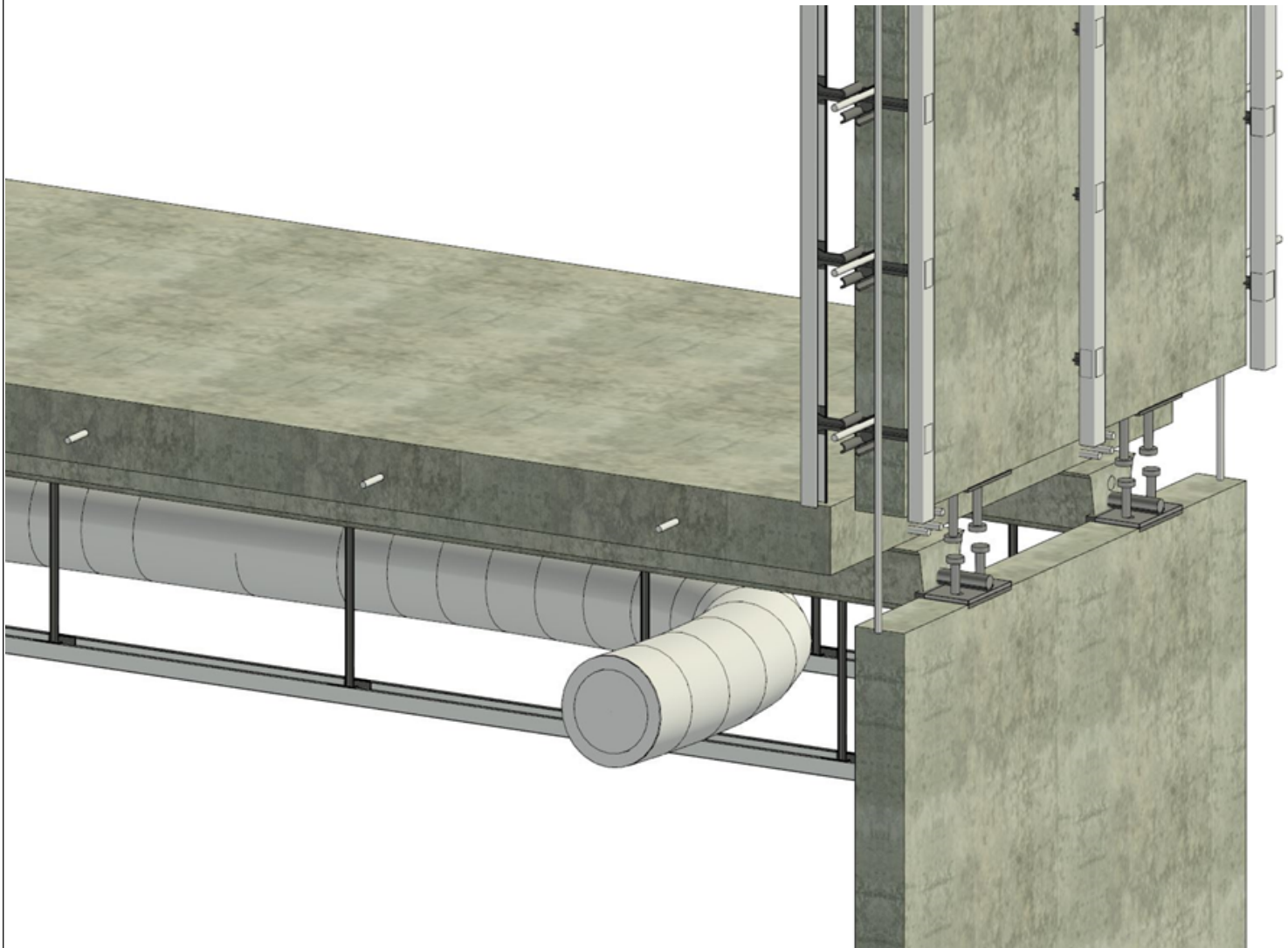


CLIMATE-DECK™

24' SPAN

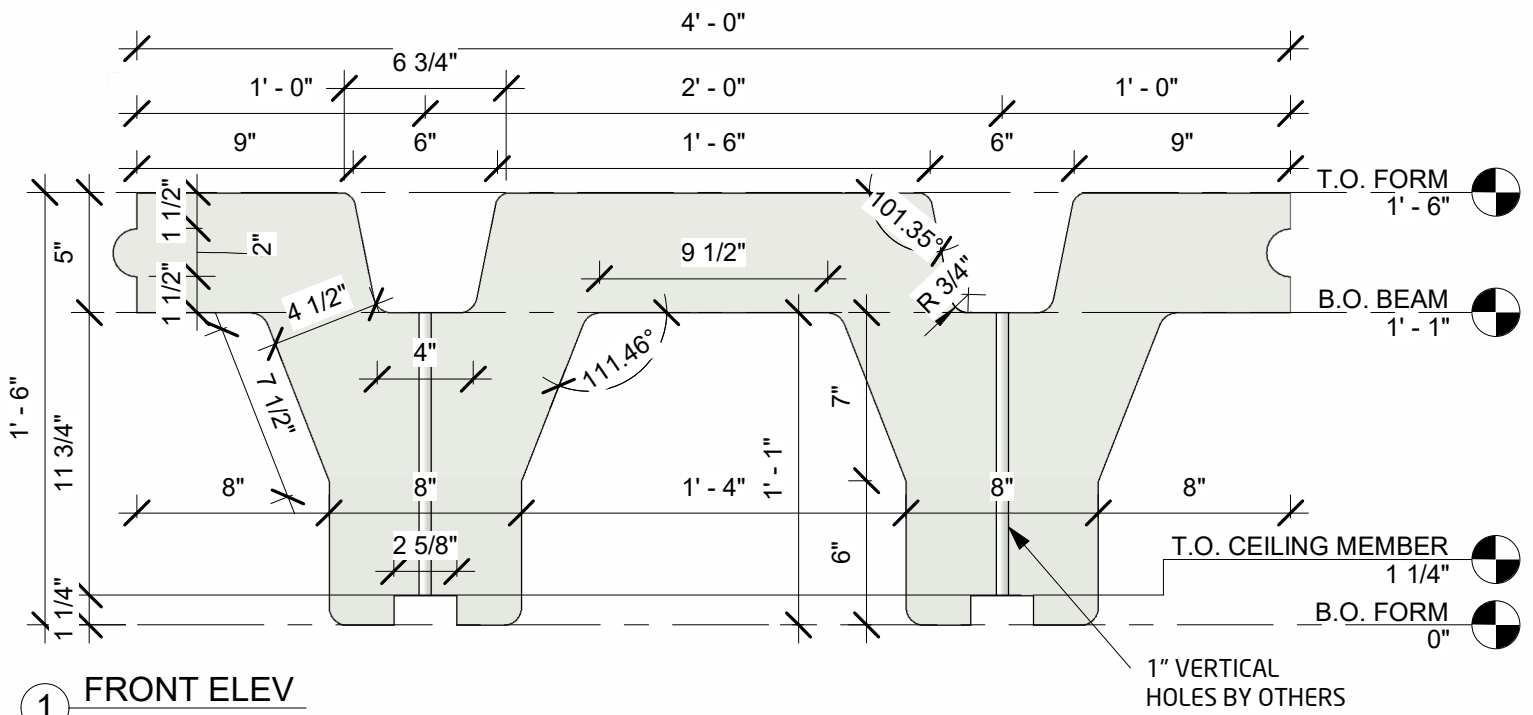


CLIMATE-DECK™
24' SPAN

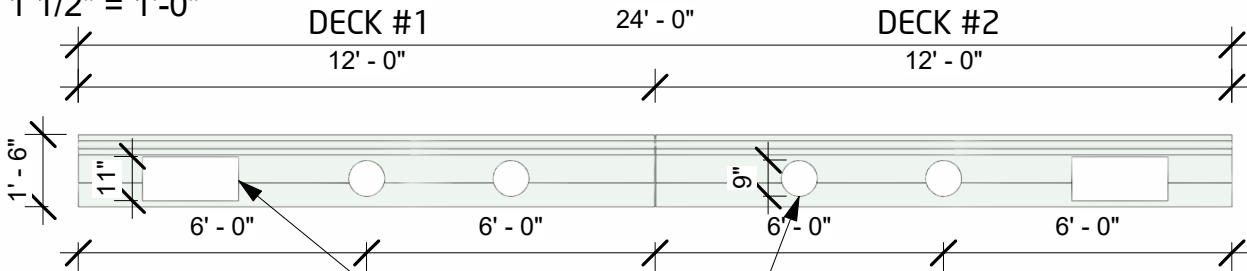
(2) @ 18" x 48" x 144"

