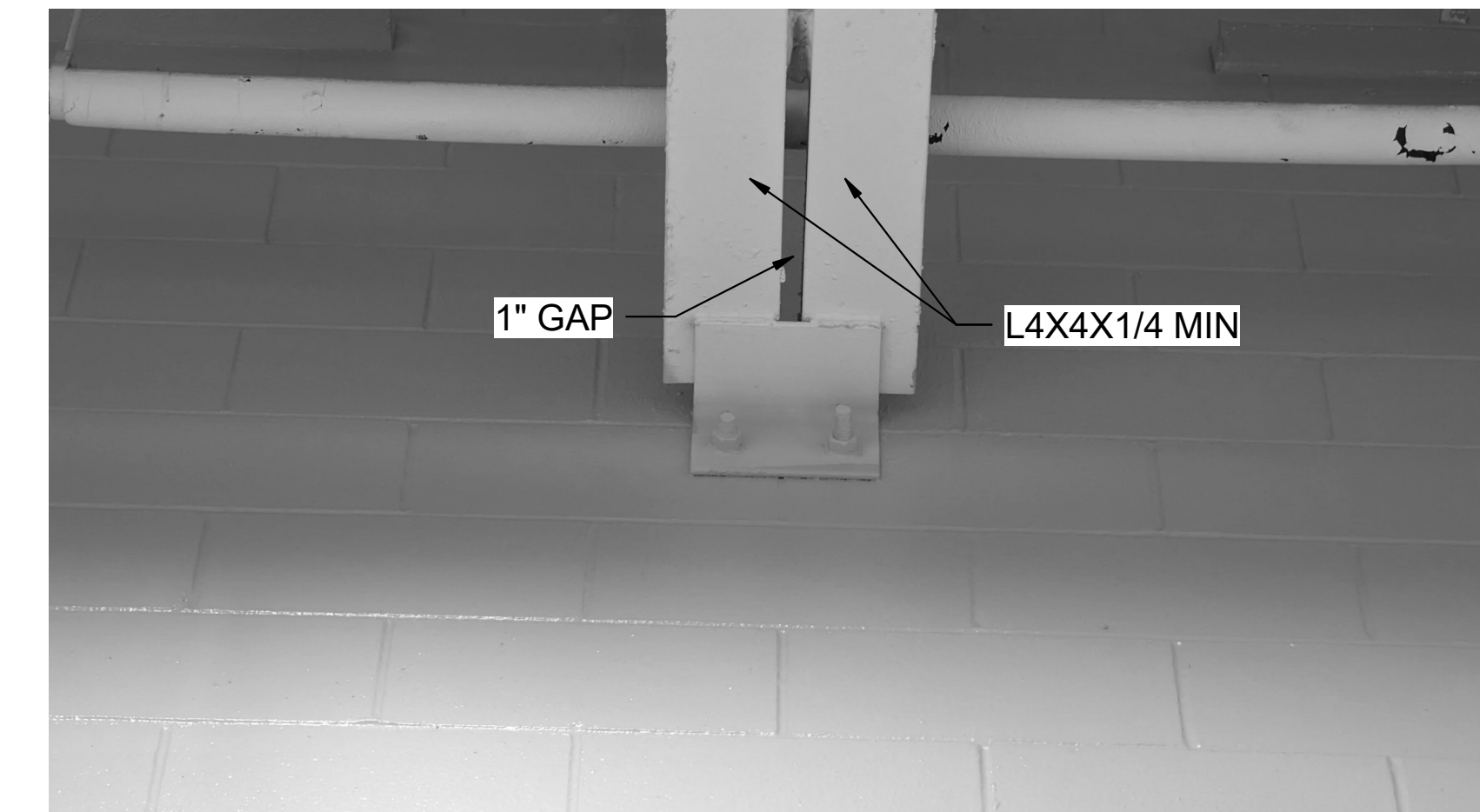
