Mr. John Evans
Smartlink, LLC
1997 Annapolis Exch.Pkwy #200
Annapolis, MD 21401
(410) 263-5465

City of Puyallup
Building
ACCEPTED
JMontgomery
03/15/2022
3:21:54 PM

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Date: December 13, 2021

Subject: **Equipment Platform Modification Analysis Report**

AT&T Designation:
Site USID: 75153-A
Site FA: 10029581
Site Name: GOOD SAMARITAN

Turf Vendor Number: WA6659

Site Address: 407 14th Avenue Southeast, Puyallup, Pierce County, WA 98371
Site Coordinates: Latitude: 47° 10' 46.2" N, Longitude: 122° 17' 26.009" W

Tower Description: 68'1" ft – Building
Mount Description: Rooftop Platform

Morrison Hershfield Project Number: SML-052R7 / 2000479

Dear Mr. Evans,

Morrison Hershfield is pleased to submit this "**Equipment Platform Modification Analysis Report**" to determine the structural integrity of existing equipment mounting system for the existing equipment on the above-mentioned supporting building structure.

This analysis has been performed in accordance with the 2018 IBC based upon an ultimate 3-second gust wind speed of 108 mph. Exposure Category C with a maximum topographic factor, K_{zt}, of 1.0 and Risk Category IV were used in this analysis.

Our analysis demonstrates that the existing equipment platform **IS in conformance** with the requirements of the above noted standards under the effects of loading described, **provided the attached modifications are completed.**

Summary of Results		
Mount Components	***84.3%***	***Sufficient***

We at *Morrison Hershfield* appreciate the opportunity of providing our continuing professional services to you and Smartlink, LLC. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:
Morrison Hershfield

SHAWN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
Exp: 6/30/2022

Digitally signed by Shawn Stevenson
Date: 2021.12.13 15:27:08-08'00'

Shawn W. Stevenson, S.E. (WA License No. 42002)
Senior Engineer

City of Puyallup
Development & Permitting Services
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PRCA20220294

INTRODUCTION

This is a 68'1" ft tall building with steel roof framing. Existing equipment are located on the roof top mounted platform, at the above building site.

ANALYSIS CRITERIA

The following design parameters have been used in our analysis:

Design Standard:	2018 International Building Code ASCE 7-16, Minimum Design Loads for Buildings and Other Structures AISC 325-17, Manual of Steel Construction ACI 318-19, Building Code Requirements for Structural Concrete
Design Wind Speed:	108 mph (Ultimate 3-sec gust)
Risk Category:	IV
Exposure Category:	C
Topographic Factor, K_{zt}:	1.0
Seismic S_S:	1.267
Seismic S_1:	0.436

The mount analysis was based on the following documentation:

Table 1 – Documentation

Document	Description	Source
Load Mapping Report	Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 10/18/2019	MH
Previous Mount Analysis	Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 11/08/2018	MH
Previous Platform Analysis	Smartlink, Site Name: GOOD SAMARITAN, dated 10/28/2015	Client
Previous Platform Analysis	Smartlink, Site Name: GOOD SAMARITAN, dated 02/09/2016	Client
As Built Drawings	Smartlink, Site Name: GOOD SAMARITAN, dated 09/09/2016	Client
Roof Framing Plan	Martens Consulting Engineers, Site Name: GOOD SAMARITAN HOSPITAL, dated 10/15/1999	Client
Construction Drawings	Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 12/08/2021	MH
Modification Drawings	**Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 12/13/2021**	**MH**

1.0 ANALYSIS LOADING

The existing equipment considered in this analysis were provided by the client and are noted in Table 2.

Table 2 – Equipment Loads

Mounting Level (ft)	Final Equipment Description	Note
67.5	(1) Argus TE43 Cabinet	1
	(2) Purcell FLX16WS Cabinet w/ Proposed (1) 5G Growth kit to (E) FSM4	
	(1) Argus TE41 Cabinet	
	(1) UMTS Cabinet	
	(1) Transformer	
	(1) Hoffman Box	
	(1) Surge Suppressor Box	
	(2) GPS Antenna	
	(1) AC Panel	

Note: Any discrepancies in loading from this listing should be brought to Morrison Hershfield's attention; results of this assessment cannot be used if the loading is different.

1. *Final equipment configuration.*

ANALYSIS PROCEDURE

RISA-3D (version 19.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

2.0 ASSUMPTIONS

1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and/or manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected members unless otherwise specified in this report.
4) This analysis assumes the screen wall system and its connection to the building structure to have been designed to meet or exceed the current wind loading requirements.
5) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
6) Steel grades have been assumed as follows, unless noted otherwise:
   Channel, Solid Round, Angle, Plate — ASTM A36 (GR 36)
   HSS (Rectangular) — ASTM 500 (GR B-46)
   Pipe — ASTM A53 (GR 35)
7) The existing platform geometry and member sizes are taken from the previous platform structural analysis by Smartlink, Site Name: GOOD SAMARITAN, dated 02/09/2016 and is considered to be correct.
8) **The replaced beam details are considered from modification drawings prepared by Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 12/13/2021, and are considered to be correct.**
9) The equipment loading is taken from load mapping report prepared by Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 10/18/2019, and from the construction drawings prepared by Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 12/08/2021 and are considered to be correct.

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield should be notified to determine the effect on the structural integrity of the antenna mounting system.

3.0 SUMMARY OF RESULTS

The following tables summarize the location and utilized percentage of available capacity for each component of the mount. With consideration to the appropriate safety factors, 100% represents the full capacity of the component. Percentages below 100% indicate available capacity and conformance of the component. Percentages between 100% and 105% indicate an acceptable capacity. Percentages above 105% indicate an overstressed situation requiring structural modification to ensure conformance with the applicable codes and standards.

A full seismic analysis has been performed in accordance with ASCE 7-16. However, the results due to seismic analysis are not controlling; the analysis results due to wind loading are controlling for the overall capacity.

Based on our analysis results, the existing roof mounted platform **IS within capacity** to support the loads under the current loading scenario.

Mount Component Stresses vs. Capacity (Roof top Platform)

Component	Critical Member	% Capacity	Pass / Fail
Platform Support	M25	84.3	Pass
Platform Perimeter Beam (N and S)	M21	15.6	Pass
Platform Perimeter Beam (E and W)	M23	1.6	Pass
Secondary Framing	M3	27.8	Pass
Support Framing	M41	3.5	Pass

Structure Rating (max from all components) =	**84.3%**

4.0 RECOMMENDATIONS

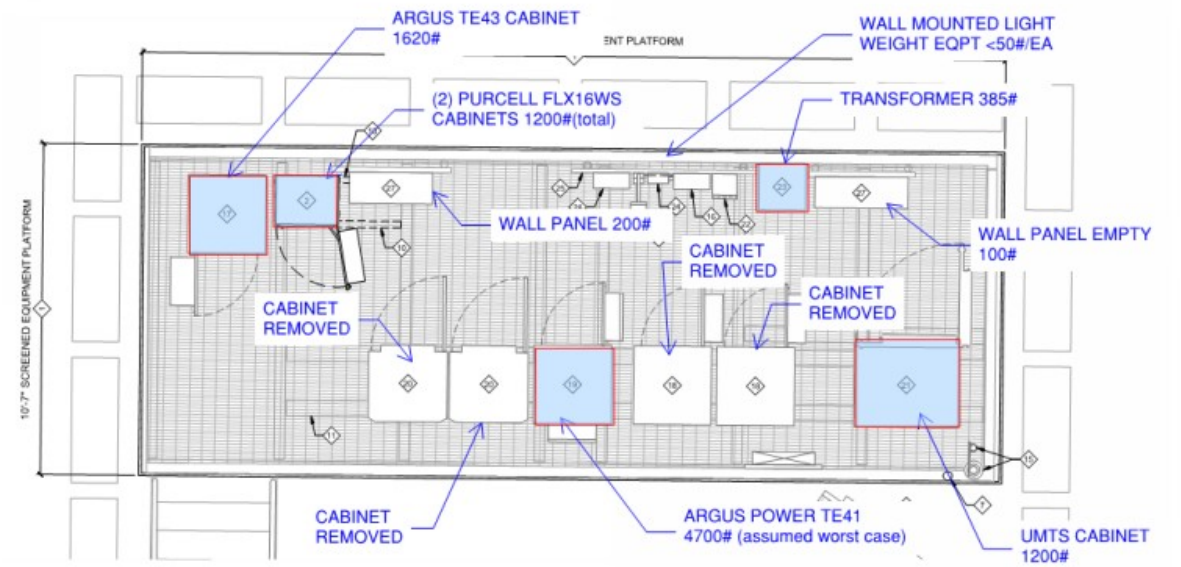
The existing platform has sufficient capacity to support the proposed loading configuration once the proposed modifications are installed.

ATTACHMENTS: Software Input Calculations, Wire Frame and Rendered Models, Software Analysis Output, ASCE Hazard Tool Report and Modification Drawings

Stealth Enclosed Platform:

Weight of Stealth Screen Enclosure = **28 plf (from previous analysis)**

<u>Weight of Equipment</u>:



<u>AT&T PLATFORM MAP</u>

WIND LOAD CALCULATIONS ON APPURTENANCES AND MOUNTS:

Code Search

Code: International Building Code 2018

Occupancy:

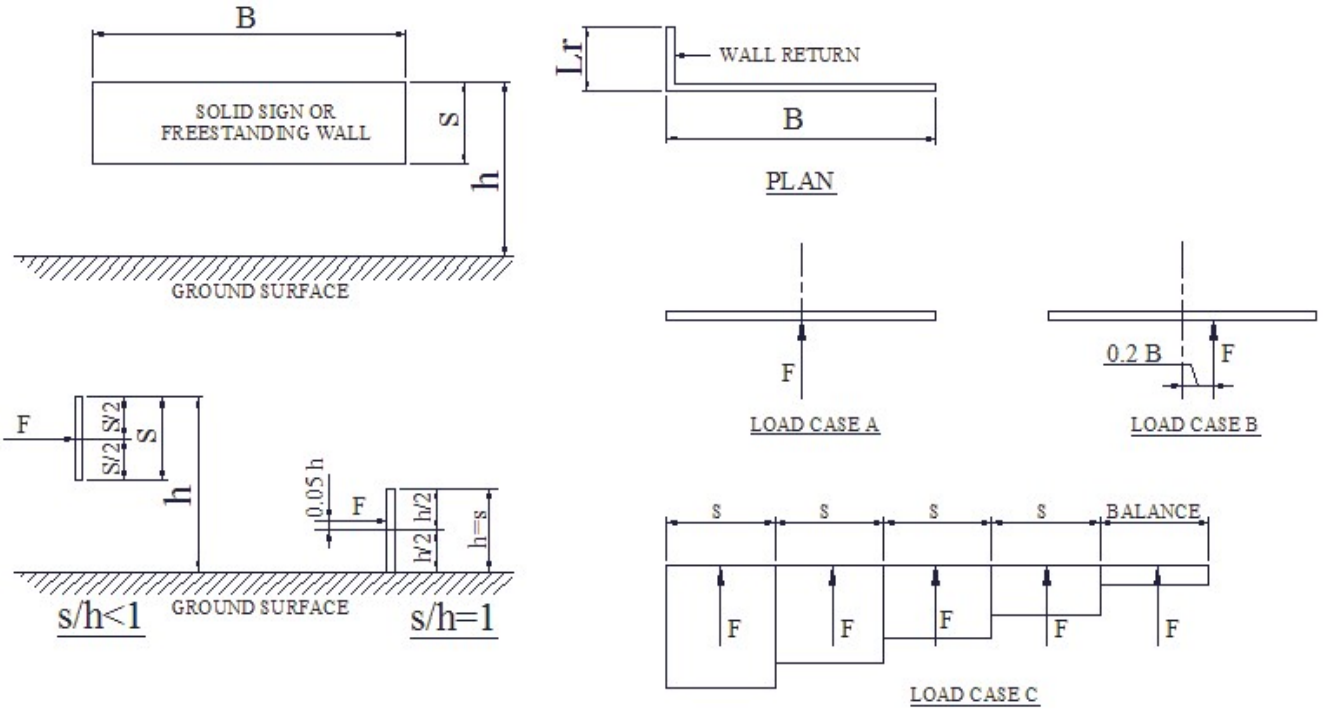
Occupancy Group = B Business

Risk Category & Importance Factors:

Risk Category = Category IV : Buildings and other structures designated as essential facilities

Wind Loads - Other Structures: ASCE 7- 16 Ultimate Wind Pressures

Wind Factor =	1.00		
Gust Effect Factor (G) =	0.85	Ultimate Wind Speed =	108 mph
Kzt =	1.00	Exposure =	C



Front:

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		s/h =	0.08		Case A & B	
Dist to sign top (h)	73.5 ft	B/s =	4.61		C_f =	1.85
Height (s)	6.0 ft	Lr/s =	0.00	F = qz G Cf As =		**53.7 As**
Width (B)	27.7 ft	Kz =	1.186		As =	166.2 sf
Wall Return (Lr) =		qz =	34.1 psf		F =	8921 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used				
Percent of open area		Open reduction			CaseC	
to gross area	0.0%	factor =	1.00	Horiz dist from windward edge	Cf	F=qzGCfAs (psf)
		Case C reduction factors		0 to s	3.02	87.7 **As**
		Factor if s/h>0.8 =	1.00	s to 2s	1.96	56.9 **As**
		Wall return factor		2s to 3s	1.39	40.4 **As**
		for Cf at 0 to s =	1.00	3s to 10s	1.07	31.0 **As**

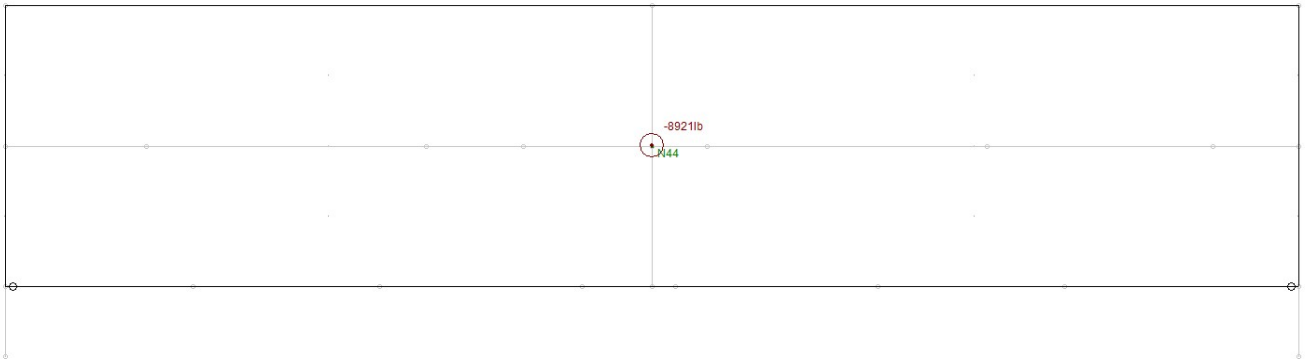
Side:

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		s/h =	0.08		Case A & B	
Dist to sign top (h)	73.5 ft	B/s =	1.75		C_f =	1.80
Height (s)	6.0 ft	Lr/s =	0.00	F = qz G Cf As =		**52.2 As**
Width (B)	10.5 ft	Kz =	1.186		As =	63.0 sf
Wall Return (Lr) =		qz =	34.1 psf		F =	3290 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used				
Percent of open area		Open reduction			CaseC	
to gross area	0.0%	factor =	1.00	Horiz dist from windward edge	Cf	F=qzGCfAs (psf)
		Case C reduction factors		0 to s	2.25	65.3 **As**
		Factor if s/h>0.8 =	1.00	s to 2s	1.50	43.5 **As**
		Wall return factor				
		for Cf at 0 to s =	1.00			

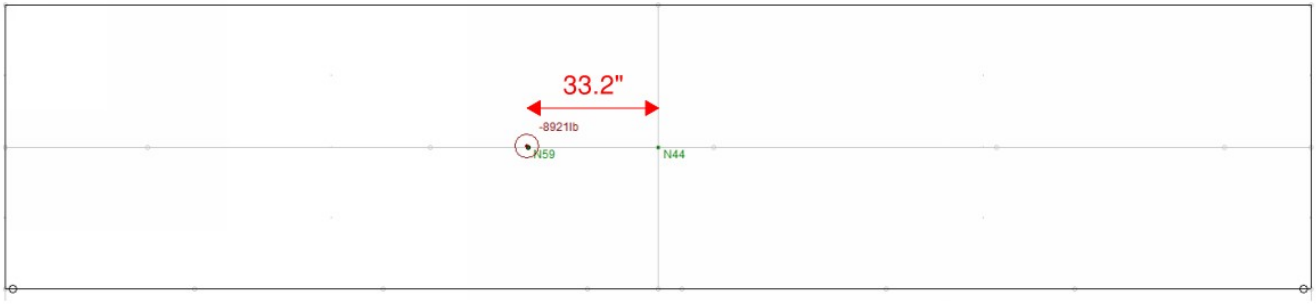
Front Face:

Load Case A: Applying the wind force on the front face 8921 lb directly at the centre

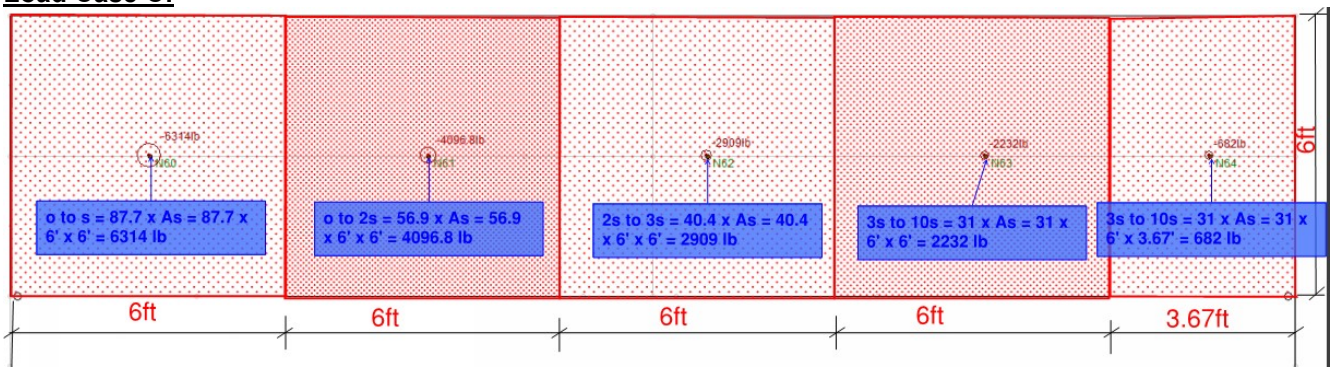


Load Case B:

Applying the wind force calculated on the front face 8921 lb at the 0.2 x length of the face = 0.2 x 166 = 33.2 in

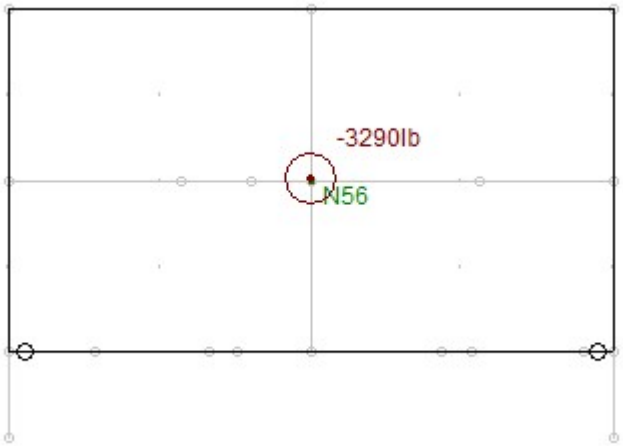


Load Case C:



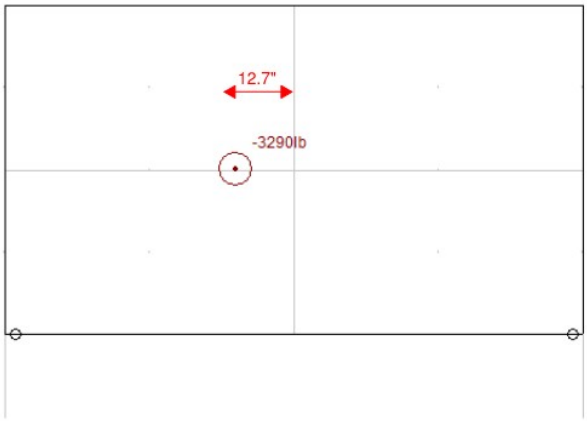
Side Face:

Load Case A: Applying the wind force on the side face 3290 lb directly at the centre

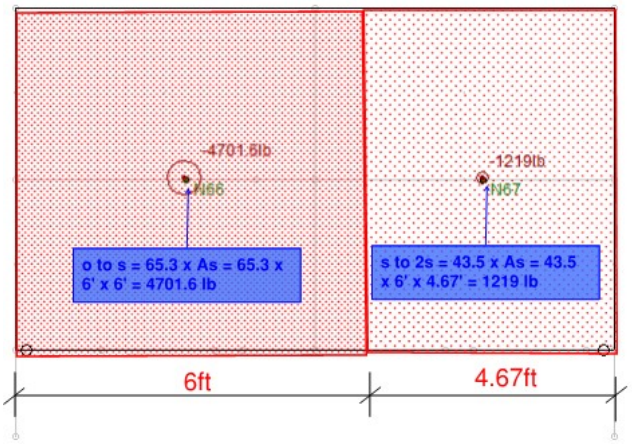


Load Case B:

Applying the wind force calculated on the front face 3290 lb at the 0.2 x length of the face = 0.2 x 63.5 = 12.7 in



Load Case C:



SEISMIC LOAD CALCULATIONS ON APPURTENANCES AND MOUNTS:

Seismic Loads: IBC 2018 Strength Level Forces

Risk Category :	IV						
Importance Factor (I) :	1.50						
Site Class :	D	Class D					
Ss (0.2 sec) =	126.70 %g						
S1 (1.0 sec) =	43.60 %g						
Fa =	1.000	Sms =	1.267	S_{DS} =	0.845	Design Category =	D
Fv =	1.864	Sm1 =	0.813	S_{D1} =	0.542	Design Category =	D

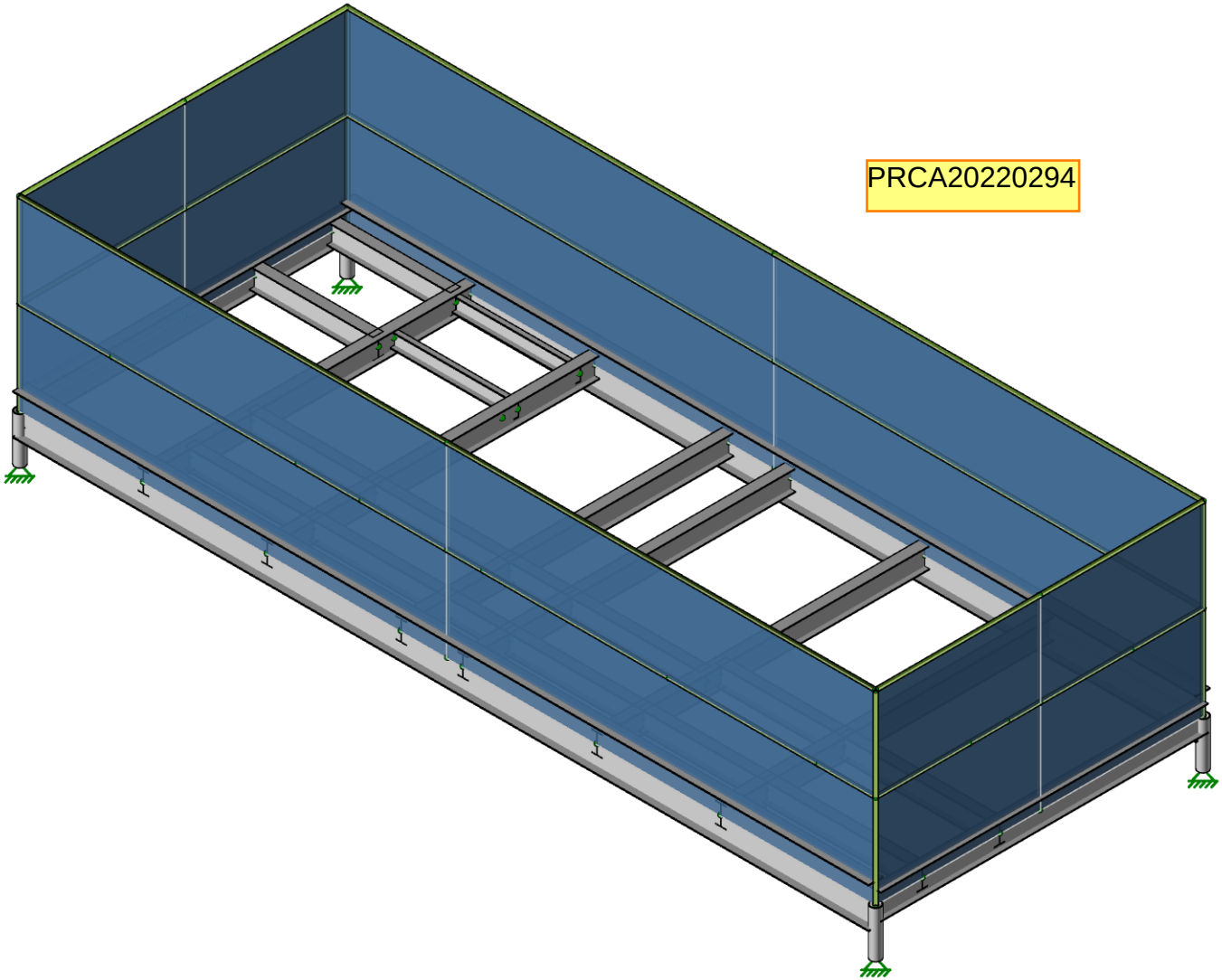
MECH AND ELEC COMPONENTS SEISMIC COEFFICIENTS

Mech or Electrical Component : Generators, batteries, inverters, motors, transformers, and other electrical components

Importance Factor (Ip) : Ip = 1.5 Life safety component required to function after an earthquake (e.g. fire protection s

Component Amplification Factor (a_p) =	1	h=	64.7 feet	
Comp Response Modification Factor (R_p) =	2.5	z=	67.5 feet	z/h = 1.00
Over-Strength Factor (Ωo) =	2			
$Fp = 0.4a_pSdsIpWp(1+2z/h)/Rp$ =	0.608 Wp			
not greater than $Fp = 1.6SdsIpWp$ =	2.027 Wp			
but not less than $Fp = 0.3SdsIpWp$ =	0.380 Wp	use Fp =	0.608 Wp	

Cabinet	Wp (lbs)	Seismic Design force (Fp = 0.608 Wp lbs)
ARGUS TE43 Cabinet	1620	972
Purcell FLX16WS Cabinet	1200	720
Argus TE41 Cabinet	4700	2820
UMTS Cabinet	1200	720



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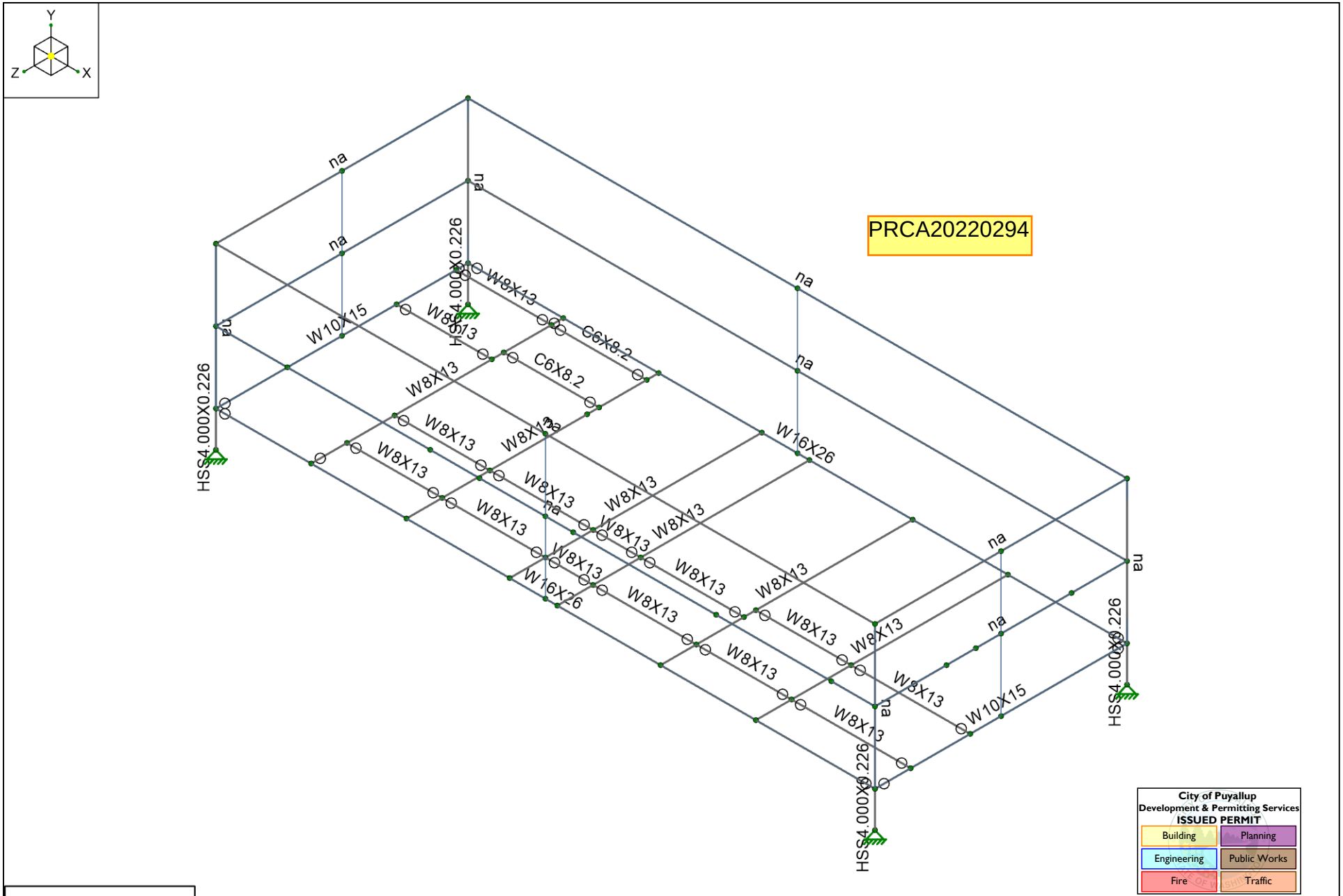
Envelope Only Solution

Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-1
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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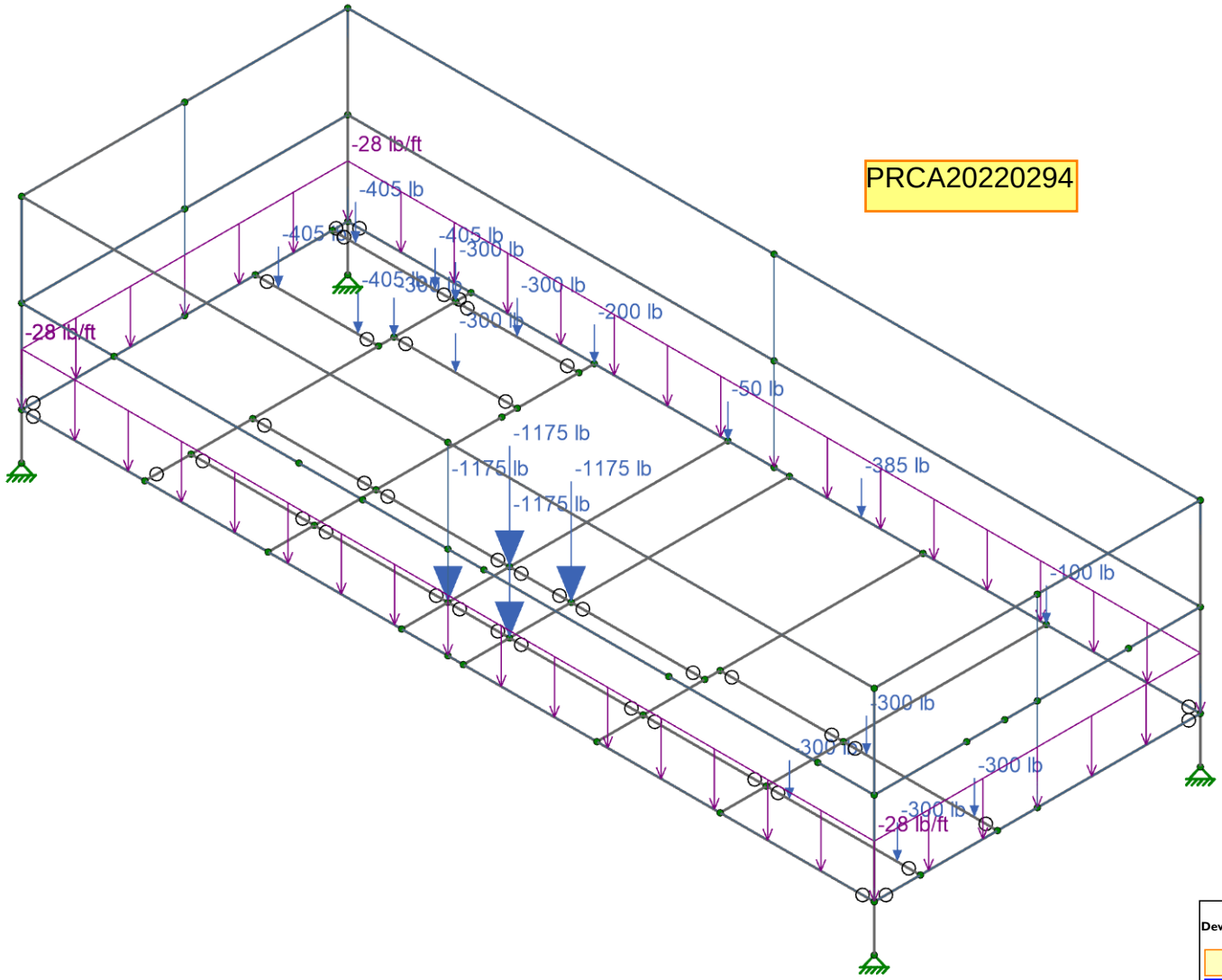