COVER SHEET

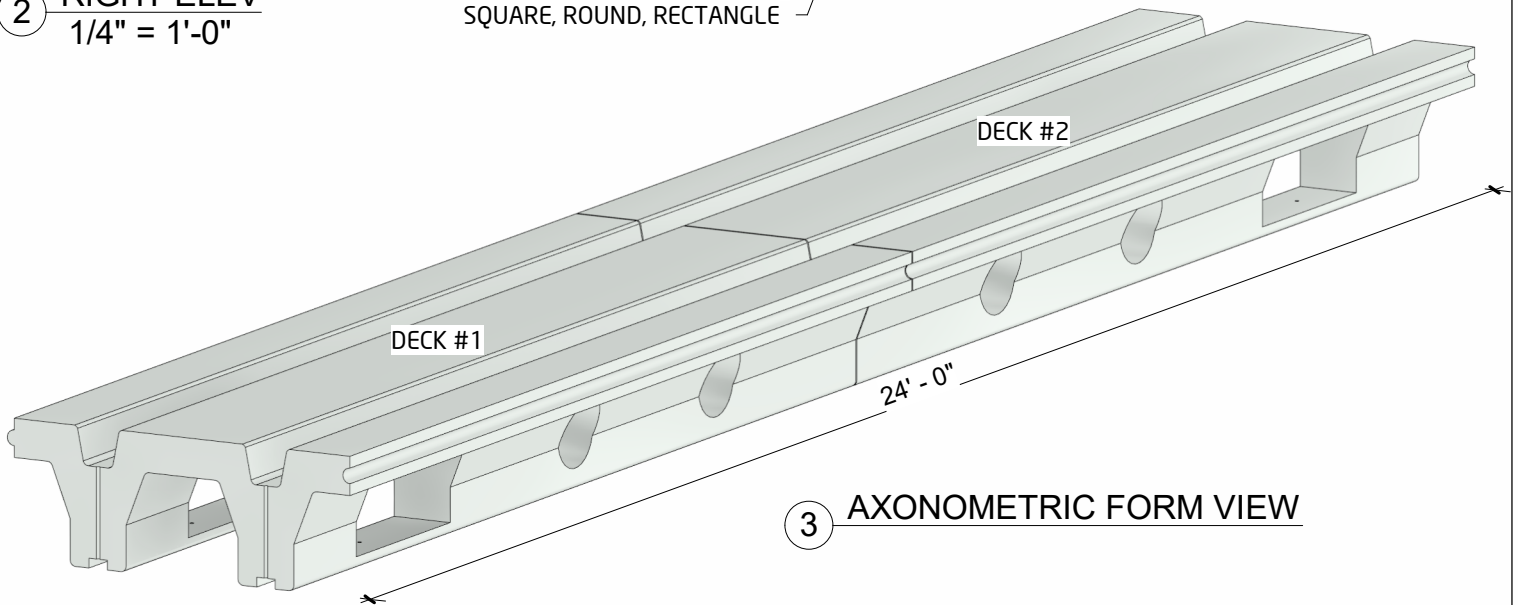
Project number	CD1848144	A1.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
		Scale



1 FRONT ELEV
1 1/2" = 1'-0"



2 RIGHT ELEV
1/4" = 1'-0"



3 AXONOMETRIC FORM VIEW



CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

CLIMATE-DECK™ 24' SPAN

Project number CD1848144

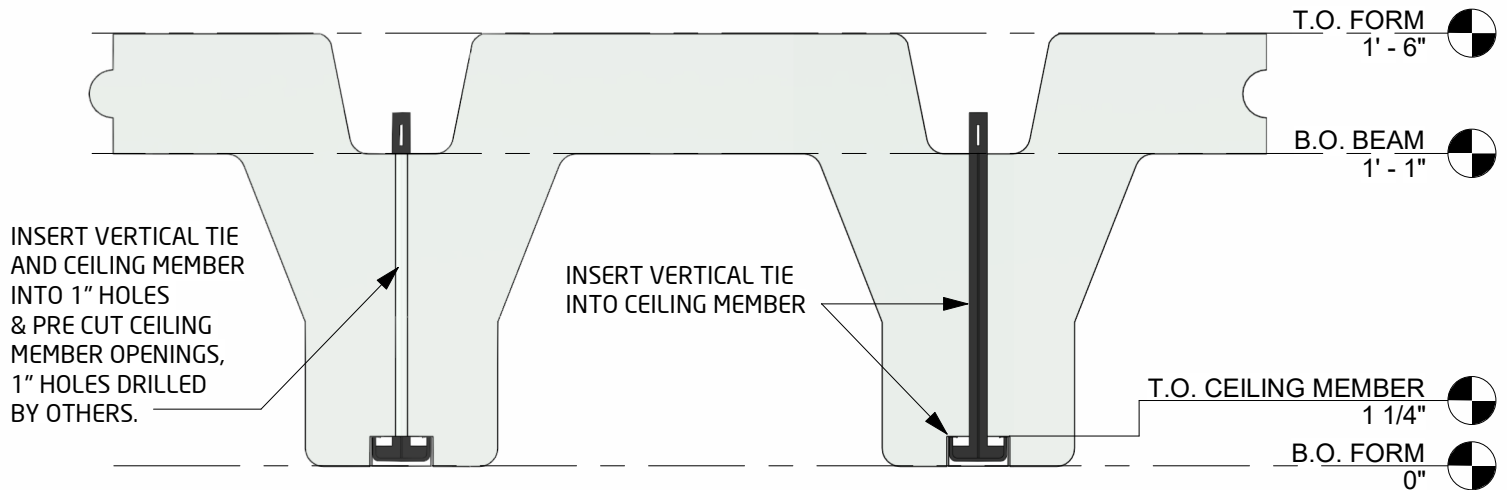
Date TODAY

Drawn by AJ

Checked by AJ

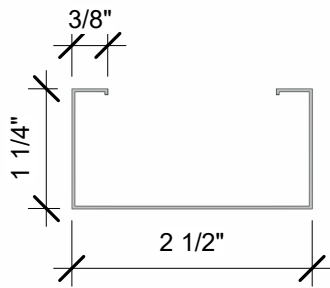
D1.0

Scale As indicated



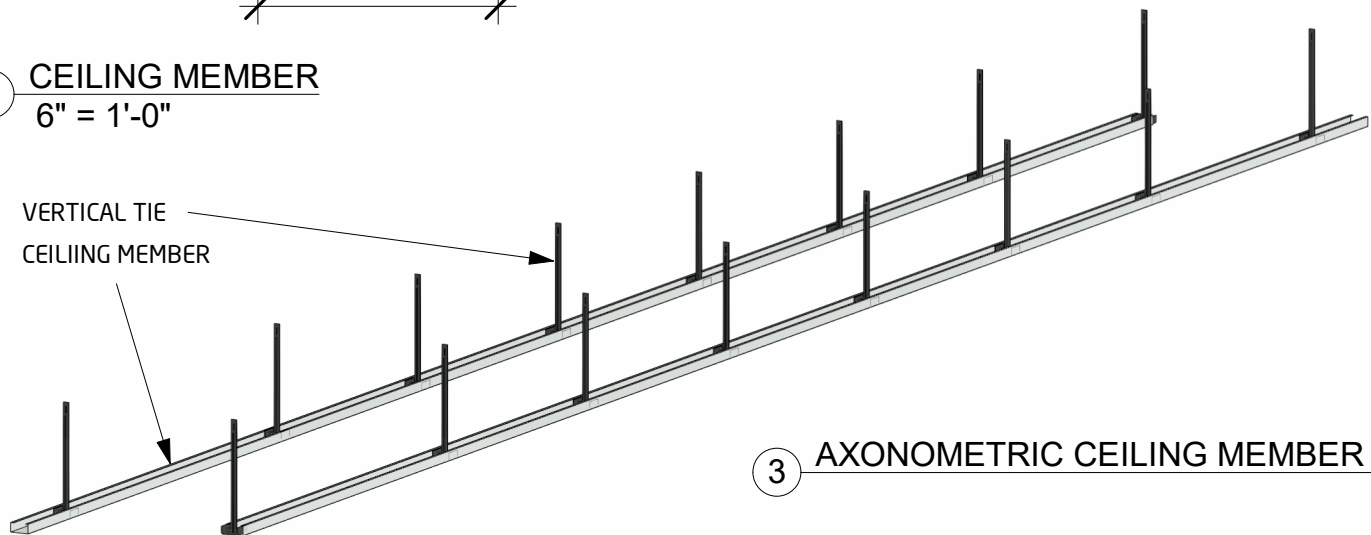
1 CEILING MEMBER CROSS SECTION

1 1/2" = 1'-0"



