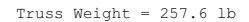


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```

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL:           No
20 psf BC Limited Storage:             No
200 lb BC Accessible Ceiling:          No
300 lb TC Maintenance Load:           No
2000 lb TC Safe Load:                 No
Unbalanced TCLL:                       No

```

...Mem...	Ten	Comp	.CSI.
9-22	90	439	0.03
11-22	1648	32	0.23
11-23	376	1406	0.12
12-23	182	156	0.02
13-23	1716	618	0.24
13-24	520	2566	0.23
14-24	0	176	0.00

Reaction Summary

Reaction Summary (Lbs)							
Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
15	02-04	1464	0	05-08	01-08	SPF	425
24	22-07-00	1458	198	02-06	01-08	SPF	447

Loads Summary

Loads Summary					
See Loadcase Report for loading combinations and additional details.					
Loads based on maximum and minimum reactions from tie-in spans					
Mbr	Max	Min	Location	Dir	Description
Transfer loads:					
TC	71	11	1-05-12	Vert	FT3 @ -90 Deg
TC	71	11	2-09-12	Vert	FT3 @ -90 Deg
TC	71	11	4-01-12	Vert	FT3 @ -90 Deg
TC	71	11	5-05-12	Vert	FT3 @ -90 Deg
TC	150	20	6-06-10	Vert	FT5 @ -90 Deg
TC	160	26	7-10-10	Vert	FT11 @ -90 Deg
TC	160	26	9-02-10	Vert	FT11 @ -90 Deg
TC	24	-130	9-11-02	Vert	FT6 @ -90 Deg
TC	24	-130	11-03-02	Vert	FT6 @ -90 Deg
TC	24	-130	12-07-02	Vert	FT6 @ -90 Deg
TC	24	-130	13-11-02	Vert	FT6 @ -90 Deg
TC	24	-130	15-03-02	Vert	FT6 @ -90 Deg
TC	24	-130	16-07-02	Vert	FT6 @ -90 Deg
TC	24	-130	17-11-02	Vert	FT6 @ -90 Deg
TC	24	-130	19-03-02	Vert	FT6 @ -90 Deg
TC	160	26	20-07-02	Vert	FT11 @ -90 Deg
TC	160	26	21-11-02	Vert	FT11 @ -90 Deg

2-PLY TRUSS Fastener Spacing

Fasten each ply to the adjacent ply as follows:

fasten each ply to the adjacent ply as follows:

TC 4x2, 1-row of Simpson SDS25600 Screws	@ 24.0" o.c. in each member
BC 4x2, 1-row of Simpson SDS25600 Screws	@ 24.0" o.c. in each member
WB 4x2, 1-row of Simpson SDS25600 Screws	@ 9.0" o.c. in each member

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/360	L/547 (-0.49)	21-22
Vert DL	L/120	L/999 (0.05)	19-20
Vert CR	L/240	L/626 (-0.43)	19-20
Horz LL	0.75in	(0.05)	@Jt24
Horz CR	1.25in	(0.06)	@Jt24

Bracing Data Summary

```
-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

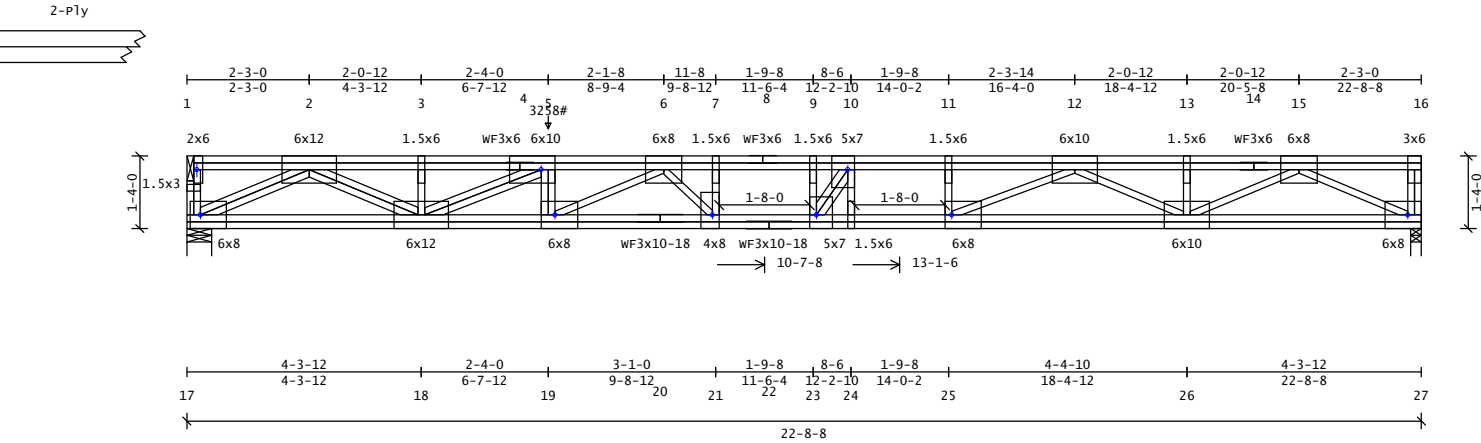
(None unless indicated below)

Jnt2 (0,-01-00), Jnt4 (0,-00-08),
 Jnt6 (-01-00,-00-08), Jnt8 (-01-00,-02-00),
 Jnt11 (0,-00-08), Jnt13 (0,-01-00),
 Jnt14 (0,-00-08), Jnt15 (01-12,00-08),
 Jnt17 (0,01-00), Jnt18 (0,00-08),
 Jnt20 (01-00,02-00), Jnt22 (01-00,00-08),
 Jnt23 (0,00-08), Jnt24 (-01-00,00-08)

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Truss Weight = 441.8 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 2
Repetitive Member Increase: No
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCCL: No

Material Summary

TC	4x2	SPF	#1/#2	
	4x2	SPF	2100/1.8	1-8
	4x2	SPF	2400/2.0	4-14 8-16
BC	4x2	SPF	2100/1.8	
	4x2	SPF	2400/2.0	20-27
Webs	4x2	SPF	#1/#2	
RB	4x2	SPF	#1/#2	

