PRCA20220294

Mr. Michael Chong
Smartlink, LLC
11232 120th Ave NE, Suite 204
Kirkland, WA 98034
Michael.Chong@smartlinkgroup.com

City of Puyallup
Building
ACCEPTED
JMontgomery
03/15/2022
3:18:37 PM

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

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Date: August 30, 2021

Subject: **Rooftop Mount Modification 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: Wall Mounts

Morrison Hershfield Project Number: SML-052R4 / 2000479

Dear Mr. Chong,

Morrison Hershfield is pleased to submit this "**Rooftop Mount Modification Report**" to determine the structural integrity of existing and proposed antenna mounting system for the existing and proposed equipment on the above-mentioned supporting building structure.

This analysis utilizes an ultimate 3-second gust wind speed of 108 mph as required by the 2018 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Our analysis demonstrates that the existing and proposed mounts **ARE 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	***36.9%***	***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: 2021.08.30 13:12:24-07'00'

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

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INTRODUCTION

This is a 68 ft tall building with structural steel roof framing. The proposed and existing equipment is to be installed on the existing and proposed pipe mounts at an elevation 80ft on the penthouse wall.

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:	1.266
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
Mount Mapping Report	Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 08/19/2021	MH
Mount Modification Report	Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 08/302021	MH
RF Design Sheet	AT&T, RFDS Name: WATAU3055, Date created 4/24/2017	Client

1.0 ANALYSIS LOADING

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

Table 2 – *ANALYSIS LOADING*

Mount C.L (ft)	Antenna C.L (ft)	Antenna Description	Carrier	Location	Notes
PROPOSED					
80.0	80.0	(2) KMW EPBQ-654L8H8-L2 Panel	AT&T	215°	1
		(1) Nokia AirScale Dual RRH 4T4R B25/66 320W (AHFIB) RRH		-	
		(1) Nokia AirScale RRH 4T4R B5 160W (AHCA) RRH			
		(1) Nokia B12/B14 Airscale Dual band RRH 4T4R320W(AHLBA) RRH			
	79.0	(4) KMW EPBQ-654L8H8-L2 Panel		40°/315°	
		(2) Nokia AirScale Dual RRH 4T4R B25/66 320W (AHFIB) RRH		-	
		(2) Nokia AirScale RRH 4T4R B5 160W (AHCA) RRH			
		(2) Nokia B12/B14 Airscale Dual band RRH 4T4R320W(AHLBA) RRH			
EXISTING					
80.0	80.0	(1) KMW EPBQ-652L8H8 Panel	AT&T	215°	2
		(1) Lucent RRH4x25-WCS-4R RRH		-	
		(1) Lucent B25 RRH4X30-4R RRH			
		(3) Raycap DC2-48-60-0-9E Junction Box			
		(1) Raycap DC12 Squid			
		(1) Junction Box			
	79.0	(2) KMW EPBQ-652L8H8 Panel		40°/315°	
		(2) Lucent RRH4x25-WCS-4R RRH		-	
		(2) Lucent B25 RRH4X30-4R RRH			
		(5) Fiber Slack Box			
	79.0	(6) Raycap DC2-48-60-0-9E Junction Box			
		(2) Junction Box			
		(2) Raycap DC12 Squid			
	80.0	(1) KMW ET-X-UW-70-16-70-18-iR-AT Panel		215°	3
		(3) Kathrein 742-265 Panel		-	
		(6) 2-LGP 21401 TMA			
		(1) Lucent RRH2x60-850 RRH			
		(1) Lucent RRH2x40-AWS RRH		40°/215°/315°	
		(1) Lucent RRH2x40W-07L RRH		-	
	79.0	(2) KMW ET-X-UW-70-16-70-18-iR-AT Panel		40°/315°	
		(2) Lucent RRH2x60-850 RRH		-	
		(2) Lucent RRH2x40-AWS RRH			
		(2) Lucent RRH2x40W-07L RRH			

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. Proposed antennas and equipment are to be installed on the existing antenna pipe mounts.
2. Existing antennas and equipment that are to remain.
3. Existing antenna and equipment to be removed and have not been considered in this analysis.

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.

Wind loading on equipment for various loading cases were determined in accordance with ASCE 7-16. Select output from the analysis is included in the report

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 mount geometry and member sizes are taken from the mount mapping report by Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 08/19/2021 and is considered to be correct.
8) **The proposed mount geometry and member sizes are considered from mount modification drawings prepared by Morrison Hershfield, Site Name: GOOD SAMARITAN, dated 08/30/2021, and are considered to be correct.**
9) The existing and proposed loading are taken from the AT&T, RFDS Name: WATAU3055, date created 4/24/2017, 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.

Based on our analysis results, the existing and proposed mounts **ARE within capacity** to support the loads under the current loading scenario

Mount Component Stresses vs. Capacity (Wall Mounts)

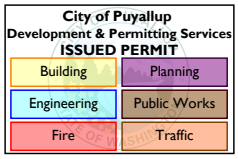
Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Mount Pipe	M1	80.0	20.2	Pass
1	Connection Check	-	80.0	36.9	Pass

Structure Rating (max from all components) =	36.9%

4.0 RECOMMENDATIONS

The existing and proposed mounts will have sufficient capacity to support the final loading configuration once the proposed modifications are installed. Modification drawings are attached.

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



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Existing Mount View:

LOADING FRONT VIEW (ALPHA SECTOR)

LOADING FRONT VIEW (ALPHA SECTOR)

LOADING FRONT VIEW (BETA SECTOR)

LOADING FRONT VIEW (BETA SECTOR)

LOADING FRONT VIEW (GAMMA SECTOR)

LOADING FRONT VIEW (GAMMA SECTOR)

WIND LOAD CALCULATIONS ON APPURTENANCES:

Code Search

Code: International Building Code 2018

Occupancy:

Occupancy Group = B Business

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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

1. AT&T's Proposed (1) KMW EPBQ-654L8H8-L2 Panel (96"x21"x6.30", Wt = 86 lb)

Front:

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.22	C_f =	1.85
Height (s)	8.0 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	1.8 ft	Kz =	1.208	As =	14.0 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	700 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.22	C_f =	1.85
Height (s)	8.0 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	1.8 ft	Kz =	1.204	As =	14.0 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	698 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.07	C_f =	1.93
Height (s)	8.0 ft	Lr/s =	0.00	F = qz G Cf As =	**52.3 As**
Width (B)	0.5 ft	Kz =	1.208	As =	4.2 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	220 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.07	C_f =	1.93
Height (s)	8.0 ft	Lr/s =	0.00	F = qz G Cf As =	**52.1 As**
Width (B)	0.5 ft	Kz =	1.204	As =	4.2 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	219 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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2. AT&T's Proposed (1) Nokia AirScale Dual RRH 4T4R B25/66 320W (AHFIB) RRH (28.74"x12.126" x 5.866", Wt = 88.190 lb)

Front:

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.42	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	1.0 ft	Kz =	1.208	As =	2.4 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	121 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.42	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	1.0 ft	Kz =	1.204	As =	2.4 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	121 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.20	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	0.5 ft	Kz =	1.208	As =	1.2 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	59 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.20	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	0.5 ft	Kz =	1.204	As =	1.2 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	58 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

3. AT&T's Proposed (1) Nokia AirScale RRH 4T4R B5 160W (AHCA) (13.6"x11.6" x 6.5", Wt = 36.80 lb)

Front:

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

		s/h =	0.01	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.85	C_f =	1.81
Height (s)	1.1 ft	Lr/s =	0.00	F = qz G Cf As =	**49.0 As**
Width (B)	1.0 ft	Kz =	1.208	As =	1.1 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	54 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.01	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.85	C_f =	1.81
Height (s)	1.1 ft	Lr/s =	0.00	F = qz G Cf As =	**48.9 As**
Width (B)	1.0 ft	Kz =	1.204	As =	1.1 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	54 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.01	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.48	C_f =	1.85
Height (s)	1.1 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	0.5 ft	Kz =	1.208	As =	0.6 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	31 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.01	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.48	C_f =	1.85
Height (s)	1.1 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	0.5 ft	Kz =	1.204	As =	0.6 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	31 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

4. AT&T's Proposed (1) Nokia Airscale Dual band RRH 4T4R B12/B14 320W (AHLBA) RRH (28.70"x15.35"x9.45", Wt = 101.41 lb)

Front:

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.53	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	1.3 ft	Kz =	1.208	As =	3.1 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	153 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.53	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**49.8 As**
Width (B)	1.3 ft	Kz =	1.204	As =	3.1 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	152 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.33	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	0.8 ft	Kz =	1.208	As =	1.9 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	94 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.33	C_f =	1.85
Height (s)	2.4 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	0.8 ft	Kz =	1.204	As =	1.9 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	94 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

5. AT&T's Proposed (1) KMW EPBQ-652L8H8 Panel (99.6"x12" x 6.3", Wt = 62.4 lb)

Front:

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.12	C_f =	1.89
Height (s)	8.3 ft	Lr/s =	0.00	F = qz G Cf As =	**51.1 As**
Width (B)	1.0 ft	Kz =	1.208	As =	8.3 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	424 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.11	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.12	C_f =	1.89
Height (s)	8.3 ft	Lr/s =	0.00	F = qz G Cf As =	**50.9 As**
Width (B)	1.0 ft	Kz =	1.204	As =	8.3 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	423 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.10	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.06	C_f =	1.94
Height (s)	8.3 ft	Lr/s =	0.00	F = qz G Cf As =	**52.3 As**
Width (B)	0.5 ft	Kz =	1.208	As =	4.4 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	228 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.11	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.06	C_f =	1.94
Height (s)	8.3 ft	Lr/s =	0.00	F = qz G Cf As =	**52.2 As**
Width (B)	0.5 ft	Kz =	1.204	As =	4.4 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	227 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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6. AT&T's Proposed (1) Lucent RRH4x25-WCS-4R RRH (29.5"x11.8"x7.9", Wt = 66 lb)

Front:

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.40	C_f =	1.85
Height (s)	2.5 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	1.0 ft	Kz =	1.208	As =	2.4 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	122 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.40	C_f =	1.85
Height (s)	2.5 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	1.0 ft	Kz =	1.204	As =	2.4 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	122 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.27	C_f =	1.85
Height (s)	2.5 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	0.7 ft	Kz =	1.208	As =	1.6 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	81 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.03	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.27	C_f =	1.85
Height (s)	2.5 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	0.7 ft	Kz =	1.204	As =	1.6 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	81 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

7. AT&T's Proposed (1) Lucent B25 RRH4X30-4R RRH (21.4"x12"x7.2", Wt = 51 lb)

Front:

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

		s/h =	0.02	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.56	C_f =	1.84
Height (s)	1.8 ft	Lr/s =	0.00	F = qz G Cf As =	**49.8 As**
Width (B)	1.0 ft	Kz =	1.208	As =	1.8 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	89 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.02	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.56	C_f =	1.84
Height (s)	1.8 ft	Lr/s =	0.00	F = qz G Cf As =	**49.7 As**
Width (B)	1.0 ft	Kz =	1.204	As =	1.8 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	89 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

Side:

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

		s/h =	0.02	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	0.34	C_f =	1.85
Height (s)	1.8 ft	Lr/s =	0.00	F = qz G Cf As =	**50.0 As**
Width (B)	0.6 ft	Kz =	1.208	As =	1.1 sf
Wall Return (Lr) =		qz =	31.8 psf	F =	53 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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

		s/h =	0.02	**Case A & B**	
Dist to sign top (h)	79.0 ft	B/s =	0.34	C_f =	1.85
Height (s)	1.8 ft	Lr/s =	0.00	F = qz G Cf As =	**49.9 As**
Width (B)	0.6 ft	Kz =	1.204	As =	1.1 sf
Wall Return (Lr) =		qz =	31.7 psf	F =	53 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used			

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WIND LOAD CALCULATIONS ON MOUNT MEMBERS:

1. P2.5STD Pipe Mount (2.875" O.D) Wind Load

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

		s/h =	0.00	**Case A & B**	
Dist to sign top (h)	80.0 ft	B/s =	4.17	C_f =	1.85
Height (s)	0.2 ft	Lr/s =	4.17	F = qz G Cf As =	**48.2 As**
Width (B)	1.0 ft	Kz =	1.208	As =	0.2 sf
Wall Return (Lr) =	1.0 ft	qz =	30.6 psf	F =	12 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Use			

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SEISMIC LOAD CALCULATIONS ON APPURTENANCES:

Seismic Loads: IBC 2018 Strength Level Forces

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Risk Category : IV
Importance Factor (I) : 1.50
Site Class : D — Class D

Ss (0.2 sec) = 126.60 %g
S1 (1.0 sec) = 43.60 %g

Fa =	1.000	Sms =	1.266	S_{DS} =	0.844	Design Category =	D
Fv =	1.864	Sm1 =	0.813	S_{D1} =	0.542	Design Category =	D

MECH AND ELEC COMPONENTS SEISMIC COEFFICIENTS

Seismic Design Category D & Ip=1.0, therefore see ASCE7 Section 13.1.4 for exceptions

Mech or Electrical Component : Other mechanical or electrical components.
Importance Factor (Ip) : Ip = 1.0 all other components

Component Amplification Factor (a_p) =	1	h=	80.0 feet	
Comp Response Modification Factor (R_p) =	1.5	z=	80.0 feet	z/h = 1.00
Over-Strength Factor (Ωo) =	2			

$Fp = 0.4a_pSdsIpWp(1+2z/h)/Rp$ = 0.675 Wp
not greater than $Fp = 1.6SdsIpWp$ = 1.350 Wp
but not less than $Fp = 0.3SdsIpWp$ = 0.253 Wp — use Fp = 0.675 Wp

1. AT&T's Proposed (1) KMW EPBQ-654L8H8-L2 Panel (96"x21"x6.30", Wt = 86 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 86 = 58 lbs

2. AT&T's Proposed (1) Nokia AirScale Dual RRH 4T4R B25/66 320W (AHFIB) RRH (28.74"x12.126" x 5.866", Wt = 88.190 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 88 = 59.4 lbs

3. AT&T's Proposed (1) Nokia AirScale RRH 4T4R B5 160W (AHCA) (13.6"x11.6" x 6.5", Wt = 36.80 lb),

Seismic Load, FP = 0.675 WP = 0.675 x 37 = 25 lbs

4. AT&T's Proposed (1) Nokia Airscale Dual band RRH 4T4R B12/B14 320W (AHLBA) RRH (28.70"x15.35"x9.45", Wt = 101.41 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 102 = 69 lbs

5. AT&T's Proposed (1) KMW EPBQ-652L8H8 Panel (99.6"x12" x 6.3", Wt = 62.4 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 62.4 = 42 lbs

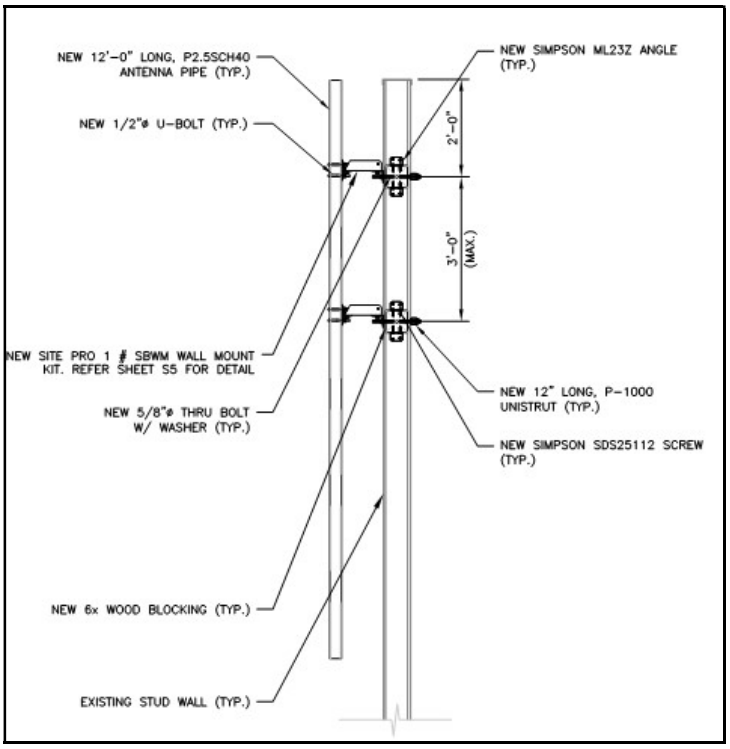
6. AT&T's Proposed (1) Lucent RRH4x25-WCS-4R RRH (29.5"x11.8"x7.9", Wt = 66 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 66 = 45 lbs

7. AT&T's Proposed (1) Lucent B25 RRH4X30-4R RRH (21.4"x12"x7.2", Wt = 51 lb)

Seismic Load, FP = 0.675 WP = 0.675 x 51 = 35 lbs

Proposed Mount Connection check:



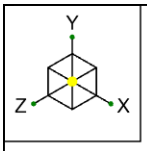
Bolts used for connection are (2) 5/8" diameter Thru-Bolt, per connection:

Maximum Factored Reactions from RISA:

Resultant reaction at each bolt
Factored Tension = 2447 lbs
Factored Shear = 854 lbs

Per AISC -15th Edition, Table 7-1 for A307 bolts:
Fnt= 45 ksi and Fnv= 27 ksi
φRn= 0.75Rn (Per Section J6, eq. J3-1)
Allowable Tension = 0.75 x 45 Ab = 6626 lbs
Allowable Shear = 0.75 x 27 Ab = 3976 lbs

Tension Capacity = 2447/6626 = 36.9% [OK!]
Shear Capacity = 854/3976 =21.4% [OK!]