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Loads: BLC 1, Dead Load
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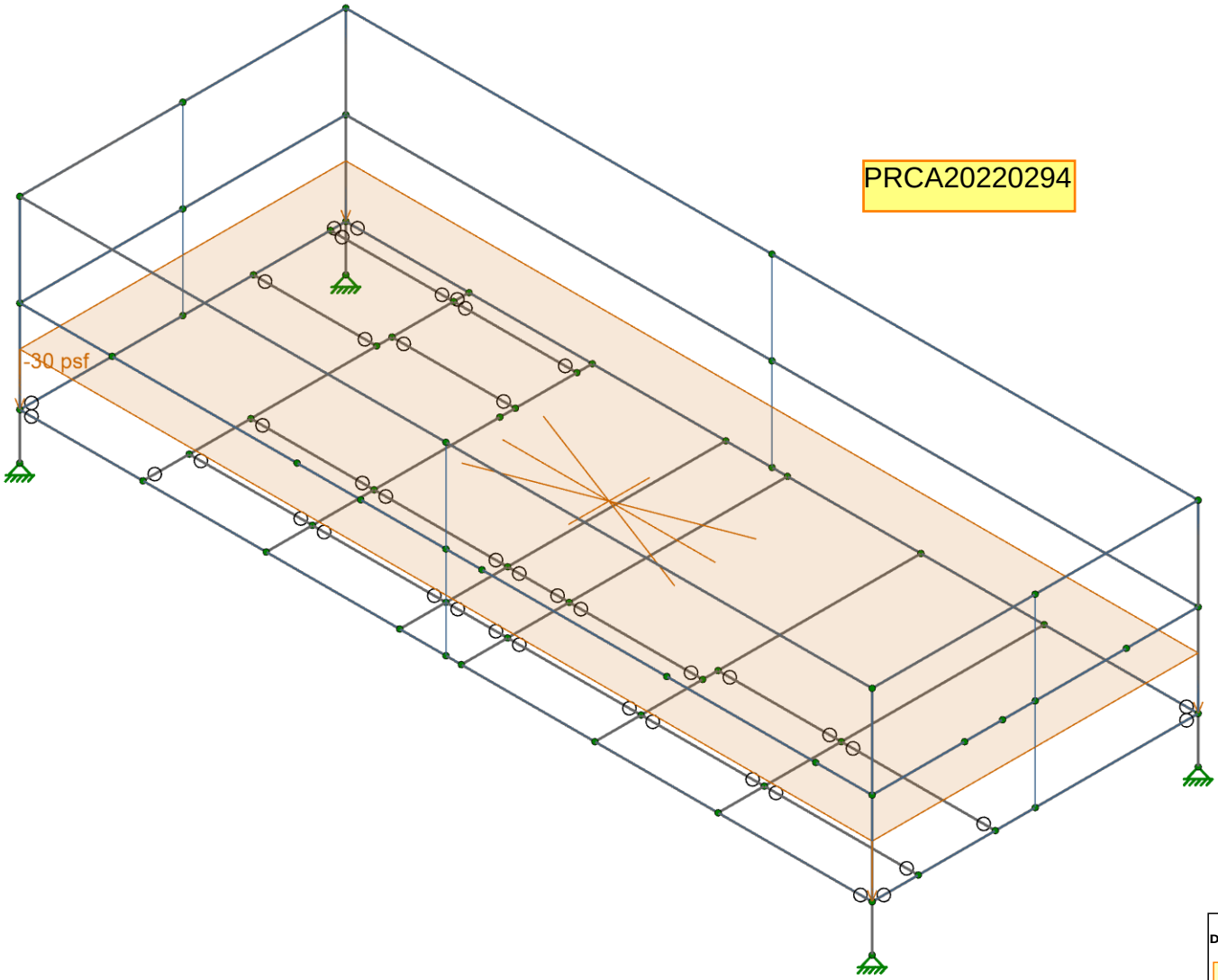
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-3
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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Loads: BLC 8, Snow Load
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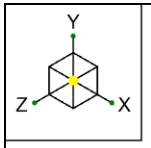
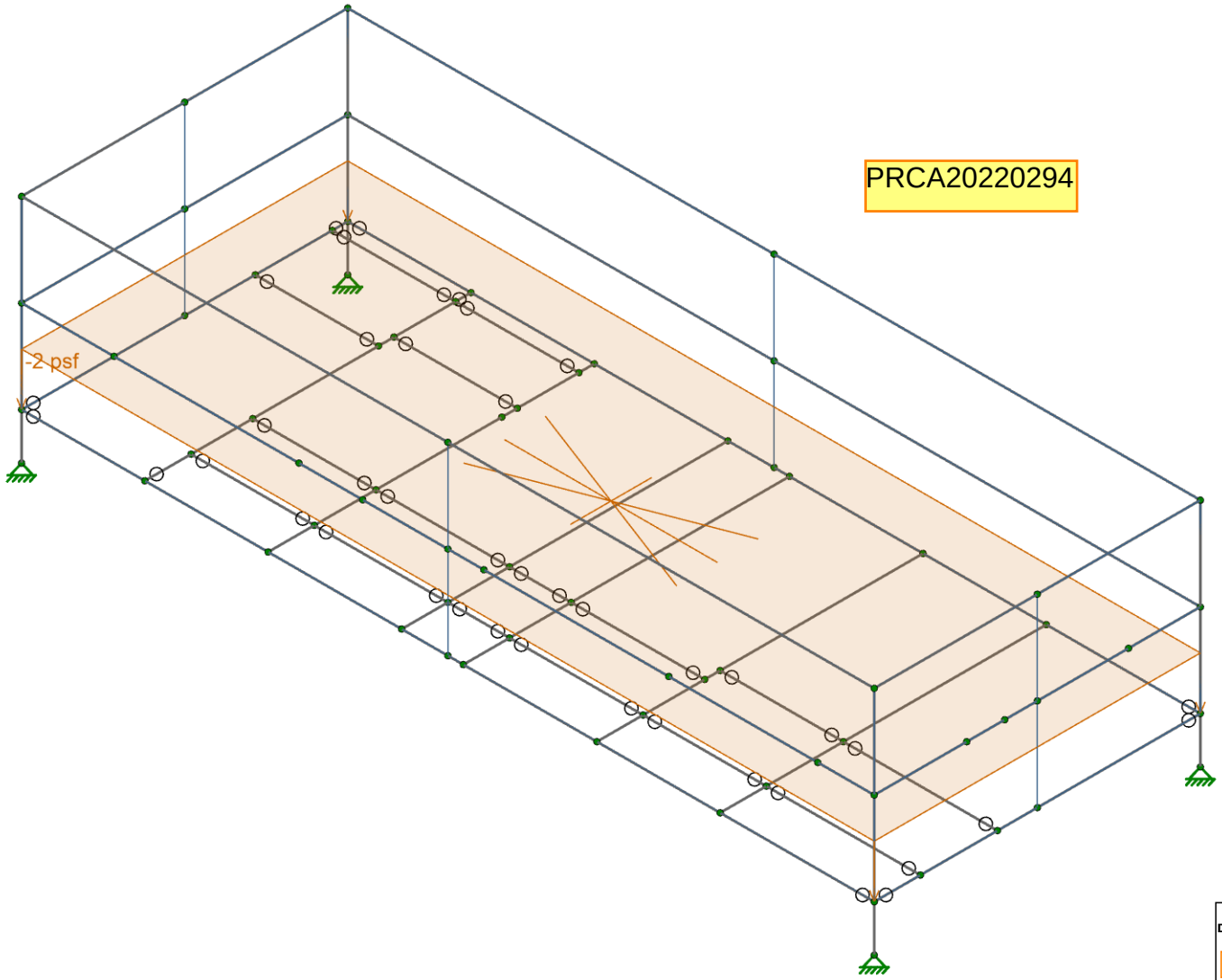
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-4
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d





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Loads: BLC 9, Weight Of aluminum grating
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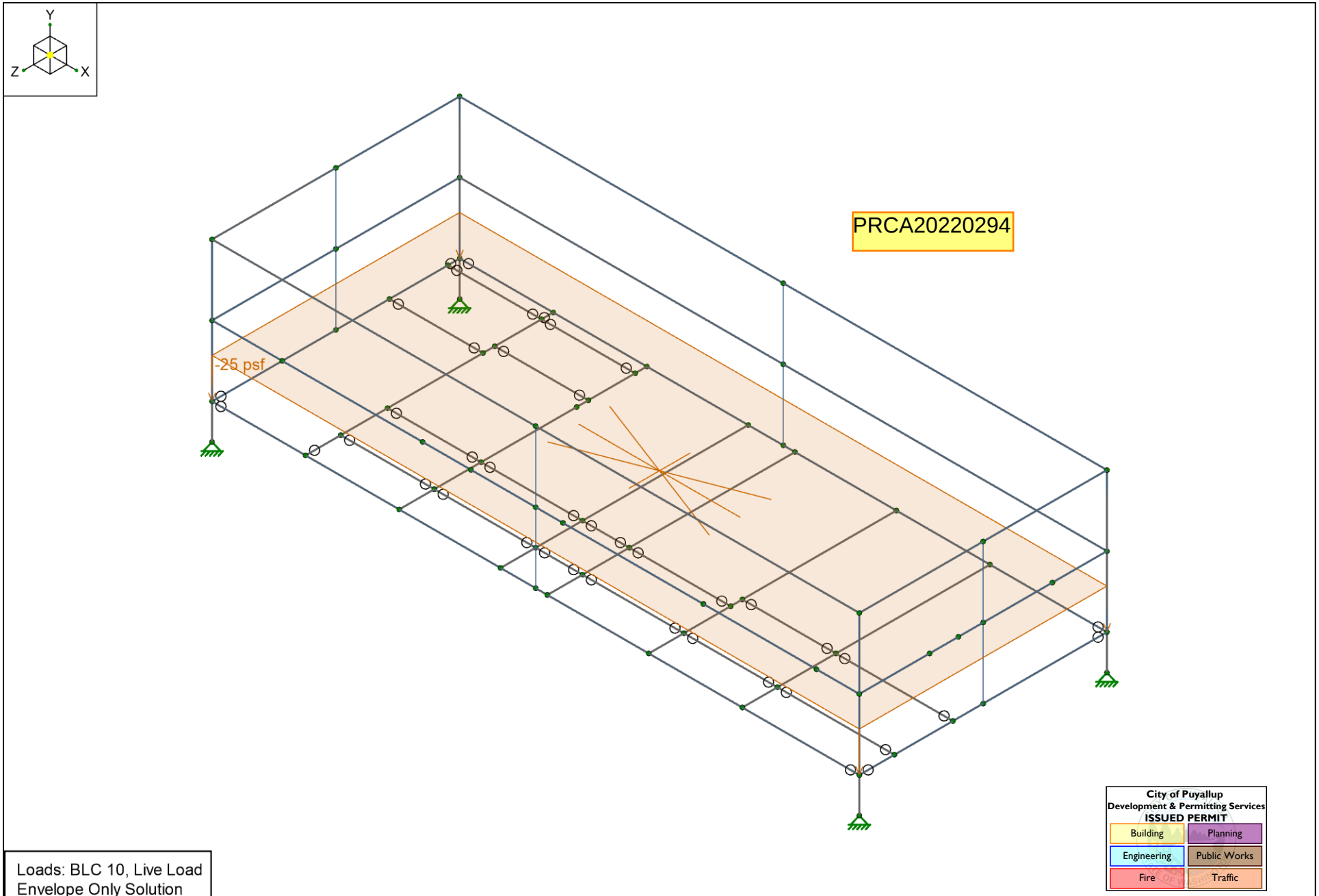
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-5
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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Loads: BLC 10, Live Load
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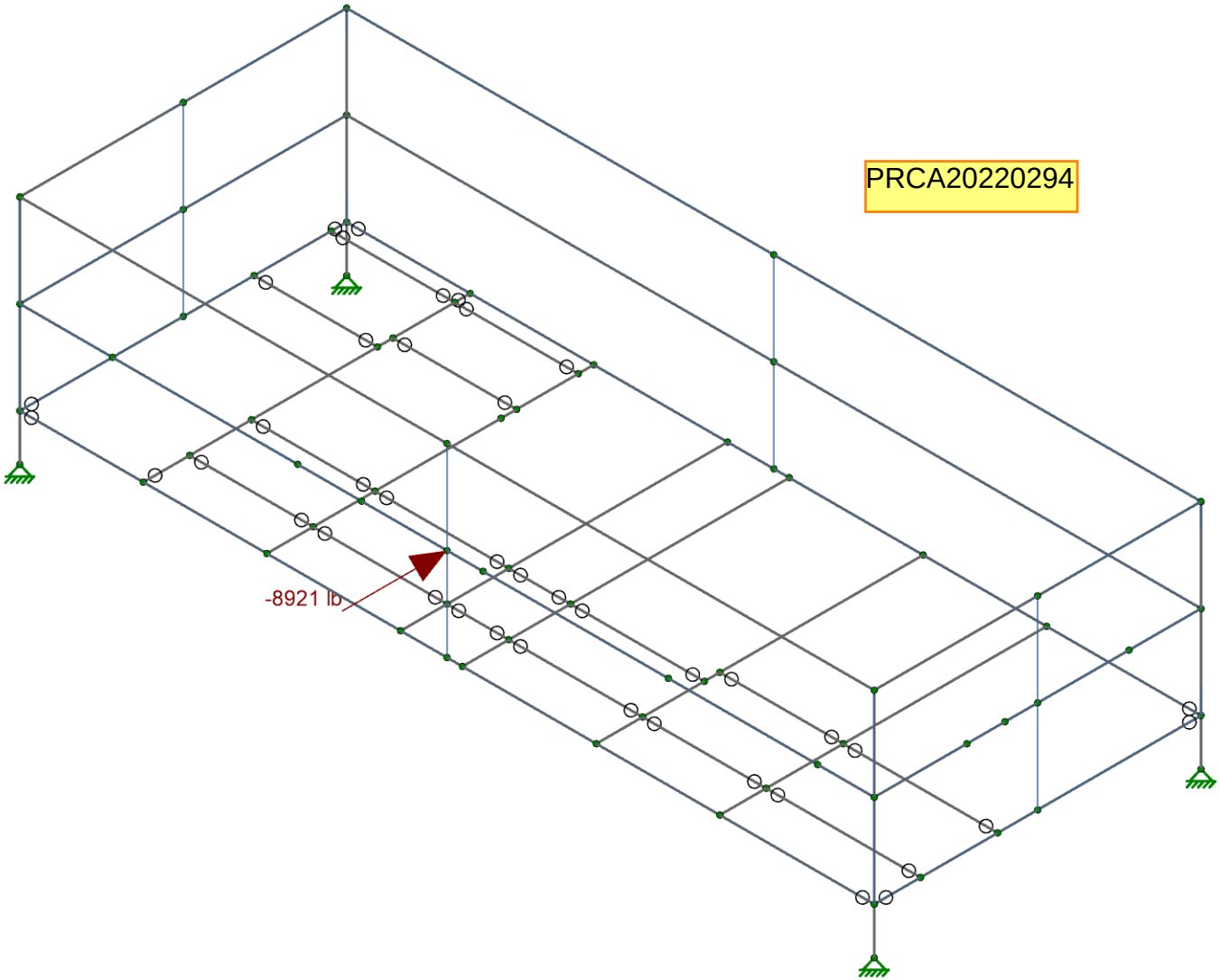
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-6
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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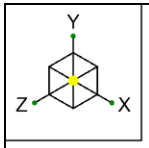
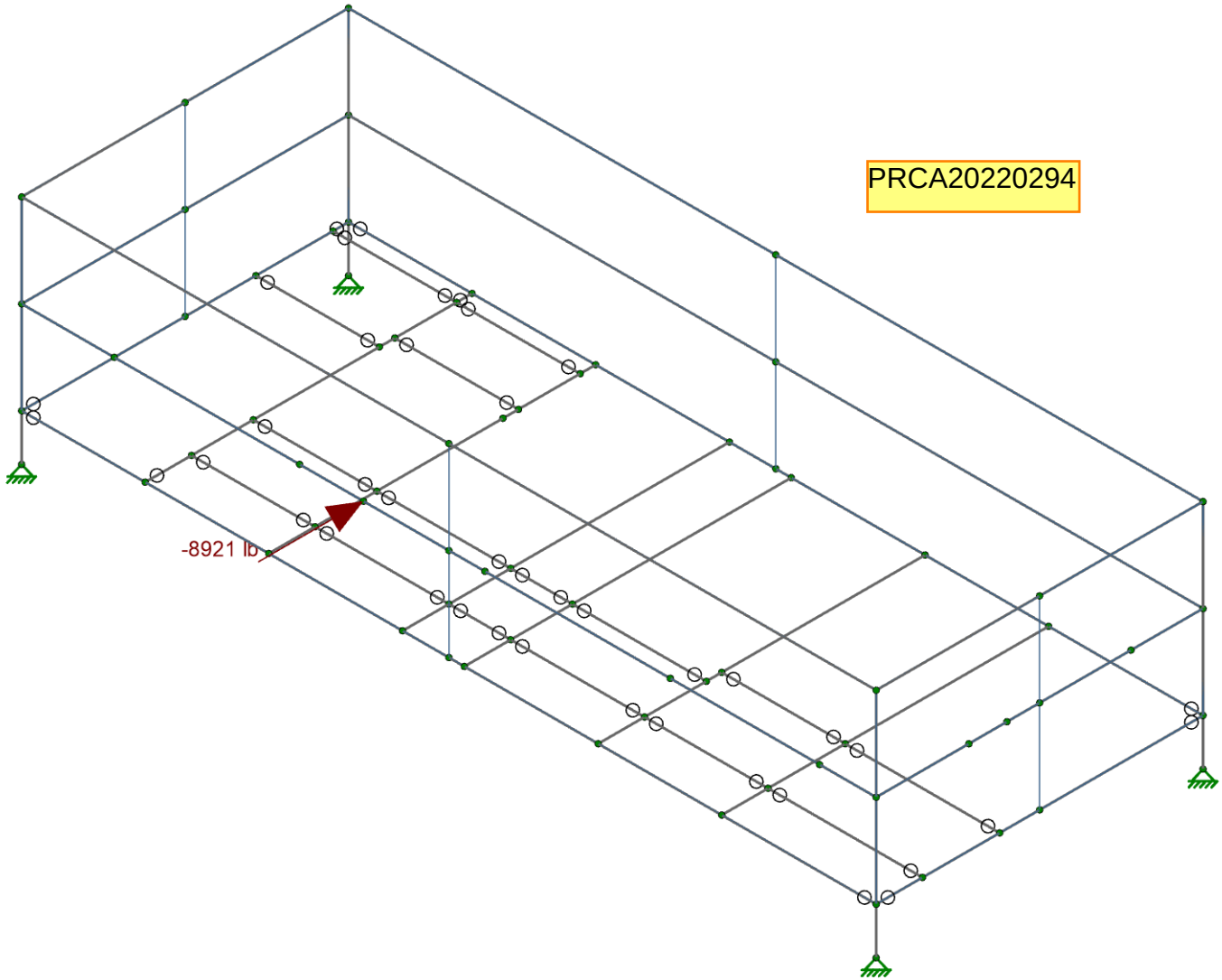
Loads: BLC 2, LCA Z
Envelope Only Solution

Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-7
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d