2 CEILING MEMBER

6" = 1'-0"



3 AXONOMETRIC CEILING MEMBER VIEW

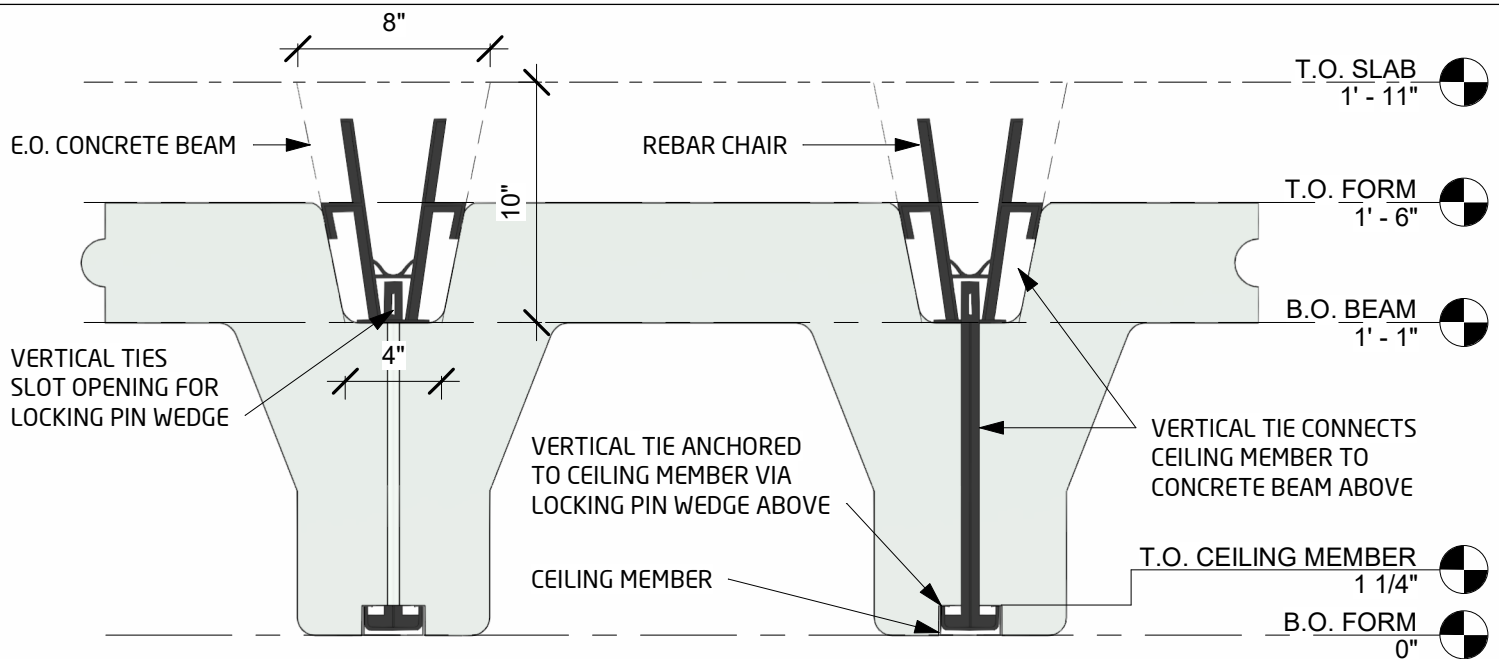


CLIMATE-DECK™
24' SPAN

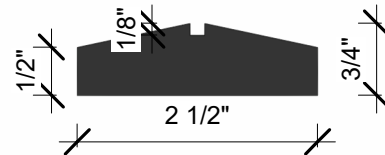
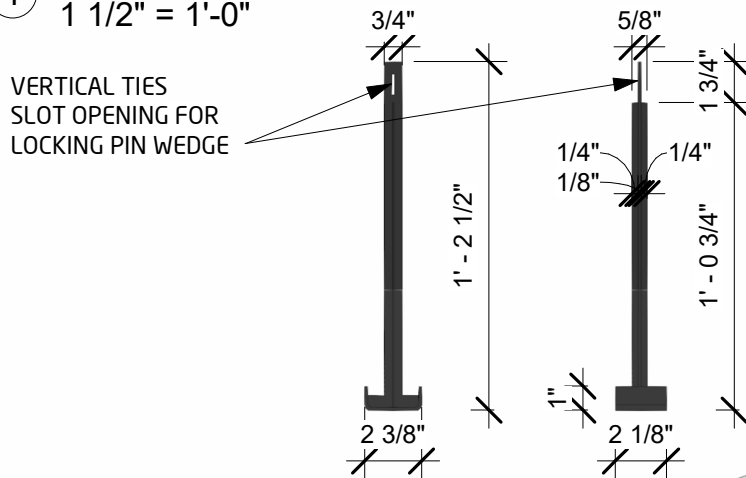
(2) @ 18" x 48" x 144"

CEILING CONNECTION

Project number	CD1848144	D2.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
		Scale As indicated