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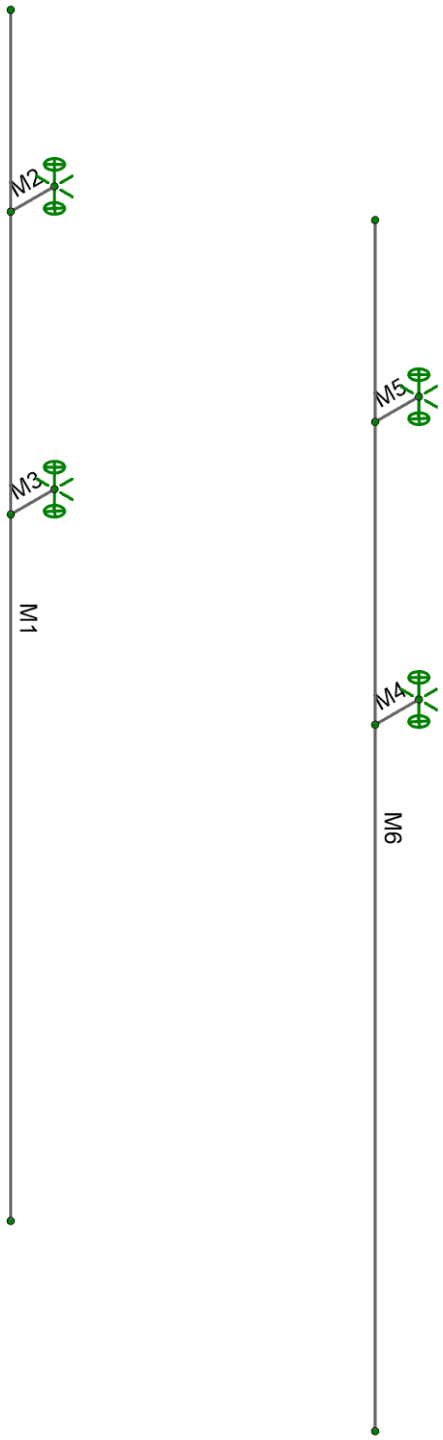

Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-2
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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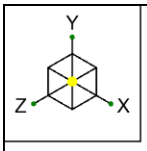

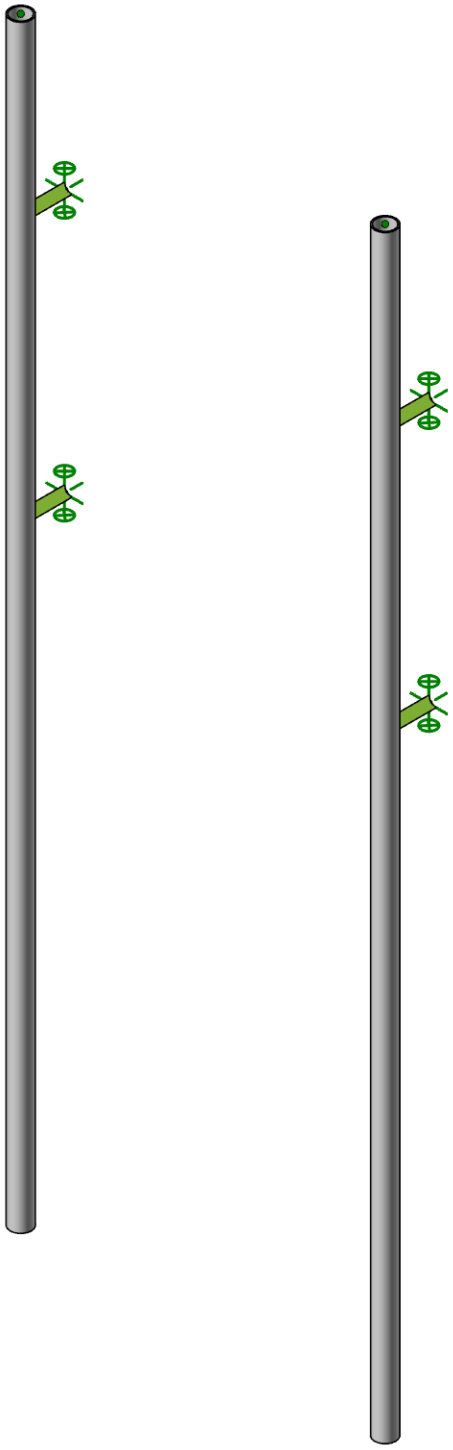

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Fire	Traffic

Member Code Checks Displayed (Enveloped)
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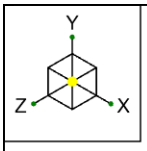
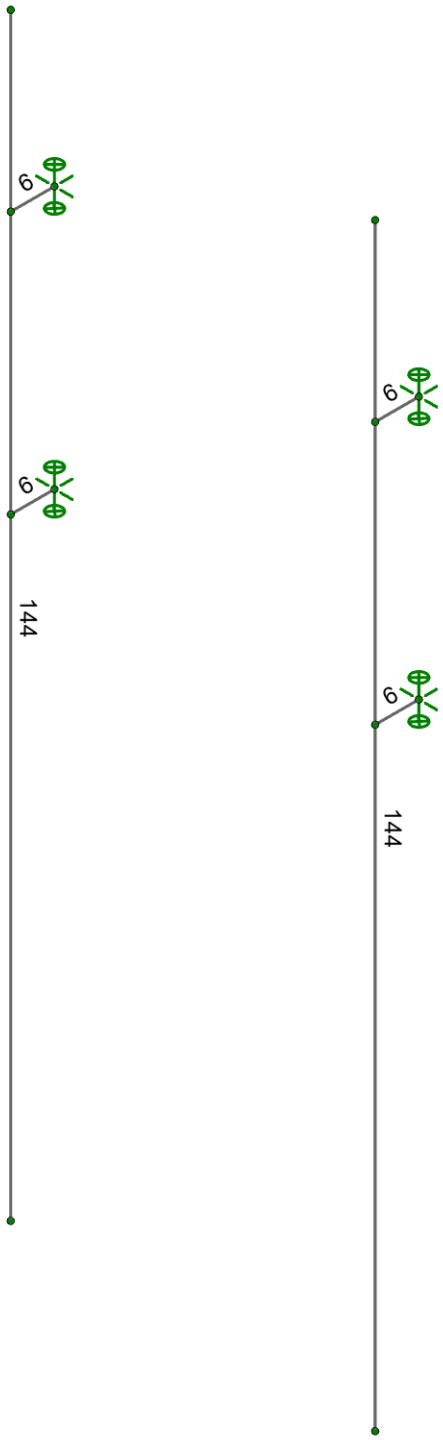
Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-1
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

PRCA20220294





Member Length (in) Displayed
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-3
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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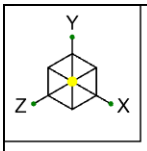

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PIPE_2.5

PIPE_2.5

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Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-4
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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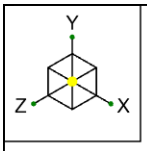

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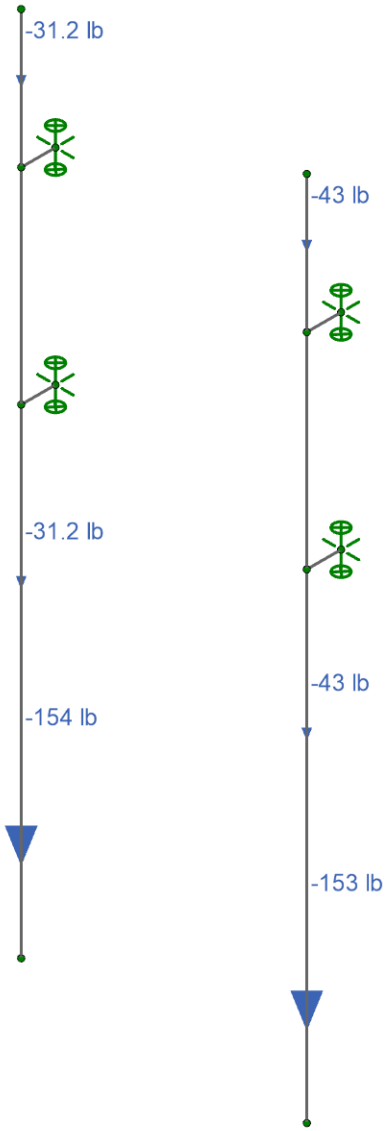

Loads: BLC 1, DL
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Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-5
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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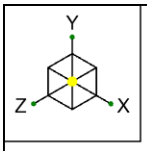

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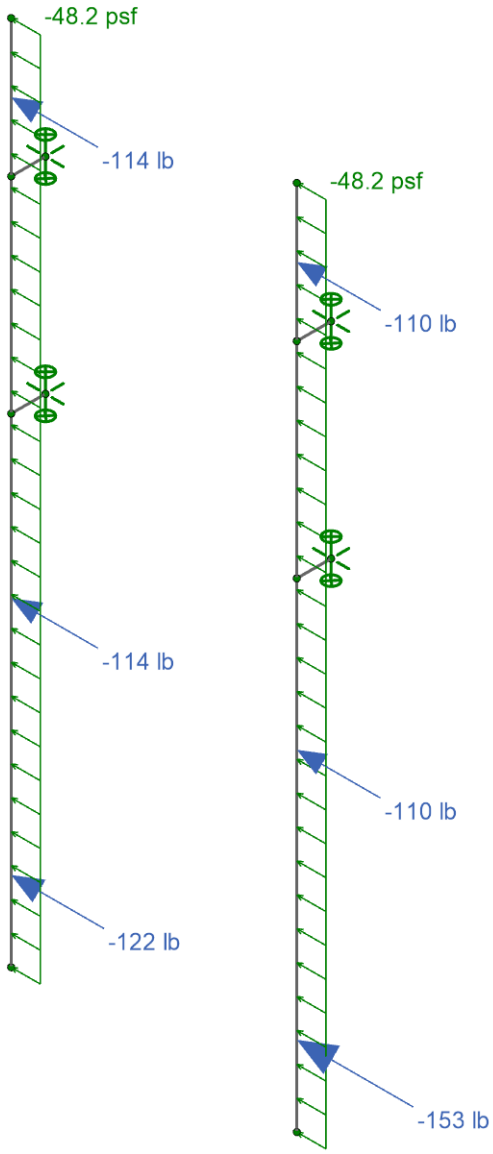

Loads: BLC 2, WL X
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-6
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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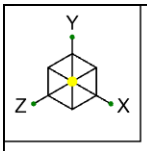

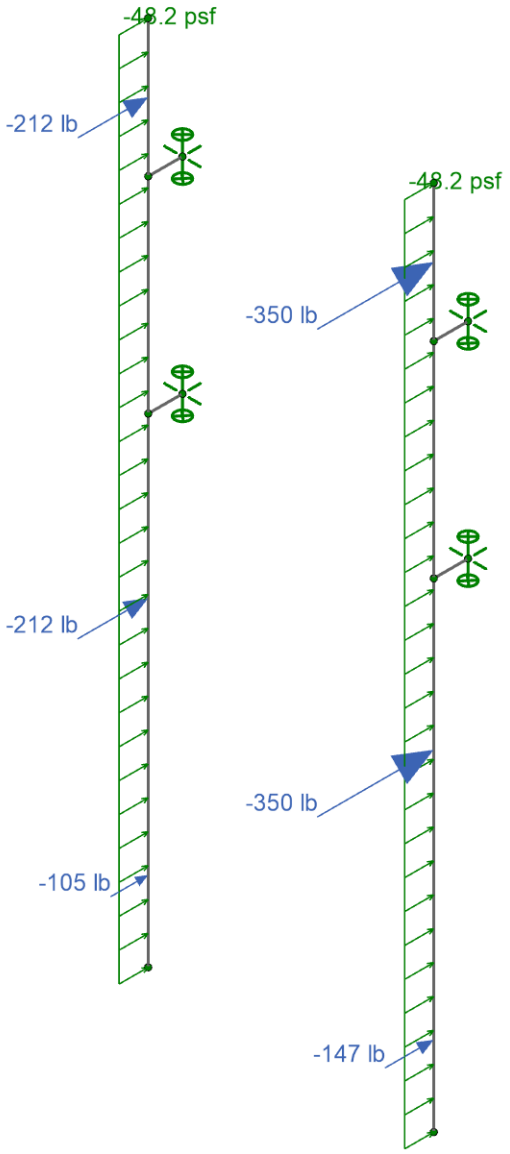

Loads: BLC 3, WL Z
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-7
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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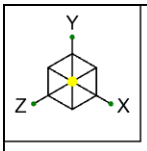

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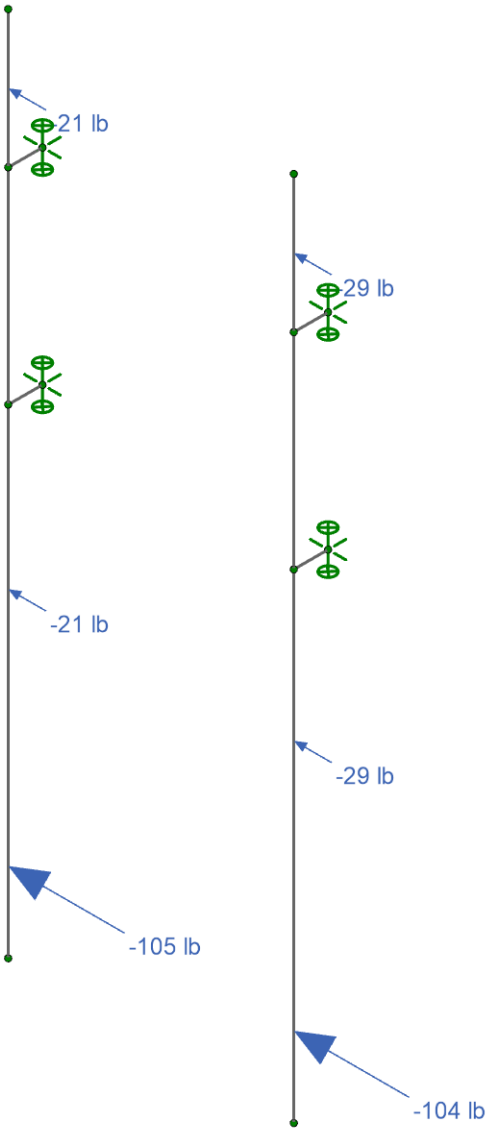
Fire	Traffic



Loads: BLC 4, EL X
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-8
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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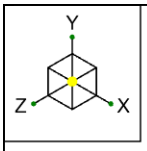