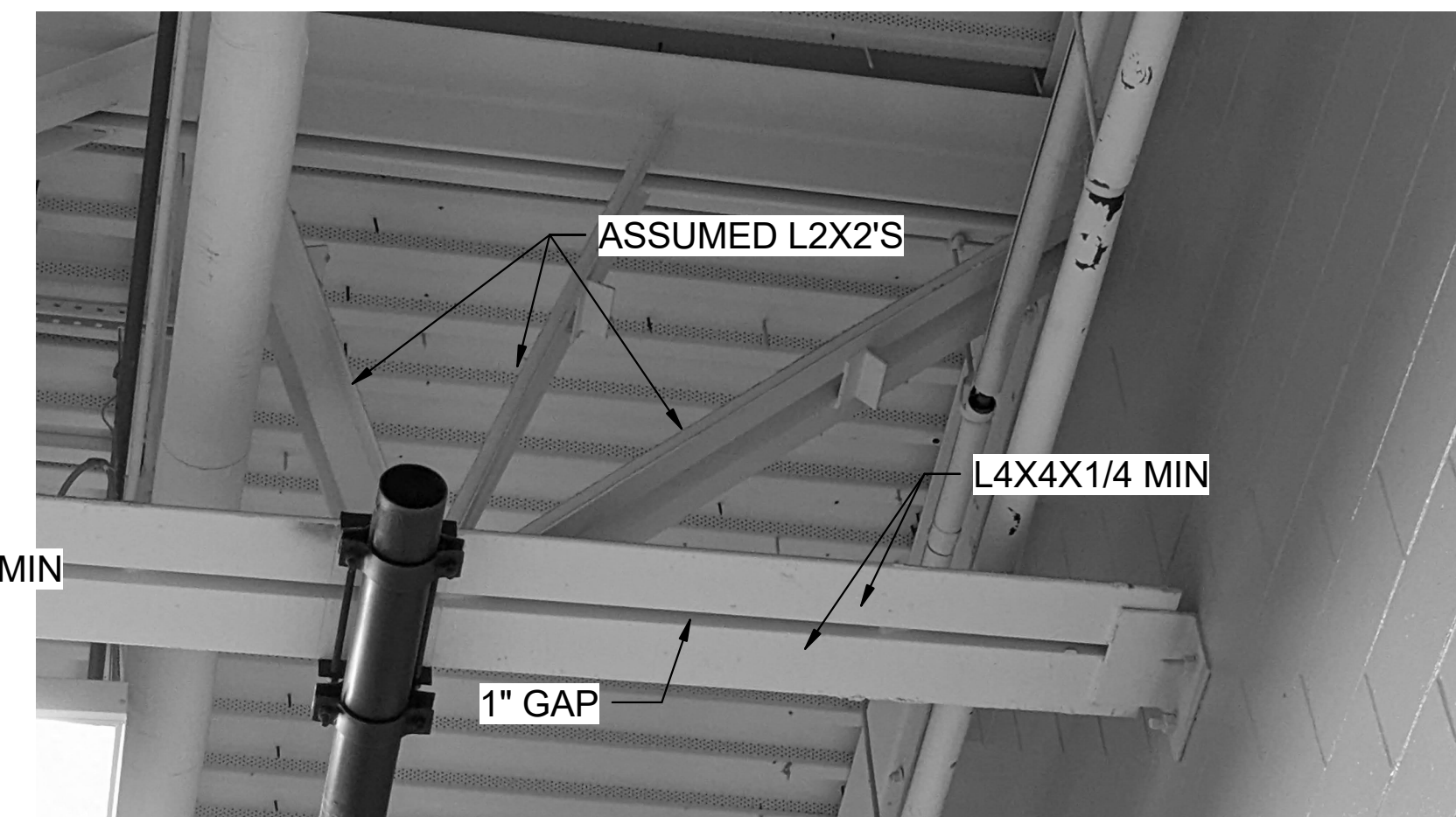
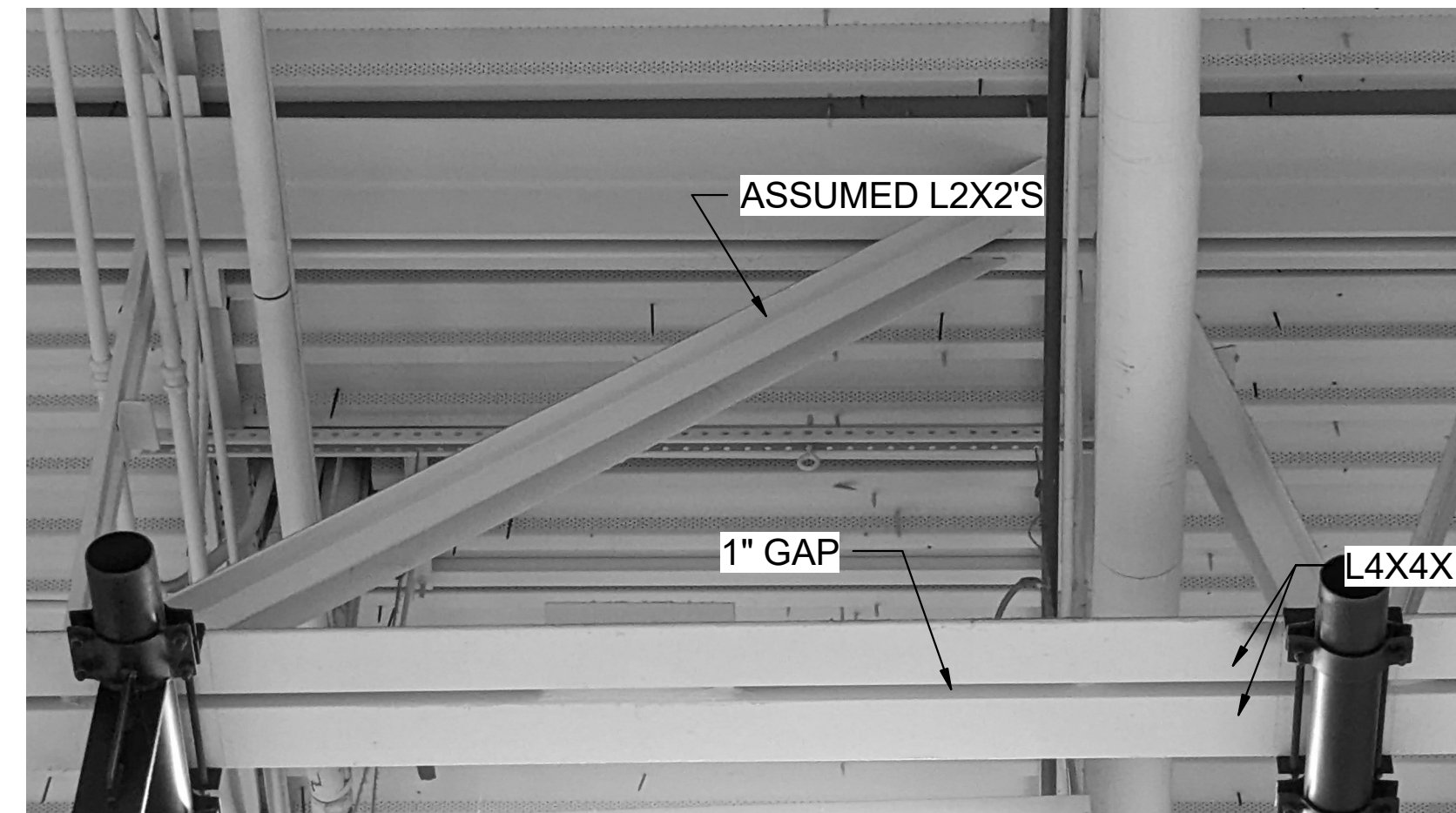