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Fire	Traffic

Loads: BLC 3, LCB Z
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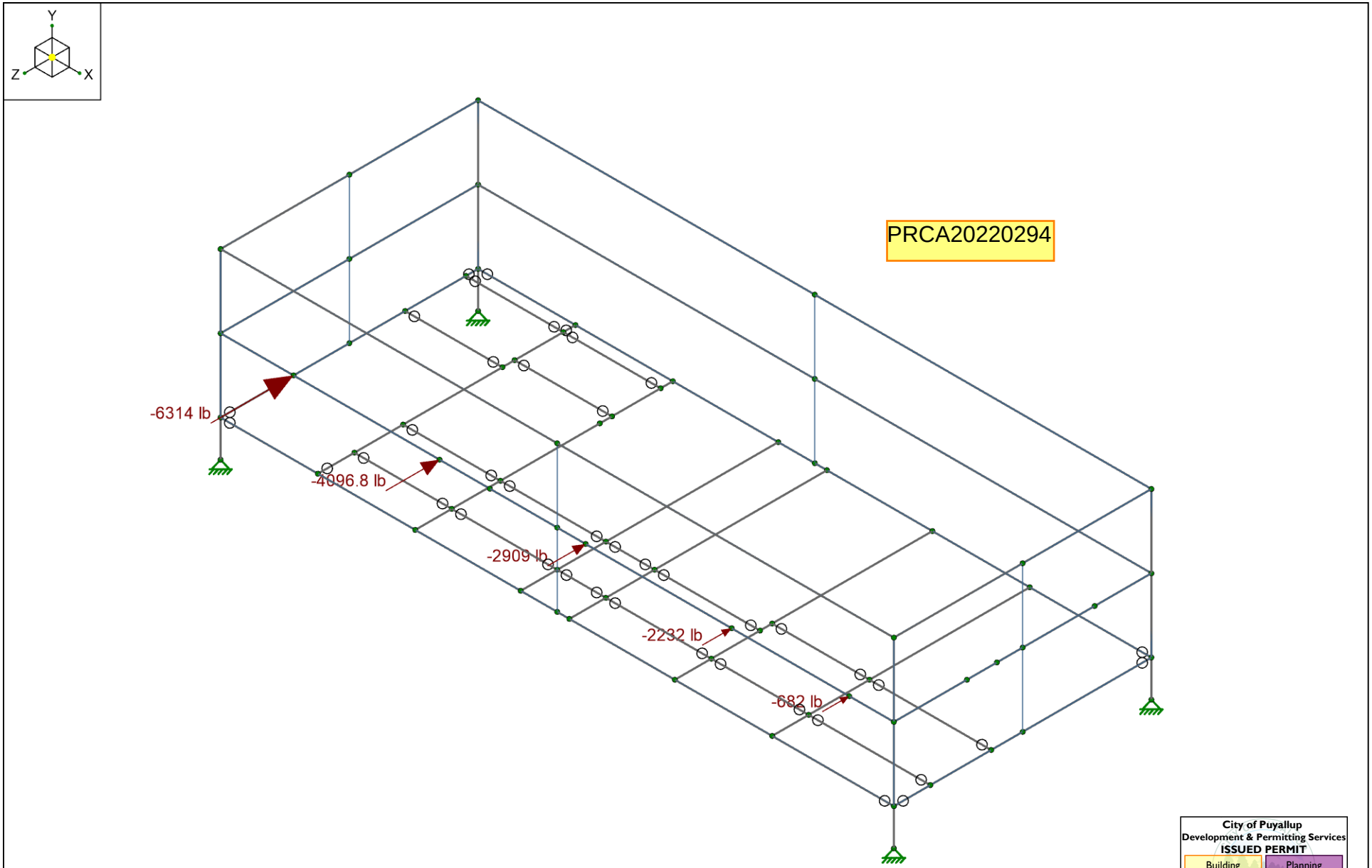
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-8
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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Loads: BLC 4, LCC Z
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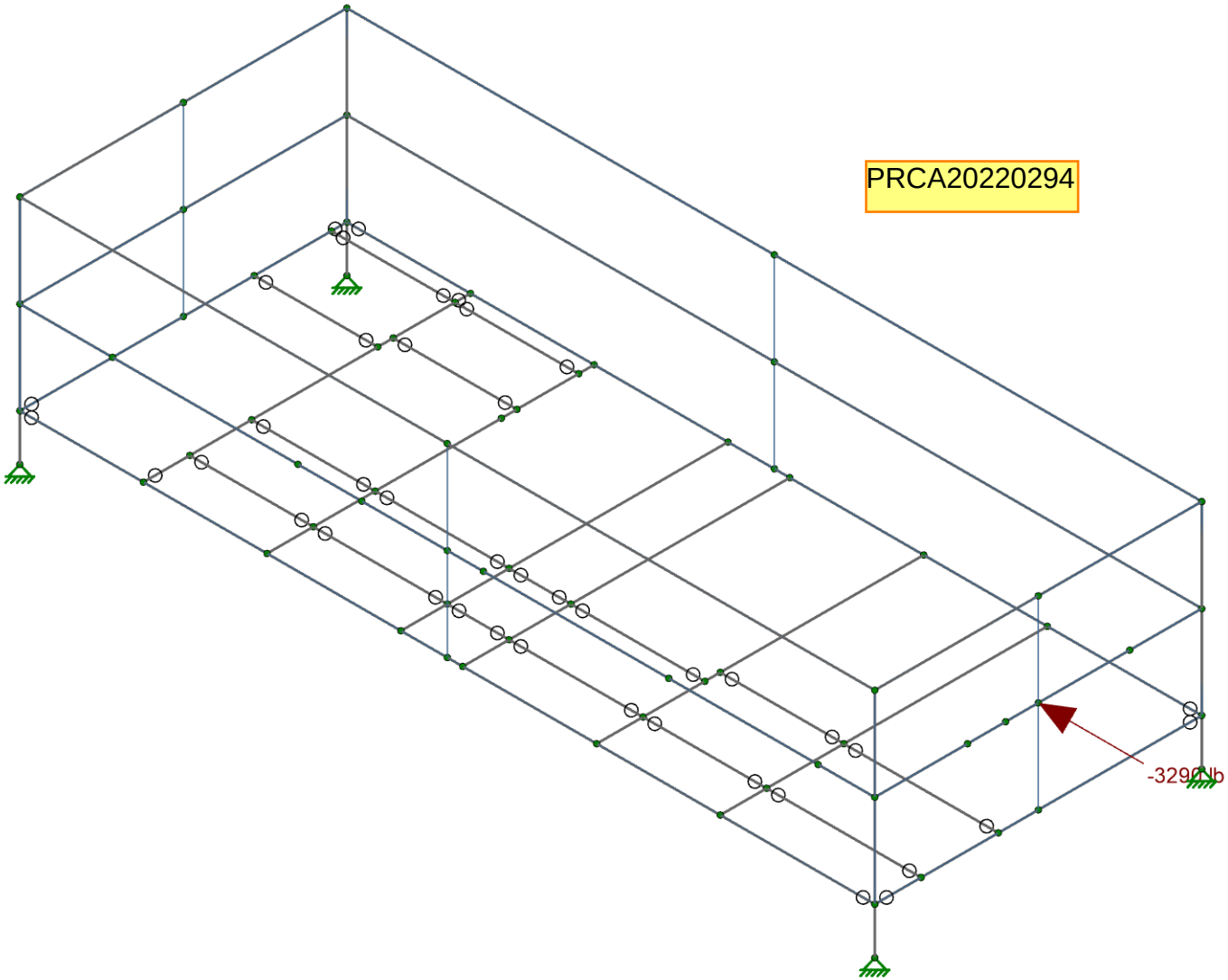
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-9
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



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Fire	Traffic	

Loads: BLC 5, LCA X
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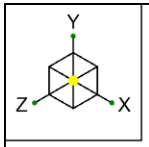
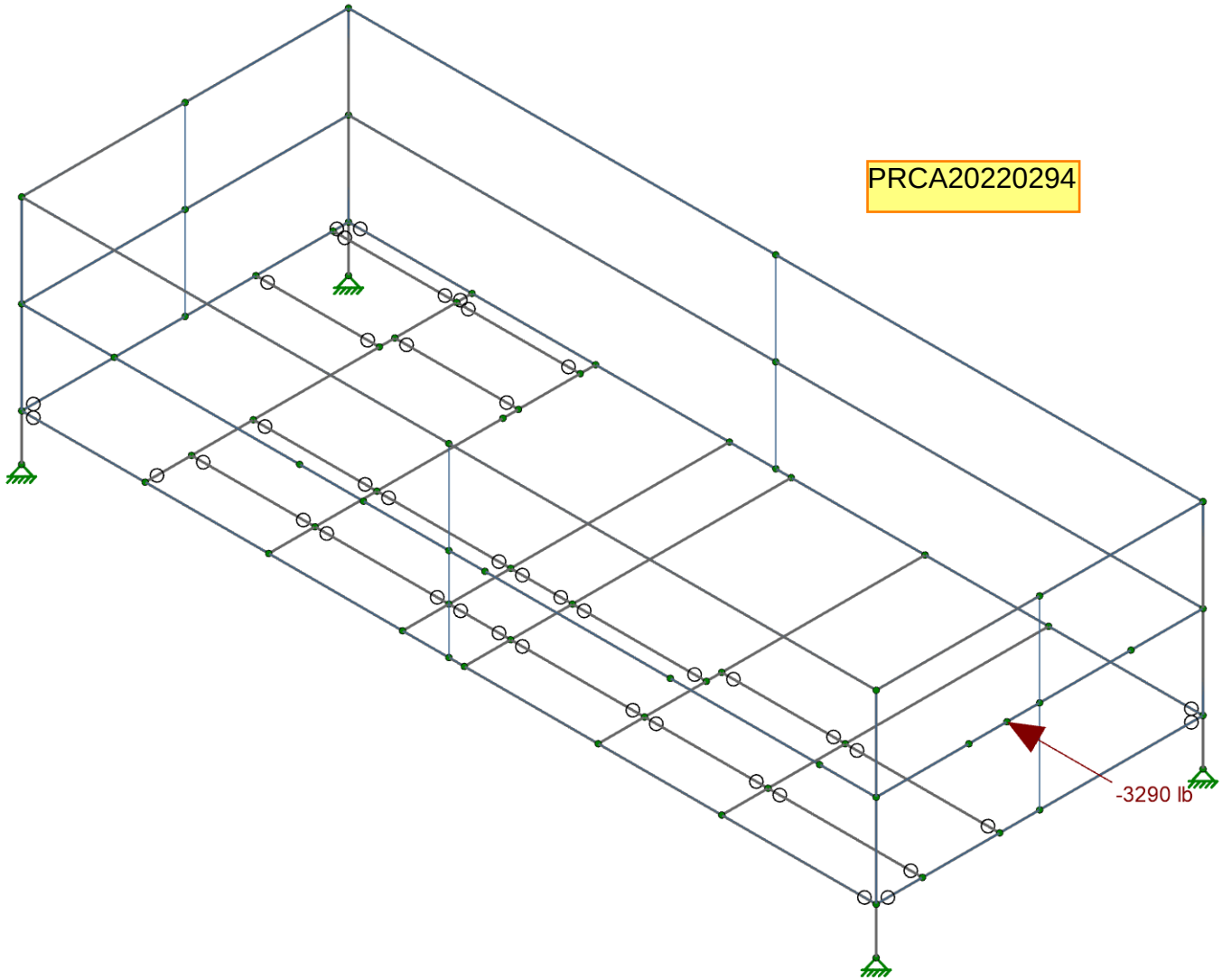
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-10
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d





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Loads: BLC 6, LCB X
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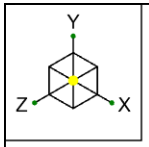
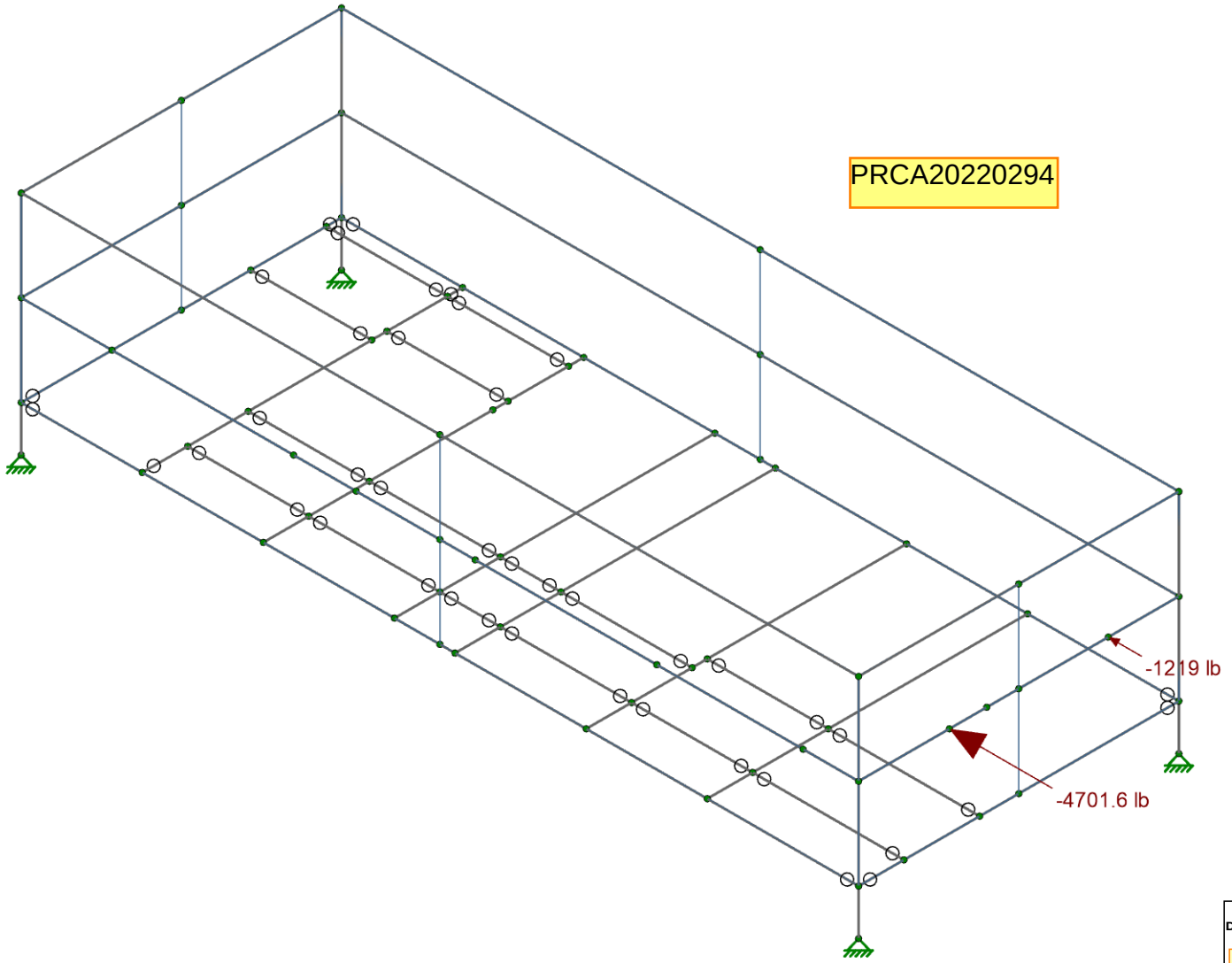
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-11
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d





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Engineering	Public Works	
Fire	Traffic	

Loads: BLC 7, LCC X
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Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-12
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d

Model Settings

Solution

Members

Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in^2)	144
Consider Shear Deformation	Yes
Consider Torsional Warping	Yes

Wall Panels

Approximate Mesh Size (in)	24
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3

Processor Core Utilization

Single	No
Multiple (Optimum)	Yes
Maximum	No

Axis

Vertical Global Axis

Global Axis corresponding to vertical direction	Y
Convert Existing Data	Yes

Default Member Orientation

Default Global Plane for z-axis	XZ

Plate Axis

Plate Local Axis Orientation	Global

Codes

Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	None
Cold Formed Steel	None
Stiffness Adjustment	Yes (Iterative)
Wood	None

Model Settings (Continued)

Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	None
Stiffness Adjustment	Yes (Iterative)

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Concrete

Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	No
List forces which were ignored for design in the Detail Report	Yes

Rebar

Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No

Shear Reinforcement

Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4

Seismic

RISA-3D Seismic Load Options

Code	None
Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes

Structure Characteristics

T Z (sec)	
T X (sec)	
C_tX	0
R Z	1
R X	1

Model Settings (Continued)

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A500 Gr.B Rect	29000	11154	0.3	0.65	0		1.4	58	1.3
4	A500 Gr.B RND	29000	11154	0.3	0.65	0		1.4	58	1.3
5	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Platform Support	HSS4.000X0.226	Column	HSS Pipe	A500 Gr.B RND	Typical	2.5	4.5	4.5	9.01
2	Platform Perimeter Beam (N and S	W16X26	Beam	Wide Flange	A992	Typical	7.68	9.59	301	0.262
3	Platform Perimeter Beam (E and W	W10X15	Beam	Wide Flange	A992	Typical	4.41	2.89	68.9	0.104
4	Secondary Framing	W8X13	Beam	Wide Flange	A992	Typical	3.84	2.73	39.6	0.087
5	Support Framing	C6X8.2	Beam	Channel	A992	Typical	2.39	0.687	13.1	0.074

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N5	Reaction	Reaction	Reaction
2	N7	Reaction	Reaction	Reaction
3	N6	Reaction	Reaction	Reaction
4	N8	Reaction	Reaction	Reaction

Hot Rolled Steel Design Parameters

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Lcomp top [in]	Lcomp bot [in]	Function
1	M1	Secondary Framing	127			Lbyy		Lateral
2	M2	Secondary Framing	127			Lbyy		Lateral
3	M3	Secondary Framing	127			Lbyy		Lateral
4	M4	Secondary Framing	127			Lbyy		Lateral
5	M5	Secondary Framing	127			Lbyy		Lateral
6	M6	Secondary Framing	127			Lbyy		Lateral
7	M7	Secondary Framing	48			Lbyy		Lateral
8	M8	Secondary Framing	48			Lbyy		Lateral
9	M9	Secondary Framing	48			Lbyy		Lateral
10	M10	Secondary Framing	52			Lbyy		Lateral
11	M11	Secondary Framing	52			Lbyy		Lateral
12	M12	Secondary Framing	24			Lbyy		Lateral
13	M13	Secondary Framing	24			Lbyy		Lateral
14	M14	Secondary Framing	52			Lbyy		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Lcomp top [in]	Lcomp bot [in]	Function
15	M15	Secondary Framing	52			Lbyy		Lateral
16	M16	Secondary Framing	48			Lbyy		Lateral
17	M17	Secondary Framing	60					Lateral
18	M18	Secondary Framing	48					Lateral
19	M19	Secondary Framing	60			Lbyy		Lateral
20	M20	Secondary Framing	48			Lbyy		Lateral
21	M21	Platform Perimeter Beam (N and S	332	Segment	Segment	Segment	Segment	Lateral
22	M22	Platform Perimeter Beam (N and S	332	Segment	Segment	Segment	Segment	Lateral
23	M23	Platform Perimeter Beam (E and W	127	Segment	Segment	Segment	Segment	Lateral
24	M24	Platform Perimeter Beam (E and W	127	Segment	Segment	Segment	Segment	Lateral
25	M25	Platform Support	18					Lateral
26	M26	Platform Support	18					Lateral
27	M27	Platform Support	18					Lateral
28	M28	Platform Support	18					Lateral
29	M41	Support Framing	48			Lbyy		Lateral
30	M42	Support Framing	48			Lbyy		Lateral