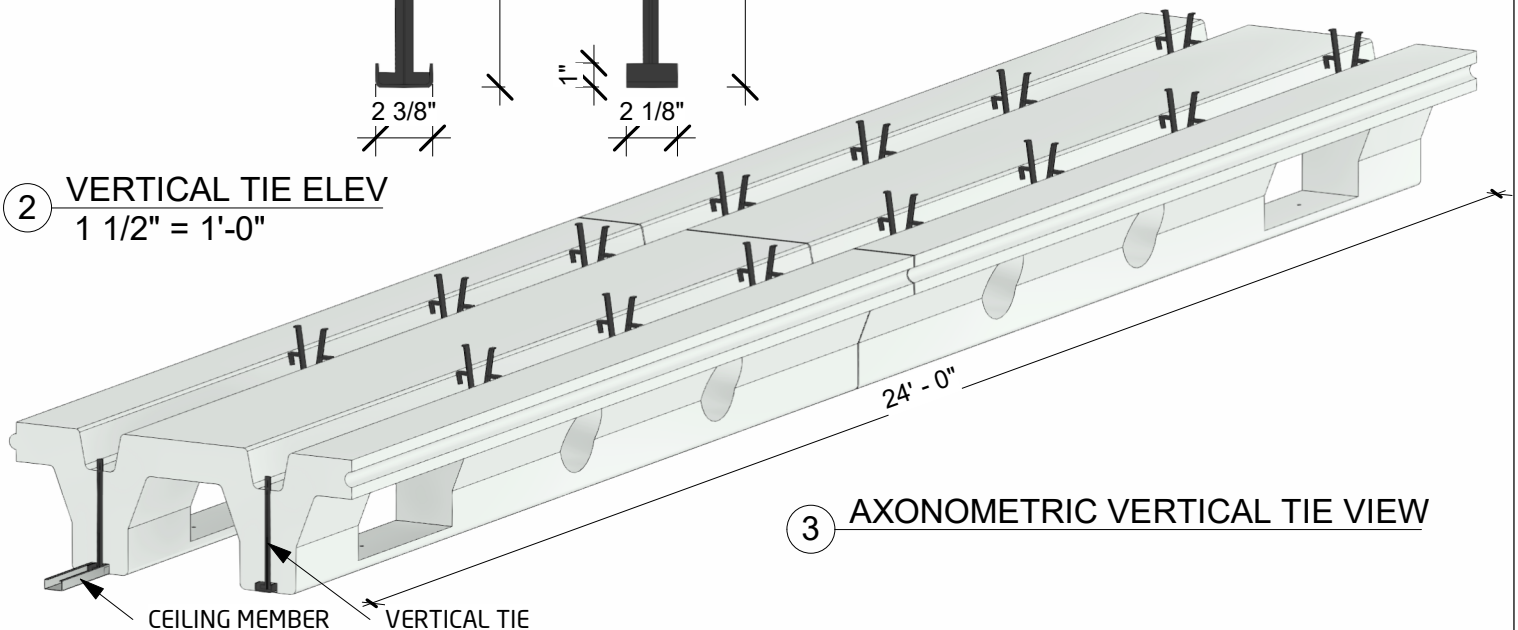


1 VERTICAL TIE CROSS SECTION 1 1/2" = 1'-0"



4 LOCKING PIN WEDGE 6" = 1'-0"

2 VERTICAL TIE ELEV 1 1/2" = 1'-0"



3 AXONOMETRIC VERTICAL TIE VIEW

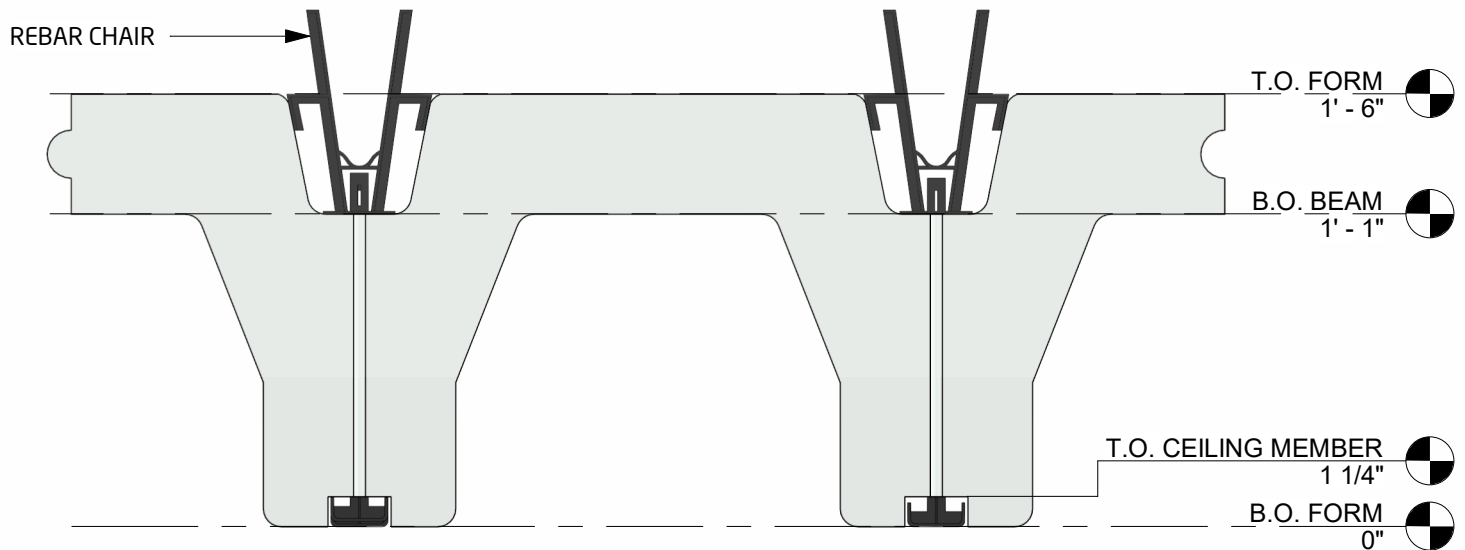


CLIMATE-DECK™
24' SPAN

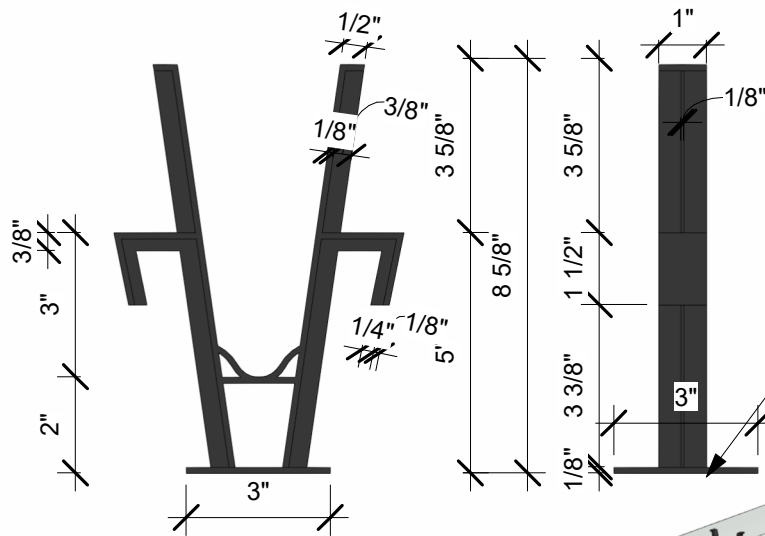
(2) @ 18" x 48" x 144"

VERTICAL TIE & WEDGE

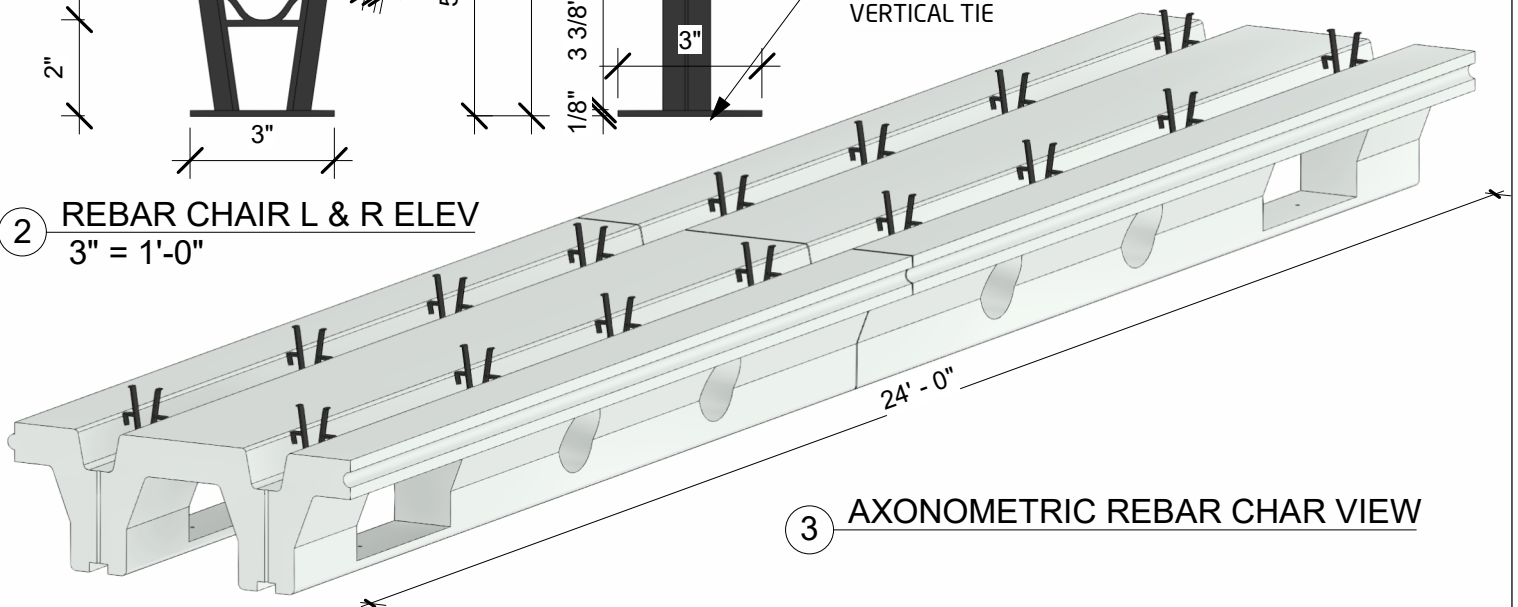
Project number	CD1848144	D3.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
Scale		As indicated



① REBAR CHAIR CROSS SECTION
1 1/2" = 1'-0"



② REBAR CHAIR L & R ELEV
3" = 1'-0"