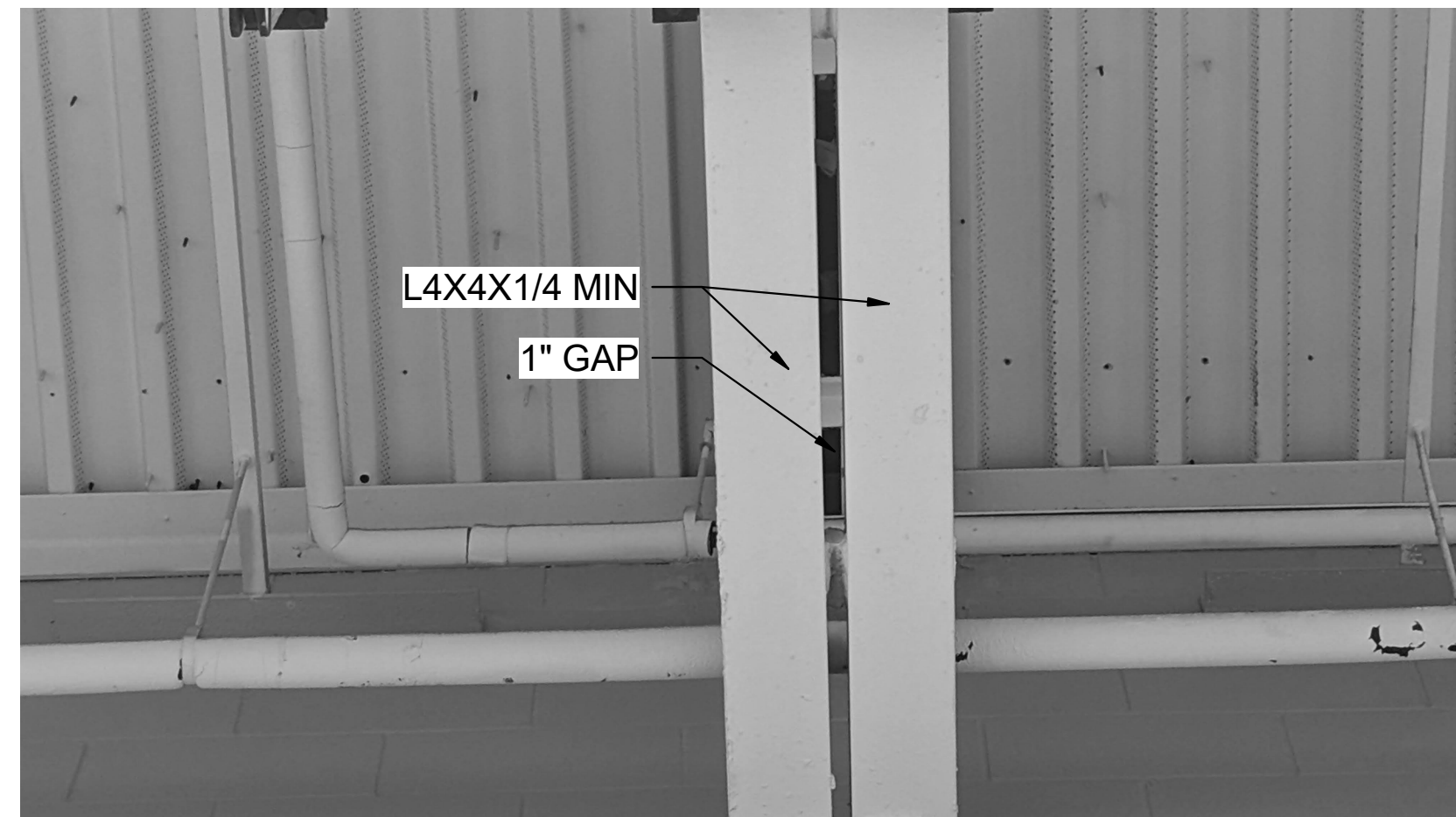