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Member Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude [lb, lb-ft]	Location [(in, %)]
1	M17	Y	-300	9
2	M19	Y	-300	9
3	M17	Y	-300	51
4	M19	Y	-300	51
5	M13	Y	-1175	0
6	M12	Y	-1175	0
7	M13	Y	-1175	%100
8	M12	Y	-1175	%100
9	M7	Y	-405	9
10	M20	Y	-405	9
11	M7	Y	-405	40
12	M20	Y	-405	40
13	M41	Y	-300	0
14	M42	Y	-300	0
15	M41	Y	-300	%50
16	M42	Y	-300	%50
17	M2	Y	-200	%100
18	M3	Y	-50	%100
19	M22	Y	-385	200
20	M6	Y	-100	%100

Member Distributed Loads (BLC 1 : Dead Load)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M21	PY	-28	-28	0	%100
2	M22	PY	-28	-28	0	%100
3	M23	PY	-28	-28	0	%100
4	M24	PY	-28	-28	0	%100

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Member Distributed Loads (BLC 11 : BLC 8 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M1	Y	-24.927	-53.977	0	25.4
2	M1	Y	-53.977	-87.553	25.4	50.8
3	M1	Y	-87.553	-77.23	50.8	76.2
4	M1	Y	-77.23	-38.855	76.2	101.6
5	M1	Y	-38.855	-20.853	101.6	127
6	M2	Y	-12.908	-30.723	25.4	45.72
7	M2	Y	-30.723	-77.886	45.72	66.04
8	M2	Y	-77.886	-99.717	66.04	86.36
9	M2	Y	-99.717	-58.99	86.36	106.68
10	M2	Y	-58.99	-10.382	106.68	127
11	M3	Y	-15.188	-29.533	25.4	45.72
12	M3	Y	-29.533	-73.116	45.72	66.04
13	M3	Y	-73.116	-104.141	66.04	86.36
14	M3	Y	-104.141	-66.274	86.36	106.68
15	M3	Y	-66.274	-3.724	106.68	127
16	M4	Y	-4.126	-38.216	12.7	35.56
17	M4	Y	-38.216	-74.203	35.56	58.42
18	M4	Y	-74.203	-93.869	58.42	81.28
19	M4	Y	-93.869	-66.877	81.28	104.14
20	M4	Y	-66.877	-4.126	104.14	127
21	M5	Y	-9.269	-32.424	0	25.4
22	M5	Y	-32.424	-65.703	25.4	50.8
23	M5	Y	-65.703	-109.739	50.8	76.2
24	M5	Y	-109.739	-97.417	76.2	101.6
25	M5	Y	-97.417	-28.105	101.6	127
26	M6	Y	-27.559	-52.411	12.7	35.56
27	M6	Y	-52.411	-88.495	35.56	58.42
28	M6	Y	-88.495	-119.062	58.42	81.28
29	M6	Y	-119.062	-107.339	81.28	104.14
30	M6	Y	-107.339	-70.076	104.14	127
31	M7	Y	-3.071	-38.207	0	9.6
32	M7	Y	-38.207	-86.486	9.6	19.2
33	M7	Y	-86.486	-87.255	19.2	28.8

Member Distributed Loads (BLC 11 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
34	M7	Y	-87.255	-44.171	28.8	38.4
35	M7	Y	-44.171	-13.963	38.4	48
36	M8	Y	-7.047	-40.607	0	12
37	M8	Y	-40.607	-57.378	12	24
38	M8	Y	-57.378	-54.227	24	36
39	M8	Y	-54.227	-47.942	36	48
40	M9	Y	-6.608	-73.163	0	16
41	M9	Y	-73.163	-74.821	16	32
42	M9	Y	-74.821	-6.608	32	48
43	M10	Y	-46.154	-52.487	0	13
44	M10	Y	-52.487	-55.645	13	26
45	M10	Y	-55.645	-52.486	26	39
46	M10	Y	-52.486	-46.183	39	52
47	M11	Y	-15.837	-98.163	0	17.333
48	M11	Y	-98.163	-98.243	17.333	34.667
49	M11	Y	-98.243	-16.076	34.667	52
50	M12	Y	-26.4	-26.4	0.004	24
51	M13	Y	-51.02	-51.02	0.0004422	24
52	M14	Y	-6.658	-54.086	0	10.4
53	M14	Y	-54.086	-83.955	10.4	20.8
54	M14	Y	-83.955	-83.38	20.8	31.2
55	M14	Y	-83.38	-54.01	31.2	41.6
56	M14	Y	-54.01	-8.728	41.6	52
57	M15	Y	-8.178	-40.75	0	10.4
58	M15	Y	-40.75	-52.21	10.4	20.8
59	M15	Y	-52.21	-53.648	20.8	31.2
60	M15	Y	-53.648	-41.56	31.2	41.6
61	M15	Y	-41.56	-4.856	41.6	52
62	M16	Y	-20.38	-44.64	0	12
63	M16	Y	-44.64	-61.985	12	24
64	M16	Y	-61.985	-47.197	24	36
65	M16	Y	-47.197	-7.195	36	48
66	M17	Y	-32.777	-56.166	0	20
67	M17	Y	-56.166	-56.158	20	40
68	M17	Y	-56.158	-32.752	40	60
69	M18	Y	-1.588	-39.61	0	8.64
70	M18	Y	-39.61	-87.611	8.64	17.28
71	M18	Y	-87.611	-107.39	17.28	25.92
72	M18	Y	-107.39	-51.45	25.92	34.56
73	M18	Y	-51.45	-1.588	34.56	43.2
74	M19	Y	-48.188	-75.161	6	18

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Member Distributed Loads (BLC 11 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
75	M19	Y	-75.161	-89.006	18	30
76	M19	Y	-89.006	-75.861	30	42
77	M19	Y	-75.861	-48.856	42	54
78	M20	Y	-22.322	-25.237	0	9.6
79	M20	Y	-25.237	-47.009	9.6	19.2
80	M20	Y	-47.009	-50.653	19.2	28.8
81	M20	Y	-50.653	-26.44	28.8	38.4
82	M20	Y	-26.44	-11.353	38.4	48
83	M21	Y	-45.455	-38.627	0	25.538
84	M21	Y	-38.627	-28.036	25.538	51.077
85	M21	Y	-28.036	-20.859	51.077	76.615
86	M21	Y	-20.859	-21.74	76.615	102.154
87	M21	Y	-21.74	-22.621	102.154	127.692
88	M21	Y	-22.621	-26.764	127.692	153.231
89	M21	Y	-26.764	-27.051	153.231	178.769
90	M21	Y	-27.051	-20.194	178.769	204.308
91	M21	Y	-20.194	-19.605	204.308	229.846
92	M21	Y	-19.605	-20.021	229.846	255.385
93	M21	Y	-20.021	-18.07	255.385	280.923
94	M21	Y	-18.07	-22.128	280.923	306.462
95	M21	Y	-22.128	-30.162	306.462	332
96	M22	Y	-6.734	-7.75	0	25.538
97	M22	Y	-7.75	-8.171	25.538	51.077
98	M22	Y	-8.171	-8.525	51.077	76.615
99	M22	Y	-8.525	-26.784	76.615	102.154
100	M22	Y	-26.784	-38.857	102.154	127.692
101	M22	Y	-38.857	-36.066	127.692	153.231
102	M22	Y	-36.066	-33.99	153.231	178.769
103	M22	Y	-33.99	-37.09	178.769	204.308
104	M22	Y	-37.09	-37.417	204.308	229.846
105	M22	Y	-37.417	-14.904	229.846	255.385
106	M22	Y	-14.904	-23.291	255.385	280.923
107	M22	Y	-23.291	-41.855	280.923	306.462
108	M22	Y	-41.855	-32.79	306.462	332
109	M23	Y	-2.1	-40.51	0	25.4
110	M23	Y	-40.51	-58.47	25.4	50.8
111	M23	Y	-58.47	-42.483	50.8	76.2
112	M23	Y	-42.483	-25.95	76.2	101.6
113	M23	Y	-25.95	-13.097	101.6	127
114	M24	Y	-18.084	-20.854	12.7	33.02
115	M24	Y	-20.854	-37.337	33.02	53.34

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Member Distributed Loads (BLC 11 : BLC 8 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
116	M24	Y	-37.337	-78.116	53.34	73.66
117	M24	Y	-78.116	-73.522	73.66	93.98
118	M24	Y	-73.522	-12.973	3.98	114.3
119	M41	Y	-7.408	-45.855	0	9.6
120	M41	Y	-45.855	-78.681	9.6	19.2
121	M41	Y	-78.681	-93.38	19.2	28.8
122	M41	Y	-93.38	-61.914	28.8	38.4
123	M41	Y	-61.914	-4.416	38.4	48
124	M42	Y	-1.819	-28.442	0	9.6
125	M42	Y	-28.442	-42.327	9.6	19.2
126	M42	Y	-42.327	-38.256	19.2	28.8
127	M42	Y	-38.256	-28.733	28.8	38.4
128	M42	Y	-28.733	-14.522	38.4	48

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Member Distributed Loads (BLC 12 : BLC 9 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M1	Y	-1.662	-3.598	0	25.4
2	M1	Y	-3.598	-5.837	25.4	50.8
3	M1	Y	-5.837	-5.149	50.8	76.2
4	M1	Y	-5.149	-2.59	76.2	101.6
5	M1	Y	-2.59	-1.39	101.6	127
6	M2	Y	-0.861	-2.048	25.4	45.72
7	M2	Y	-2.048	-5.192	45.72	66.04
8	M2	Y	-5.192	-6.648	66.04	86.36
9	M2	Y	-6.648	-3.933	86.36	106.68
10	M2	Y	-3.933	-0.692	106.68	127
11	M3	Y	-1.013	-1.969	25.4	45.72
12	M3	Y	-1.969	-4.874	45.72	66.04
13	M3	Y	-4.874	-6.943	66.04	86.36
14	M3	Y	-6.943	-4.418	86.36	106.68
15	M3	Y	-4.418	-0.248	106.68	127
16	M4	Y	-0.275	-2.548	12.7	35.56
17	M4	Y	-2.548	-4.947	35.56	58.42
18	M4	Y	-4.947	-6.258	58.42	81.28
19	M4	Y	-6.258	-4.458	81.28	104.14
20	M4	Y	-4.458	-0.275	104.14	127
21	M5	Y	-0.618	-2.162	0	25.4
22	M5	Y	-2.162	-4.38	25.4	50.8
23	M5	Y	-4.38	-7.316	50.8	76.2
24	M5	Y	-7.316	-6.494	76.2	101.6
25	M5	Y	-6.494	-1.874	101.6	127

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

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Member Distributed Loads (BLC 12 : BLC 9 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
26	M6	Y	-1.837	-3.494	12.7	35.56
27	M6	Y	-3.494	-5.9	35.56	58.42
28	M6	Y	-5.9	-7.937	58.42	81.28
29	M6	Y	-7.937	-7.156	81.28	104.14
30	M6	Y	-7.156	-4.672	104.14	127
31	M7	Y	-0.205	-2.547	0	9.6
32	M7	Y	-2.547	-5.766	9.6	19.2
33	M7	Y	-5.766	-5.817	19.2	28.8
34	M7	Y	-5.817	-2.945	28.8	38.4
35	M7	Y	-2.945	-0.931	38.4	48
36	M8	Y	-0.47	-2.707	0	12
37	M8	Y	-2.707	-3.825	12	24
38	M8	Y	-3.825	-3.615	24	36
39	M8	Y	-3.615	-3.196	36	48
40	M9	Y	-0.441	-4.878	0	16
41	M9	Y	-4.878	-4.988	16	32
42	M9	Y	-4.988	-0.441	32	48
43	M10	Y	-3.077	-3.499	0	13
44	M10	Y	-3.499	-3.71	13	26
45	M10	Y	-3.71	-3.499	26	39
46	M10	Y	-3.499	-3.079	39	52
47	M11	Y	-1.056	-6.544	0	17.333
48	M11	Y	-6.544	-6.55	17.333	34.667
49	M11	Y	-6.55	-1.072	34.667	52
50	M12	Y	-1.76	-1.76	0.004	24
51	M13	Y	-3.401	-3.401	0.0004422	24
52	M14	Y	-0.444	-3.606	0	10.4
53	M14	Y	-3.606	-5.597	10.4	20.8
54	M14	Y	-5.597	-5.559	20.8	31.2
55	M14	Y	-5.559	-3.601	31.2	41.6
56	M14	Y	-3.601	-0.582	41.6	52
57	M15	Y	-0.545	-2.717	0	10.4
58	M15	Y	-2.717	-3.481	10.4	20.8
59	M15	Y	-3.481	-3.577	20.8	31.2
60	M15	Y	-3.577	-2.771	31.2	41.6
61	M15	Y	-2.771	-0.324	41.6	52
62	M16	Y	-1.359	-2.976	0	12
63	M16	Y	-2.976	-4.132	12	24
64	M16	Y	-4.132	-3.146	24	36
65	M16	Y	-3.146	-0.48	36	48
66	M17	Y	-2.185	-3.744	0	20

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

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Member Distributed Loads (BLC 12 : BLC 9 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
67	M17	Y	-3.744	-3.744	20	40
68	M17	Y	-3.744	-2.183	40	60
69	M18	Y	-0.106	-2.641	0	8.64
70	M18	Y	-2.641	-5.841	8.64	17.28
71	M18	Y	-5.841	-7.159	17.28	25.92
72	M18	Y	-7.159	-3.43	25.92	34.56
73	M18	Y	-3.43	-0.106	34.56	43.2
74	M19	Y	-3.213	-5.011	6	18
75	M19	Y	-5.011	-5.934	18	30
76	M19	Y	-5.934	-5.057	30	42
77	M19	Y	-5.057	-3.257	42	54
78	M20	Y	-1.488	-1.682	0	9.6
79	M20	Y	-1.682	-3.134	9.6	19.2
80	M20	Y	-3.134	-3.377	19.2	28.8
81	M20	Y	-3.377	-1.763	28.8	38.4
82	M20	Y	-1.763	-0.757	38.4	48
83	M21	Y	-3.03	-2.575	0	25.538
84	M21	Y	-2.575	-1.869	25.538	51.077
85	M21	Y	-1.869	-1.391	51.077	76.615
86	M21	Y	-1.391	-1.449	76.615	102.154
87	M21	Y	-1.449	-1.508	102.154	127.692
88	M21	Y	-1.508	-1.784	127.692	153.231
89	M21	Y	-1.784	-1.803	153.231	178.769
90	M21	Y	-1.803	-1.346	178.769	204.308
91	M21	Y	-1.346	-1.307	204.308	229.846
92	M21	Y	-1.307	-1.335	229.846	255.385
93	M21	Y	-1.335	-1.205	255.385	280.923
94	M21	Y	-1.205	-1.475	280.923	306.462
95	M21	Y	-1.475	-2.011	306.462	332
96	M22	Y	-0.449	-0.517	0	25.538
97	M22	Y	-0.517	-0.545	25.538	51.077
98	M22	Y	-0.545	-0.568	51.077	76.615
99	M22	Y	-0.568	-1.786	76.615	102.154
100	M22	Y	-1.786	-2.59	102.154	127.692
101	M22	Y	-2.59	-2.404	127.692	153.231
102	M22	Y	-2.404	-2.266	153.231	178.769
103	M22	Y	-2.266	-2.473	178.769	204.308
104	M22	Y	-2.473	-2.494	204.308	229.846
105	M22	Y	-2.494	-0.994	229.846	255.385
106	M22	Y	-0.994	-1.553	255.385	280.923
107	M22	Y	-1.553	-2.79	280.923	306.462

Member Distributed Loads (BLC 12 : BLC 9 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
108	M22	Y	-2.79	-2.186	306.462	332
109	M23	Y	-0.14	-2.701	0	25.4
110	M23	Y	-2.701	-3.898	25.4	50.8
111	M23	Y	-3.898	-2.832	50.8	76.2
112	M23	Y	-2.832	-1.73	76.2	101.6
113	M23	Y	-1.73	-0.873	101.6	127
114	M24	Y	-1.206	-1.39	12.7	33.02
115	M24	Y	-1.39	-2.489	33.02	53.34
116	M24	Y	-2.489	-5.208	53.34	73.66
117	M24	Y	-5.208	-4.901	73.66	93.98
118	M24	Y	-4.901	-0.865	93.98	114.3
119	M41	Y	-0.494	-3.057	0	9.6
120	M41	Y	-3.057	-5.245	9.6	19.2
121	M41	Y	-5.245	-6.225	19.2	28.8
122	M41	Y	-6.225	-4.128	28.8	38.4
123	M41	Y	-4.128	-0.294	38.4	48
124	M42	Y	-0.121	-1.896	0	9.6
125	M42	Y	-1.896	-2.822	9.6	19.2
126	M42	Y	-2.822	-2.55	19.2	28.8
127	M42	Y	-2.55	-1.916	28.8	38.4
128	M42	Y	-1.916	-0.968	38.4	48

Member Distributed Loads (BLC 13 : BLC 10 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M1	Y	-20.773	-44.981	0	25.4
2	M1	Y	-44.981	-72.961	25.4	50.8
3	M1	Y	-72.961	-64.358	50.8	76.2
4	M1	Y	-64.358	-32.379	76.2	101.6
5	M1	Y	-32.379	-17.378	101.6	127
6	M2	Y	-10.756	-25.603	25.4	45.72
7	M2	Y	-25.603	-64.905	45.72	66.04
8	M2	Y	-64.905	-83.098	66.04	86.36
9	M2	Y	-83.098	-49.158	86.36	106.68
10	M2	Y	-49.158	-8.652	106.68	127
11	M3	Y	-12.657	-24.611	25.4	45.72
12	M3	Y	-24.611	-60.93	45.72	66.04
13	M3	Y	-60.93	-86.784	66.04	86.36
14	M3	Y	-86.784	-55.229	86.36	106.68
15	M3	Y	-55.229	-3.103	106.68	127
16	M4	Y	-3.438	-31.846	12.7	35.56
17	M4	Y	-31.846	-61.836	35.56	58.42