③ AXONOMETRIC REBAR CHAIR VIEW

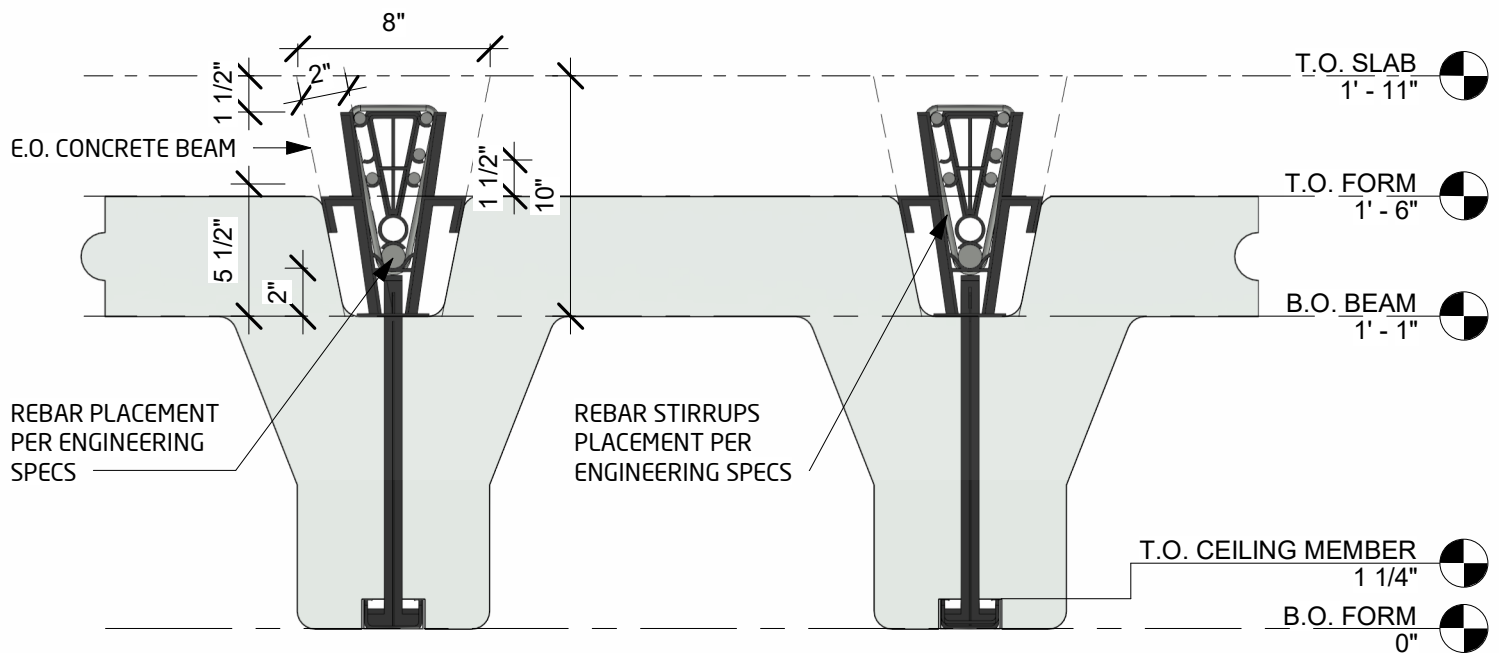


CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

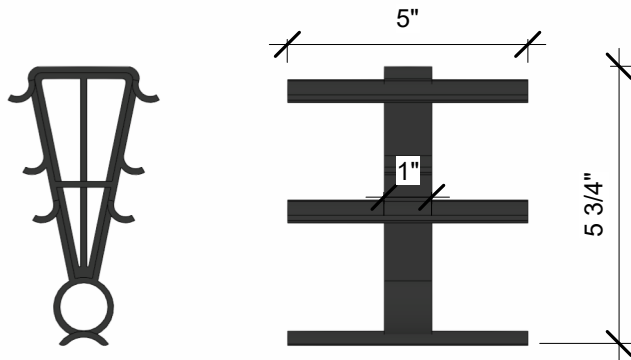
REBAR CHAIR

Project number	CD1848144	D4.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
Scale		As indicated



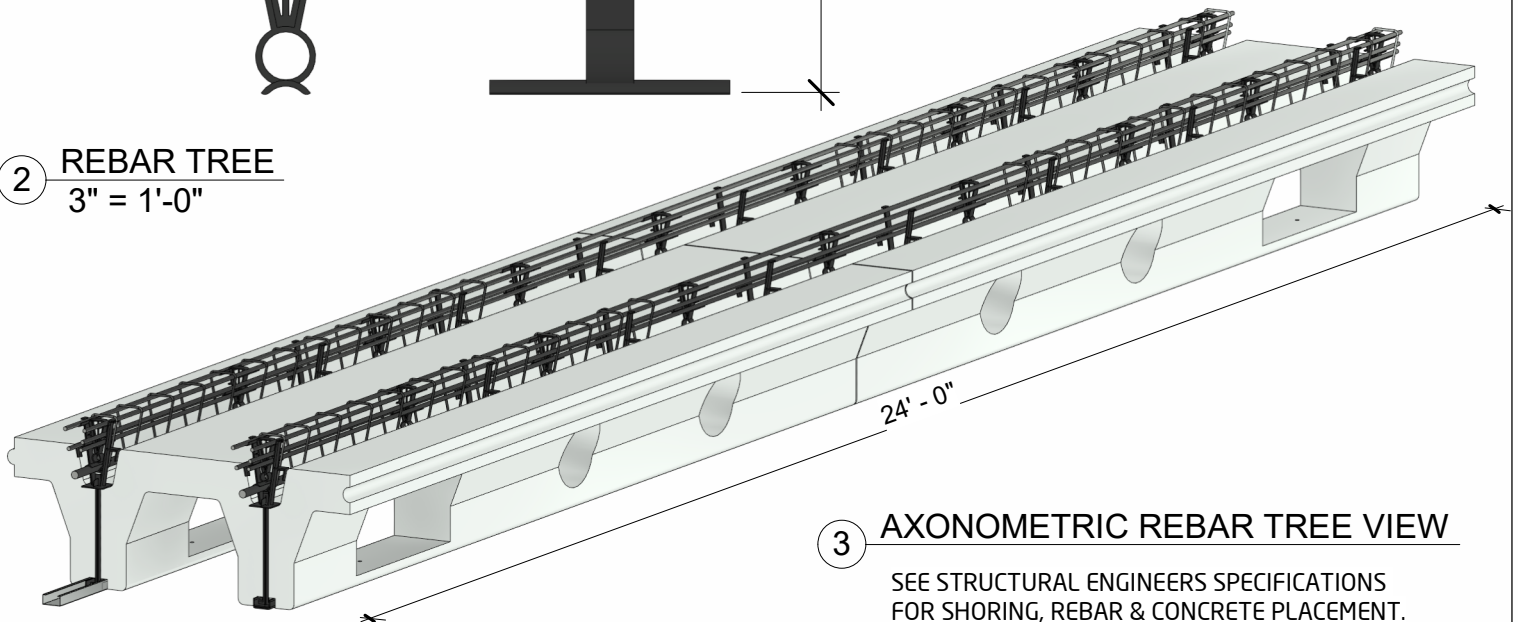
1 REBAR TREE CROSS SECTION

1 1/2" = 1'-0"



2 REBAR TREE

3" = 1'-0"



3 AXONOMETRIC REBAR TREE VIEW

SEE STRUCTURAL ENGINEERS SPECIFICATIONS FOR SHORING, REBAR & CONCRETE PLACEMENT.