Member Forces Summary

Max CSI in TC PANEL	9 - 10	0.57
Max CSI in BC PANEL	24 - 25	0.85
Max CSI in Web	25 - 12	0.53

...Mem...	Ten	Comp	.CSI.
7-21	1100	0	0.15
9-23	0	2445	0.18
10-23	5253	0	0.37
10-24	0	2015	0.14
11-25	0	974	0.07
12-25	3750	0	0.53
12-26	0	2970	0.25
13-26	0	208	0.01
15-26	3281	0	0.46
15-27	0	3668	0.31
16-27	0	71	0.00

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
17	02-04	3145	0	05-08	01-08	SPF	447
27	22-07-00	1769	0	02-06	01-08	SPF	447

Loads Summary

See Loadcase Report for loading combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans
Mbr Max Min Location Dir Description
User loads:
TC 3258 651 6-07-12 Vert LVL Beam @ 90 Deg

2-PLY TRUSS Fastener Spacing

Fasten each ply to the adjacent ply as follows:

TC 4x2, 1-row of Simpson SDS25600 Screws @ 24.0" o.c. in each member**
BC 4x2, 1-row of Simpson SDS25600 Screws @ 24.0" o.c. in each member
WB 4x2, 1-row of Simpson SDS25600 Screws @ 9.0" o.c. in each member
** Use additional fasteners of the same type (u.n.o.) within +/-12" of the location(s) indicated (except where approved hangers are used with fasteners that transfer the load to all plies):

TC:6-07-12, 6

Cluster fasteners shall be evenly distributed for stacked members.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/645(-0.42)	19-21
Vert DL	L/120	L/999(-0.20)	19-21
Vert CR	L/240	L/439(-0.61)	19-21
Horz LL	0.75in	(0.05)	@Jt27
Horz CR	1.25in	(0.07)	@Jt27

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

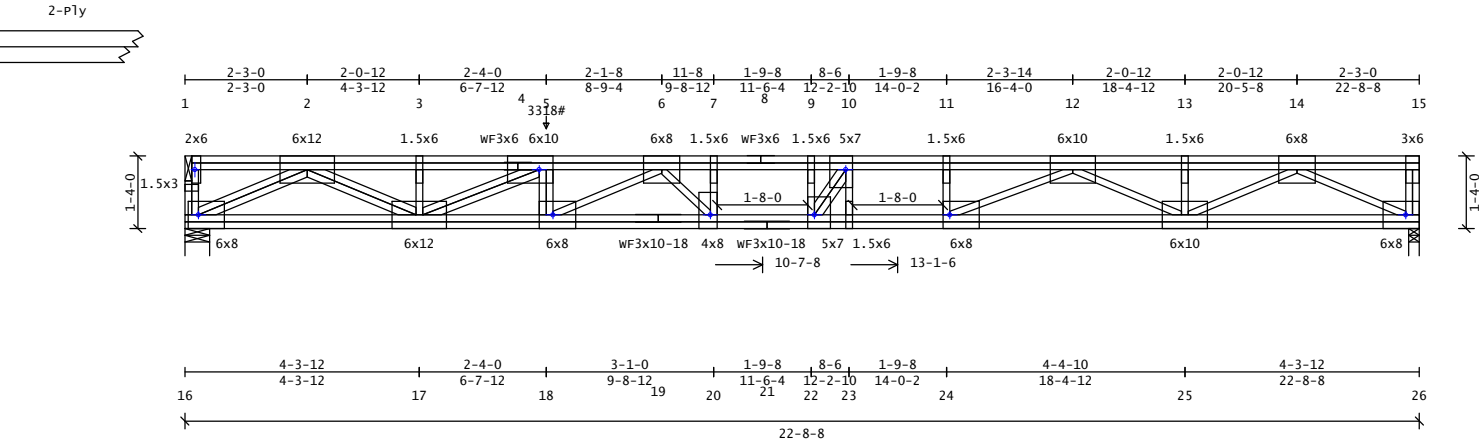
(None unless indicated below)
Jnt1(00-04,0), Jnt5(-02-00,0),
Jnt10(-01-00,-00-08), Jnt17(01-12,0),
Jnt19(01-00,0), Jnt21(-00-08,01-00),
Jnt23(01-00,00-08), Jnt25(02-08,0),
Jnt27(-01-00,0)

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "Important Information & General Notes" page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate.

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Truss Weight = 441.6 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 2
Repetitive Member Increase: No
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCCL: No

Material Summary

TC	4x2	SPF	2400/2.0
	4x2	SPF	#1/#2 1-4
	4x2	SPF	2100/1.8 1-8
BC	4x2	SPF	2100/1.8
	4x2	SPF	2400/2.0 16-19 19-26
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	10 - 11	0.58
Max CSI in BC PANEL	23 - 24	0.86
Max CSI in Web	24 - 12	0.53

...	Mem...	Ten	Comp	.CSI.
TC	OH- 1	0	0	0.00
	1- 2	0	0	0.04
	2- 3	0	11526	0.24
	3- 4	0	11526	0.36
	4- 5	0	11526	0.17
	5- 6	0	17510	0.30
	6- 7	0	14819	0.51
	7- 8	0	14819	0.51
	8- 9	0	14819	0.47
	9-10	0	14819	0.58
	10-11	0	12223	0.58
	11-12	0	12223	0.38
	12-13	0	6240	0.11
	13-14	0	6240	0.04
	14-15	0	0	0.02
	15-OH	0	0	0.00
BC	OH-16	0	0	0.00
	16-17	5900	0	0.21
	17-18	17510	0	0.55
	18-19	16067	0	0.67
	19-20	16067	0	0.77
	20-21	14819	0	0.66
	21-22	14819	0	0.75
	22-23	12223	0	0.81
	23-24	12223	0	0.86
	24-25	8902	0	0.46
	25-26	3299	0	0.18
	26-OH	0	0	0.00
Web	1-16	0	66	0.00
	2-16	0	6665	0.28
	2-17	6354	0	0.45
	3-17	0	179	0.01
	5-17	0	6598	0.28
	5-18	0	792	0.03
	6-18	2040	0	0.28
	6-20	0	2213	0.16
	7-20	1120	0	0.16