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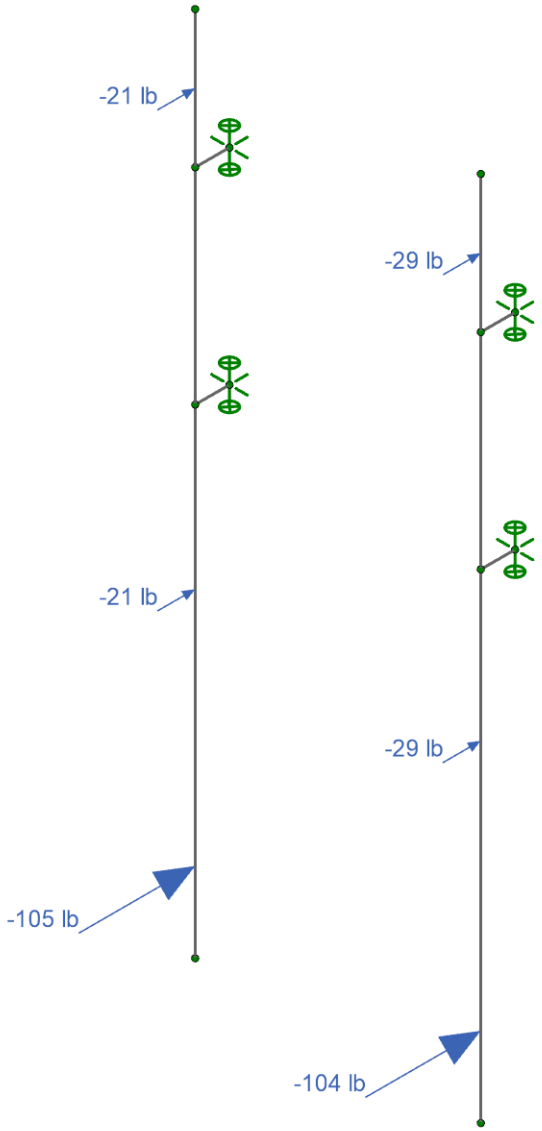

Loads: BLC 5, EL Z
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-9
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

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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	AISI S100-16: LRFD
Stiffness Adjustment	Yes (Iterative)
Wood	None
Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	None
Stiffness Adjustment	Yes (Iterative)

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

Model Settings (Continued)

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	ASCE 7-16
Risk Category	I or II
Drift Cat	Other
Base Elevation (ft)	4926.999996
Include the weight of the structure in base shear calcs	Yes

Site Parameters

S_1 (g)	0.436
SD_1 (g)	0.542
SD_S (g)	0.844
T_L (sec)	6

Structure Characteristics

T Z (sec)	
T X (sec)	
C_tX	0.02
C_tExp. Z	0.75
C_tExp. X	0.75
R Z	3
R X	3
Ω_0Z	2
Ω_0X	2
C_dZ	4
C_dX	4
ρ Z	1
ρ X	1

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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	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Mount Pipe	PIPE_2.5	Column	HSS Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Node Boundary Conditions

	Node Label	X [lb/in]	Y [lb/in]	Z [lb/in]	Y Rot [k-ft/rad]
1	N5	Reaction	Reaction	Reaction	Reaction
2	N6	Reaction	Reaction	Reaction	Reaction
3	N7	Reaction	Reaction	Reaction	Reaction
4	N8	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Design Parameters

	Label	Shape	Length [in]	Lcomp top [in]	Function
1	M1	Mount Pipe	144	Lbyy	Lateral
2	M6	Mount Pipe	144	Lbyy	Lateral

Member Point Loads (BLC 1 : DL)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
1	M1	Y	-31.2	12
2	M1	Y	-31.2	88
3	M1	Y	-154	130
4	M6	Y	-43	12
5	M6	Y	-43	86
6	M6	Y	-153	130

Member Point Loads (BLC 2 : WL X)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
1	M1	X	-114	12
2	M1	X	-114	88
3	M1	X	-122	130
4	M6	X	-110	12
5	M6	X	-110	86
6	M6	X	-153	130

Member Point Loads (BLC 3 : WL Z)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
1	M1	Z	-212	88
2	M1	Z	-212	12

Member Point Loads (BLC 3 : WL Z) (Continued)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
3	M1	Z	-105	130
4	M6	Z	-350	86
5	M6	Z	-350	12
6	M6	Z	-147	130

Member Point Loads (BLC 4 : EL X)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
1	M1	X	-21	88
2	M1	X	-21	12
3	M1	X	-105	130
4	M6	X	-29	12
5	M6	X	-29	86
6	M6	X	-104	130

Member Point Loads (BLC 5 : EL Z)

	Member Label	Direction	Magnitude [lb, lb-in]	Location [(in, %)]
1	M1	Z	-21	12
2	M1	Z	-21	88
3	M1	Z	-105	130
4	M6	Z	-29	86
5	M6	Z	-29	12
6	M6	Z	-104	130

Member Distributed Loads (BLC 2 : WL X)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-in/in]	End Magnitude [lb/ft, F, psf, lb-in/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M1	SX	-48.2	-48.2	0	%100
2	M6	SX	-48.2	-48.2	0	%100

Member Distributed Loads (BLC 3 : WL Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-in/in]	End Magnitude [lb/ft, F, psf, lb-in/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M1	SZ	-48.2	-48.2	0	%100
2	M6	SZ	-48.2	-48.2	0	%100

Member Area Loads

No Data to Print...

Basic Load Cases

	BLC Description	Category	Y Gravity	Point	Distributed
1	DL	DL	-1	6	
2	WL X	None		6	2
3	WL Z	None		6	2
4	EL X	ELX		6	
5	EL Z	ELZ		6	

Moving Loads

No Data to Print...

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4DL	Yes	Y	1	1.4				
2	1.2DL + 1.0 Wind X	Yes	Y	DL	1.2	WLX	1		
3	1.2DL - 1.0 Wind X	Yes	Y	DL	1.2	WLX	-1		
4	1.2DL + 1.0 Wind Z	Yes	Y	DL	1.2	WLZ	1		
5	1.2DL - 1.0 Wind Z	Yes	Y	DL	1.2	WLZ	-1		
6	0.9DL + 1.0 Wind X	Yes	Y	DL	0.9	WLX	1		
7	0.9DL - 1.0 Wind X	Yes	Y	DL	0.9	WLX	-1		
8	0.9DL + 1.0 Wind Z	Yes	Y	DL	0.9	WLZ	1		
9	0.9DL - 1.0 Wind Z	Yes	Y	DL	0.9	WLZ	-1		
10	IBC 16-5 (a)	Yes	Y	DL	1.2	Sds*DL	0.2	ELX	1
11	IBC 16-5 (b)	Yes	Y	DL	1.2	Sds*DL	0.2	ELZ	1
12	IBC 16-5 (c)	Yes	Y	DL	1.2	Sds*DL	0.2	ELX	-1
13	IBC 16-5 (d)	Yes	Y	DL	1.2	Sds*DL	0.2	ELZ	-1
14	IBC 16-7 (a)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELX	1
15	IBC 16-7 (b)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELZ	1
16	IBC 16-7 (c)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELX	-1
17	IBC 16-7 (d)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELZ	-1
18	IBC 16-5 (os-a)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELX	1
19	IBC 16-5 (os-b)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELZ	1
20	IBC 16-5 (os-c)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELX	-1
21	IBC 16-5 (os-d)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELZ	-1
22	IBC 16-7 (os-a)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELX	1
23	IBC 16-7 (os-b)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELZ	1
24	IBC 16-7 (os-c)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELX	-1
25	IBC 16-7 (os-d)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELZ	-1

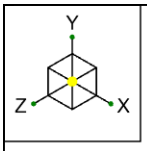
Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-in]	LC	MY [lb-in]	LC	MZ [lb-in]	LC
1	N5	max	190.848	16	849.208	11	156.892	17	0	17	1145.09	16	0	17
2		min	-190.848	14	-560.614	17	-254.535	11	0	1	-1145.09	14	0	1
3	N6	max	337.848	14	855.357	13	401.535	11	0	17	2027.09	14	0	17
4		min	-337.848	16	-557.616	15	-303.892	17	0	1	-2027.09	16	0	1
5	N7	max	344.756	14	886.136	13	413.581	11	0	17	2068.538	14	0	17
6		min	-344.756	16	-564.794	15	-308.083	17	0	1	-2068.538	16	0	1
7	N8	max	182.756	16	879.957	11	146.083	17	0	17	1096.538	16	0	17
8		min	-182.756	14	-567.791	17	-251.581	11	0	1	-1096.538	14	0	1
9	Totals:	max	309	14	821.637	1	309	15						
10		min	-309	12	429.129	15	-309	13						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-in]	phi*Mn z-z [lb-in]	Cb	Eqn
1	M1	PIPE_2.5	0.202	60	17	0.018	60	11	15797.3	50715	43155	43155	1	H1-1b
2	M6	PIPE_2.5	0.205	60	17	0.018	60	11	15797.3	50715	43155	43155	1	H1-1b

PRCA20220294



Code Check (Env)
No Calc
> 1.0
.90-1.0
.75-.90
.50-.75
0.-.50

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Fire | Traffic

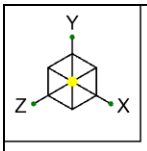
0.20

0.20

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-10
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

PRCA20220294



Shear Check
(Env)
No Calc
> 1.0
.90-1.0
.75-.90
.50-.75

City of Puyallup
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0.02

0.02

Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Morrison Hershfield	Site#: 75153-A/ GOOD SAMARITAN	SK-11
ML		Aug 19, 2021
SML-052R4 / 2000479		Wall Mounts.r3d

PRCA20220294

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: 134.28 ft (NAVD 88)
Latitude: 47.1795
Longitude: -122.28778

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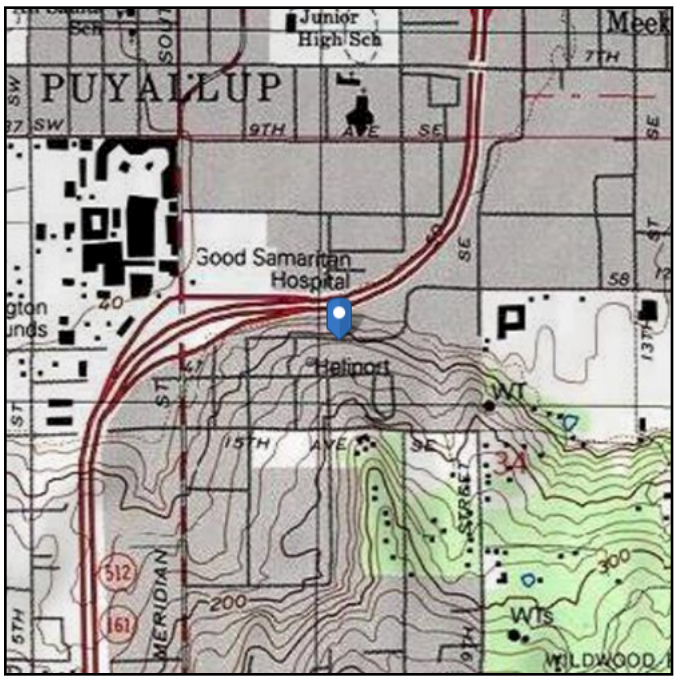
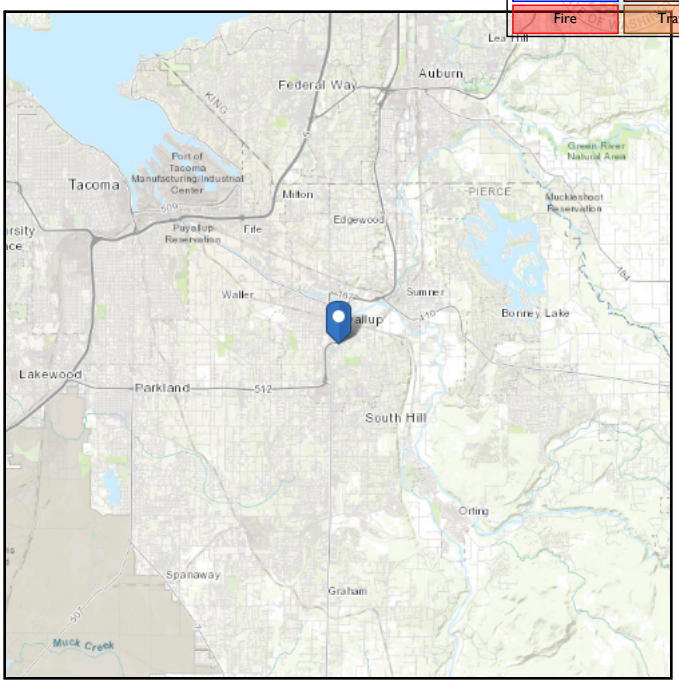




Wind

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:	Thu Aug 19 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).

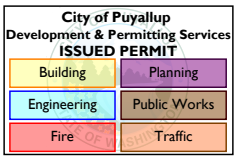
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

PRCA20220294

Seismic

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

Results:



S_S :	1.266	S_{D1} :	N/A
S_1 :	0.436	T_L :	6
F_a :	1.2	PGA :	0.5
F_v :	N/A	PGA_M :	0.6
S_{MS} :	1.519	F_{PGA} :	1.2
S_{M1} :	N/A	I_e :	1.5
S_{DS} :	1.013	C_v :	1.353

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

Data Accessed: Thu Aug 19 2021

Date Source: USGS Seismic Design Maps

PRCA20220294

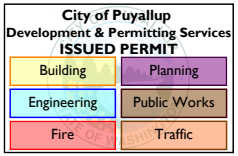
The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated 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.

Section 1 - RFDS GENERAL INFORMATION

RFDS NAME:	WATAU3055	**DATE:**	04/24/2017	**RF DESIGN ENG:**	Anne Le
ISSUE:		**Approved? (Y/N):**	Yes	**RF DESIGN PHONE:**	4256145641
REVISION:		**RF MANAGER:**	Piero Rovani	**RF DESIGN EMAIL:**	al7568@us.att.com
INITIATIVE /PROJECT:	v2 (10/15/2018): Swap (3) UMTS antennas for (3) LTE antennas. Remove UMTS TMA. Reconnect UMTS feedlines to antenna position 1. Swap (3) LTE antennas for (3) LTE antennas. Swap (3) 700 RRH for (3) B12/14 RRH. Swap (3) AWS RRH for (3) B25/66 RRH. Swap (3) 850 RRH for (3) B5 RRH.v1 (08/09/2018): Initial RFDS.				