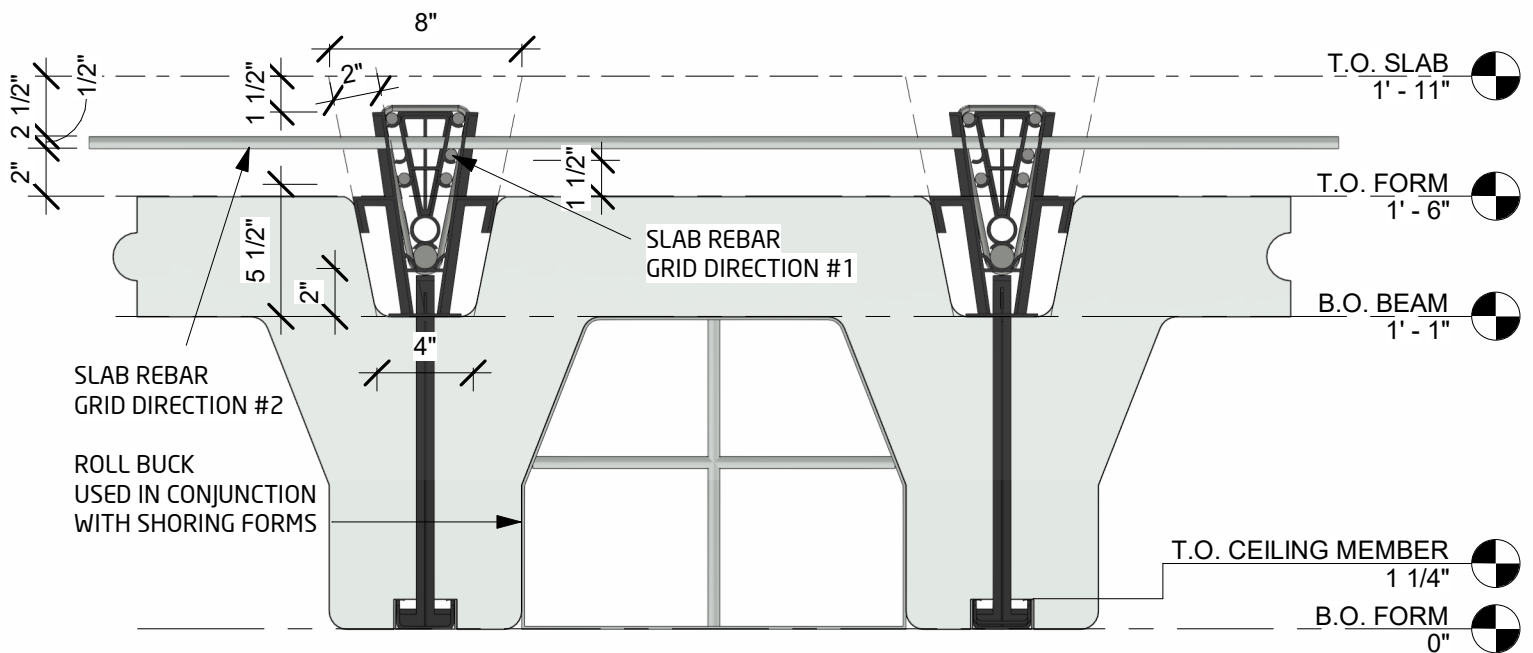


CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

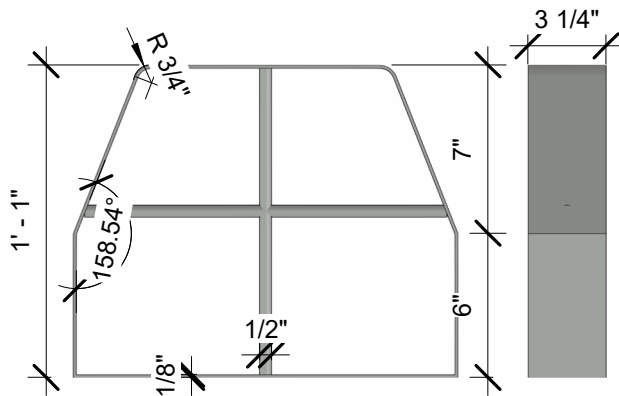
REBAR TREE

Project number	CD1848144	D5.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
Scale		As indicated

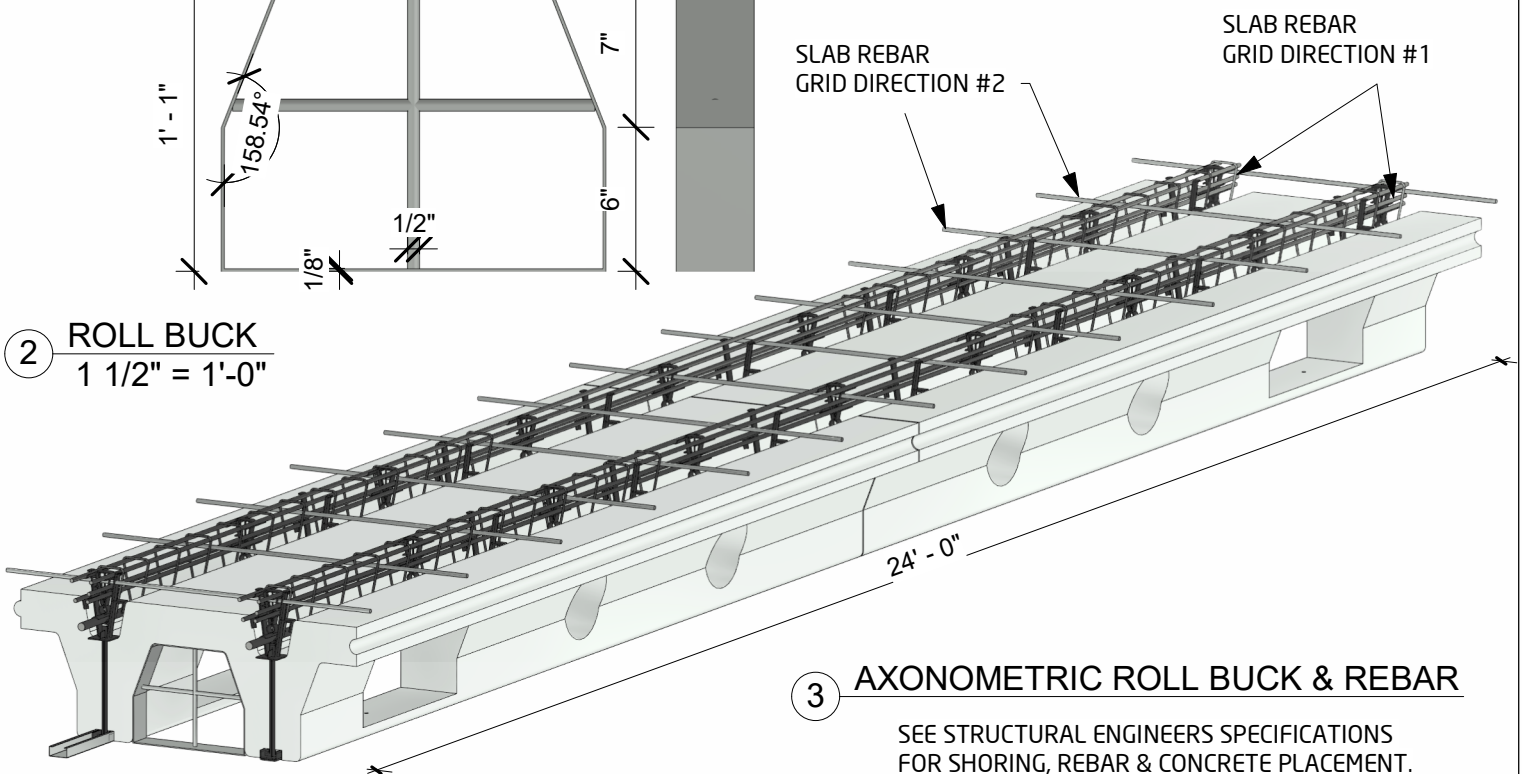


ROLL BUCK & SLAB REBAR CROSS SECTION

① 1 1/2" = 1'-0"



② ROLL BUCK
1 1/2" = 1'-0"



③ AXONOMETRIC ROLL BUCK & REBAR

SEE STRUCTURAL ENGINEERS SPECIFICATIONS
FOR SHORING, REBAR & CONCRETE PLACEMENT.