2 EX. JOIST GIRDER NEW LOADING  
 1/4" = 1'-0"

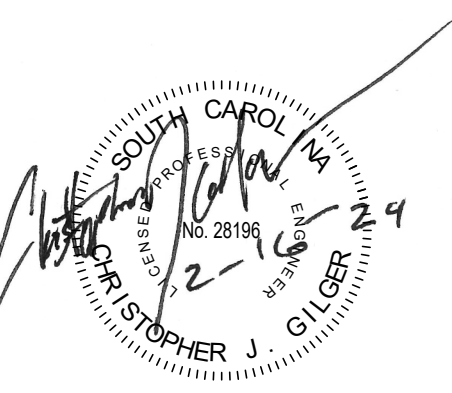
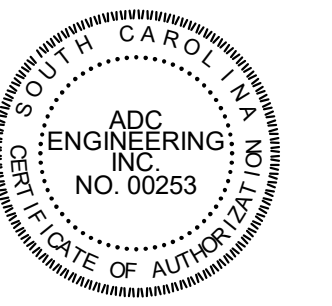


PSF ROOF DL = 20 PSF  
 PSF ROOF LL = 20 PSF  
 5.22' TRIBUTARY AREA  
 UPLIFT = 39 PSF

3 JOIST @ NEW UNIT  
 1/2" = 1'-0"



Horry County Schools  
 North Myrtle Beach Middle School HVAC

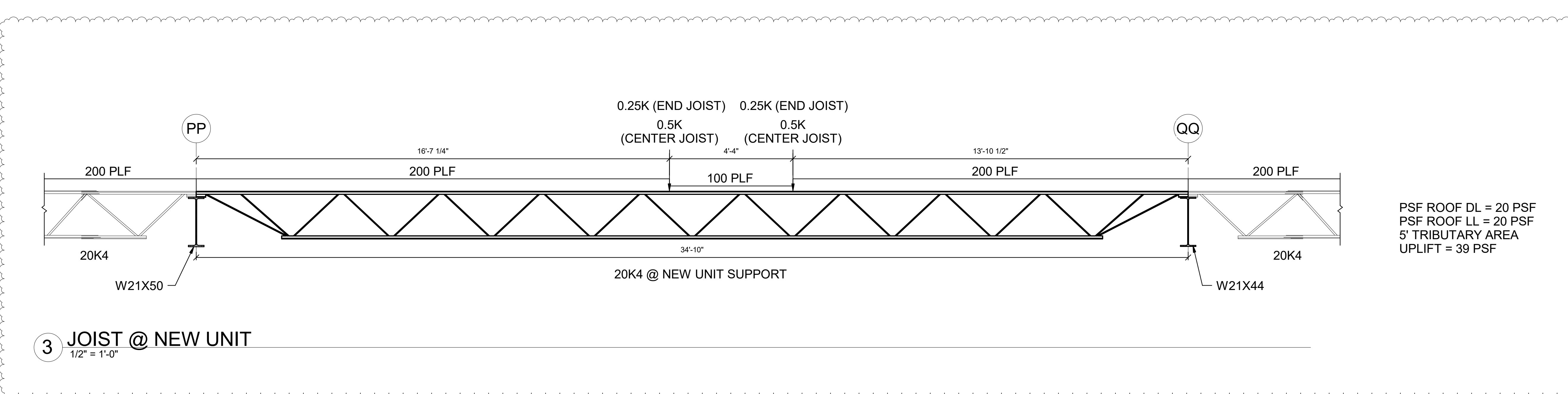
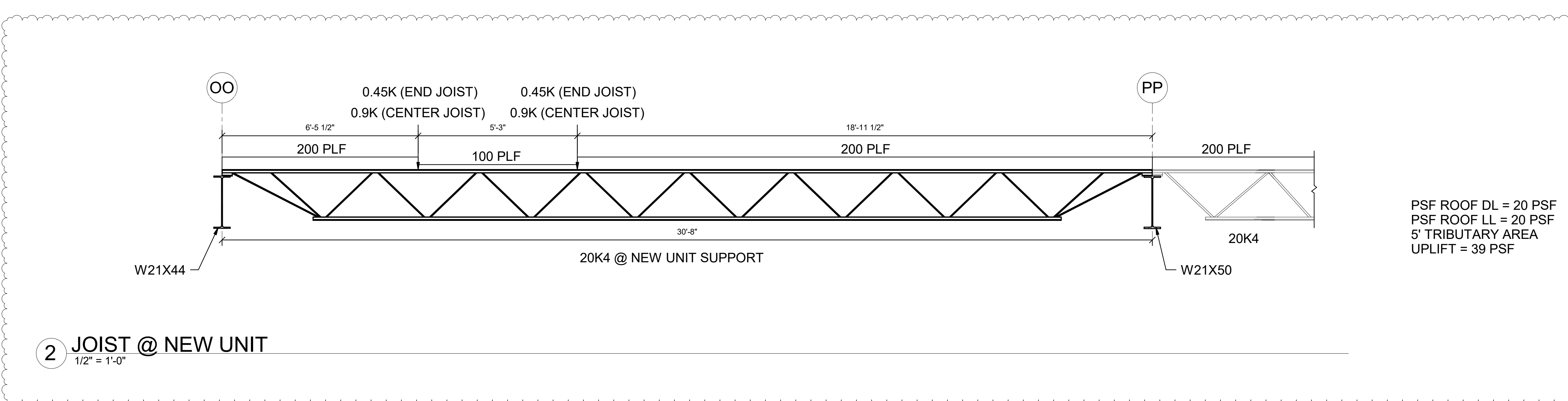
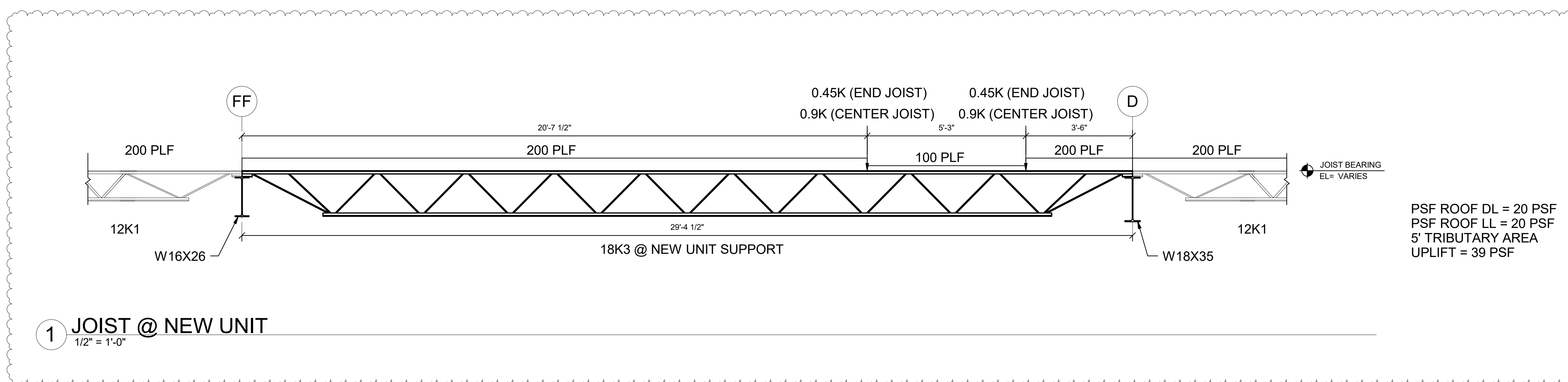