RF PERF ENG:	Aldin Hajiric	**RFDS PROGRAM TYPE:**	2018 LTE Next Carrier		
RF PERF PHONE:	4257538163	**RFDS TECHNOLOGY:**	LTE 6C		
RF PERF EMAIL:	ah263n@us.att.com	**STATE/STATUS:**	Final/Approved		
RFDS VERSION:	2.00	**RFDS ID:**	1739905		
GSM FREQUENCY:		**Created By:**	ps305p	**Updated By:**	ea1814
UMTS FREQUENCY:		**Date Created:**	4/24/2017 1:56:30 PM	**Date Updated:**	10/15/2018 5:46:49 PM
LTE FREQUENCY:					
5G FREQUENCY:					
I-PLAN JOB # 1:	WR_-RWOR-18-04986	**IPLAN PRD GRP || SUB GRP #1:**	LTE Next Carrier || LTE 6C		
I-PLAN JOB # 2:	WR_-RWOR-18-04274	**IPLAN PRD GRP || SUB GRP #2:**	Cell Site RF Modifications || 5G NR Upgrade		
I-PLAN JOB # 3:	WR_-RWOR-18-05073	**IPLAN PRD GRP || SUB GRP #3:**	LTE Multi Carrier || BWE Tower Top RRH Swap		
I-PLAN JOB # 4:	WR_-RWOR-18-04524	**IPLAN PRD GRP || SUB GRP #4:**	LTE Extended Carrier || BWE Software Only		
I-PLAN JOB # 5:	WR_-RWOR-18-05732	**IPLAN PRD GRP || SUB GRP #5:**	Antenna Modifications || 4TX4RX Software Retrofit		
I-PLAN JOB # 6:	WR_-RWOR-18-05764	**IPLAN PRD GRP || SUB GRP #6:**	Antenna Modifications || 4TX4RX Software Retrofit		
I-PLAN JOB # 7:		**IPLAN PRD GRP || SUB GRP #7:**			
I-PLAN JOB # 8:		**IPLAN PRD GRP || SUB GRP #8:**			

Section 2 - LOCATION INFORMATION

USID:	75153	**FA LOCATION CODE:**	10029581	**LOCATION NAME:**	GOOD SAMARITAN
REGION:	WEST	**MARKET CLUSTER:**	SEATTLE/OREGON/NO. ID	**MARKET:**	WASHINGTON
ADDRESS:	407 14TH AVENUE SOUTHEAST	**CITY:**	PUYALLUP	**STATE:**	WA
ZIP CODE:	98371	**COUNTY:**	PIERCE	**LONG (DEC. DEG.):**	-122.2905583
LATITUDE (D-M-S):	47d 10m46.2s	**LONGITUDE (D-M-S):**	-122d -17m-26.00988s	**LAT (DEC. DEG.):**	47.1795000
DIRECTIONS, ACCESS AND EQUIPMENT LOCATION:	FROM SEATTLE, GO SOUTH ON I-5.TAKE EXIT 154A (ON THE LEFT SIDE OF THE FREEWAY) AND MERGE ONTO I-405 HEADING WEST TOWARDS RENTON.TAKE EXIT 2 AND MERGE ONTO HWY 167 GOING SOUTH TOWARD PUYALLUP.TAKE HWY 167 TO THE HWY 512/161 EXIT JUST PASS THE HWY 410 EXIT.EXIT HWY 167 ONTO HWY 512.FROM HWY 512 TAKE THE EXIT FOR S MERIDIAN.TURN LEFT AT THE END OF THE OFF RAMP AND FOLLOW S MERIDIAN SOUTH TO THE SE<15TH AVE>SW INTERSECTION.TURN LEFT ONTO SE 15TH AVE. FOLLOW THIS UP THE HILL TO THE 3RD ST SE ROUNDABOUT AND GO LEFT (NORTH) ON 3RD ST SE.FOLLOW THIS DOWN THE HILL AND THE ROAD WILL TURN RIGHT (EAST) BECOMING 13TH AVE SE.LEVEL C - MEADOW PICK UP WILL BE TO THE RIGHT AFTER THE PARKING GARAGE.FIND A PLACE TO PARK ON THE STREET AND GO TO THE LEVEL C - MEADOW PICK UP LOBBY.CONTACT STEVE PRIDEAUX (THE FACILITIES MANAGER) FOR AN ESCORT TO THE SITE AT (CELL) 253-732-5849.BE SURE TO HAVE AN AT&T BADGE VISIBLE.THE EQUIPMENT IS ON ROOF TOP OF THE NORTHWEST BUILDING WITH THE FLAG POLE NEXT TO THE PARKING GARAGETHE SITE COMPOUND IS TO THE LEFT AS YOU EXIT THE ROOF DOOR AND DOES NOT HAVE A LOCK.WHEN EXITING THE ELEVATORS AT THE PENTHOUSE, THE POWER METER IS ON THE FAR WALL STRAIGHT AHEAD.THIS SITE HAS 24/7 ACCESS.AT&T TECHNICIANS:BUSINESS HOURS ACCESS: CONTACT STEVE PRIDEAUX AND REQUEST ACCESS/ESCORT TO EQUIPMENT ON ROOF (CELL) 253-732-5849.IF POSSIBLE, LET HIM KNOW IN ADVANCE.ALSO, IF THERE IS NO RESPONSE FROM STEVE PRIDEAUX, CONTACT SECURITY FOR ACCESS.AFTER HOURS ACCESS: CALL MAINT FIRST AT 253 697-1802, IF THAT FAILS THEN CALL CALL SECURITY AT 253 697-1735.VENDORS:CONTACT STEVE PRIDEAUX (THE FACILITIES MANAGER) FOR ANY WORK BEING DONE. (CELL) 253-732-5849MAKE CONTACT WITH HIM A FEW DAYS BEFORE GOING THERE AND BRIEF HIM ON THE SCOPE.TELCO: GSM T1S ARE GSMOE.POWER METER SERIAL NUMBER:2647-481674 POWER PROVIDER: GOOD SAMARITAN HOSPITALGEN PLUG: N/A - ROOFTOP SITEGEN CORD LENGTH: N/A - ROOFTOP SITEVALIDATED BY CL8296 9/14/2016				

ORACLE PTN # 1:	3801A0JXC4	**PACE JOB # 1:**	MRWOR036719		
ORACLE PTN # 2:	3801A0JXDK	**PACE JOB # 2:**	MRWOR036729		
ORACLE PTN # 3:	3801A0JXCM	**PACE JOB # 3:**	MRWOR036725		
ORACLE PTN # 4:	3801A0JXDY	**PACE JOB # 4:**			
ORACLE PTN # 5:	3801A0JXCE	**PACE JOB # 5:**	MRWOR036739		
ORACLE PTN # 6:	3801A0JXCC	**PACE JOB # 6:**	MRWOR036743		
ORACLE PTN # 7:		**PACE JOB # 7:**			
ORACLE PTN # 8:		**PACE JOB # 8:**			
BORDER CELL WITH CONTOUR COORD:		**SEARCH RING NAME:**			
AM STUDY REQ'D (Y/N):	No	**SEARCH_RING_ID:**			
FREQ COORD:		**BTA:**		**MSA / RSA:**	
OPS DISTRICT:	RF TCH WA SEA S	**LAC(GSM):**	52031		
OPS ZONE:	WE_WA_PIERCE_S_CS	**LAC(UMTS):**	42970		
RF DISTRICT:	17	**BSC(GSM):**	TACMBSC12		
RF ZONE:	A	**RNC(UMTS):**	TACNWADNCRAR22		
PARENT NAME(GSM):	TACOMA BSC 12	**MME POOL ID(LTE):**	FF48		
PARENT NAME(UMTS):	TACOMA - ALU RNC 9370-22				

Section 3 - LICENSE COVERAGE/FILING INFORMATION

CGSA - NO FILING TRIGGERED (Yes/No):	No	**CGSA LOSS:**		**PCS REDUCED - UPS ZIP:**	
CGSA - MINOR FILING NEEDED (Yes/No)::	No	**CGSA EXT AGMT NEEDED:**		**PCS POPS REDUCED:**	
CGSA - MAJOR FILING NEEDED (Yes/No):	Yes	**CGSA SCORECARD UPDATED:**			
CGSA CALL SIGNS:					

Section 4 - TOWER/REGULATORY INFORMATION

STRUCTURE AT&T OWNED?:	No	**GROUND ELEVATION (ft):**		**STRUCTURE TYPE:**	ROOFTOP
ADDITIONAL REGULATORY?:	No	**HEIGHT OVERALL (ft):**	85.00	**FCC ASR NUMBER:**	0
SUB-LEASE RIGHTS?:	No	**STRUCTURE HEIGHT (ft):**	68.00		
LIGHTING TYPE:	NOT REQUIRED				

MARKET LOCATION 700 MHz Band:					
MARKET LOCATION 850 MHz Band:					
MARKET LOCATION 1900 MHz Band:					
MARKET LOCATION AWS Band:					
MARKET LOCATION WCS Band:					
MARKET LOCATION Future Band:					

Section 5 - E-911 INFORMATION - existing

	PSAP NAME:	PSAP ID:	E911 PHASE:	MPC SVC PROVIDER:	LMU REQUIRED:	ESRN:	DATE LIVE PH1:	DATE LIVE PH2:		
SECTOR A E-911						0				
SECTOR B						0				
SECTOR C						0				
SECTOR D										
SECTOR E										
SECTOR F										
OMNI										

Section 5 - E-911 INFORMATION - final

	PSAP NAME:	PSAP ID:	E911 PHASE:	MPC SVC PROVIDER:	LMU REQUIRED:	ESRN:	DATE LIVE PH1:	DATE LIVE PH2:		
SECTOR A E-911						0				
SECTOR B						0				
SECTOR C						0				
SECTOR D										
SECTOR E										
SECTOR F										
OMNI										

City of Puyallup
Development & Permitting Services
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Engineering	Public Works
Fire	Traffic

Section 6 - RBS GENERAL INFORMATION - existing

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS				
RBS ID:	149375	163850	251954	301580	303233	372262	419620	566726				
CTS COMMON ID:	STTLWA6659	WATAU3055	WATAU3055_2	WATAU3055_3	WATAU3190	WAL03055	WAL03190	WAL08055R				
CELL ID / BCF:	STTLWA6659_2	WATAU3055	WATAU3055_2	WATAU3055_3	WATAU3190	WAL03055	WAL03190	WAL08055R				
BTA/TID:	413G	413V	413U	413W	413W	413L	413L	413L				
4-9 DIGIT SITE ID:	5517	3055	3055	3055	3190	03055	3190	08055				
COW OR TOY?:	No	No	No	No	No	No	COW	No				
CELL SITE TYPE:	SECTORIZED	SECTORIZED	SECTORIZED	SECTORIZED	SECTORIZED	SECTORIZED	SECTORIZED	SECTORIZED				
SITE TYPE:	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL	MACRO-CONVENTIONAL				
BTS LOCATION ID:	ROOF	ROOF	ROOF	ROOF	ROOF	GROUND		GROUND				
BASE STATION TYPE:	OVERLAY	OVERLAY	OVERLAY	OVERLAY	BASE	OVERLAY	OVERLAY	OVERLAY				
EQUIPMENT NAME:	GOOD SAM	GOOD SAM	GOOD SAMARITAN	GOOD SAMARITAN	PUYALLUP FAIR COW	GOOD SAMARITAN LTE	PUYALLUP FAIR COW	GOOD SAMARITAN LTE				
DISASTER PRIORITY:	3	2	1	2	3	3	0	3				

Section 6 - RBS GENERAL INFORMATION - final

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS	5G 1ST RBS			
RBS ID:		251954				372262			RFDS_38575741			
CTS COMMON ID:		WATAU3055_2				WAL03055			WAN003055			
CELL ID / BCF:		WATAU3055_2				WAL03055			WAN003055			
BTA/TID:		413U				413L			413L			
4-9 DIGIT SITE ID:		3055				03055			03055			
COW OR TOY?:		No				No			No			
CELL SITE TYPE:		SECTORIZED				SECTORIZED			SECTORIZED			
SITE TYPE:		MACRO-CONVENTIONAL				MACRO-CONVENTIONAL			MACRO-CONVENTIONAL			
BTS LOCATION ID:		ROOF				GROUND			GROUND			
BASE STATION TYPE:		OVERLAY				OVERLAY			OVERLAY			
EQUIPMENT NAME:		GOOD SAMARITAN				GOOD SAMARITAN LTE			GOOD SAMARITAN LTE			
DISASTER PRIORITY:		1				3			3			

City of Puyallup
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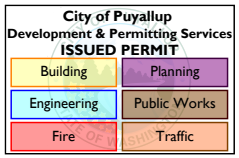
Engineering	Public Works
Fire	Traffic

Section 7 - RBS SPECIFIC INFORMATION - existing

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS	5G 1ST RBS			
RAC:												
EQUIPMENT VENDOR:	NOKIA	ALU	ALU	ALU	ALU	ALU	ALU	ALU				
EQUIPMENT TYPE:	ULTRASITE-INDOOR	MODULAR CELL OUTDOOR	MODULAR CELL OUTDOOR	FLEXENT ONEBTS	LUCENT MACRO OUTDOOR	9412	9926 BBU ECCM-U	9926 BBU ECCM2				
BASEBAND CONFIGURATION:								xxxxx / 1x9926 / 1xbCEM + 1xeCCM2				
LOCATION:												
CABINET LOCATION:												
MARKET STATE CODE:						WA	WA	WA				
AGPS:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes				
NODE B NUMBER:	0	0	0	0	0	3055	3190	8055				

Section 7 - RBS SPECIFIC INFORMATION - final

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS	5G 1ST RBS			
RAC:												
EQUIPMENT VENDOR:		ALU				NOKIA			NOKIA			
EQUIPMENT TYPE:		MODULAR CELL OUTDOOR				FSM4 ASIA C1			FSM4 ASIK C2			
BASEBAND CONFIGURATION:						1x9412-v1 / 1xAMIA / 3xABIA / 1xASIA			xxxxx /xxxxx / 1xABIL / 1xASIK			
LOCATION:												
CABINET LOCATION:												
MARKET STATE CODE:						WA			WA			
AGPS:		Yes				Yes			Yes			
NODE B NUMBER:		0				3055			3055			



Section 8 - RBS/SECTOR ASSOCIATION - existing

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS	5G 1ST RBS							
CTS Common ID	STTLWA6659	WATAU3055	WATAU3055_2	WATAU3055_3	WATAU3190	WAL03055	WAL03190	WAL08055R								
Soft Sector IDs	STTLWA6659X	WATAU3055A	WATAU3055X	WATAU3055D	WATAU3190A	WAL03055_2A_1	WAL03190_7A_1	WAL08055_2A_1								
	STTLWA6659Y	WATAU3055B	WATAU3055Y	WATAU3055E	WATAU3190B	WAL03055_2B_1	WAL03190_7B_1	WAL08055_2B_1								
	STTLWA6659Z	WATAU3055C	WATAU3055Z	WATAU3055F	WATAU3190C	WAL03055_2C_1	WAL03190_7C_1	WAL08055_2C_1								
				WATAU3055T	WATAU3190D	WAL03055_3A_1		WAL08055_8A_1								
				WATAU3055U	WATAU3190E	WAL03055_3B_1		WAL08055_8B_1								
				WATAU3055V	WATAU3190F	WAL03055_3C_1		WAL08055_8C_1								
					WATAU3190T	WAL03055_7A_1										
					WATAU3190U	WAL03055_7B_1										
					WATAU3190V	WAL03055_7C_1										
					WATAU3190X	WAL03055_9A_1										
					WATAU3190Y	WAL03055_9B_1										
					WATAU3190Z	WAL03055_9C_1										

Section 8 - RBS/SECTOR ASSOCIATION - final

	GSM 1ST RBS	UMTS 1ST RBS	UMTS 2ND RBS	UMTS 3RD RBS	UMTS 4TH RBS	LTE 1ST RBS	LTE 2ND RBS	LTE 3RD RBS	5G 1ST RBS							
CTS Common ID		WATAU3055_2				WAL03055			WAN003055							
Soft Sector IDs		WATAU3055X				WAL03055_2A_1										
		WATAU3055Y				WAL03055_2B_1										
		WATAU3055Z				WAL03055_2C_1										
						WAL03055_3A_1										
						WAL03055_3B_1										
						WAL03055_3C_1										
						WAL03055_7A_1										
						WAL03055_7A_2_F										
						WAL03055_7B_1										
						WAL03055_7B_2_F										
						WAL03055_7C_1										
						WAL03055_7C_2_F										
						WAL03055_8A_1										
						WAL03055_8B_1										
						WAL03055_8C_1										
						WAL03055_9A_1										
						WAL03055_9B_1										
						WAL03055_9C_1										

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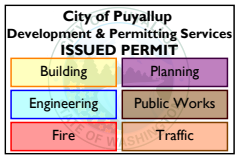
Section 9 - SOFT SECTOR ID - existing

	GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
USEID (excluding Hard Sector)	75153.850.25G.1	75153.850.3G.1	75153.1900.3G.1	75153.850.3G.2	75153.1900.3G.2	75153.850.3G.3	75153.1900.3G.3	75153.850.3G.4	75153.1900.3G.4																	
SECTOR A **SOFT SECTOR ID**	STTLWA6659X	WATAU3055X	WATAU3055A	WATAU3055T	WATAU3055D	WATAU3190T	WATAU3190A	WATAU3190X	WATAU3190D	WAL03190_7A_1	WAL08055_8A_1	WAL03055_9A_1	WAL03055_2A_1	WAL03055_3A_1	WAL03055_7A_1	WAL08055_2A_1										
SECTOR B	STTLWA6659Y	WATAU3055Y	WATAU3055BU	WATAU3055EU	WATAU3055E	WATAU3190U	WATAU3190B	WATAU3190Y	WATAU3190E	WAL03190_7B_1	WAL08055_8B_1	WAL03055_9B_1	WAL03055_2B_1	WAL03055_3B_1	WAL03055_7B_1	WAL08055_2B_1										
SECTOR C	STTLWA6659Z	WATAU3055Z	WATAU3055C	WATAU3055V	WATAU3055F	WATAU3190VC	WATAU3190Z	WATAU3190F	WAL03190_7C_1	WAL08055_8C_1	WAL03055_9C_1	WAL03055_2C_1	WAL03055_3C_1	WAL03055_7C_1	WAL08055_2C_1											
SECTOR D																										
SECTOR E																										
SECTOR F																										
OMNI																										

Section 9 - SOFT SECTOR ID - final

	GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
USEID (excluding Hard Sector)		75153.850.3G.1																								
SECTOR A **SOFT SECTOR ID**		WATAU3055X								WAL03055_7A_1	WAL03055_8A_1	WAL03055_9A_1	WAL03055_2A_1	WAL03055_3A_1	WAL03055_7A_2_F											
SECTOR B		WATAU3055Y								WAL03055_7B_1	WAL03055_8B_1	WAL03055_9B_1	WAL03055_2B_1	WAL03055_3B_1	WAL03055_7B_2_F											
SECTOR C		WATAU3055Z								WAL03055_7C_1	WAL03055_8C_1	WAL03055_9C_1	WAL03055_2C_1	WAL03055_3C_1	WAL03055_7C_2_F											
SECTOR D																										
SECTOR E																										
SECTOR F																										
OMNI																										



Section 9 - Cell Number - existing

	GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
USEID (excluding Hard Sector)	75153.850.25G.1	75153.850.3G.1	75153.1900.3G.1	75153.850.3G.2	75153.1900.3G.2	75153.850.3G.3	75153.1900.3G.3	75153.850.3G.4	75153.1900.3G.4																	
SECTOR A CELL NUMBER										15	1	8	22	149	15	22										
SECTOR B										16	2	9	23	150	16	23										
SECTOR C										17	3	10	24	151	17	24										
SECTOR D																										
SECTOR E																										
SECTOR F																										
OMNI																										

Section 9 - Cell Number - final

	GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
USEID (excluding Hard Sector)		75153.850.3G.1																								
SECTOR A CELL NUMBER		0								15	1	8	22	149	171											
SECTOR B		0								16	2	9	23	150	171											
SECTOR C		0								17	3	10	24	151	173											
SECTOR D																										
SECTOR E																										
SECTOR F																										
OMNI																										

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Section 10 - CID/SAC - existing

		GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
SECTOR A	CID/SAC	55171	30551	30557	60551	30554	41901	11901	31901	21901																	
SECTOR B		55172	30552	30558	60552	30555	41902	11902	31902	21902																	
SECTOR C		55173	30553	30559	60553	30556	41903	11903	31903	21903																	
SECTOR D																											
SECTOR E																											
SECTOR F																											
OMNI																											

Section 10 - CID/SAC - final

		GSM 1ST 850	UMTS 1ST 850	UMTS 1ST 1900	UMTS 2ND 850	UMTS 2ND 1900	UMTS 3RD 850	UMTS 3RD 1900	UMTS 4TH 850	UMTS 4TH 1900	LTE 1ST 700	LTE 1ST 850	LTE 1ST 1900	LTE 1ST AWS	LTE 1ST WCS	LTE 2ND 700	LTE 2ND AWS										
SECTOR A	CID/SAC		30551																								
SECTOR B			30552																								
SECTOR C			30553																								
SECTOR D																											
SECTOR E																											
SECTOR F																											
OMNI																											

City of Puyallup
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Section 15A - CURRENT TOWER CONFIGURATION - SECTOR A (OR OMNI)

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	742-265		ET-X-UW-70-16-70-18-iR-AT			
ANTENNA VENDOR	KMW	Kathrein		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	75.4X10.3X5.3		91.7X12X6.3			
ANTENNA WEIGHT	62.4	50.7		51.8			
AZIMUTH	40	40		40			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	79	80		79			
ANTENNA TIP HEIGHT	83.15	83.15		82.8			
MECHANICAL DOWNTILT	0	3		0			
FEEDER AMOUNT	0	2		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)		2					
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)		2	2-LGP 21401_(Yes - U9 U9_1);				
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)	1			1			
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1	RRH2x40W-07L (REUSE ONLY)		
RRH - 850 band (QTY/MODEL)	1 RRH2x60-850						
RRH - 1900 band (QTY/MODEL)				1	B25 RRH4X30-4R		
RRH - AWS band (QTY/MODEL)	1 RRH2x40-AWS+RDEM (REUSE ONLY)						
RRH - WCS band (QTY/MODEL)	1 RRH4x25-WCS-4R						
Additional RRH #1 - any band (QTY/MODEL)							
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: L2(02) , L8(02) , WCS(02) , U8(06) , U9(01) , L7(04) , L9(02) ERP: L2(2128) , L8(460) , WCS(147) , U8(502) , U9(0) , L7(1510) , L9(1445)						
Local Market Note 2	ANTENNA PORTS: L2(7a+7b+7e+7f) , L8(7c+7d) , WCS(7g+7h+7i+7j) , U8(8c+8d) , U9(8a+8b) , L7(10c+10d) , L9(10a+10b+10e+10f)						
Local Market Note 3	SECTOR NAME: L2(WAL08055R_2A_1) , L8(WAL08055R_8A_1) , WCS(WAL03055_3A_1) , U8(WATAU3055X) , U9(WATAU3055A) , L7(WAL03055_7A_1) , L9(WAL03055_9A_1)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/ Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1			WAL08055R_2A_1	WAL08055R_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						2128			
	PORT 2			WAL08055R_2A_1	WAL08055R_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						2128			
	PORT 3			WAL08055R_8A_1	WAL08055R_8A_1		LTE 850	EPBQ-652L8H8_850MHz_02	16		2	Top	FIBER	100						460			

								DT															
	PORT 4			WAL08055R_8A_1	WAL08055R_8A_1		LTE 850	EPBQ-652L8H8_850MHz_02DT	16		2	Top	FIBER	100						460			
	PORT 5			WAL08055R_2A_1	WAL08055R_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						2128			
	PORT 6			WAL08055R_2A_1	WAL08055R_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						2128			
	PORT 7			WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						147			
	PORT 8			WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						147			
	PORT 9			WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						147			
	PORT 10			WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						147			
ANTENNA POSITION 2	**PORT 1**						UMTS 1900	KT-742-265-1900_01DT	18		1	None	Comm 7/8_1900	106						0			
	PORT 2						UMTS 1900	KT-742-265-1900_01DT	18		1	None	Comm 7/8_1900	106						0			
	PORT 3			WATAU3055X	WATAU3055X		UMTS 850	KT-742-265-850_06DT	15		6	None	Comm 7/8_850	106						502			
	PORT 4			WATAU3055X	WATAU3055X		UMTS 850	KT-742-265-850_06DT	15		6	None	Comm 7/8_850	106						502			
ANTENNA POSITION 4	**PORT 1**			WAL03055_9A_1	WAL03055_9A_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 2			WAL03055_9A_1	WAL03055_9A_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 3			WAL03055_7A_1	WAL03055_7A_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_04DT	15		4	Top	FIBER	106						1510			
	PORT 4			WAL03055_7A_1	WAL03055_7A_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_04DT	15		4	Top	FIBER	106						1510			
	PORT 5			WAL03055_9A_1	WAL03055_9A_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 6			WAL03055_9A_1	WAL03055_9A_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			

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Section 15B - CURRENT TOWER CONFIGURATION - SECTOR B

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	742-265		ET-X-UW-70-16-70-18-iR-AT			
ANTENNA VENDOR	KMW	Kathrein		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	75.4X10.3X5.3		91.7X12X6.3			
ANTENNA WEIGHT	62.4	50.7		51.8			
AZIMUTH	215	215		215			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	80	80		80			
ANTENNA TIP HEIGHT	84.15	83.15		83.8			
MECHANICAL DOWNTILT	2	0		2			
FEEDER AMOUNT	0	2		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)		2					
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)		2	2-LGP 21401_(Yes - U9 U9_1);				
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1	RRH2x40W-07L (REUSE ONLY)		
RRH - 850 band (QTY/MODEL)	1 RRH2x60-850						
RRH - 1900 band (QTY/MODEL)				1	B25 RRH4X30-4R		
RRH - AWS band (QTY/MODEL)	1 RRH2x40-AWS+RDEM (REUSE ONLY)						
RRH - WCS band (QTY/MODEL)	1 RRH4x25-WCS-4R						
Additional RRH #1 - any band (QTY/MODEL)							
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: L2(00) , L8(02) , WCS(00) , U8(05) , U9(02) , L7(02) , L9(01) ERP: L2(2065) , L8(460) , WCS(181) , U8(502) , U9(0) , L7(1510) , L9(1445)						
Local Market Note 2	ANTENNA PORTS: L2(13a+13b+13e+13f) , L8(13c+13d) , WCS(13g+13h+13i+13j) , U8(14c+14d) , U9(14a+14b) , L7(16c+16d) , L9(16a+16b+16e+16f)						
Local Market Note 3	SECTOR NAME: L2(WAL08055R_2B_1) , L8(WAL08055R_8B_1) , WCS(WAL03055_3B_1) , U8(WATAU3055Y) , U9(WATAU3055B) , L7(WAL03055_7B_1) , L9(WAL03055_9B_1)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/ Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1			WAL08055R_2B_1	WAL08055R_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						2065			
	PORT 2			WAL08055R_2B_1	WAL08055R_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						2065			
	PORT 3			WAL08055R_8B_1	WAL08055R_8B_1		LTE 850	EPBQ-652L8H8_850MHz_02	16		2	Top	FIBER	100						460			

								DT															
	PORT 4			WAL08055R_8B_1	WAL08055R_8B_1		LTE 850	EPBQ-652L8H8_850MHz_02DT	16		2	Top	FIBER	100						460			
	PORT 5			WAL08055R_2B_1	WAL08055R_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						2065			
	PORT 6			WAL08055R_2B_1	WAL08055R_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						2065			
	PORT 7			WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						181			
	PORT 8			WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						181			
	PORT 9			WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						181			
	PORT 10			WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						181			
ANTENNA POSITION 2	**PORT 1**						UMTS 1900	KT-742-265-1900_02DT	18		2	None	Comm 7/8_1900	106						0			
	PORT 2						UMTS 1900	KT-742-265-1900_02DT	18		2	None	Comm 7/8_1900	106						0			
	PORT 3			WATAU3055Y	WATAU3055Y		UMTS 850	KT-742-265-850_05DT	15		5	None	Comm 7/8_850	106						502			
	PORT 4			WATAU3055Y	WATAU3055Y		UMTS 850	KT-742-265-850_05DT	15		5	None	Comm 7/8_850	106						502			
ANTENNA POSITION 4	**PORT 1**			WAL03055_9B_1	WAL03055_9B_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_01DT	17		1	Top	FIBER	106						1445			
	PORT 2			WAL03055_9B_1	WAL03055_9B_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_01DT	17		1	Top	FIBER	106						1445			
	PORT 3			WAL03055_7B_1	WAL03055_7B_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_02DT	15		2	Top	FIBER	106						1510			
	PORT 4			WAL03055_7B_1	WAL03055_7B_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_02DT	15		2	Top	FIBER	106						1510			
	PORT 5			WAL03055_9B_1	WAL03055_9B_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_01DT	17		1	Top	FIBER	106						1445			
	PORT 6			WAL03055_9B_1	WAL03055_9B_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_01DT	17		1	Top	FIBER	106						1445			

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Section 15C - CURRENT TOWER CONFIGURATION - SECTOR C

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	742-265		ET-X-UW-70-16-70-18-iR-AT			
ANTENNA VENDOR	KMW	Kathrein		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	75.4X10.3X5.3		91.7X12X6.3			
ANTENNA WEIGHT	62.4	50.7		51.8			
AZIMUTH	315	315		315			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	79	80		79			
ANTENNA TIP HEIGHT	83.15	83.15		82.8			
MECHANICAL DOWNTILT	2	5		2			
FEEDER AMOUNT	0	2		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)		2					
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)		2	2-LGP 21401_(Yes - U9 U9_1);				
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1	RRH2x40W-07L (REUSE ONLY)		
RRH - 850 band (QTY/MODEL)	1 RRH2x60-850						
RRH - 1900 band (QTY/MODEL)				1	B25 RRH4X30-4R		
RRH - AWS band (QTY/MODEL)	1 RRH2x40-AWS+RDEM (REUSE ONLY)						
RRH - WCS band (QTY/MODEL)	1 RRH4x25-WCS-4R						
Additional RRH #1 - any band (QTY/MODEL)							
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: L2(03) , L8(02) , WCS(05) , U8(07) , U9(04) , L7(04) , L9(02) ERP: L2(2162) , L8(460) , WCS(60) , U8(502) , U9(0) , L7(1510) , L9(1445)						
Local Market Note 2	ANTENNA PORTS: L2(1a+1b+1e+1f) , L8(1c+1d) , WCS(1g+1h+1i+1j) , U8(2c+2d) , U9(2a+2b) , L7(4c+4d) , L9(4a+4b+4e+4f)						
Local Market Note 3	SECTOR NAME: L2(WAL08055R_2C_1) , L8(WAL08055R_8C_1) , WCS(WAL03055_3C_1) , U8(WATAU3055Z) , U9(WATAU3055C) , L7(WAL03055_7C_1) , L9(WAL03055_9C_1)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/ Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1			WAL08055R_2C_1	WAL08055R_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						2162			
	PORT 2			WAL08055R_2C_1	WAL08055R_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						2162			
	PORT 3			WAL08055R_8C_1	WAL08055R_8C_1		LTE 850	EPBQ-652L8H8_850MHz_02	16		2	Top	FIBER	100						460			

								DT															
	PORT 4			WAL08055R_8C_1	WAL08055R_8C_1		LTE 850	EPBQ-652L8H8_850MHz_02DT	16		2	Top	FIBER	100						460			
	PORT 5			WAL08055R_2C_1	WAL08055R_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						2162			
	PORT 6			WAL08055R_2C_1	WAL08055R_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						2162			
	PORT 7			WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						60			
	PORT 8			WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						60			
	PORT 9			WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						60			
	PORT 10			WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						60			
ANTENNA POSITION 2	**PORT 1**						UMTS 1900	KT-742-265-1900_04DT	18		4	None	Comm 7/8_1900	106						0			
	PORT 2						UMTS 1900	KT-742-265-1900_04DT	18		4	None	Comm 7/8_1900	106						0			
	PORT 3			WATAU3055Z	WATAU3055Z		UMTS 850	KT-742-265-850_07DT	15		7	None	Comm 7/8_850	106						502			
	PORT 4			WATAU3055Z	WATAU3055Z		UMTS 850	KT-742-265-850_07DT	15		7	None	Comm 7/8_850	106						502			
ANTENNA POSITION 4	**PORT 1**			WAL03055_9C_1	WAL03055_9C_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 2			WAL03055_9C_1	WAL03055_9C_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 3			WAL03055_7C_1	WAL03055_7C_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_04DT	15		4	Top	FIBER	106						1510			
	PORT 4			WAL03055_7C_1	WAL03055_7C_1		LTE 700	ET-X-UW-70-16-70-18-iR-AT_728MHz_04DT	15		4	Top	FIBER	106						1510			
	PORT 5			WAL03055_9C_1	WAL03055_9C_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			
	PORT 6			WAL03055_9C_1	WAL03055_9C_1		LTE 1900	ET-X-UW-70-16-70-18-iR-AT_1950MHz_02DT	17		2	Top	FIBER	106						1445			

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Section 16A - PLANNED/PROPOSED TOWER CONFIGURATION - SECTOR A (OR OMNI)