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Member Distributed Loads (BLC 13 : BLC 10 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
18	M4	Y	-61.836	-78.224	58.42	81.28
19	M4	Y	-78.224	-55.731	81.28	104.14
20	M4	Y	-55.731	-3.438	04.14	127
21	M5	Y	-7.725	-27.02	0	25.4
22	M5	Y	-27.02	-54.753	25.4	50.8
23	M5	Y	-54.753	-91.449	50.8	76.2
24	M5	Y	-91.449	-81.181	76.2	101.6
25	M5	Y	-81.181	-23.421	101.6	127
26	M6	Y	-22.966	-43.676	12.7	35.56
27	M6	Y	-43.676	-73.746	35.56	58.42
28	M6	Y	-73.746	-99.218	58.42	81.28
29	M6	Y	-99.218	-89.449	81.28	104.14
30	M6	Y	-89.449	-58.397	104.14	127
31	M7	Y	-2.559	-31.839	0	9.6
32	M7	Y	-31.839	-72.072	9.6	19.2
33	M7	Y	-72.072	-72.712	19.2	28.8
34	M7	Y	-72.712	-36.809	28.8	38.4
35	M7	Y	-36.809	-11.636	38.4	48
36	M8	Y	-5.872	-33.839	0	12
37	M8	Y	-33.839	-47.815	12	24
38	M8	Y	-47.815	-45.189	24	36
39	M8	Y	-45.189	-39.952	36	48
40	M9	Y	-5.507	-60.969	0	16
41	M9	Y	-60.969	-62.351	16	32
42	M9	Y	-62.351	-5.507	32	48
43	M10	Y	-38.462	-43.739	0	13
44	M10	Y	-43.739	-46.371	13	26
45	M10	Y	-46.371	-43.738	26	39
46	M10	Y	-43.738	-38.486	39	52
47	M11	Y	-13.198	-81.803	0	17.333
48	M11	Y	-81.803	-81.869	17.333	34.667
49	M11	Y	-81.869	-13.396	34.667	52
50	M12	Y	-22	-22	0.004	24
51	M13	Y	-42.516	-42.516	0.0004422	24
52	M14	Y	-5.548	-45.072	0	10.4
53	M14	Y	-45.072	-69.962	10.4	20.8
54	M14	Y	-69.962	-69.483	20.8	31.2
55	M14	Y	-69.483	-45.008	31.2	41.6
56	M14	Y	-45.008	-7.273	41.6	52
57	M15	Y	-6.815	-33.958	0	10.4
58	M15	Y	-33.958	-43.508	10.4	20.8

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Member Distributed Loads (BLC 13 : BLC 10 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
59	M15	Y	-43.508	-44.707	20.8	31.2
60	M15	Y	-44.707	-34.634	31.2	41.6
61	M15	Y	-34.634	-4.047	41.6	52
62	M16	Y	-16.984	-37.2	0	12
63	M16	Y	-37.2	-51.654	12	24
64	M16	Y	-51.654	-39.331	24	36
65	M16	Y	-39.331	-5.996	36	48
66	M17	Y	-27.315	-46.805	0	20
67	M17	Y	-46.805	-46.798	20	40
68	M17	Y	-46.798	-27.293	40	60
69	M18	Y	-1.323	-33.008	0	8.64
70	M18	Y	-33.008	-73.009	8.64	17.28
71	M18	Y	-73.009	-89.492	17.28	25.92
72	M18	Y	-89.492	-42.875	25.92	34.56
73	M18	Y	-42.875	-1.323	34.56	43.2
74	M19	Y	-40.157	-62.635	6	18
75	M19	Y	-62.635	-74.172	18	30
76	M19	Y	-74.172	-63.218	30	42
77	M19	Y	-63.218	-40.713	42	54
78	M20	Y	-18.601	-21.031	0	9.6
79	M20	Y	-21.031	-39.174	9.6	19.2
80	M20	Y	-39.174	-42.211	19.2	28.8
81	M20	Y	-42.211	-22.033	28.8	38.4
82	M20	Y	-22.033	-9.461	38.4	48
83	M21	Y	-37.879	-32.189	0	25.538
84	M21	Y	-32.189	-23.364	25.538	51.077
85	M21	Y	-23.364	-17.382	51.077	76.615
86	M21	Y	-17.382	-18.117	76.615	102.154
87	M21	Y	-18.117	-18.851	102.154	127.692
88	M21	Y	-18.851	-22.303	127.692	153.231
89	M21	Y	-22.303	-22.542	153.231	178.769
90	M21	Y	-22.542	-16.828	178.769	204.308
91	M21	Y	-16.828	-16.337	204.308	229.846
92	M21	Y	-16.337	-16.684	229.846	255.385
93	M21	Y	-16.684	-15.058	255.385	280.923
94	M21	Y	-15.058	-18.44	280.923	306.462
95	M21	Y	-18.44	-25.135	306.462	332
96	M22	Y	-5.612	-6.459	0	25.538
97	M22	Y	-6.459	-6.809	25.538	51.077
98	M22	Y	-6.809	-7.104	51.077	76.615
99	M22	Y	-7.104	-22.32	76.615	102.154

Member Distributed Loads (BLC 13 : BLC 10 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/in]	End Magnitude [lb/ft, F, psf, lb-ft/in]	Start Location [(in, %)]	End Location [(in, %)]
100	M22	Y	-22.32	-32.381	102.154	127.692
101	M22	Y	-32.381	-30.055	127.692	153.231
102	M22	Y	-30.055	-28.325	153.231	178.769
103	M22	Y	-28.325	-30.908	178.769	204.308
104	M22	Y	-30.908	-31.181	204.308	229.846
105	M22	Y	-31.181	-12.42	229.846	255.385
106	M22	Y	-12.42	-19.409	255.385	280.923
107	M22	Y	-19.409	-34.879	280.923	306.462
108	M22	Y	-34.879	-27.325	306.462	332
109	M23	Y	-1.75	-33.758	0	25.4
110	M23	Y	-33.758	-48.725	25.4	50.8
111	M23	Y	-48.725	-35.402	50.8	76.2
112	M23	Y	-35.402	-21.625	76.2	101.6
113	M23	Y	-21.625	-10.914	101.6	127
114	M24	Y	-15.07	-17.378	12.7	33.02
115	M24	Y	-17.378	-31.114	33.02	53.34
116	M24	Y	-31.114	-65.097	53.34	73.66
117	M24	Y	-65.097	-61.268	73.66	93.98
118	M24	Y	-61.268	-10.81	93.98	114.3
119	M41	Y	-6.173	-38.213	0	9.6
120	M41	Y	-38.213	-65.567	9.6	19.2
121	M41	Y	-65.567	-77.817	19.2	28.8
122	M41	Y	-77.817	-51.595	28.8	38.4
123	M41	Y	-51.595	-3.68	38.4	48
124	M42	Y	-1.516	-23.701	0	9.6
125	M42	Y	-23.701	-35.272	9.6	19.2
126	M42	Y	-35.272	-31.88	19.2	28.8
127	M42	Y	-31.88	-23.944	28.8	38.4
128	M42	Y	-23.944	-12.102	38.4	48

Member Area Loads (BLC 8 : Snow Load)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [psf]
1	N1	N3	N4	N2	Y	Two Way	-30

Member Area Loads (BLC 9 : Weight Of aluminum grating)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [psf]
1	N1	N3	N4	N2	Y	Two Way	-2

Member Area Loads (BLC 10 : Live Load)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [psf]
1	N1	N3	N4	N2	Y	Two Way	-25

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead Load	DL	-1		20	4	
2	LCA Z	OL1		1			
3	LCB Z	OL2		1			
4	LCC Z	OL3		5			
5	LCA X	OL4		1			
6	LCB X	OL5		1			
7	LCC X	OL6		2			
8	Snow Load	SL					1
9	Weight Of aluminum grating	DL					1
10	Live Load	LL					1
11	BLC 8 Transient Area Loads	None				128	
12	BLC 9 Transient Area Loads	None				128	
13	BLC 10 Transient Area Loads	None				128	

Moving Loads

No Data to Print...

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 DL	Yes	Y	1	1.4								
2	1.2 DL + 1.0 LCA X	Yes	Y	1	1.2	5	1						
3	1.2 DL - 1.0 LCA X	Yes	Y	1	1.2	5	-1						
4	1.2 DL + 1.0 LCB X	Yes	Y	1	1.2	6	1						
5	1.2 DL - 1.0 LCB X	Yes	Y	1	1.2	6	-1						
6	1.2 DL + 1.0 LCC X	Yes	Y	1	1.2	7	1						
7	1.2 DL + 1.0 LCC X	Yes	Y	1	1.2	7	-1						
8	1.2 DL + 1.0 LCA Z	Yes	Y	1	1.2	2	1						
9	1.2 DL - 1.0 LCA Z	Yes	Y	1	1.2	2	-1						
10	1.2 DL + 1.0 LCB Z	Yes	Y	1	1.2	3	1						
11	1.2 DL - 1.0 LCB Z	Yes	Y	1	1.2	3	-1						
12	1.2 DL + 1.0 LCC Z	Yes	Y	1	1.2	4	1						
13	1.2 DL - 1.0 LCC Z	Yes	Y	1	1.2	4	-1						
14	0.9 DL + 1.0 LCA X	Yes	Y	1	0.9	5	1						
15	0.9 DL - 1.0 LCA X	Yes	Y	1	0.9	5	-1						

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
16	0.9 DL + 1.0 LCB X	Yes	Y	1	0.9	6	1						
17	0.9 DL - 1.0 LCB X	Yes	Y	1	0.9	6	-1						
18	0.9 DL + 1.0 LCC X	Yes	Y	1	0.9	7	1						
19	0.9 DL + 1.0 LCC X	Yes	Y	1	0.9	7	-1						
20	0.9 DL + 1.0 LCA Z	Yes	Y	1	0.9	2	1						
21	0.9 DL - 1.0 LCA Z	Yes	Y	1	0.9	2	-1						
22	0.9 DL + 1.0 LCB Z	Yes	Y	1	0.9	3	1						
23	0.9 DL - 1.0 LCB Z	Yes	Y	1	0.9	3	-1						
24	0.9 DL + 1.0 LCC Z	Yes	Y	1	0.9	4	1						
25	0.9 DL - 1.0 LCC Z	Yes	Y	1	0.9	4	-1						
26	IBC 16-1	Yes	Y	DL	1.4								
27	IBC 16-2 (a)	Yes	Y	DL	1.2	LL	1.6	LLS	1.6				
28	IBC 16-2 (b)	Yes	Y	DL	1.2	LL	1.6	LLS	1.6	SL	0.5	SLN	0.5
29	IBC 16-3 (c)	Yes	Y	DL	1.2	SL	1.6	SLN	1.6	LL	0.5	LLS	1

Envelope Node Reactions

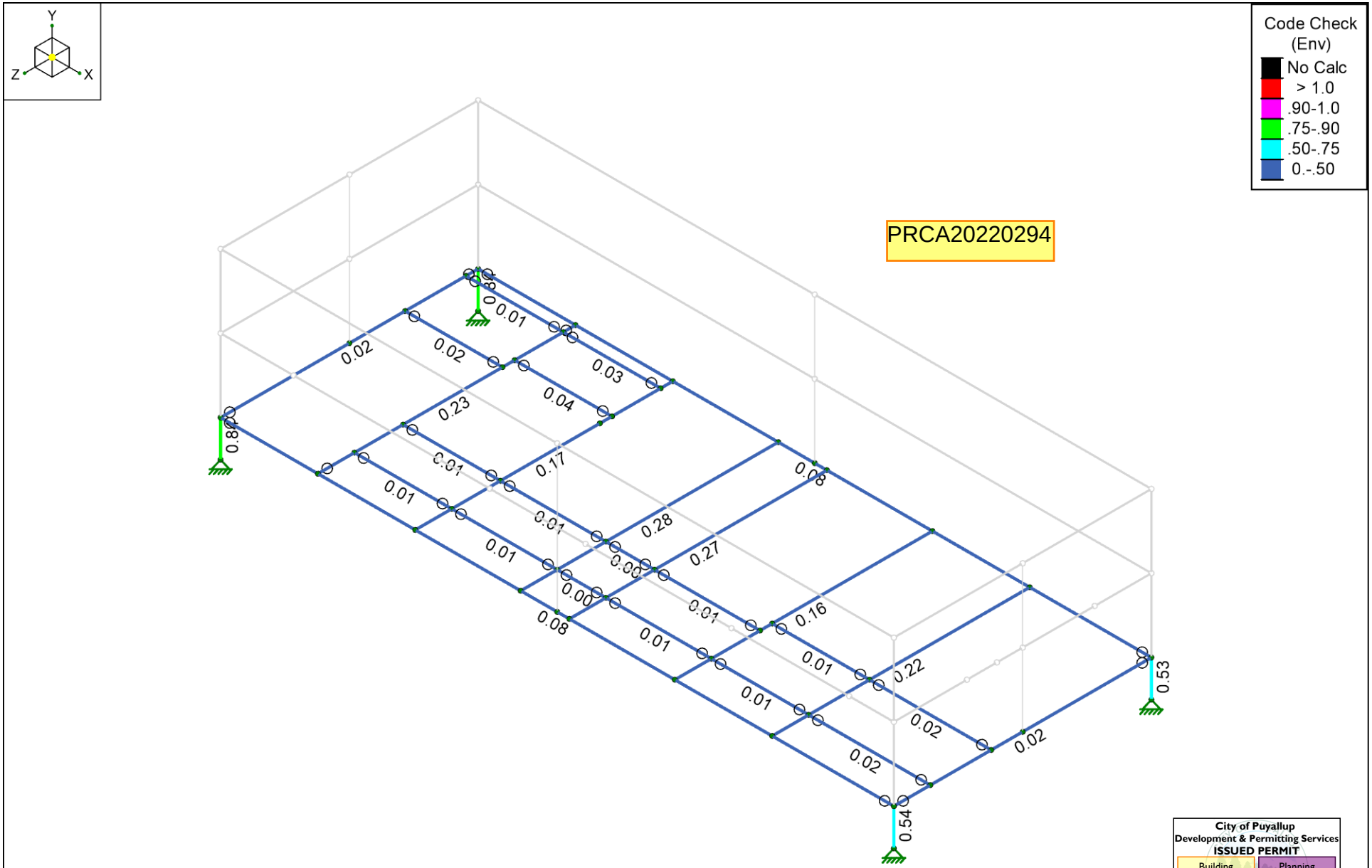
	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N5	max	1521.898	18	9718.997	29	5032.808	24	0	29	0	29	0	29
2		min	-1523.486	19	357.585	24	-4994.045	25	0	1	0	1	0	1
3	N7	max	1435.836	18	9305.162	29	4995.94	12	0	29	0	29	0	29
4		min	-1437.394	19	100.495	25	-5034.163	13	0	1	0	1	0	1
5	N6	max	1524.647	6	8926.022	29	3114.059	24	0	29	0	29	0	29
6		min	-1522.994	7	-244.224	24	-3090.551	25	0	1	0	1	0	1
7	N8	max	1438.553	6	8507.356	29	3091.332	12	0	29	0	29	0	29
8		min	-1437.058	7	-504.67	25	-3115.484	13	0	1	0	1	0	1
9	Totals:	max	5920.6	18	36457.537	29	16233.799	24						
10		min	-5920.6	19	13530.05	24	-16233.799	25						

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn
1	M1	W8X13	0.227	85.99	29	0.058	127	y	29	38237.99	172800	8062.5	24393.047	1.135	H1-1b
2	M2	W8X13	0.167	62.177	29	0.03	127	y	29	38237.99	172800	8062.5	23819.738	1.108	H1-1b
3	M3	W8X13	0.278	42.333	29	0.059	0	y	29	38237.99	172800	8062.5	26876.634	1.25	H1-1b
4	M4	W8X13	0.275	42.333	29	0.059	0	y	29	38237.99	172800	8062.5	26971.89	1.255	H1-1b
5	M5	W8X13	0.157	54.24	29	0.025	0	y	29	38237.99	172800	8062.5	24787.115	1.153	H1-1b
6	M6	W8X13	0.215	48.948	29	0.037	0	y	29	38237.99	172800	8062.5	25598.28	1.191	H1-1b
7	M7	W8X13	0.015	23.5	29	0.017	48	y	29	136343.447	172800	8062.5	42750	1.074	H1-1b
8	M8	W8X13	0.006	25	29	0.006	48	y	29	136343.447	172800	8062.5	42750	1.149	H1-1b
9	M9	W8X13	0.007	24	29	0.005	48	y	29	136343.447	172800	8062.5	42750	1.157	H1-1b