...	Mem...	Ten	Comp	.CSI.
	9-22	0	2481	0.18
	10-22	5335	0	0.37
	10-23	0	2047	0.15
	11-24	0	988	0.07
	12-24	3803	0	0.53
	12-25	0	3005	0.26
	13-25	0	211	0.01
	14-25	3322	0	0.47
	14-26	0	3703	0.32
	15-26	0	72	0.00

Reaction Summary

Jnt	--X-Loc	React	-Up-	--Width-	-Reqd	-Mat	PSI
16	02-04	3187	0	05-08	01-08	SPF	447
26	22-07-00	1787	0	02-06	01-08	SPF	447

Loads Summary

See Loadcase Report for loading combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans
Mbr Max Min Location Dir Description
User loads:
TC 3318 663 6-07-12 Vert LVL beam @ 90 Deg

2-PLY TRUSS Fastener Spacing

Fasten each ply to the adjacent ply as follows:
TC 4x2, 1-row of Simpson SDS25600 Screws @ 24.0" o.c. in each member**
BC 4x2, 1-row of Simpson SDS25600 Screws @ 24.0" o.c. in each member
WB 4x2, 1-row of Simpson SDS25600 Screws @ 9.0" o.c. in each member
** Use additional fasteners of the same type (u.n.o.) within +/-12" of the location(s) indicated (except where approved hangers are used with fasteners that transfer the load to all plies):

TC:6-07-12, 3

Cluster fasteners shall be evenly distributed for stacked members.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/643(-0.42)	18-20
Vert DL	L/120	L/999(-0.20)	18-20
Vert CR	L/240	L/437(-0.61)	18-20
Horz LL	0.75in	(0.05)	@Jt26
Horz CR	1.25in	(0.07)	@Jt26

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

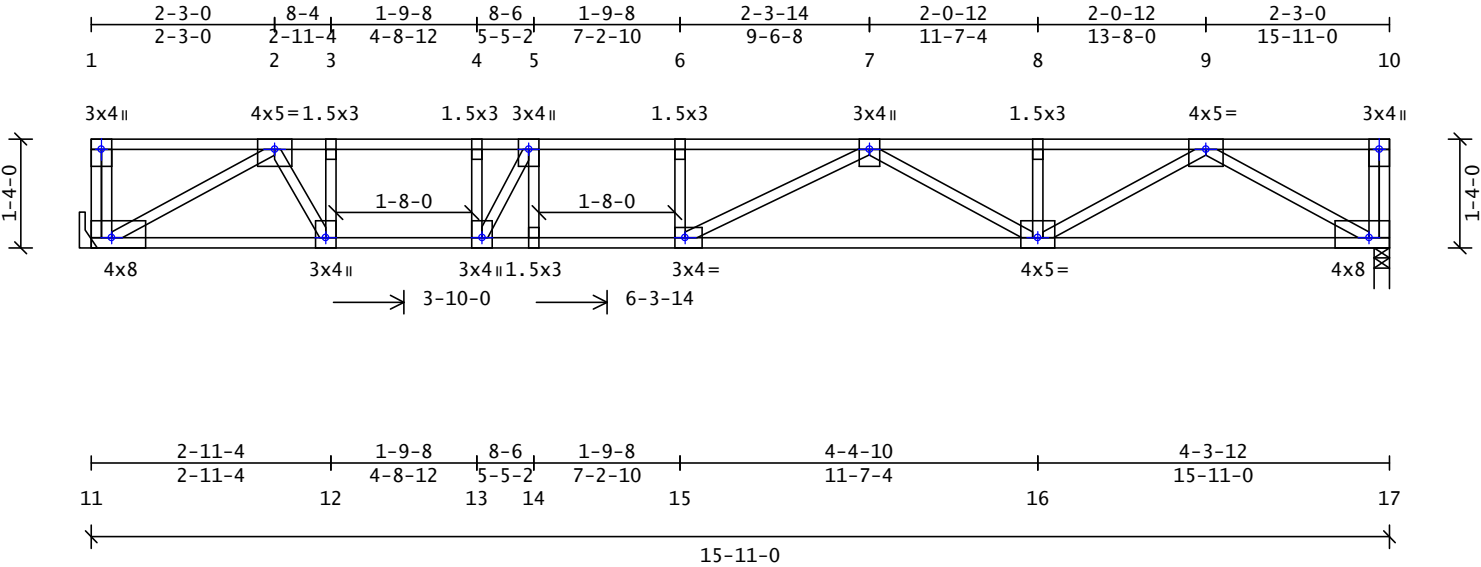
Plate offsets (X, Y):

(None unless indicated below)
Jnt1(00-04,0), Jnt5(-02-00,0),
Jnt10(-01-00,-00-08), Jnt16(01-12,0),
Jnt18(01-00,0), Jnt20(-00-08,01-00),
Jnt22(01-00,00-08), Jnt24(02-08,0),
Jnt26(-01-00,0)

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Truss Weight = 77.2 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	1650/1.5
Webs	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	2 - 3	0.74
Max CSI in BC PANEL	12 - 13	0.85
Max CSI in Web	2 - 12	0.22