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
Existing Antenna?							
ANTENNA MAKE - MODEL		EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR		KMW		KMW			
ANTENNA SIZE (H x W x D)							
ANTENNA WEIGHT							
AZIMUTH		40		40			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)		79		79			
ANTENNA TIP HEIGHT							
MECHANICAL DOWNTILT							
FEEDER AMOUNT	2						
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)		1					
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1			
RRH - 850 band (QTY/MODEL)		1					
RRH - 1900 band (QTY/MODEL)							
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)							
Additional RRH #1 - any band (QTY/MODEL)	1						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1							
Local Market Note 2							
Local Market Note 3							

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1						LTE AWS																
	PORT 2						LTE AWS																
	PORT 3						UMTS 850																
	PORT 4						UMTS 850																
	PORT 5						LTE AWS																

	PORT 6						LTE AWS															
	PORT 7						LTE WCS															
	PORT 8						LTE WCS															
	PORT 9						LTE WCS															
	PORT 10						LTE WCS															
ANTENNA POSITION 2	**PORT 3**						LTE 850															
	PORT 4						LTE 850															
	PORT 7						LTE 850															
	PORT 8						LTE 850															
ANTENNA POSITION 4	**PORT 1**						LTE 1900															
	PORT 2						LTE 1900															
	PORT 3						LTE 700															
	PORT 4						LTE 700															
	PORT 5						LTE 1900															
	PORT 6						LTE 1900															
	PORT 7						LTE 700															
	PORT 8						LTE 700															

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Section 16B - PLANNED/PROPOSED TOWER CONFIGURATION - SECTOR B

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
Existing Antenna?							
ANTENNA MAKE - MODEL		EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR		KMW		KMW			
ANTENNA SIZE (H x W x D)							
ANTENNA WEIGHT							
AZIMUTH		215		215			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)		80		80			
ANTENNA TIP HEIGHT							
MECHANICAL DOWNTILT							
FEEDER AMOUNT	2						
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1			
RRH - 850 band (QTY/MODEL)		1					
RRH - 1900 band (QTY/MODEL)							
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)							
Additional RRH #1 - any band (QTY/MODEL)	1						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1							
Local Market Note 2							
Local Market Note 3							

PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/ Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1						LTE AWS																
	PORT 2						LTE AWS																
	PORT 3						UMTS 850																
	PORT 4						UMTS 850																
	PORT 5						LTE AWS																

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	PORT 6						LTE AWS																
	PORT 7						LTE WCS																
	PORT 8						LTE WCS																
	PORT 9						LTE WCS																
	PORT 10						LTE WCS																
ANTENNA POSITION 2	**PORT 3**						LTE 850																
	PORT 4						LTE 850																
	PORT 7						LTE 850																
	PORT 8						LTE 850																
ANTENNA POSITION 4	**PORT 1**						LTE 1900																
	PORT 2						LTE 1900																
	PORT 3						LTE 700																
	PORT 4						LTE 700																
	PORT 5						LTE 1900																
	PORT 6						LTE 1900																
	PORT 7						LTE 700																
	PORT 8						LTE 700																

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Section 16C - PLANNED/PROPOSED TOWER CONFIGURATION - SECTOR C

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
Existing Antenna?							
ANTENNA MAKE - MODEL		EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR		KMW		KMW			
ANTENNA SIZE (H x W x D)							
ANTENNA WEIGHT							
AZIMUTH		315		315			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)		79		79			
ANTENNA TIP HEIGHT							
MECHANICAL DOWNTILT							
FEEDER AMOUNT	2						
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1 B12/B14 Airscale Dual-band RRH 4T4R 320W(AHLBA)			
RRH - 850 band (QTY/MODEL)		1 AirScale RRH 4T4R B5 160W AHCA					
RRH - 1900 band (QTY/MODEL)							
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)							
Additional RRH #1 - any band (QTY/MODEL)	1 AirScale Dual RRH 4T4R B25/66 320W AHFIB						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1							
Local Market Note 2							
Local Market Note 3							

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1						LTE AWS																
	PORT 2						LTE AWS																
	PORT 3						UMTS 850																
	PORT 4						UMTS 850																
	PORT 5						LTE AWS																

	PORT 6						LTE AWS																
	PORT 7						LTE WCS																
	PORT 8						LTE WCS																
	PORT 9						LTE WCS																
	PORT 10						LTE WCS																
	PORT 3						LTE 850																
ANTENNA POSITION 2	PORT 4						LTE 850																
	PORT 7						LTE 850																
	PORT 8						LTE 850																
	PORT 1						LTE 1900																
	PORT 2						LTE 1900																
	PORT 3						LTE 700																
ANTENNA POSITION 4	PORT 4						LTE 700																
	PORT 5						LTE 1900																
	PORT 6						LTE 1900																
	PORT 7						LTE 700																
	PORT 8						LTE 700																

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Fire	Traffic

Section 17A - FINAL TOWER CONFIGURATION - SECTOR A (OR OMNI)

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR	KMW	KMW		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	96X21X6.3		96X21X6.3			
ANTENNA WEIGHT	62.4	86		86			
AZIMUTH	40	40		40			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	79	79		79			
ANTENNA TIP HEIGHT	83.15	83		83			
MECHANICAL DOWNTILT	0	0		0			
FEEDER AMOUNT	2	0		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)	1	1					
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1			
RRH - 850 band (QTY/MODEL)		1					
RRH - 1900 band (QTY/MODEL)				1			
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)	1						
Additional RRH #1 - any band (QTY/MODEL)	1						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: U8(07) , L2(02) , WCS(02) , L8(02) , L7(02) , L9(02) , L7_PS(02) ERP: U8(498) , L2(4246) , WCS(2944) , L8(463) , L7(3228) , L9(3715) , L7_PS(3228)						
Local Market Note 2	ANTENNA PORTS: U8(7c+7d) , L2(7a+7b+7e+7f) , WCS(7g+7h+7i+7j) , L8(8c+8d+8g+8h) , L7(10c+10d+10g+10h) , L9(10a+10b+10e+10f) , L7_PS(10c+10d+10g+10h)						
Local Market Note 3	SECTOR NAME: U8(WATAU3055X) , L2(WAL03055_2A_1) , WCS(WAL03055_3A_1) , L8(WAL03055_8A_1) , L7(WAL03055_7A_1) , L9(WAL03055_9A_1) , L7_PS(WAL03055_7A_2_F)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1	75153.A.AWS.4G.1		WAL03055_2A_1	WAL03055_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						4246			
	PORT 2	75153.A.AWS.4G.1		WAL03055_2A_1	WAL03055_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						4246			
	PORT 3	75153.A.850.3G.1		WATAU3055X	WATAU3055X		UMTS 850	EPBQ-	16		7	None	Comm 7/8_850	106						498			

								652L8H8_850MHz_07DT																
	PORT 4	75153.A.850.3G.1		WATAU3055X	WATAU3055X		UMTS 850	EPBQ-652L8H8_850MHz_07DT	16		7	None	Comm 7/8_850	106						498				
	PORT 5	75153.A.AWS.4G.1		WAL03055_2A_1	WAL03055_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						4246				
	PORT 6	75153.A.AWS.4G.1		WAL03055_2A_1	WAL03055_2A_1		LTE AWS	EPBQ-652L8H8_2130MHz_02DT	16		2	Top	FIBER	106						4246				
	PORT 7	75153.A.WCS.4G.1		WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						2944				
	PORT 8	75153.A.WCS.4G.1		WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						2944				
	PORT 9	75153.A.WCS.4G.1		WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						2944				
	PORT 10	75153.A.WCS.4G.1		WAL03055_3A_1	WAL03055_3A_1		LTE WCS	EPBQ-652L8H8_2355MHz_02DT	17		2	Top	FIBER	106						2944				
ANTENNA POSITION 2	**PORT 3**	75153.A.850.4G.tmp1		WAL03055_8A_1	WAL03055_8A_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 4	75153.A.850.4G.tmp1		WAL03055_8A_1	WAL03055_8A_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 7	75153.A.850.4G.tmp1		WAL03055_8A_1	WAL03055_8A_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 8	75153.A.850.4G.tmp1		WAL03055_8A_1	WAL03055_8A_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
ANTENNA POSITION 4	**PORT 1**	75153.A.1900.4G.1		WAL03055_9A_1	WAL03055_9A_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 2	75153.A.1900.4G.1		WAL03055_9A_1	WAL03055_9A_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 3	75153.A.700.4G.1,75153.A.700.4G.tmp1		WAL03055_7A_1, WAL03055_7A_2_F	WAL03055_7A_1, WAL03055_7A_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 4	75153.A.700.4G.1,75153.A.700.4G.tmp1		WAL03055_7A_1, WAL03055_7A_2_F	WAL03055_7A_1, WAL03055_7A_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 5	75153.A.1900.4G.1		WAL03055_9A_1	WAL03055_9A_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 6	75153.A.1900.4G.1		WAL03055_9A_1	WAL03055_9A_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 7	75153.A.700.4G.1,75153.A.700.4G.tmp1		WAL03055_7A_1, WAL03055_7A_2_F	WAL03055_7A_1, WAL03055_7A_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 8	75153.A.700.4G.1,75153.A.700.4G.tmp1		WAL03055_7A_1, WAL03055_7A_2_F	WAL03055_7A_1, WAL03055_7A_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				

Section 17B - FINAL TOWER CONFIGURATION - SECTOR B

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR	KMW	KMW		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	96X21X6.3		96X21X6.3			
ANTENNA WEIGHT	62.4	86		86			
AZIMUTH	215	215		215			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	80	80		80			
ANTENNA TIP HEIGHT	84.15	84		84			
MECHANICAL DOWNTILT	2	2		2			
FEEDER AMOUNT	2	0		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1 B12/B14 Airscale Dual-band RRH 4T4R 320W(AHLBA)			
RRH - 850 band (QTY/MODEL)		1 AirScale RRH 4T4R B5 160W AHCA					
RRH - 1900 band (QTY/MODEL)				1 B25 RRH4X30-4R			
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)	1 RRH4x25-WCS-4R						
Additional RRH #1 - any band (QTY/MODEL)	1 AirScale Dual RRH 4T4R B25/66 320W AHFIB						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: U8(05) , L2(00) , WCS(00) , L8(02) , L7(04) , L9(02) , L7_PS(04) ERP: U8(490) , L2(4120) , WCS(2877) , L8(463) , L7(3303) , L9(3715) , L7_PS(3303)						
Local Market Note 2	ANTENNA PORTS: U8(13c+13d) , L2(13a+13b+13e+13f) , WCS(13g+13h+13i+13j) , L8(14c+14d+14g+14h) , L7(16c+16d+16g+16h) , L9(16a+16b+16e+16f) , L7_PS(16c+16d+16g+16h)						
Local Market Note 3	SECTOR NAME: U8(WATAU3055Y) , L2(WAL03055_2B_1) , WCS(WAL03055_3B_1) , L8(WAL03055_8B_1) , L7(WAL03055_7B_1) , L9(WAL03055_9B_1) , L7_PS(WAL03055_7B_2_F)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1	75153.B.AWS.4G.1		WAL03055_2B_1	WAL03055_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						4120			
	PORT 2	75153.B.AWS.4G.1		WAL03055_2B_1	WAL03055_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						4120			
	PORT 3	75153.B.850.3G.1		WATAU3055Y	WATAU3055Y		UMTS 850	EPBQ-	16		5	None	Comm 7/8_850	106						490			

								652L8H8_850MHz_05DT															
	PORT 4	75153.B.850.3G.1		WATAU3055Y	WATAU3055Y		UMTS 850	EPBQ-652L8H8_850MHz_05DT	16		5	None	Comm 7/8_850	106						490			
	PORT 5	75153.B.AWS.4G.1		WAL03055_2B_1	WAL03055_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						4120			
	PORT 6	75153.B.AWS.4G.1		WAL03055_2B_1	WAL03055_2B_1		LTE AWS	EPBQ-652L8H8_2130MHz_00DT	16		0	Top	FIBER	106						4120			
	PORT 7	75153.B.WCS.4G.1		WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						2877			
	PORT 8	75153.B.WCS.4G.1		WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						2877			
	PORT 9	75153.B.WCS.4G.1		WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						2877			
	PORT 10	75153.B.WCS.4G.1		WAL03055_3B_1	WAL03055_3B_1		LTE WCS	EPBQ-652L8H8_2355MHz_00DT	17		0	Top	FIBER	106						2877			
ANTENNA POSITION 2	**PORT 3**	75153.B.850.4G.tmp1		WAL03055_8B_1	WAL03055_8B_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463			
	PORT 4	75153.B.850.4G.tmp1		WAL03055_8B_1	WAL03055_8B_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463			
	PORT 7	75153.B.850.4G.tmp1		WAL03055_8B_1	WAL03055_8B_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463			
	PORT 8	75153.B.850.4G.tmp1		WAL03055_8B_1	WAL03055_8B_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463			
ANTENNA POSITION 4	**PORT 1**	75153.B.1900.4G.1		WAL03055_9B_1	WAL03055_9B_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715			
	PORT 2	75153.B.1900.4G.1		WAL03055_9B_1	WAL03055_9B_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715			
	PORT 3	75153.B.700.4G.1,75153.B.700.4G.tmp1		WAL03055_7B_1, WAL03055_7B_2_F	WAL03055_7B_1, WAL03055_7B_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_04DT	15		4	Top	FIBER	106						6606			
	PORT 4	75153.B.700.4G.1,75153.B.700.4G.tmp1		WAL03055_7B_1, WAL03055_7B_2_F	WAL03055_7B_1, WAL03055_7B_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_04DT	15		4	Top	FIBER	106						6606			
	PORT 5	75153.B.1900.4G.1		WAL03055_9B_1	WAL03055_9B_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715			
	PORT 6	75153.B.1900.4G.1		WAL03055_9B_1	WAL03055_9B_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715			
	PORT 7	75153.B.700.4G.1,75153.B.700.4G.tmp1		WAL03055_7B_1, WAL03055_7B_2_F	WAL03055_7B_1, WAL03055_7B_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_04DT	15		4	Top	FIBER	106						6606			
	PORT 8	75153.B.700.4G.1,75153.B.700.4G.tmp1		WAL03055_7B_1, WAL03055_7B_2_F	WAL03055_7B_1, WAL03055_7B_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_04DT	15		4	Top	FIBER	106						6606			

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Section 17C - FINAL TOWER CONFIGURATION - SECTOR C

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	EPBQ-652L8H8	EPBQ-654L8H8-L2		EPBQ-654L8H8-L2			
ANTENNA VENDOR	KMW	KMW		KMW			
ANTENNA SIZE (H x W x D)	99.6X12X6.3	96X21X6.3		96X21X6.3			
ANTENNA WEIGHT	62.4	86		86			
AZIMUTH	315	315		315			
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	79	79		79			
ANTENNA TIP HEIGHT	83.15	83		83			
MECHANICAL DOWNTILT	2	2		2			
FEEDER AMOUNT	2	0		0			
VERTICAL SEPARATION from ANTENNA ABOVE (TIP to TIP)							
VERTICAL SEPARATION from ANTENNA BELOW (TIP to TIP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # / # of inches)							
Antenna RET Motor (QTY/MODEL)							
SURGE ARRESTOR (QTY/MODEL)							
DIPLEXER (QTY/MODEL)							
DUPLEXER (QTY/MODEL)							
Antenna RET CONTROL UNIT (QTY/MODEL)							
DC BLOCK (QTY/MODEL)							
TMA/LNA (QTY/MODEL)							
CURRENT INJECTORS FOR TMA (QTY/MODEL)							
PDU FOR TMAS (QTY/MODEL)							
FILTER (QTY/MODEL)							
SQUID (QTY/MODEL)							
FIBER TRUNK (QTY/MODEL)							
DC TRUNK (QTY/MODEL)							
REPEATER (QTY/MODEL)							
RRH - 700 band (QTY/MODEL)				1 B12/B14 Airscale Dual-band RRH 4T4R 320W(AHLBA)			
RRH - 850 band (QTY/MODEL)		1 AirScale RRH 4T4R B5 160W AHCA					
RRH - 1900 band (QTY/MODEL)				1 B25 RRH4X30-4R			
RRH - AWS band (QTY/MODEL)							
RRH - WCS band (QTY/MODEL)	1 RRH4x25-WCS-4R						
Additional RRH #1 - any band (QTY/MODEL)	1 AirScale Dual RRH 4T4R B25/66 320W AHFIB						
Additional RRH #2 - any band (QTY/MODEL)							
Additional Component 1 (QTY/MODEL)							
Additional Component 2 (QTY/MODEL)							
Additional Component 3 (QTY/MODEL)							
Local Market Note 1	ELECTRICAL TILTS: U8(09) , L2(03) , WCS(05) , L8(02) , L7(02) , L9(02) , L7_PS(02) ERP: U8(498) , L2(4315) , WCS(3054) , L8(463) , L7(3228) , L9(3715) , L7_PS(3228)						
Local Market Note 2	ANTENNA PORTS: U8(1c+1d) , L2(1a+1b+1e+1f) , WCS(1g+1h+1i+1j) , L8(2c+2d+2g+2h) , L7(4c+4d+4g+4h) , L9(4a+4b+4e+4f) , L7_PS(4c+4d+4g+4h)						
Local Market Note 3	SECTOR NAME: U8(WATAU3055Z) , L2(WAL03055_2C_1) , WCS(WAL03055_3C_1) , L8(WAL03055_8C_1) , L7(WAL03055_7C_1) , L9(WAL03055_9C_1) , L7_PS(WAL03055_7C_2_F)						