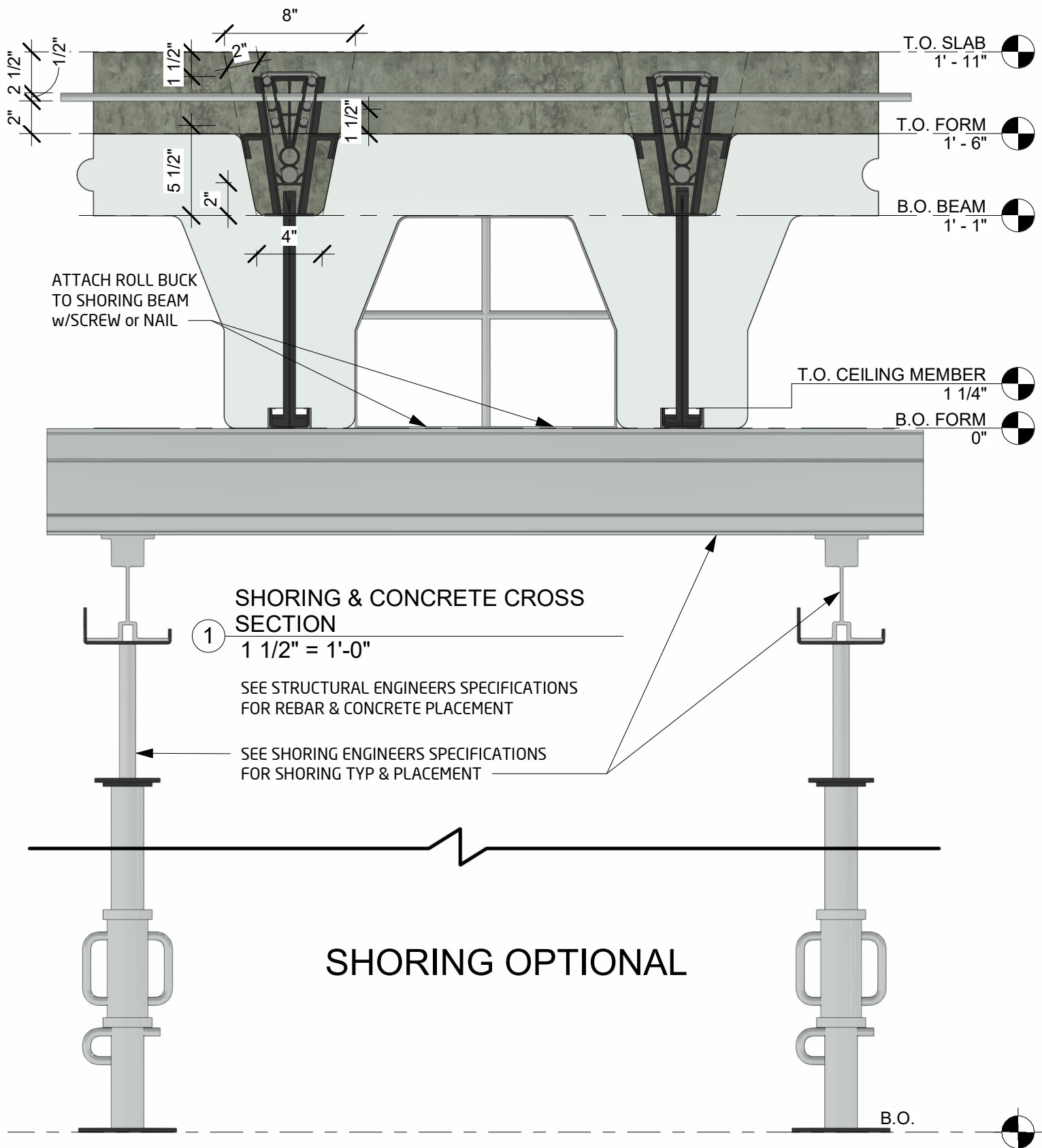


CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

ROLL BUCK & SLAB REBAR

Project number	CD1848144	D6.0
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
		Scale 1 1/2" = 1'-0"



CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

SHORING & CONCRETE

Project number CD1848144

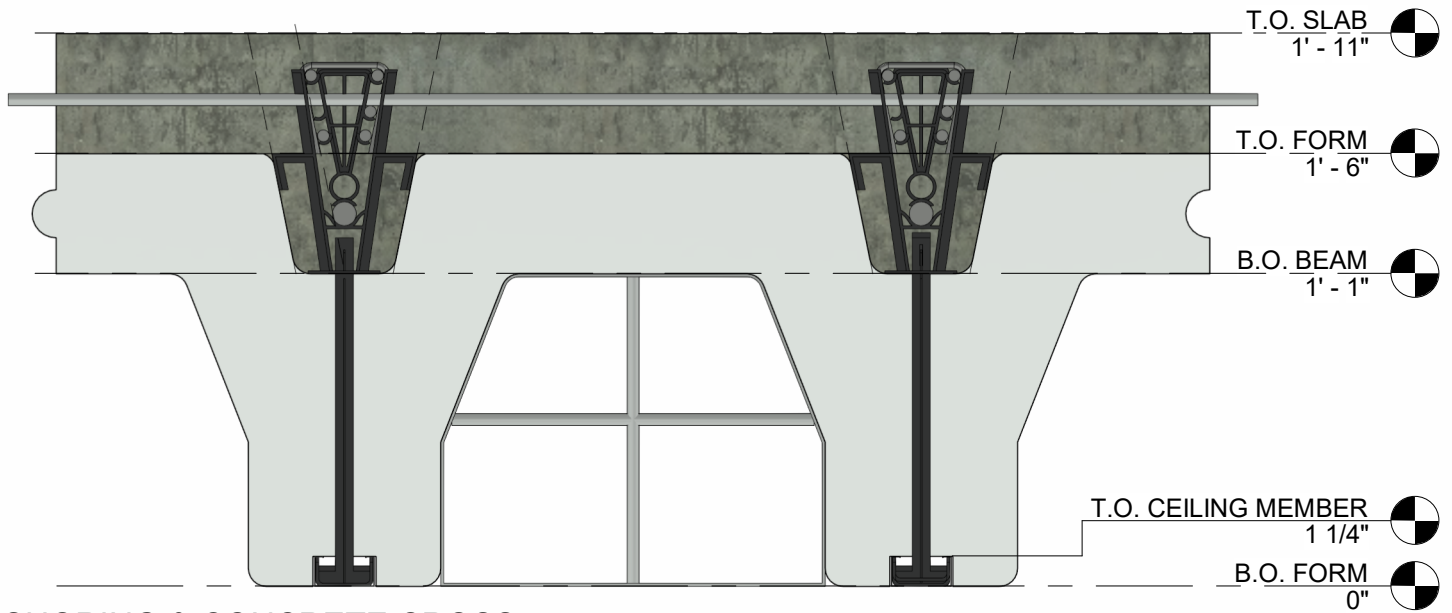
Date TODAY

Drawn by Author

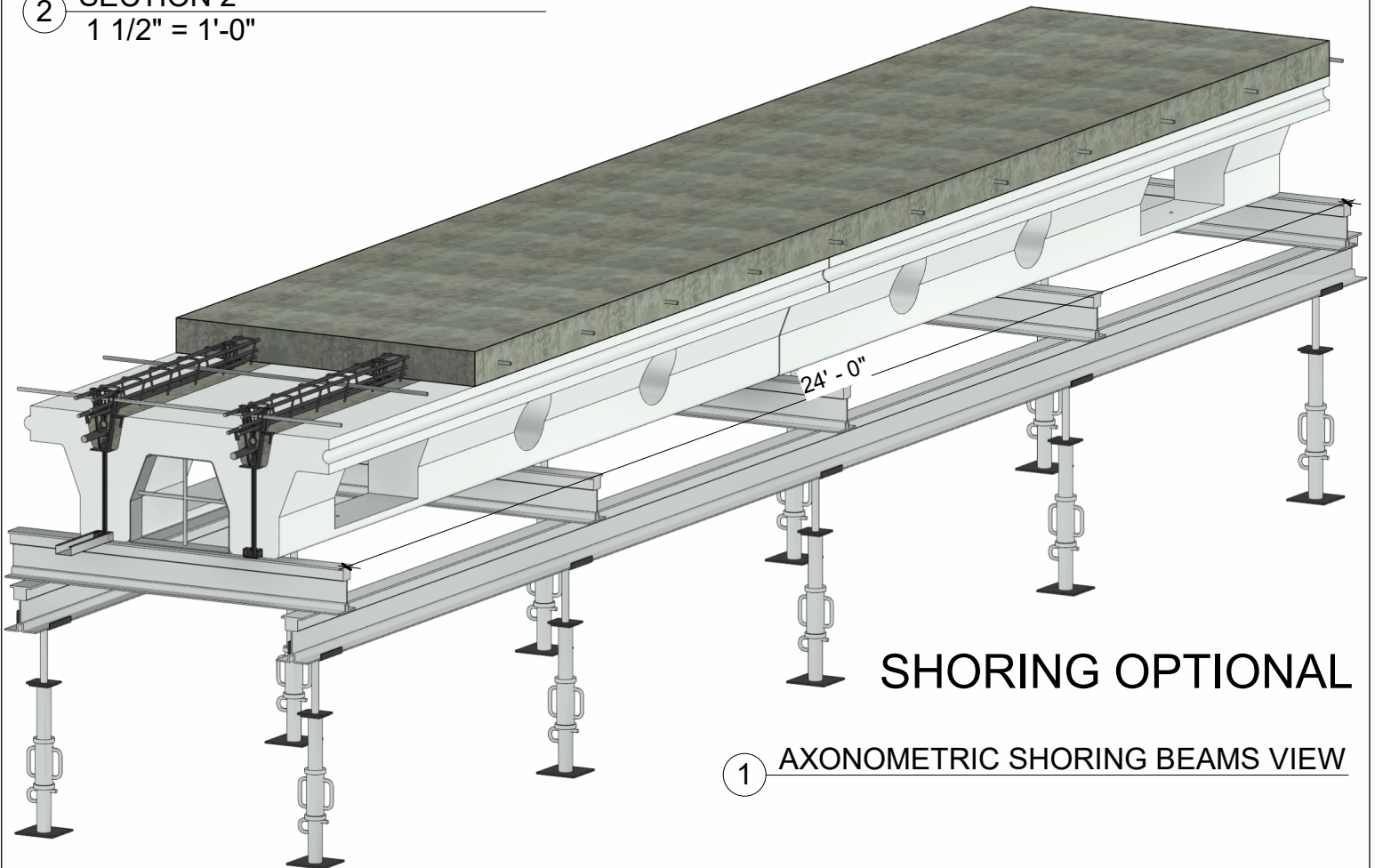
Checked by Checker

D7.0

Scale 1 1/2" = 1'-0"



SHORING & CONCRETE CROSS
SECTION 2
1 1/2" = 1'-0"