...	Mem...	Ten	Comp	.CSI.
TC	OH-1	0	0	0.00
	1-2	0	0	0.16
	2-3	0	1304	0.74
	3-4	0	1304	0.74
	4-5	0	1304	0.66
	5-6	0	1793	0.49
	6-7	0	1793	0.43
	7-8	0	1484	0.21
	8-9	0	1484	0.15
	9-10	0	0	0.13
	10-OH	0	0	0.00
BC	OH-11	0	0	0.00
	11-12	934	0	0.48
	12-13	1304	0	0.85
	13-14	1793	0	0.81
	14-15	1793	0	0.58
	15-16	1798	0	0.52
	16-17	892	0	0.21
	17-OH	0	0	0.00
Web	1-11	0	73	0.00
	2-11	0	1075	0.19
	2-12	792	0	0.22
	3-12	0	503	0.07
	4-13	486	0	0.13
	5-13	0	1055	0.16
	5-14	408	0	0.11
	6-15	0	79	0.01
	7-15	226	140	0.06
	7-16	0	364	0.06
	8-16	0	117	0.01
	9-16	685	0	0.19
	9-17	0	1026	0.18
	10-17	0	65	0.00

Reaction Summary

Jnt	--X-Loc	React	-Up-	--Width-	-Reqd	-Mat	PSI
11	01-08	583	0	01-08	HGR	SPF	425
17	15-09-08	583	0	02-04	01-08	SPF	425

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.
This truss is not symmetric - proper orientation is critical.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/786(-0.24)	15-16
Vert DL	L/120	L/999(-0.10)	15-16
Vert CR	L/240	L/560(-0.34)	15-16
Horz LL	0.75in	(0.02) @Jt17	
Horz CR	1.25in	(0.03) @Jt17	

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

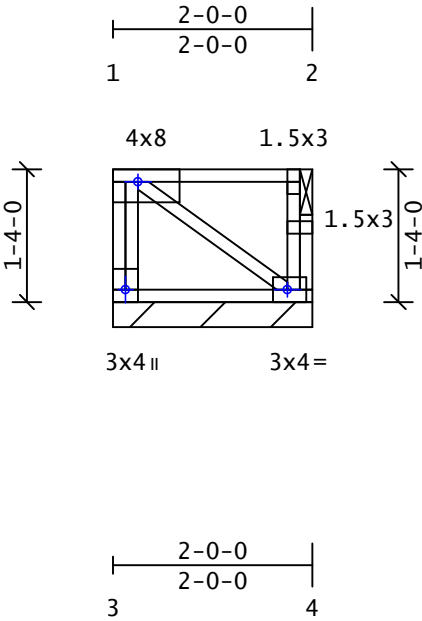
(None unless indicated below)
Jnt1(0,-00-08), Jnt2(0,-00-08),
Jnt5(0,-00-08), Jnt7(0,-00-08),
Jnt9(0,-00-08), Jnt10(0,-00-08),
Jnt11(01-00,00-08), Jnt12(0,00-08),
Jnt13(0,00-08), Jnt15(00-08,0),
Jnt16(0,00-08), Jnt17(-01-00,00-08)

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Truss Weight = 15.5 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	1 - 2	0.11
Max CSI in BC PANEL	3 - 4	0.01
Max CSI in Web	4 - 2	0.01

...Mem...	Ten	Comp	.CSI.
TC 1- 2	0	0	0.11
BC 3- 4	0	0	0.01
Web 1- 3	0	64	0.00
1- 4	0	0	0.00
2- 4	0	60	0.01

Reaction Summary

Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) ----
Jnt-Jnt React -Up- --Width-
3- 4 69 0 2-00-00

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/999(0.00)	3- 3
Vert DL	L/120	L/999(-0.00)	3- 4
Vert CR	L/240	L/999(-0.00)	3- 4
Horz LL	0.75in	(0.00)	@Jt 3
Horz CR	1.25in	(0.00)	@Jt 3

Bracing Data Summary

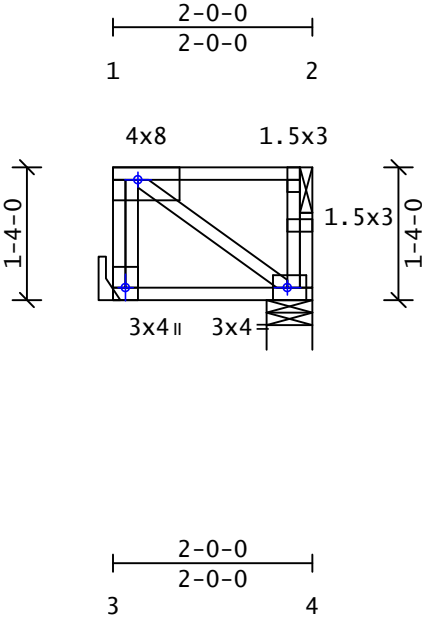
-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(01-00,-00-08), Jnt3(0,00-08),
Jnt4(00-04,0)

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Truss Weight = 15.5 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	1	-	2	0.11
Max CSI in BC PANEL	3	-	4	0.01
Max CSI in Web	4	-	2	0.01

...Mem...	Ten	Comp	.CSI.
TC OH- 1	0	0	0.00
1- 2	0	0	0.11
2-OH	0	0	0.00
BC OH- 3	0	0	0.00
3- 4	0	0	0.01
4-OH	0	0	0.00
Web 1- 3	0	64	0.00
1- 4	0	0	0.00
2- 4	0	60	0.01

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
3	01-08	71	0	01-08	HGR	SPF	425
4	1-09-12	67	0	05-08	01-08	SPF	425

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/999(0.00)	3- 3
Vert DL	L/120	L/999(-0.00)	3- 4
Vert CR	L/240	L/999(-0.00)	3- 4
Horz LL	0.75in	(0.00) @Jt 4	
Horz CR	1.25in	(0.00) @Jt 4	