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PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSSng)	USEID (Atoll)	ATOLL TXID	ATOLL CELL ID	TX/RX ?	TECHNOLOGY/FREQUENCY	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRH LOCATION (Top/Bottom/Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	RXAIT KIT MODULE?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCPA/MCPA MODULE?	HATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSNG)
ANTENNA POSITION 1	PORT 1	75153.C.AWS.4G.1		WAL03055_2C_1	WAL03055_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						4315			
	PORT 2	75153.C.AWS.4G.1		WAL03055_2C_1	WAL03055_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						4315			
	PORT 3	75153.C.850.3G.1		WATAU3055Z	WATAU3055Z		UMTS 850	EPBQ-	16		9	None	Comm 7/8_850	106						498			

								652L8H8_850MHz_09DT																
	PORT 4	75153.C.850.3G.1		WATAU3055Z	WATAU3055Z		UMTS 850	EPBQ-652L8H8_850MHz_09DT	16		9	None	Comm 7/8_850	106						498				
	PORT 5	75153.C.AWS.4G.1		WAL03055_2C_1	WAL03055_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						4315				
	PORT 6	75153.C.AWS.4G.1		WAL03055_2C_1	WAL03055_2C_1		LTE AWS	EPBQ-652L8H8_2130MHz_03DT	17		3	Top	FIBER	106						4315				
	PORT 7	75153.C.WCS.4G.1		WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						3054				
	PORT 8	75153.C.WCS.4G.1		WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						3054				
	PORT 9	75153.C.WCS.4G.1		WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						3054				
	PORT 10	75153.C.WCS.4G.1		WAL03055_3C_1	WAL03055_3C_1		LTE WCS	EPBQ-652L8H8_2355MHz_05DT	17		5	Top	FIBER	106						3054				
ANTENNA POSITION 2	**PORT 3**	75153.C.850.4G.tmp1		WAL03055_8C_1	WAL03055_8C_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 4	75153.C.850.4G.tmp1		WAL03055_8C_1	WAL03055_8C_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 7	75153.C.850.4G.tmp1		WAL03055_8C_1	WAL03055_8C_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
	PORT 8	75153.C.850.4G.tmp1		WAL03055_8C_1	WAL03055_8C_1		LTE 850	EPBQ-654L8H8-L2_851MHz_02DT	16		2	Top	FIBER	100						463				
ANTENNA POSITION 4	**PORT 1**	75153.C.1900.4G.1		WAL03055_9C_1	WAL03055_9C_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 2	75153.C.1900.4G.1		WAL03055_9C_1	WAL03055_9C_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 3	75153.C.700.4G.1,75153.C.700.4G.tmp1		WAL03055_7C_1, WAL03055_7C_2_F	WAL03055_7C_1, WAL03055_7C_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 4	75153.C.700.4G.1,75153.C.700.4G.tmp1		WAL03055_7C_1, WAL03055_7C_2_F	WAL03055_7C_1, WAL03055_7C_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 5	75153.C.1900.4G.1		WAL03055_9C_1	WAL03055_9C_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 6	75153.C.1900.4G.1		WAL03055_9C_1	WAL03055_9C_1		LTE 1900	EPBQ-654L8H8-L2_1930MHz_02DT	17		2	Top	FIBER	106						3715				
	PORT 7	75153.C.700.4G.1,75153.C.700.4G.tmp1		WAL03055_7C_1, WAL03055_7C_2_F	WAL03055_7C_1, WAL03055_7C_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				
	PORT 8	75153.C.700.4G.1,75153.C.700.4G.tmp1		WAL03055_7C_1, WAL03055_7C_2_F	WAL03055_7C_1, WAL03055_7C_2_F		LTE 700	EPBQ-654L8H8-L2_722MHz_02DT	15		2	Top	FIBER	106						6456				

Diagram - Sector	A	Diagram File Name - _EA_5G_F12L12_0DB3WB_0DiF_2F_0DT0TTU8L2WL8L79FN_v01.vsd					
Atoll Site Name -	WATAU3055	Location Name -	GOOD SAMARITAN	Market -	WASHINGTON	Market Cluster -	SEATTLE/OREGON/NO. ID
Comments:							

PRCA20220294

HB LB HB HB HB

RET

AirScale Dual RRH 4T4R B25/66 320W (AHFIB)

CPRI/DC

RRH4x25-WCS-4R

CPRI/DC

Raycap DC6-48-60-18-8F

HB LB HB LB HB HB

RET

AirScale RRH 4T4R B5 160W AHCA

CPRI/DC

Raycap DC6-48-60-18-8F

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

HB LB HB LB HB HB

RET

B25 RRH4x30-4R

CPRI/DC

B12/B14 AirScale Dual RRH 4T4R 320W (AHLBA)

CPRI/DC

Raycap DC6-48-60-18-8F

Hatch

TX1/RX1 RX2 TX1/RX1 RX2

UMTS 850/1900 Node-B (Duplexed)

UMTS

ABIA
ABIA
ABIA
ASIA

ABIL
ASIK

LTE 5G

Power Plant

Diagram - Sector	B	Diagram File Name - _EA_5G_F12L12_0DB3WB_0DiF_2F_0DT0TTU8L2WL8L79FN_v01.vsd					
Atoll Site Name -	WATAU3055	Location Name -	GOOD SAMARITAN	Market -	WASHINGTON	Market Cluster -	SEATTLE/OREGON/NO. ID
Comments:							

PRCA20220294

HB LB HB HB HB

RET

AirScale Dual RRH 4T4R B25/66 320W (AHFIB)

CPRI/DC

RRH4x25-WCS-4R

CPRI/DC

Raycap DC6-48-60-18-8F

HB LB HB LB HB HB

RET

AirScale RRH 4T4R B5 160W AHCA

CPRI/DC

Raycap DC6-48-60-18-8F

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

HB LB HB LB HB HB

RET

B25 RRH4x30-4R

CPRI/DC

B12/B14 AirScale Dual RRH 4T4R 320W (AHLBA)

CPRI/DC

Raycap DC6-48-60-18-8F

Hatch

TX1/RX1 RX2 TX1/RX1 RX2

UMTS 850/1900 Node-B (Duplexed)

UMTS

ABIA
ABIA
ABIA
ASIA

ABIL
ASIK

LTE 5G

Power Plant

Diagram - Sector	C	Diagram File Name - _EA_5G_F12L12_0DB3WB_0DiF_2F_0DT0TTU8L2WL8L79FN_v01.vsd					
Atoll Site Name -	WATAU3055	Location Name -	GOOD SAMARITAN	Market -	WASHINGTON	Market Cluster -	SEATTLE/OREGON/NO. ID
Comments:							

PRCA20220294

HB LB HB HB HB

RET

AirScale Dual RRH 4T4R B25/66 320W (AHFIB)

CPRI/DC

RRH4x25-WCS-4R

CPRI/DC

Raycap DC6-48-60-18-8F

HB LB HB LB HB HB

RET

AirScale RRH 4T4R B5 160W AHCA

CPRI/DC

Raycap DC6-48-60-18-8F

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

HB LB HB LB HB HB

RET

B25 RRH4x30-4R

CPRI/DC

B12/B14 AirScale Dual RRH 4T4R 320W (AHLBA)

CPRI/DC

Raycap DC6-48-60-18-8F

Hatch

TX1/RX1 RX2 TX1/RX1 RX2

UMTS 850/1900 Node-B (Duplexed)

UMTS

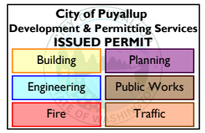
ABIA
ABIA
ABIA
ASIA
ABIL
ASIK

LTE 5G

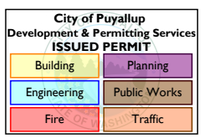
Power Plant

NOTES			
Date Time (Eastern)	Version	ATTUID	Note
10/15/2018 11:05:10 AM	2.00	ea1814	RFDS VERSION incremented.

PRCA20220294



WORKFLOW SUMMARY							
Date	FROM State / Status	FROM ATTUID	TO State / Status	TO ATTUID	Operation	Comments	PACE Status
08/30/2017	Preliminary In Progress	ps305p	P PRCA20220294 Approval	RX191C	Promote		WR_-RWOR-17-06782 PENDING 08/30/2017 1:47:59 PM WR_-RWOR-17-05043 MRWOR026861 SUCCESS 08/30/2017 1:47:59 PM WR_-RWOR-17-03297 PENDING 08/30/2017 1:47:59 PM
08/30/2017	Preliminary Submitted for Approval	RX191C	Preliminary Approved	DC5605	Promote		
08/01/2018	Preliminary Approved	DC5605	Preliminary In Progress	ea1814	Pull Back	Need to update the design based on the new RANFT Batch 2&3.	
08/28/2018	Preliminary In Progress	ea1814	Preliminary Submitted for Approval	AW1011	Promote		WR_-RWOR-18-04986 MRWOR036719 SUCCESS 08/28/2018 11:40:10 AM WR_-RWOR-18-04274 MRWOR036729 SUCCESS 08/28/2018 11:40:10 AM WR_-RWOR-18-05073 MRWOR036725 SUCCESS 08/28/2018 11:40:10 AM WR_-RWOR-18-04524 PENDING 08/28/2018 11:40:10 AM WR_-RWOR-18-05732 MRWOR036739 SUCCESS 08/28/2018 11:40:10 AM WR_-RWOR-18-05764 MRWOR036743 SUCCESS 08/28/2018 11:40:10 AM
09/18/2018	Preliminary Submitted for Approval	AW1011	Preliminary Approved	DC5605	Promote		
10/09/2018	Preliminary Approved	DC5605	Final RF Approval	EA1814	Promote	Scoped 10/9/18	
10/17/2018	Final RF Approval	EA1814	Final Approved	DC5605	Promote		WR_-RWOR-18-04986 PENDING 10/17/2018 6:01:51 PM WR_-RWOR-18-04274 PENDING 10/17/2018 6:01:51 PM WR_-RWOR-18-05073 PENDING 10/17/2018 6:01:51 PM WR_-RWOR-18-04524 PENDING 10/17/2018 6:01:51 PM WR_-RWOR-18-05732 PENDING 10/17/2018 6:01:51 PM WR_-RWOR-18-05764 PENDING 10/17/2018 6:01:51 PM



SMARTLINK, LLC, USA
11410 NORTHEAST 122ND WAY
KIRKLAND, WA 98034

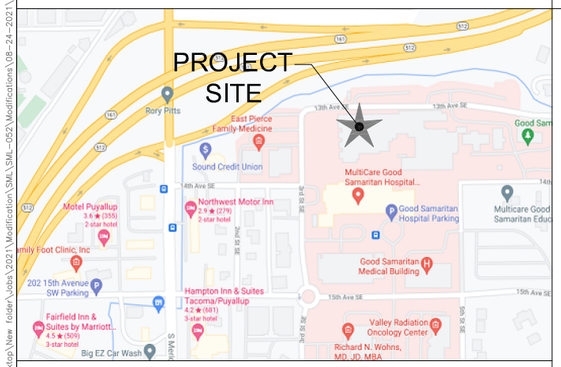
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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
(503) 924–2522
SStevenson@morrisonhershfield.com

Lance Cooke — Project Manager
(503) 595–9128
LCooke@morrisonhershfield.com

CLIENT CONTACT

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

PROJECT DATA

TOWER HEIGHT: 68.08' BUILDING

ANALYSIS REPORT: MH PROJECT NO. SML–052R4 / 2000479
DATED: 08/30/2021

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

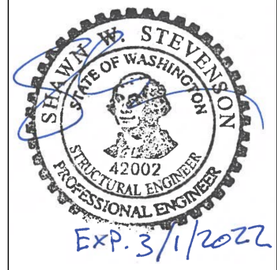
EARTHQUAKE DESIGN:

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

LIST OF DRAWINGS

NO.	TITLE	REVISION
T1	COVER SHEET	0
S1	PROPOSED LAYOUT & MODIFICATION SCHEDULE	0
S2	MOUNT PLANS	0
S3	MOUNT PLANS	0
S4	SECTION	0
S5	SBWM DETAIL	0
N1	REINFORCING NOTES	0

PRCA20220294



No.	Date	Action
7		
6		
5		
4		
3		
2		
1		
0	08/30/21	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:
COVER SHEET

Project No.: 2000479: SML–052R4	
Designer: ML	Date: 08/30/21
Drawn By: MG	Checked By: MM
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: T1

MODIFICATION SCHEDULE

1. SCOPE OF WORK INCLUDES REMOVING MOUNT IN ALPHA SECTOR. REFER DETAIL 1/S2.
2. INSTALL (4) NEW WALL MOUNT W/ (4) NEW 12'-0" LONG, 2.5SCH40 PIPE MOUNT (2) IN ALPHA SECTOR AND (1) IN BETA & GAMMA SECTOR. WALL MOUNT SHOULD BE SITE PRO 1 MODEL # SBWM. REFER SHEET S5 FOR SPECIFICATIONS.
3. USE 5/8"ø, A307 BOLT TO INSTALL NEW WALL MOUNT.
4. USE 1/2"ø U-BOLT TO CONNECT PIPE MOUNT TO WALL MOUNT.
5. INSTALL NEW 6x WOOD BLOCKING TO SUPPORT WALL MOUNT CONNECTIONS.
6. THE CONTRACTOR SHALL VISIT THE SITE; ANY PROBLEMS WITH ACCESS, INTERFERENCE, ETC. SHALL BE RESOLVED PRIOR TO BIDDING THE JOB.
7. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
8. FIELD VERIFY ALL BOLT SIZES PRIOR TO CONSTRUCTION.
9. WORK TO BE PERFORMED ONLY DURING CALM DAYS (WINDS LESS THAN 15 MPH).
10. CONTRACTOR TO MEASURE ALL DIMENSIONS BEFORE CREATING SHOP DRAWINGS. NOTIFY THE EOR IF THE FIELD DIMENSIONS CONFLICT WITH THE DESIGN.