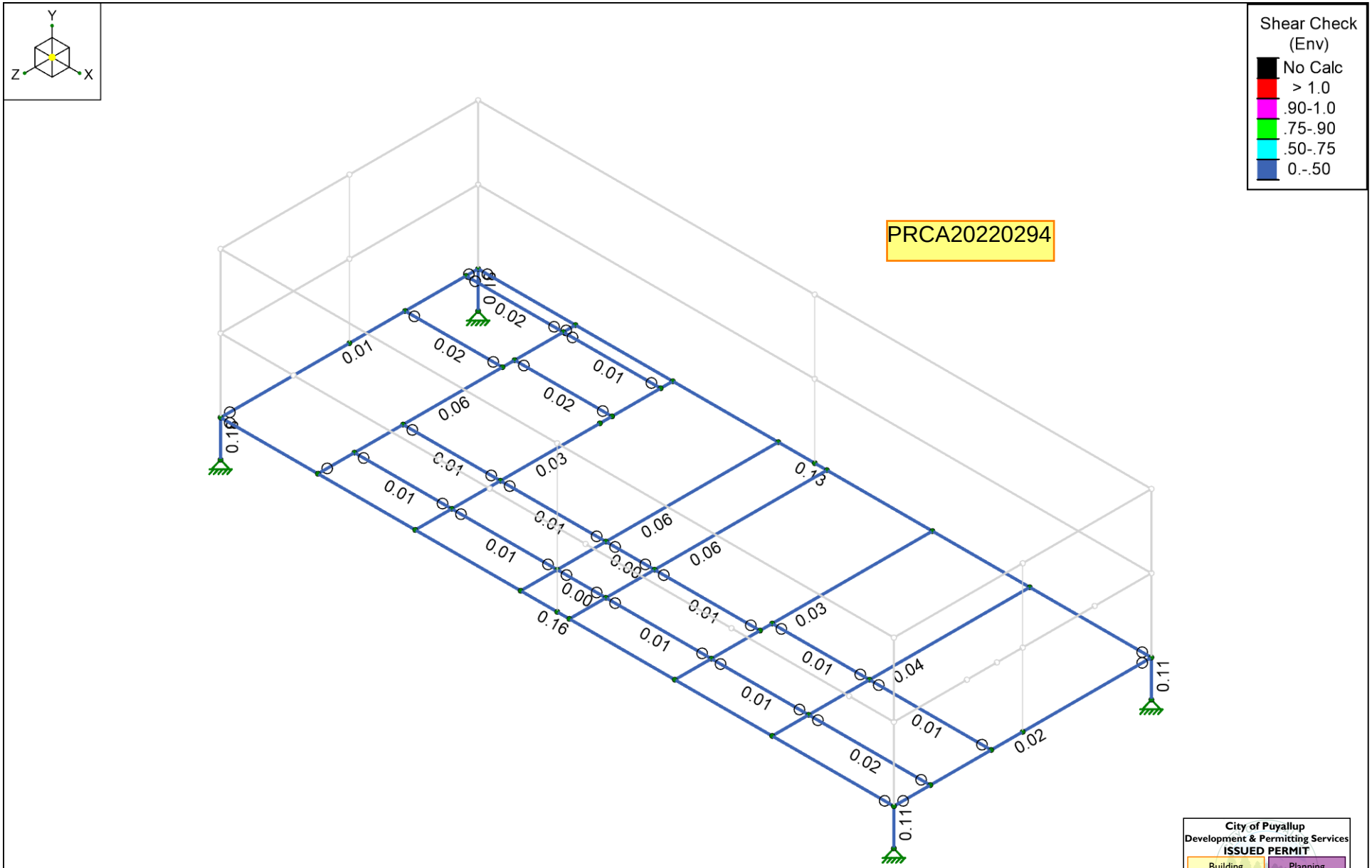
Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-ft]	phi*Mn z-z [lb-ft]	Cb	Eqn
10	M10	W8X13	0.007	26	29	0.007	52	y	29	130848.288	172800	8062.5	42750	1.14	H1-1b
11	M11	W8X13	0.011	26	29	0.007	52	y	29	130848.288	172800	8062.5	42750	1.156	H1-1b
12	M12	W8X13	0	24	13	0.001	24	y	29	162860.728	17		42750	1.136	H1-1b*
13	M13	W8X13	0.001	12	29	0.002	24	y	29	162860.728	17		42750	1.136	H1-1b
14	M14	W8X13	0.009	26	29	0.006	52	y	29	130848.288	172800	8062.5	42750	1.158	H1-1b
15	M15	W8X13	0.006	26	29	0.007	0	y	29	130848.288	172800	8062.5	42750	1.151	H1-1b
16	M16	W8X13	0.006	24	29	0.005	0	y	29	136343.447	172800	8062.5	42750	1.155	H1-1b
17	M17	W8X13	0.016	30	29	0.016	0	y	29	119329.465	172800	8062.5	40427.808	1.081	H1-1b
18	M18	W8X13	0.008	23.5	29	0.005	0	y	29	136343.447	172800	8062.5	42750	1.178	H1-1b
19	M19	W8X13	0.02	30	29	0.014	60	y	29	119329.465	172800	8062.5	41052.257	1.098	H1-1b
20	M20	W8X13	0.013	23	29	0.018	48	y	29	136343.447	172800	8062.5	42183.618	1.053	H1-1b
21	M21	W16X26	0.076	166	29	0.156	166	y	29	78609.9	345600	20550	165750	1.467	H1-1b
22	M22	W16X26	0.08	166	29	0.127	166	y	29	78609.9	345600	20550	165750	1.372	H1-1b
23	M23	W10X15	0.016	91.281	29	0.015	127	y	29	105336.908	198450	8625	60000	1.155	H1-1b
24	M24	W10X15	0.016	63.5	29	0.018	63.5	y	29	105336.908	198450	8625	60000	2.226	H1-1b
25	M25	HSS4.000X0.226	0.843	18	13	0.178	18		12	93461.025	94500	9513	9513	1.667	H1-1b
26	M26	HSS4.000X0.226	0.841	18	12	0.178	18		12	93461.025	94500	9513	9513	1.667	H1-1b
27	M27	HSS4.000X0.226	0.536	18	13	0.111	18		13	93461.025	94500	9513	9513	1.667	H1-1b
28	M28	HSS4.000X0.226	0.534	18	12	0.111	18		12	93461.025	94500	9513	9513	1.667	H1-1b
29	M41	C6X8.2	0.035	24	29	0.015	48	y	29	59853.134	107550	2927.557	19350	1.238	H1-1b
30	M42	C6X8.2	0.027	24	29	0.013	48	y	29	59853.134	107550	2927.557	19350	1.26	H1-1b



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-13
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

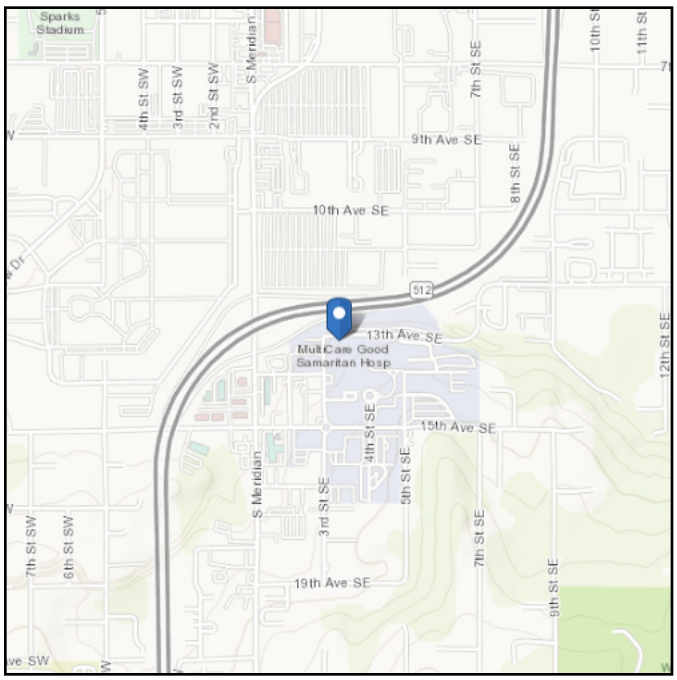
Morrison Hershfield	Site#: WA6659 / GOOD SAMARITAN	SK-14
ML		Dec 10, 2021
SML-052R7 / 2000479		Platform Analysis.r3d

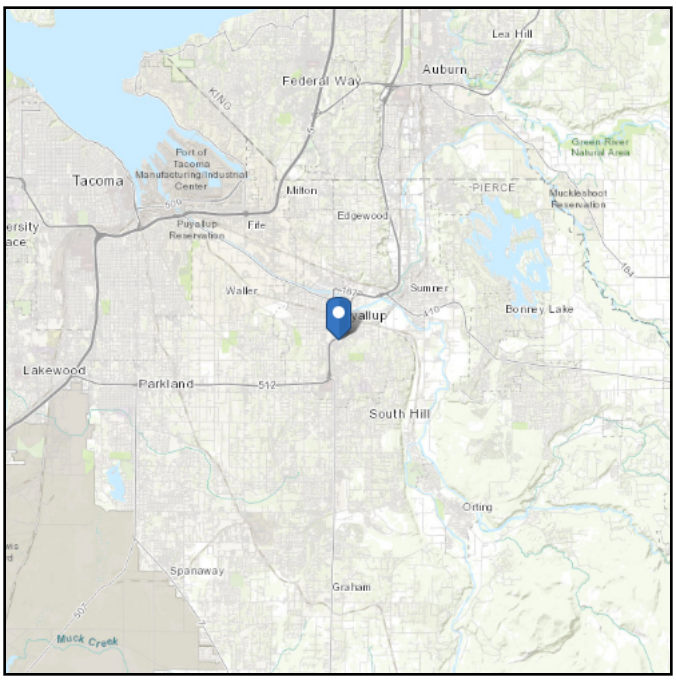
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: IV
Soil Class: D - Default (see Section 11.4.3)

Elevation: 88.31 ft (NAVD 88)
Latitude: 47.1795
Longitude: -122.290558





Wind

Results:

Wind Speed	108 Vmph
10-year MRI	67 Vmph
25-year MRI	73 Vmph
50-year MRI	78 Vmph
100-year MRI	83 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Fri Dec 10 2021

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Seismic

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	1.267	S_{D1} :	N/A
S_1 :	0.436	T_L :	6
F_a :	1	PGA :	0.5
F_v :	N/A	PGA_M :	0.55
S_{MS} :	1.267	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1.5
S_{DS} :	0.845	C_v :	1.353

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Fri Dec 10 2021

Date Source: USGS Seismic Design Maps

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

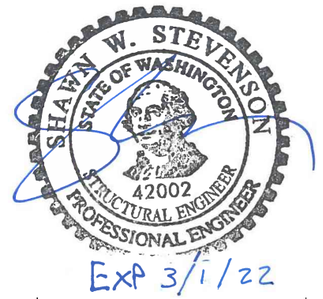
PRCA20220294

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

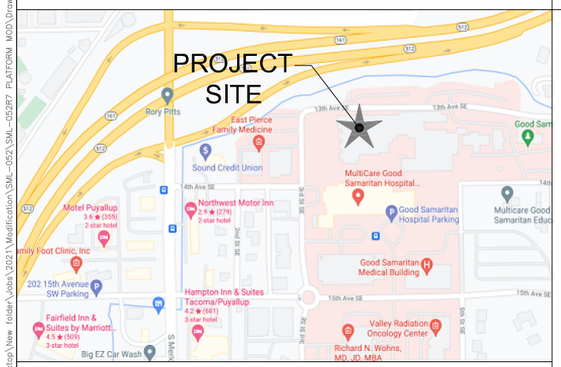
SMARTLINK, LLC, USA
11232 120TH AVE NE, SUITE 204
KIRKLAND, WA 98034



GOOD SAMARITAN
SITE ID: 75153-A

407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

SITE LOCATION



DIRECTIONS

FROM SEATTLE–TACOMA INTERNATIONAL AIRPORT:

GET ON WA–518 E IN TUKWILA FROM AIRPORT EXPRESSWAY. DRIVE FROM WA–167 S TO PUYALLUP. TAKE THE EXIT TOWARD MERIDIAN ST S FROM WA–161 S/WA–512 W. CONTINUE ON S MERIDIAN. TAKE 3RD ST SE TO 13TH AVE SE. TURN LEFT ONTO S MERIDIAN. TURN LEFT ONTO 15TH AVE SE. AT THE ROUNDABOUT, TAKE THE 3RD EXIT ONTO 3RD ST SE. 3RD ST SE TURNS SLIGHTLY RIGHT AND BECOMES 13TH AVE SE. DESTINATION WILL BE ON THE RIGHT.

PROJECT CONTACTS

MHC PROJECT ENGINEER

Shawn W. Stevenson — Senior Engineer
(360) 314–5994
SStevenson@morrisonhershfield.com

Lance Cooke — Project Manager
(360) 487–9132
LCooke@morrisonhershfield.com

CLIENT CONTACT

John Evans — Project Manager
(916) 527–4157
Michael.Chong@smartlinkgroup.com

PROJECT DATA

TOWER HEIGHT: 68.08' BUILDING

ANALYSIS REPORT: MH PROJECT NO. SML–052R7 / 2000479
DATED: 12/13/2021

CODE COMPLIANCE

THIS MODIFICATION DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

DESIGN STANDARD:
2018 INTERNATIONAL BUILDING CODE
ASCE 7–16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
AISC 325–17, MANUAL OF STEEL CONSTRUCTION
ACI 318–19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

WIND DESIGN:
- WIND SPEED: 108 MPH (ULTIMATE 3–SEC GUST)
- EXPOSURE CATEGORY: C
- RISK CATEGORY: IV
- TOPO. FACTOR, K_{ZT}: 1.0

EARTHQUAKE DESIGN:
- SEISMIC DESIGN CATEGORY: D
- RISK CATEGORY: IV
- SITE CLASS: D
- S_S: 1.266g
- S_1: 0.436g

LIST OF DRAWINGS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

No.	Date	Action
7		
6		
5		
4		
3		
2		
1		
0	12/13/21	ISSUED FOR CONSTRUCTION

MORRISON HERSHFIELD
1455 Lincoln Parkway , Suite 500
Atlanta, GA 30346
Tel:770-379-8500 Fax: 770-379-8501
www.morrisonhershfield.com

Client:

Project:
GOOD SAMARITAN
SITE ID: 75153–A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

Drawing Title:
COVER SHEET

Project No.
2000479: SML–052R7

Designer:	Date:
ML	12/13/21
Drawn By:	Checked By:
MG	SWS
PM Review:	Client Approval
GLC	
Issue No.	Drawing No.
0	T1

PRCA20220294

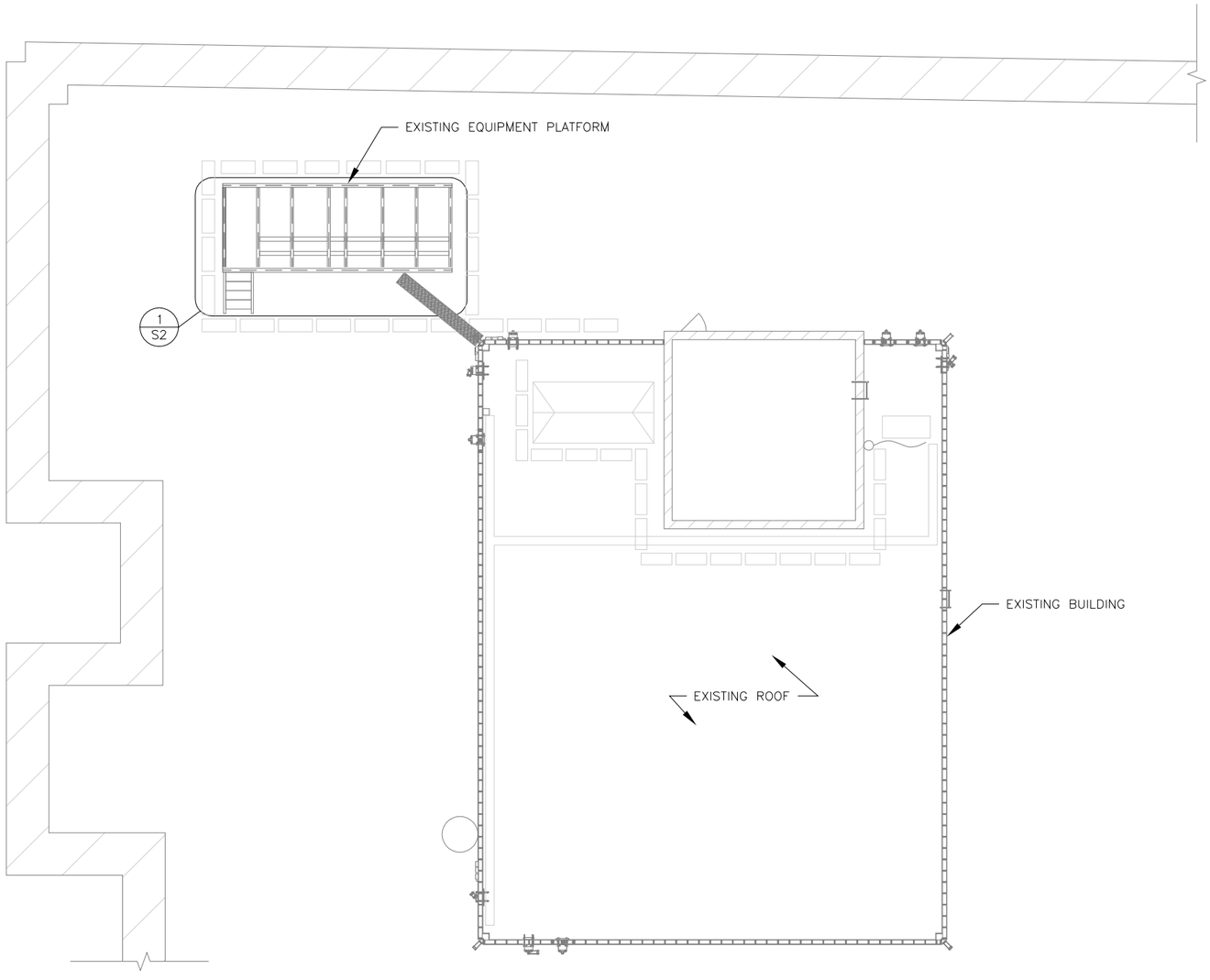
MODIFICATION SCHEDULE

1. SCOPE OF WORK INCLUDES REMOVING TRANSVERSE MEMBER OF EQUIPMENT PLATFORM AND REPLACE WITH NEW W10x15, 10'-0"± LONG. REFER SHEET S2 & S3 FOR DETAILS.
2. USE 3/4"ø, A325 TYPE-X BOLT FOR TRANSVERSE MEMBER END CONNECTIONS.
3. THE CONTRACTOR SHALL VISIT THE SITE; ANY PROBLEMS WITH ACCESS, INTERFERENCE, ETC. SHALL BE RESOLVED PRIOR TO BIDDING THE JOB.
4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
5. FIELD VERIFY ALL BOLT SIZES PRIOR TO CONSTRUCTION.
6. WORK TO BE PERFORMED ONLY DURING CALM DAYS (WINDS LESS THAN 15 MPH).
7. CONTRACTOR TO MEASURE ALL DIMENSIONS BEFORE CREATING SHOP DRAWINGS. NOTIFY THE EOR IF THE FIELD DIMENSIONS CONFLICT WITH THE DESIGN.