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

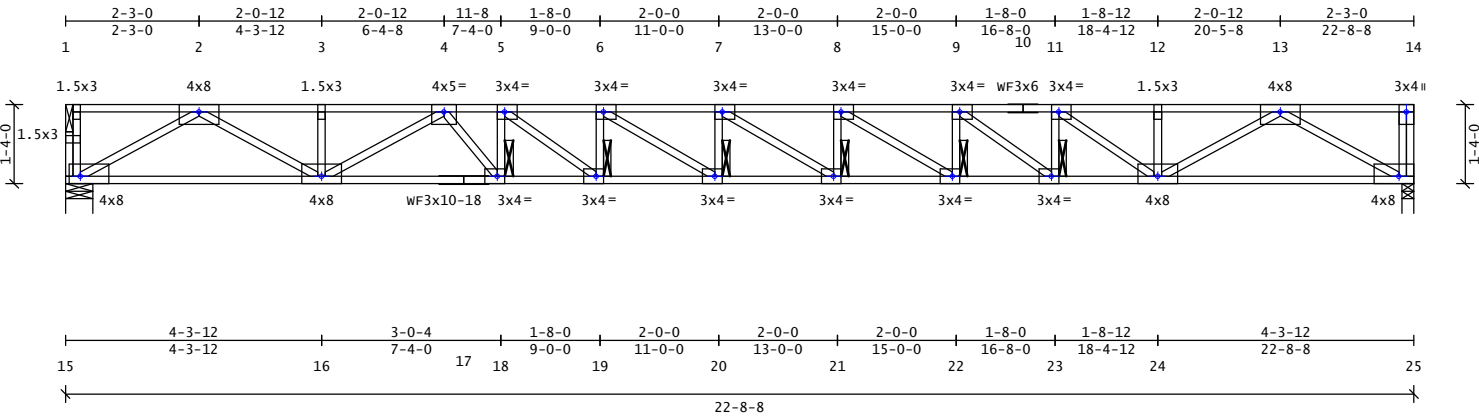
(None unless indicated below)
Jnt1(01-00,-00-08), Jnt3(0,00-08),
Jnt4(00-04,0)

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Truss Weight = 123.0 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
	4x2	SPF	1650/1.5 17-25
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

...	Mem...	Ten	Comp	.CSI.
	8-21	57	0	0.01
	8-22	0	372	0.06
	9-22	206	0	0.06
	9-23	0	560	0.09
	11-23	332	0	0.09
	11-24	0	770	0.12
	12-24	0	120	0.01
	13-24	1167	0	0.33
	13-25	0	1518	0.27
	14-25	0	66	0.00

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/660(-0.41)	20-21
Vert DL	L/120	L/999(-0.15)	20-21
Vert CR	L/240	L/480(-0.56)	20-21
Horz LL	0.75in	(0.07)	@Jt25
Horz CR	1.25in	(0.09)	@Jt25

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Member Forces Summary

Max CSI in TC PANEL	6 - 7	0.42
Max CSI in BC PANEL	16 - 17	0.83
Max CSI in Web	2 - 16	0.33

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
15	02-04	826	0	05-08	01-08	SPF	425
25	22-07-00	830	0	02-06	01-08	SPF	425

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Plate offsets (X, Y):

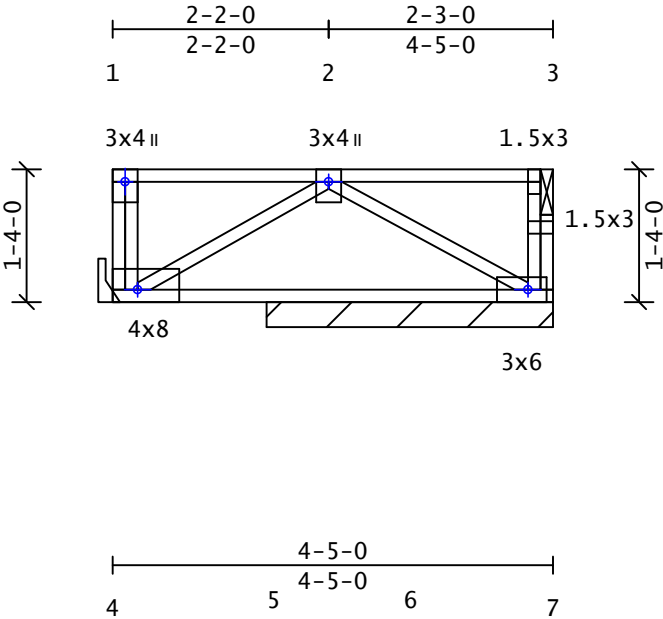
(None unless indicated below)
Jnt2(0,-00-08), Jnt4(0,-00-08),
Jnt5(00-08,0), Jnt6(00-08,0),
Jnt7(00-08,0), Jnt8(00-08,0),
Jnt9(00-08,0), Jnt11(00-08,0),
Jnt13(0,-00-08), Jnt14(0,-00-08),
Jnt15(01-12,00-08), Jnt16(0,00-08),
Jnt18(-00-08,0), Jnt19(-00-08,0),
Jnt20(-00-08,0), Jnt21(-00-08,0),
Jnt22(-00-08,0), Jnt23(-00-08,0),
Jnt24(0,00-08), Jnt25(-01-00,00-08)

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Truss Weight = 24.8 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC 4x2 SPF #1/#2
BC 4x2 SPF #1/#2
Webs 4x2 SPF #1/#2
RB 4x2 SPF #1/#2

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0.14
Max CSI in BC PANEL 4 - 5 0.04
Max CSI in Web 4 - 2 0.03

...Mem... Ten Comp .CSI.
TC OH- 1 0 0 0.00
1- 2 0 0 0.14
2- 3 0 0 0.14
3-OH 0 0 0.00
BC OH- 4 0 0 0.00
4- 5 143 0 0.04
5- 6 143 0 0.04
6- 7 143 0 0.03
7-OH 0 0 0.00
Web 1- 4 0 60 0.00
2- 4 0 166 0.03
2- 7 0 166 0.03
3- 7 0 56 0.01

Reaction Summary

-----Reaction Summary(Lbs)-----
Jnt --X-Loc- React -Up- --Width- -Reqd -Mat PSI
4 01-08 149 0 01-08 HGR SPF 425
Reactions not shown: down < 400 and up < 150
--- Reaction Summary (plf) ---
Jnt-Jnt React -Up- --Width-
5- 7 57 0 2-10-08

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan Limit Actual(in) Location
Vert LL L/360 L/999(-0.00) 4- 7
Vert DL L/120 L/999(-0.00) 4- 7
Vert CR L/240 L/999(-0.00) 4- 7
Horz LL 0.75in (0.00) @Jt 7
Horz CR 1.25in (0.00) @Jt 7