**ADC ENGINEERING**  
 1226 YEAMANS HALL ROAD  
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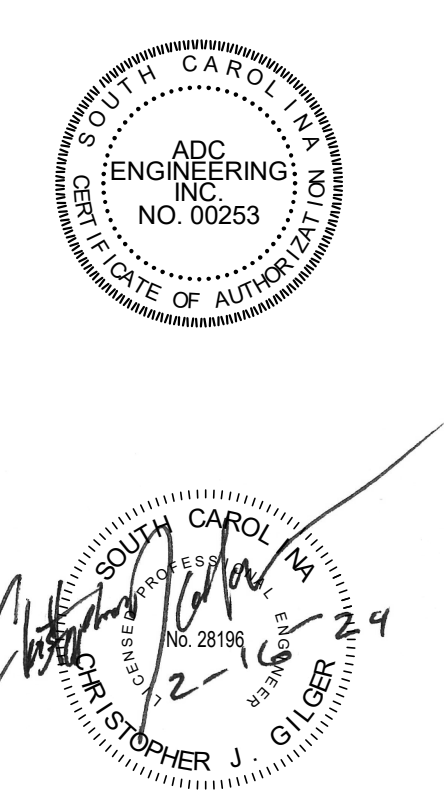
DATE: 02/16/2024  
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 1 03/29/24 ADDITIONAL LOADING DIAGRAM

SECTIONS AND DETAILS

S301A



Horry County Schools  
**North Myrtle Beach Middle School HVAC**  
 11240 SC-90  
 Little River, SC 29566



DATE:	02/16/2024
ADC PROJECT #:	23379
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	JMJ
REVISION:	
1	03/29/24 ADDITIONAL LOADING DIAGRAM

SECTIONS AND DETAILS

S301B

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