CONTRACTOR SUBMITTALS

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SUBMITTALS TO THE ENGINEER FOR REVIEW:

1. BILL OF MATERIAL, MATERIAL TEST RESULTS & SHOP DRAWINGS.



ROOF PLAN

S1 SCALE: NTS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

PRCA20220294

SHAWN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

EXP 3/1/22

No.	Date	Action
7		
6		
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0	12/13/21	ISSUED FOR CONSTRUCTION

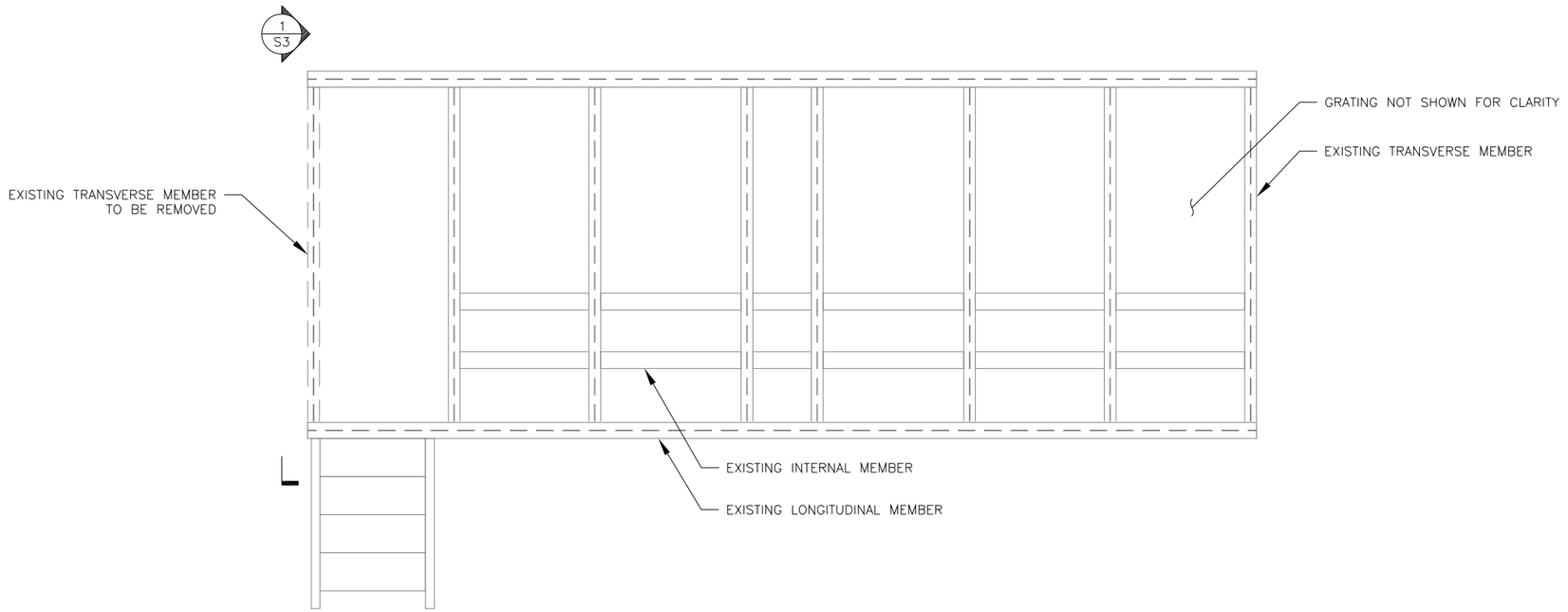
MORRISON HERSHFIELD
1455 Lincoln Parkway , Suite 500
Atlanta, GA 30346
Tel:770-379-8500 Fax: 770-379-8501
www.morrisonhershfield.com

Client: smartlink

Project:
GOOD SAMARITAN
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

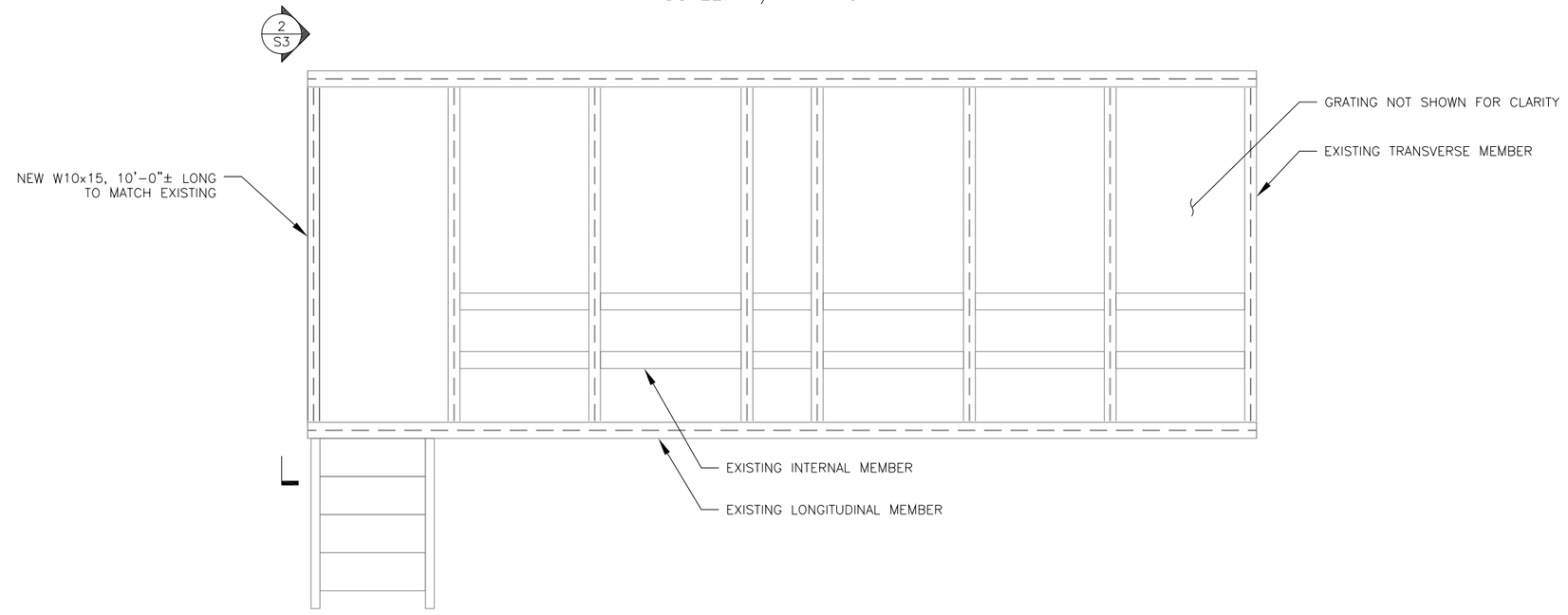
Drawing Title:
PARTIAL ROOF PLAN & MODIFICATION SCHEDULE

Project No. 2000479: SML-052R7	
Designer: ML	Date: 12/13/21
Drawn By: MG	Checked By: SWS
PM Review: GLC	Client Approval
Issue No. 0	Drawing No. S1



1 S2 PLATFORM PLAN VIEW (EXISTING)

SCALE: 1/4"=1'-0"



2 S2 PLATFORM PLAN VIEW (PROPOSED)

SCALE: 1/4"=1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

PRCA20220294

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

SHAWN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

EXP 3/1/22

No.	Date	Action
7		
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0	12/13/21	ISSUED FOR CONSTRUCTION

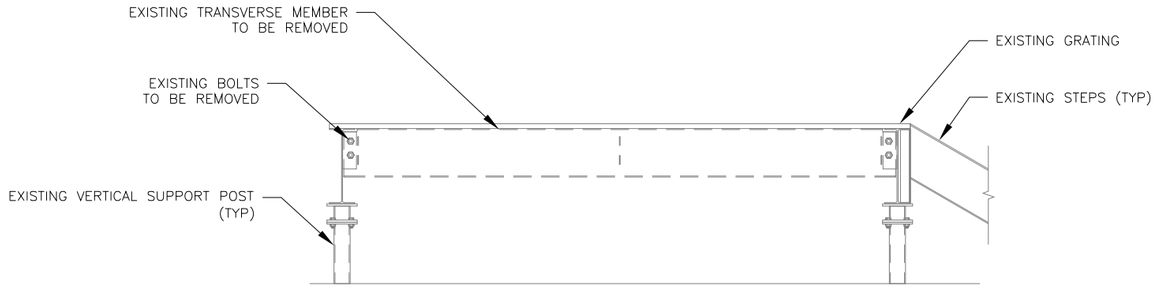
MORRISON HERSHFIELD
1455 Lincoln Parkway , Suite 500
Atlanta, GA 30346
Tel:770-379-8500 Fax: 770-379-8501
www.morrisonhershfield.com

Client: smartlink

Project:
GOOD SAMARITAN
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

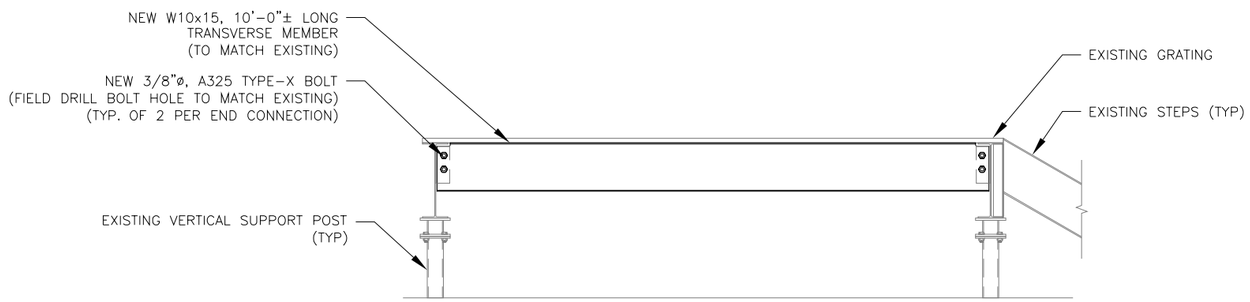
Drawing Title:
PLATFORM PLANS

Project No.: 2000479: SML-052R7	
Designer: ML	Date: 12/13/21
Drawn By: MG	Checked By: SWS
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: S2



1/S3 PLATFROM SIDE VIEW (EXISTING)

SCALE: 3/8"=1'-0"



2/S3 PLATFROM SIDE VIEW (PROPOSED)

SCALE: 3/8"=1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

PRCA20220294

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

SHAWN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

EXP 3/1/22

No.	Date	Action
7		
6		
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1		
0	12/13/21	ISSUED FOR CONSTRUCTION

MORRISON HERSHFIELD
1455 Lincoln Parkway , Suite 500
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Tel:770-379-8500 Fax: 770-379-8501
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Client: smartlink

Project:
GOOD SAMARITAN
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

Drawing Title:
PLATFORM SIDE VIEWS

Project No.
2000479: SML-052R7

Designer:	Date:
ML	12/13/21
Drawn By:	Checked By:
MG	SWS
PM Review:	Client Approval
GLC	

Issue No. 0

Drawing No. S3

GENERAL:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR	–	SMARTLINK
SUBCONTRACTOR	–	GENERAL CONTRACTOR (CONSTRUCTION)
OEM	–	ORIGINAL EQUIPMENT MANUFACTURER

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. THE SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
12. THE SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
13. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY THE SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH THE CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
14. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
15. THE SUBCONTRACTOR SHALL NOT USE OR INSTALL ANY MATERIAL CONTAINING ASBESTOS OR LEAD PAINT CONTENT. THE USE OF SUCH MATERIAL IS STRICTLY PROHIBITED.

INSTALLER:

1. ALL CONTRACTORS MUST ADHERE TO ALL SITE AND TOWER SAFETY PROCEDURES AND PROVIDE THIS DOCUMENTATION IN WRITING IF REQUESTED TO TOWER OWNER.
2. TOWER OWNER SHALL BE CONTACTED IMMEDIATELY TO EVALUATE ANY EXISTING CONDITIONS THAT WILL AFFECT THE SAFETY AND SCOPE OF WORK.
3. CONTRACTOR TO PROVIDE THE NECESSARY CERTIFICATIONS OF ALL WORKERS ON THE TOWER TO OWNER UPON REQUEST.
4. THE CONTRACTOR SHALL SUPERVISE ALL SAFETY PROGRAMS AND PRECAUTIONS IN CONNECTION WITH THIS WORK AND MUST PROVIDE WRITTEN DOCUMENTS OF THESE PROCEDURES.
5. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING; NO SITE VISIT HAS BEEN PERFORMED BY MORRISON HERSHFIELD. ALL INFORMATION PROVIDED ABOUT THE TOWER HAS BEEN TAKEN FROM OTHER SOURCES AND HAS BEEN ASSUMED TO BE RELIABLE.
6. EVERY ATTEMPT IS TO BE MADE TO AVOID CARRIER DOWNTIME. ALL COAX AND ITEMS CURRENTLY ON TOWER MUST BE RETURNED TO EQUAL OR BETTER THAN ORIGINAL CONDITION PRIOR TO COMPLETION. ANY DOWNTIME OR CHANGES ARE TO BE COORDINATED IN WRITING WITH TOWER OWNER.
7. WORK IS TO BE CONTAINED TO THE SITE COMPOUND AREA ONLY. ANY OUTSIDE OR ADJACENT PROPERTY NEEDED TO PERFORM ACCESS OR SCOPE OF WORK TO BE REQUESTED IN WRITING TO TOWER OWNER.

STRUCTURAL STEEL:

1. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO TIA/EIA-222-H "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES" AND AISC STEEL MANUAL OF STEEL CONSTRUCTION, UNO.
2. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND CONTRACT SPECIFICATIONS.
3. ALL STRUCTURAL STEEL IS TO BE NEW AND CONFORM TO THE FOLLOWING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

   ALL ANGLE STEEL SHALL BE A36 (FY = 36 KSI) UNLESS NOTED OTHERWISE.

   ALL PIPE STEEL SHALL BE A53 GRADE-B (FY = 35 KSI) UNLESS NOTED OTHERWISE.

   ALL CHANNEL STEEL SHALL BE A36 (FY = 53 KSI) UNLESS NOTED OTHERWISE.

   ALL OTHER STEEL SHALL BE A36 (FY = 36 KSI) UNLESS NOTED OTHERWISE.

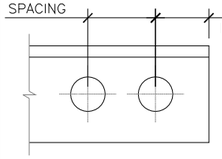
   ANY STEEL THAT DOES NOT MEET THE MINIMUM SPECIFIED YIELD STRESS (FY) SHOWN WILL BE REJECTED.

4. ANY EXISTING GALVANIZED SURFACES DAMAGED DURING MODIFICATION SHALL BE WIRE BRUSHED CLEANED AND REPAIRED BY (2) COATS COLD GALVANIZING BRUSH APPLIED PAINT (ZRC OR EQUAL).
5. ALL BOLTS SHALL BE HIGH STRENGTH CONFORMING TO ASTM A325 OR A490 TYPE 1 AS NOTED. ALL BOLTS SHALL BE HOT DIP GALVANIZED AND HAVE LOCK WASHERS OR LOCKING DEVICES. DO NOT RE-USE BOLTS. BOLT THREADS ARE TO BE EXCLUDED FROM THE SHEARING PLANES. USE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE PRETENSIONED USING THE TURN-OF-THE-NUT METHOD.
6. ALL U-BOLTS SHALL BE A307. ALL BOLTS SHALL BE HOT DIP GALVANIZED AND HAVE LOCK WASHERS OR LOCKING DEVICES. DO NOT RE-USE BOLTS. ALL U-BOLTS SHALL BE SNUG TIGHT.
7. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS. DRAWINGS SHALL BE SEALED BY THE FABRICATORS LICENSED ENGINEER.
8. PROVIDE ALL REQUIRED GUSSETS, SPACERS, FILLERS AND BATTEN PLATES.
9. MAKE NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBER OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE WRITTEN APPROVAL BY THE ENGINEER.
10. ALL EXPOSED EXTERIOR STRUCTURAL STEEL (INCLUDING BOLTS, PACK WASHERS, PINS, ETC.) TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 AND A123. FOR ALL WELDED CONNECTIONS TO BE GALVANIZED, PROVIDE WELDS ALL AROUND OR ADD SEAL WELDS WHERE STRUCTURAL WELDS ARE NOT SPECIFIED.
11. ANY SUBSTITUTES IN MATERIAL OR SCOPE OF WORK PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY MORRISON HERSHFIELD ENGINEER.
12. CONTRACTORS SHALL COORDINATE W/ MORRISON HERSHFIELD WITHIN 72 HOURS AFTER 100% COMPLETION OF THE MOUNT MODIFICATION INSTALLATION. PROPOSED LOADING WITHOUT ENGINEER APPROVAL IS PROHIBITED.

COPING AND GAGE NOTES:

BOLT SCHEDULE

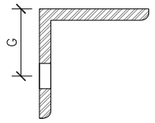
BOLT DIAMETER	STANDARD HOLE	MIN. EDGE DISTANCE	MIN. SPACING
1/2	9/16	7/8	1-1/2
5/8	11/16	1-1/8	1-7/8
3/4	13/16	1-1/4	2-1/4
7/8	15/16	1-1/2	2-5/8"
1	1-1/16	1-3/4	3



- DIMENSIONS GIVEN IN INCHES
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS

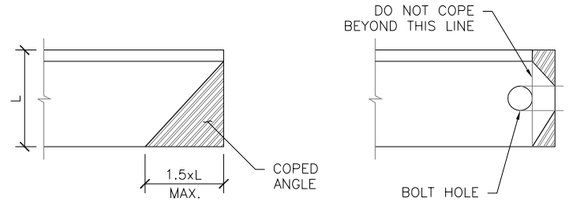
WORKABLE GAGES

LEG	4	3-1/2	3	2-1/2	2	1-3/4
G	2-1/2	2	1-3/4	1-3/8	1-1/8	1



- DIMENSIONS GIVEN IN INCHES
- MATCH EXISTING WHEN APPLICABLE

ALLOWABLE ANGLE COPE



1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRCA20220294

SHAWN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

EXP 3/1/22

No.	Date	Action
7		
6		
5		
4		
3		
2		
1		
0	12/13/21	ISSUED FOR CONSTRUCTION

MORRISON HERSHFIELD
1455 Lincoln Parkway , Suite 500
Atlanta, GA 30346
Tel:770-379-8500 Fax: 770-379-8501
www.morrisonhershfield.com

Client: smartlink

Project:
GOOD SAMARITAN
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

Drawing Title:
REINFORCING NOTES

Project No.: 2000479: SML-052R7	
Designer: ML	Date: 12/13/21
Drawn By: MG	Checked By: SWS
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: N1