Bracing Data Summary

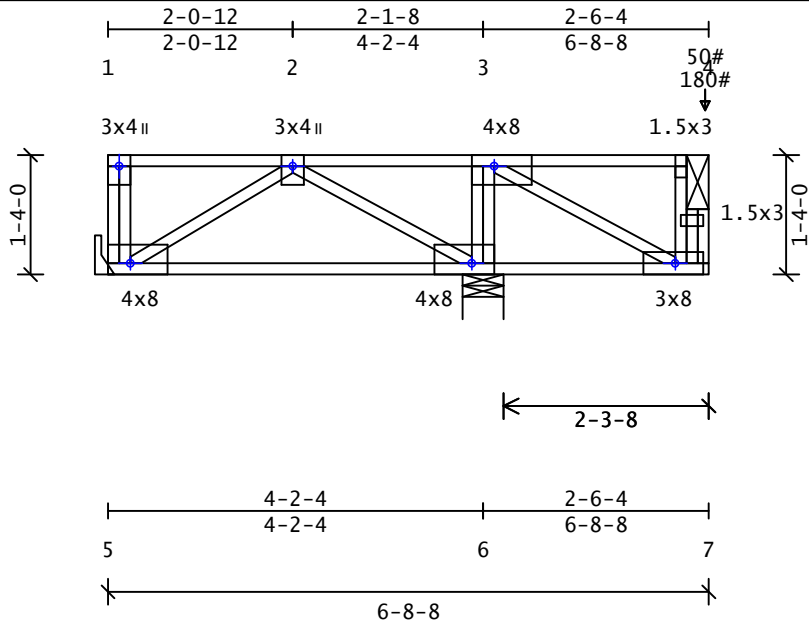
-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,-00-08), Jnt2(0,-00-08),
Jnt4(01-00,00-08), Jnt7(-00-12,0)

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Truss Weight = 40.3 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: No
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	2 - 3	0.32
Max CSI in BC PANEL	5 - 6	0.07
Max CSI in Web	7 - 4	0.17

...Mem...	Ten	Comp	.CSI.
TC OH- 1	0	0	0.00
1- 2	0	0	0.14
2- 3	532	0	0.32
3- 4	38	0	0.18
BC OH- 5	0	0	0.00
5- 6	0	240	0.07
6- 7	0	532	0.06
7- 7	0	6	0.02
7-OH	0	0	0.00
Web 1- 5	0	60	0.00
2- 5	284	0	0.08
2- 6	0	453	0.08
3- 6	0	432	0.03
3- 7	562	0	0.16
4- 8	0	60	0.17
7- 8	0	101	0.10
RPT 7- 7	0	29	0.01

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
5	01-08	23	124	01-08	HGR	SPF	425
6	4-02-04	684	0	05-08	01-08	SPF	453

Loads Summary

See Loadcase Report for loading combinations and additional details.
Loads based on maximum and minimum reactions from tie-in spans

Mbr	Max	Min	Location	Dir	Description
TC	180	108	6-08-00	Vert	Wall above @ 90 Deg
TC	50	-8	6-08-00	Vert	Roof above @ 90 Deg

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/999(-0.00)	5- 6
Vert DL	L/120	L/999(-0.01)	5- 6
Vert CR	L/240	L/999(-0.02)	5- 6
Horz LL	0.75in	(0.00)	@Jt 6
Horz CR	1.25in	(0.00)	@Jt 6
Cant CR	2L/240	2L/999(-0.02)	6- 7

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

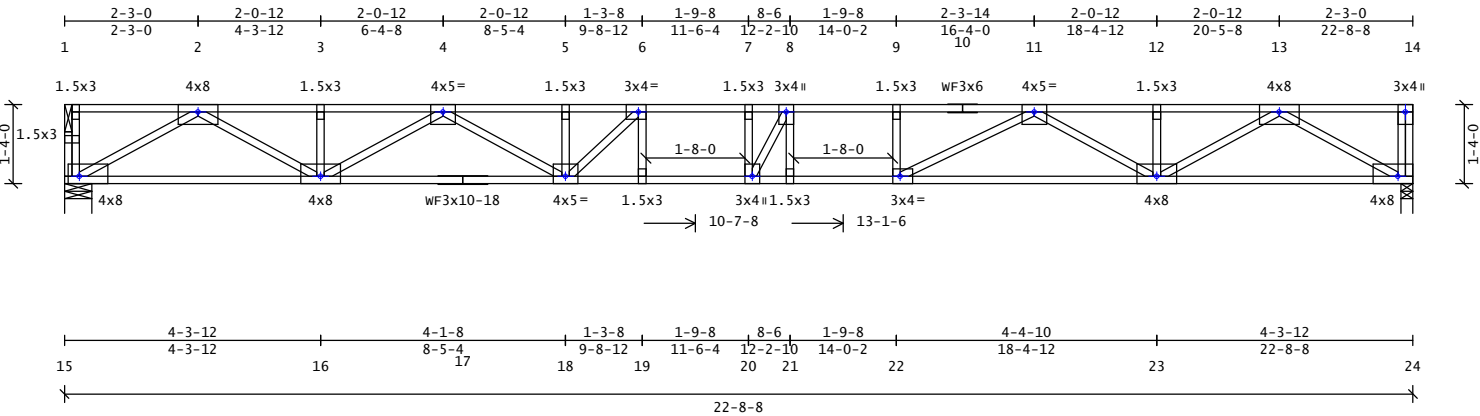
Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,-00-08), Jnt2(0,-00-08),
Jnt3(01-00,-00-08), Jnt5(01-00,00-08),
Jnt6(-01-00,00-08), Jnt7(-00-04,0)

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Truss Weight = 115.3 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	1650/1.5
	4x2	SPF	#1/#2 10-14
BC	4x2	SPF	#1/#2
	4x2	SPF	1650/1.5 17-24
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