AXONOMETRIC SHORING BEAMS VIEW



CLIMATE-DECK™
24' SPAN

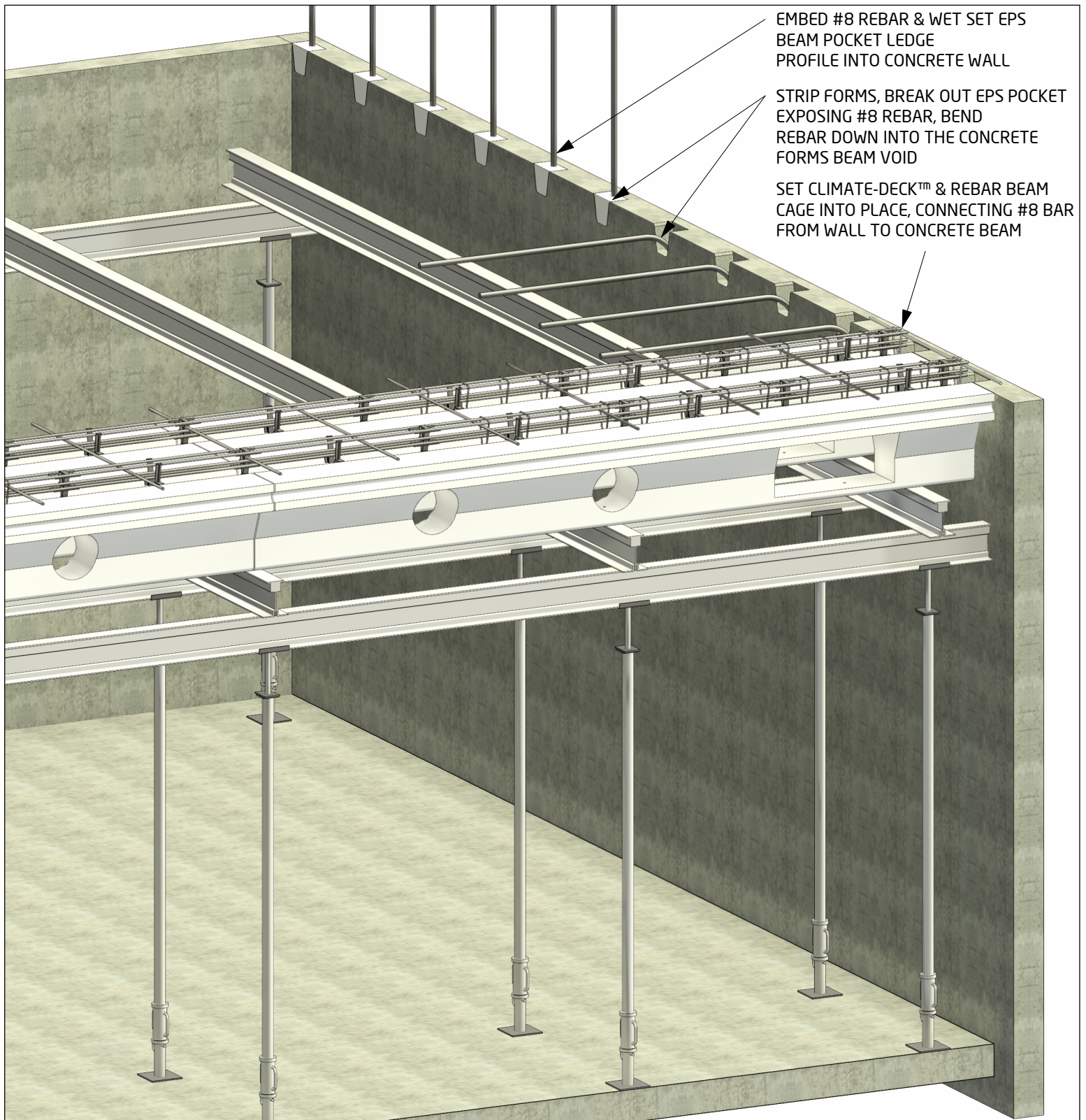
(2) @ 18" x 48" x 144"

SHORING & CONCRETE

Project number	CD1848144
Date	TODAY
Drawn by	Author
Checked by	Checker

D7.1

Scale 1 1/2" = 1'-0"



SHORING OPTIONAL

① FLOOR TO WALL BEAM VIEW



CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

BEAM POCKET VIEW

Project number CD1848144

Date TODAY

Drawn by AJ

Checked by AJ

D8.0

Scale

Concrete Beam

Lic. #: KW-06014113

File: Concrete floor design.ec6
Software copyright ENERCALC, INC. 1983-2020, Build:12.20.8.2
Site Serve LLC

DESCRIPTION: typ 24' span

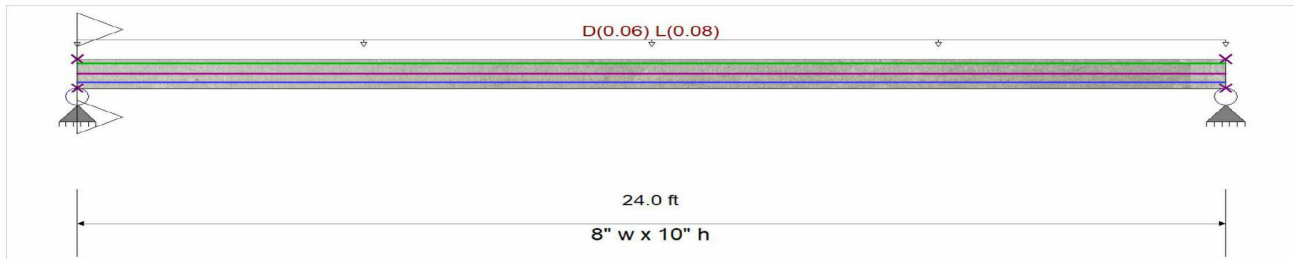
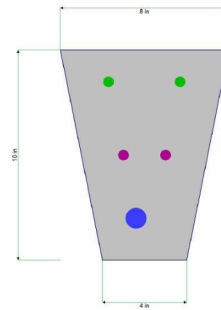
CODE REFERENCES

Calculations per ACI 318-14, IBC 2018, CBC 2019, ASCE 7-16

Load Combination Set : ASCE 7-16

Material Properties

f'_c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
$f_r = f'_c^{1/2}$	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ LtWt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi	Fy - Stirrups	=	40.0 ksi
f_y - Main Rebar	=	60.0 ksi	E - Stirrups	=	29,000.0 ksi
E - Main Rebar	=	29,000.0 ksi	Stirrup Bar Size #	=	3
			Number of Resisting Legs Per Stirrup	=	2



Cross Section & Reinforcing Details

Trapezoidal Section, TopWidth = 8.0 in, Bottom Width = 4.0 in, Height = 10.0 in

Span #1 Reinforcing....

1-#8 at 2.0 in from Bottom, from 0.0 to 24.0 ft in this span

2-#4 at 1.50 in from Top, from 0.0 to 24.0 ft in this span

2-#4 at 5.0 in from Bottom, from 0.0 to 24.0 ft in this span

Beam self weight calculated and added to loads

Load for Span Number 1

Uniform Load : D = 0.030, L = 0.040 ksf, Tributary Width = 2.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.670 : 1
Section used for this span		Typical Section
Mu : Applied		19.620 k-ft
Mn * Phi : Allowable		29.303 k-ft
Location of maximum on span		12.022 ft
Span # where maximum occurs		Span # 1

Maximum Deflection		
Max Downward Transient Deflection	0.625 in	Ratio = 460 >= 360
Max Upward Transient Deflection	0.000 in	Ratio = 0 < 360.0
Max Downward Total Deflection	1.735 in	Ratio = 165 >= 150
Max Upward Total Deflection	0.000 in	Ratio = 0 < 150.0

Vertical Reactions

Support notation : Far left is #1

Load Combination	Support 1	Support 2
Overall MAXimum	2.405	2.405
Overall MINimum	0.867	0.867
+D+H	1.445	1.445
+D+L+H	2.405	2.405
+D+Lr+H	1.445	1.445
+D+S+H	1.445	1.445
+D+0.750Lr+0.750L+H	2.165	2.165
+D+0.750L+0.750S+H	2.165	2.165
+D+0.60W+H	1.445	1.445
+D+0.750Lr+0.750L+0.450W+H	2.165	2.165
+D+0.750L+0.750S+0.450W+H	2.165	2.165
+0.60D+0.60W+0.60H	0.867	0.867



CLIMATE-DECK™
24' SPAN

(2) @ 18" x 48" x 144"

Structural Detail

Project number	CD1848144	SD-100
Date	TODAY	
Drawn by	Author	
Checked by	Checker	
		Scale