...	Mem...	Ten	Comp	.CSI.
	9-22	0	239	0.03
	11-22	811	0	0.23
	11-23	0	859	0.15
	12-23	0	136	0.02
	13-23	1171	0	0.33
	13-24	0	1514	0.27
	14-24	0	66	0.00

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/597(-0.45)	20-21
Vert DL	L/120	L/999(-0.17)	20-21
Vert CR	L/240	L/435(-0.62)	20-21
Horz LL	0.75in	(0.06) @Jt24	
Horz CR	1.25in	(0.09) @Jt24	

Member Forces Summary

Max CSI in TC PANEL	6 - 7	0.87
Max CSI in BC PANEL	21 - 22	0.97
Max CSI in Web	2 - 16	0.33

Reaction Summary

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
15	02-04	826	0	05-08	01-08	SPF	425
24	22-07-00	830	0	02-06	01-08	SPF	425

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

...	Mem...	Ten	Comp	.CSI.
TC	OH- 1	0	0	0.00
	1- 2	0	0	0.09
	2- 3	0	2306	0.13
	3- 4	0	2306	0.13
	4- 5	0	3539	0.26
	5- 6	0	3539	0.31
	6- 7	0	3761	0.87
	7- 8	0	3761	0.47
	8- 9	0	3675	0.55
	9-10	0	3675	0.38
	10-11	0	3675	0.35
	11-12	0	2327	0.24
	12-13	0	2327	0.20
	13-14	0	0	0.13
	14-OH	0	0	0.00
BC	OH-15	0	0	0.00
	15-16	1285	0	0.39
	16-17	3048	0	0.86
	17-18	3048	0	0.57
	18-19	3761	0	0.70
	19-20	3761	0	0.80
	20-21	3675	0	0.87
	21-22	3675	0	0.97
	22-23	3068	0	0.63
	23-24	1316	0	0.29
	24-OH	0	0	0.00
Web	1-15	0	60	0.01
	2-15	0	1489	0.26
	2-16	1182	0	0.33
	3-16	0	132	0.02
	4-16	0	860	0.15
	4-18	568	0	0.16
	5-18	59	143	0.02
	6-18	65	540	0.08
	6-19	146	69	0.04
	7-20	215	339	0.06
	8-20	688	482	0.19
	8-21	170	281	0.05

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

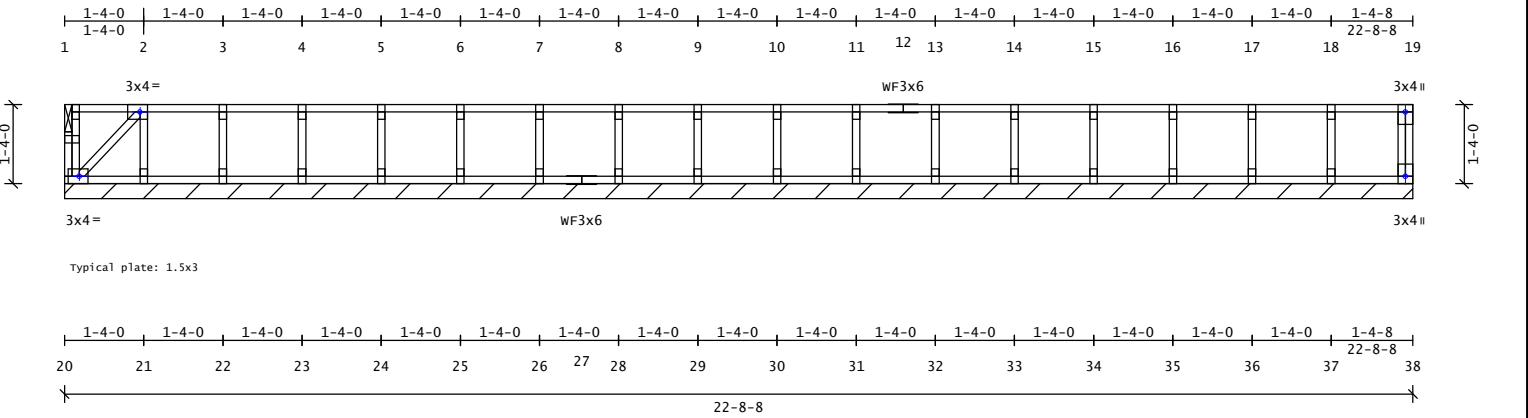
Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Plate offsets (X, Y):

(None unless indicated below)
Jnt2(0,-00-08), Jnt4(0,-00-08),
Jnt6(-00-08,0), Jnt8(0,-00-08),
Jnt11(0,-00-08), Jnt13(0,-00-08),
Jnt14(0,-00-08), Jnt15(01-12,00-08),
Jnt16(0,00-08), Jnt18(0,00-08),
Jnt20(0,00-08), Jnt22(00-08,0),
Jnt23(0,00-08), Jnt24(-01-00,00-08)

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Truss Weight = 91.1 lb

Code/Design: IBC-2021/TPI-2014						-----Additional Design Checks-----					
PSF	Live	Dead		Dur	Factors	10 psf Non-Concurrent BCLL:		No			
TC	40.0	10.0		Live	Wind	Snow	20 psf BC Limited Storage:		No		
BC	0.0	5.0	Lum	1.00	N/A	N/A	200 lb BC Accessible Ceiling:		No		
Total	55.0		Plt	1.00	N/A	N/A	300 lb TC Maintenance Load:		No		
Spacing: 1-04-00 o.c. Plies: 1						2000 lb TC Safe Load:		No			
Repetitive Member Increase: Yes						Unbalanced TCCLL:		No			
Green Lumber: No Wet Service: No											
Fab Tolerance: 10% Creep (Kcr) = 2.0											
OH Soffit Load: 2.0 psf											

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	1	-	2	0.04
Max CSI in BC PANEL	20	-	20	0.00
Max CSI in Web	21	-	2	0.01

...	Mem...	Ten	Comp	.CSI.
TC	OH- 1	0	0	0.00
	1- 2	0	0	0.04
	2- 3	0	0	0.04
	3- 4	0	0	0.04
	4- 5	0	0	0.04
	5- 6	0	0	0.04
	6- 7	0	0	0.04
	7- 8	0	0	0.04
	8- 9	0	0	0.04
	9-10	0	0	0.04
	10-11	0	0	0.04
	11-12	0	0	0.04
	12-13	0	0	0.04
	13-14	0	0	0.04
	14-15	0	0	0.04
	15-16	0	0	0.04
	16-17	0	0	0.04
	17-18	0	0	0.04
	18-19	0	0	0.04
	19-OH	0	0	0.00
BC	OH-20	0	0	0.00
	20-21	0	0	0.00
	21-22	0	0	0.00
	22-23	0	0	0.00
	23-24	0	0	0.00
	24-25	0	0	0.00
	25-26	0	0	0.00
	26-27	0	0	0.00
	27-28	0	0	0.00
	28-29	0	0	0.00
	29-30	0	0	0.00
	30-31	0	0	0.00
	31-32	0	0	0.00
	32-33	0	0	0.00
	33-34	0	0	0.00
	34-35	0	0	0.00
	35-36	0	0	0.00
	36-37	0	0	0.00
	37-38	0	0	0.00
	38-OH	0	0	0.00

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/999(-0.00)	36-37
Vert DL	L/120	L/999(-0.00)	37-38
Vert CR	L/240	L/999(-0.00)	37-38
Horz LL	0.75in	(0.00)	@Jt20
Horz CR	1.25in	(0.00)	@Jt20

Bracing Data Summary

-----Bracing Data-----

Chords; continuous except where shown

Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)

Jnt2(-00-08,0), Jnt19(0,-00-08),

Jnt20(-00-04,0), Jnt38(0,00-08)

Reaction Summary

Reactions not shown: down < 400 and up < 150

---- Reaction Summary (plf) ----

Jnt-Jnt	React	-Up-	--Width-
20- 38	72	0	22-08-08

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

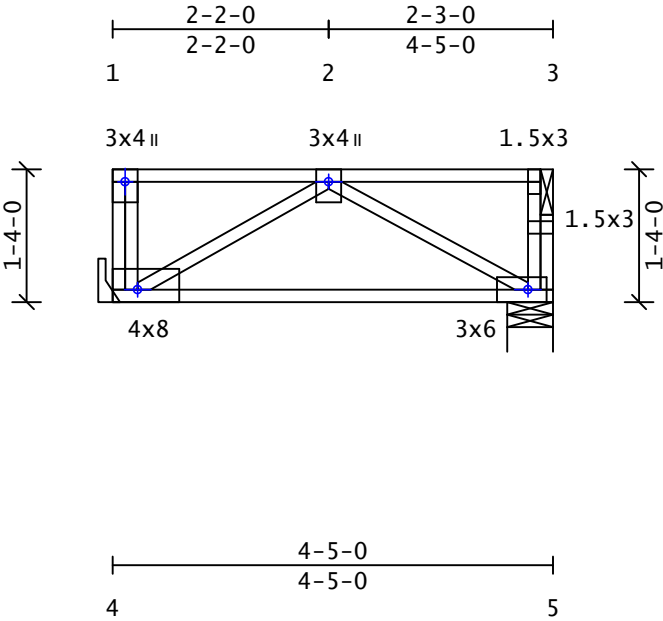
Gable webs are attached with min. 1x3 20 ga. plates. The max. rake overhang = 1/2 the truss spacing. If this truss is exposed to wind loads perpendicular to the plane of the truss, it must be braced according to a standard detail matching the wind criteria shown, or according to the Construction Documents and/or BCSI - B3.

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees

When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

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Truss Weight = 24.8 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 40.0 10.0 Live Wind Snow
BC 0.0 5.0 Lum 1.00 N/A N/A
Total 55.0 Plt 1.00 N/A N/A
Spacing: 1-04-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 10% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

-----Additional Design Checks-----
10 psf Non-Concurrent BCLL: No
20 psf BC Limited Storage: No
200 lb BC Accessible Ceiling: No
300 lb TC Maintenance Load: No
2000 lb TC Safe Load: No
Unbalanced TCLL: No

Material Summary

TC	4x2	SPF	#1/#2
BC	4x2	SPF	#1/#2
Webs	4x2	SPF	#1/#2
RB	4x2	SPF	#1/#2

Member Forces Summary

Max CSI in TC PANEL	1 - 2	0.14
Max CSI in BC PANEL	4 - 5	0.11
Max CSI in Web	4 - 2	0.03

...Mem...	Ten	Comp	.CSI.
TC OH- 1	0	0	0.00
1- 2	0	0	0.14
2- 3	0	0	0.14
3-OH	0	0	0.00
BC OH- 4	0	0	0.00
4- 5	143	0	0.11
5-OH	0	0	0.00
Web 1- 4	0	60	0.00
2- 4	0	166	0.03
2- 5	0	166	0.03
3- 5	0	56	0.01

Reaction Summary

-----Reaction Summary(Lbs)-----							
Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
4	01-08	159	0	01-08	HGR	SPF	425
5	4-02-12	155	0	05-08	01-08	SPF	425

Loads Summary

See Loadcase Report for loading combinations and additional details.

Notes

Plates designed for Cq at 0.90 and Rotational Tolerance of 10.0 degrees
When strongbacks are required, see TPI-1, BCSI-b7 or detail FRM-0002.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/360	L/999(0.00)	4- 4
Vert DL	L/120	L/999(-0.03)	4- 5
Vert CR	L/240	L/999(-0.03)	4- 5
Horz LL	0.75in	(0.00) @Jt 5	
Horz CR	1.25in	(0.00) @Jt 5	

Bracing Data Summary

-----Bracing Data-----
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)
Jnt1(0,-00-08), Jnt2(0,-00-08),
Jnt4(01-00,00-08), Jnt5(-00-12,0)

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "Important Information & General Notes" page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate.

Component Solutions
Truss Studio V
2023.1.0.84