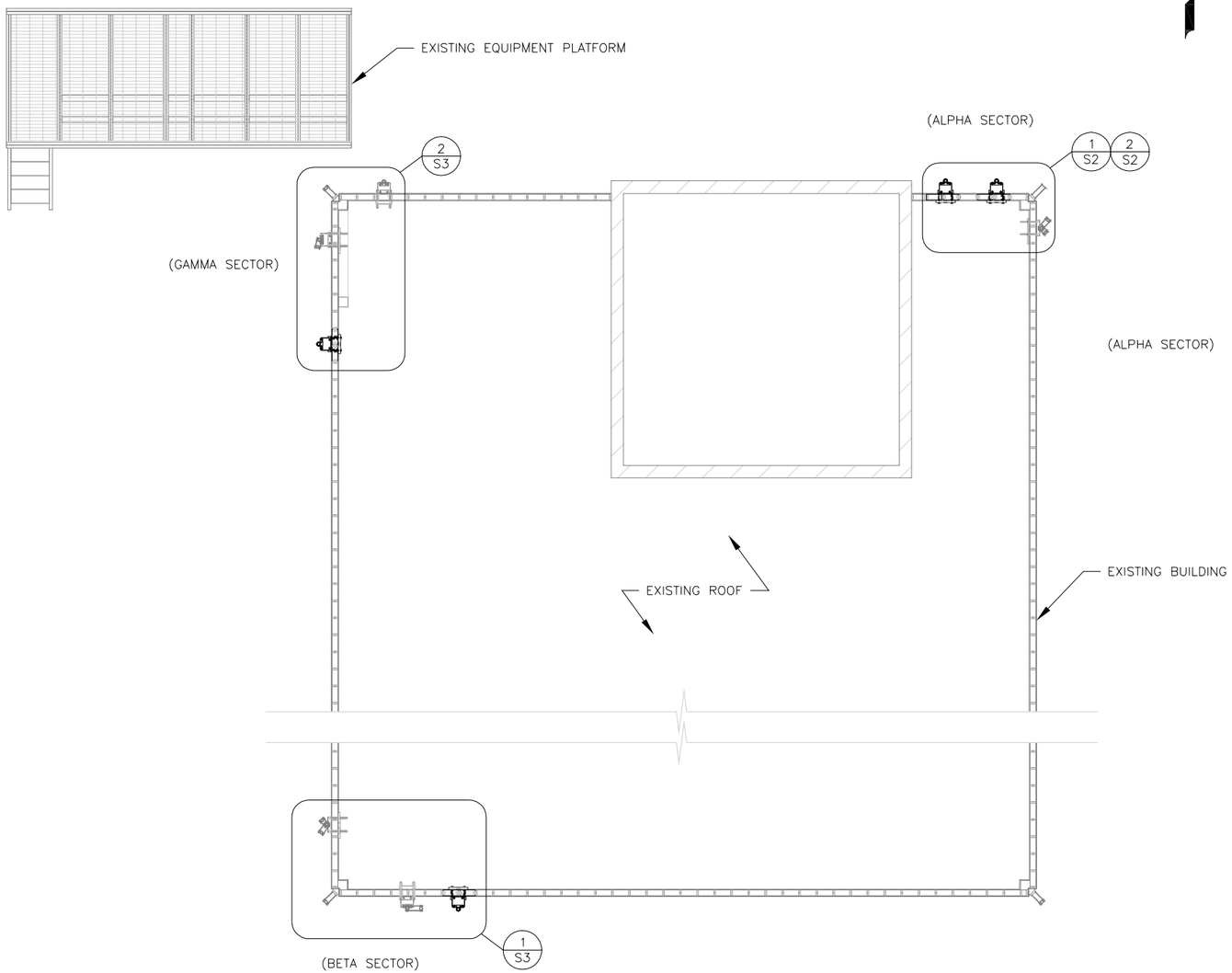
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

CONTRACTOR SUBMITTALS

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

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



1/S1 PROPOSED EQUIPMENT LAYOUT

SCALE: NTS

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.

SEAN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
Exp. 3/1/2022

No.	Date	Action
7		
6		
5		
4		
3		
2		
1		
0	08/30/21	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:
PROPOSED LAYOUT & MODIFICATION SCHEDULE

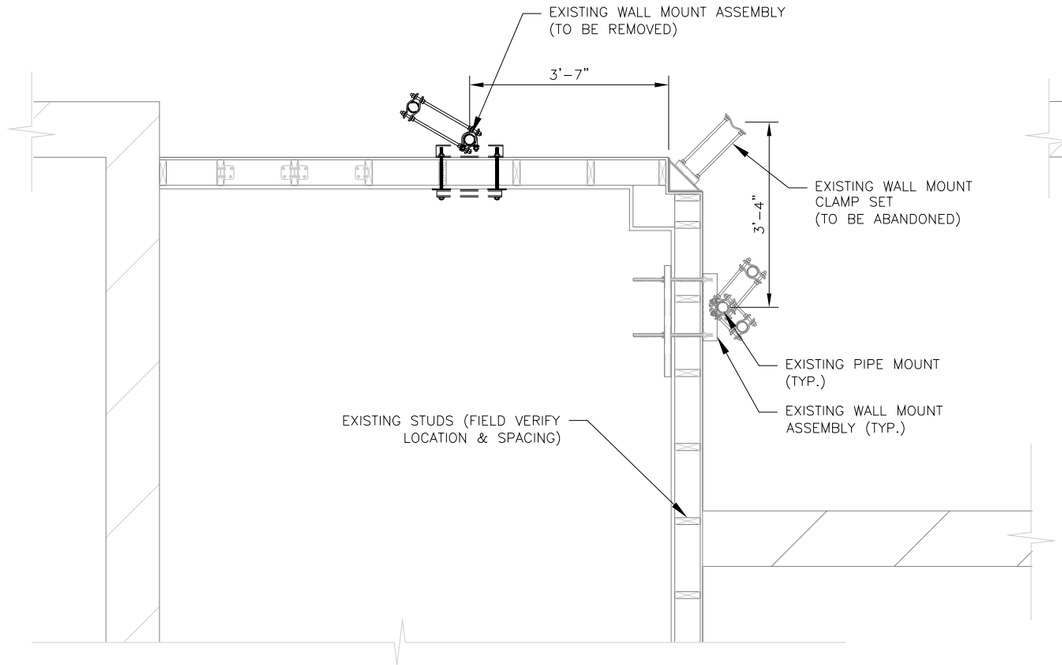
Project No.: 2000479: SML-052R4	
Designer: ML	Date: 08/30/21
Drawn By: MG	Checked By: MM
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: S1

PRCA20220294

NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL MEMBER LENGTHS AND SIZES PRIOR TO INSTALLING THE REINFORCEMENT.
2. FIELD VERIFY EXISTING WALL MATERIAL.
3. NOTIFY ANY FIT ISSUES PRIOR INSTALLING THE REINFORCEMENT.
4. ANY DISCREPANCIES OBSERVED DURING THE SITE VISIT NEED TO BE NOTED TO THE EOR FOR A WORKAROUND DESIGN.

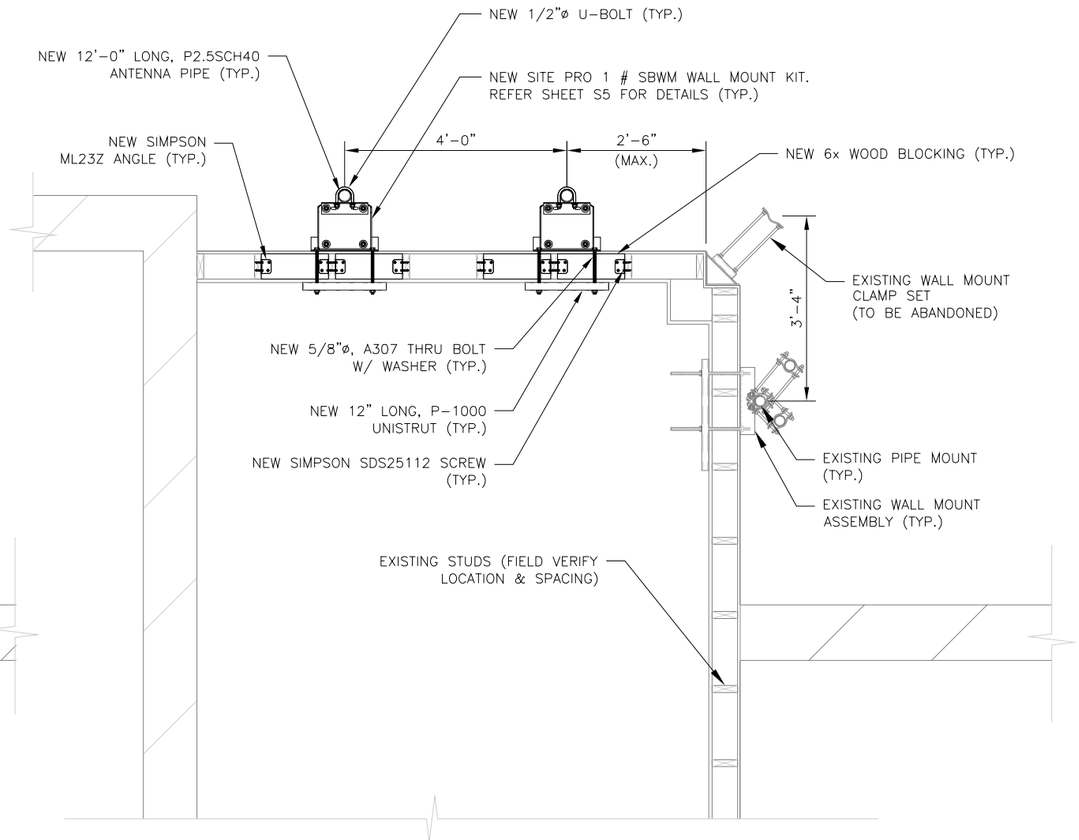
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



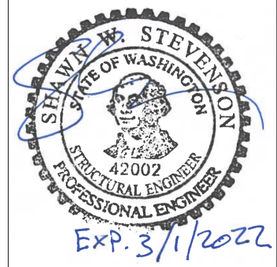
1/S2 EXISTING PLAN VIEW (ALPHA SECTOR)

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



2/S2 PROPOSED PLAN VIEW (ALPHA SECTOR)

SCALE: 1/2"=1'-0"



No.	Date	Action
7		
6		
5		
4		
3		
2		
1		
0	08/30/21	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

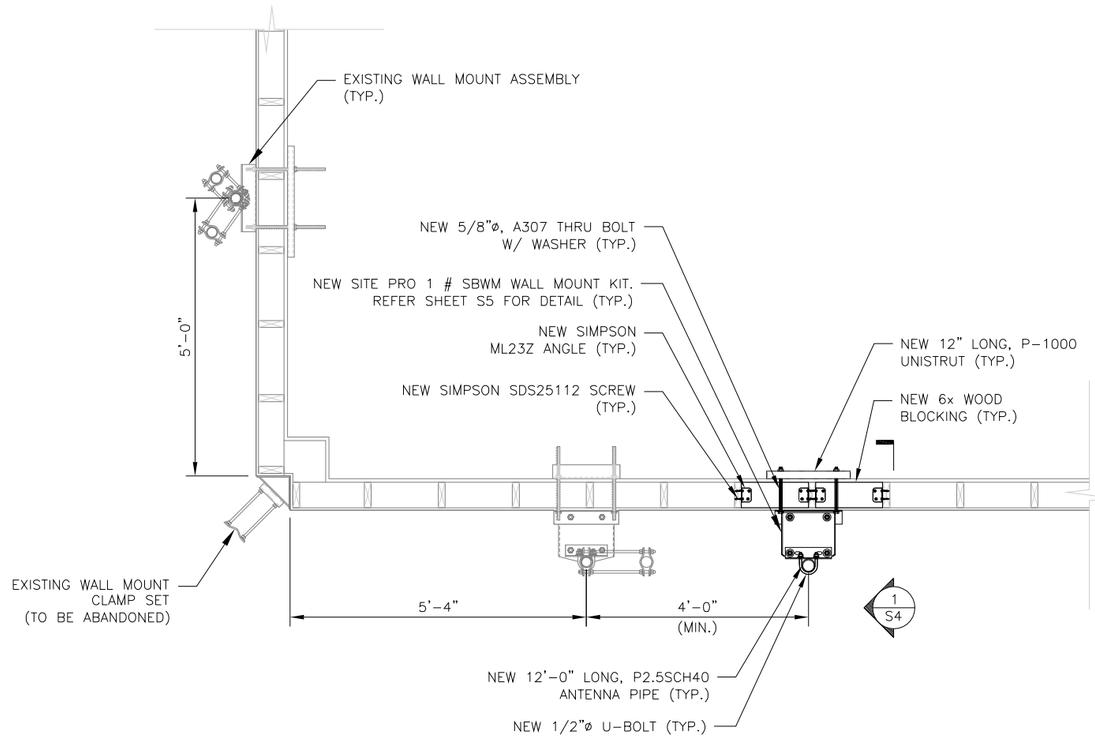
Project:
GOOD SAMARITAN
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

Drawing Title:
MOUNT PLANS

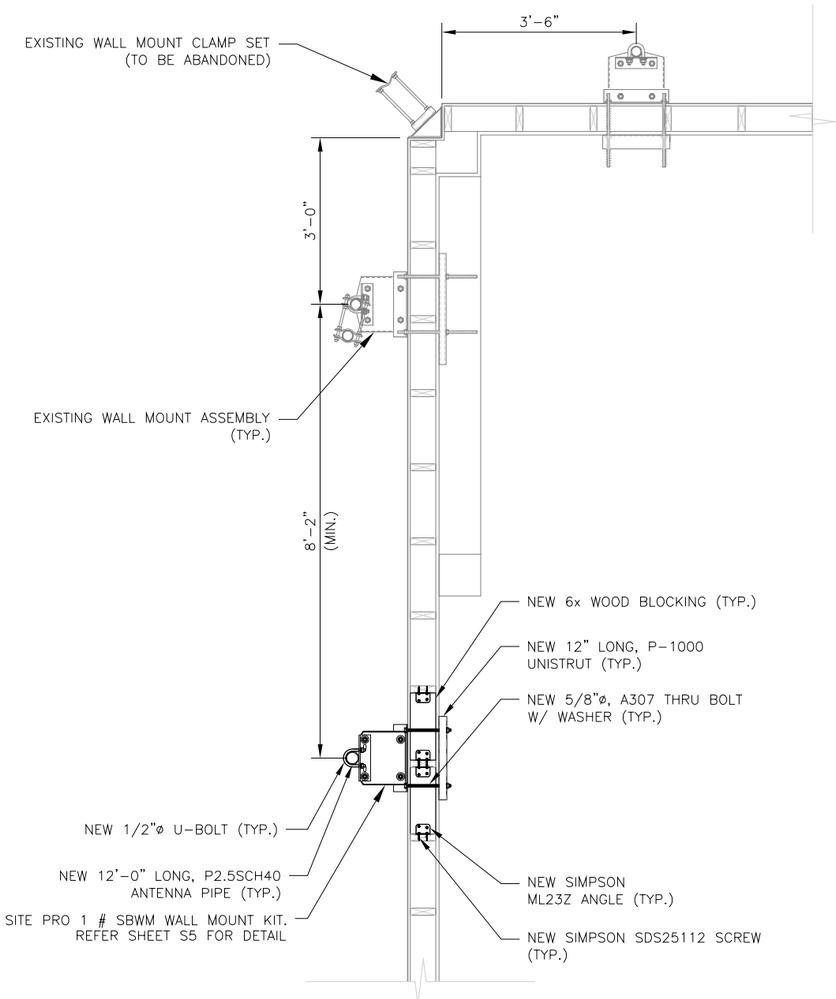
Project No.: 2000479: SML-052R4	
Designer: ML	Date: 08/30/21
Drawn By: MG	Checked By: MM
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: S2

PRCA20220294

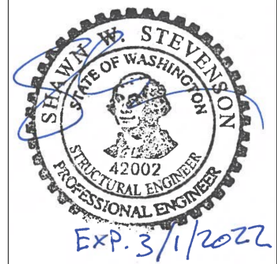
NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL MEMBER LENGTHS AND SIZES PRIOR TO INSTALLING THE REINFORCEMENT.
2. FIELD VERIFY EXISTING WALL MATERIAL.
3. NOTIFY ANY FIT ISSUES PRIOR INSTALLING THE REINFORCEMENT.
4. ANY DISCREPANCIES OBSERVED DURING THE SITE VISIT NEED TO BE NOTED TO THE EOR FOR A WORKAROUND DESIGN.



1 S3 PROPOSED PLAN VIEW (BETA SECTOR)
SCALE: 3/8"=1'-0"



2 S3 PROPOSED PLAN VIEW (GAMMA SECTOR)
SCALE: 3/8"=1'-0"



No.	Date	Action
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0	08/30/21	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

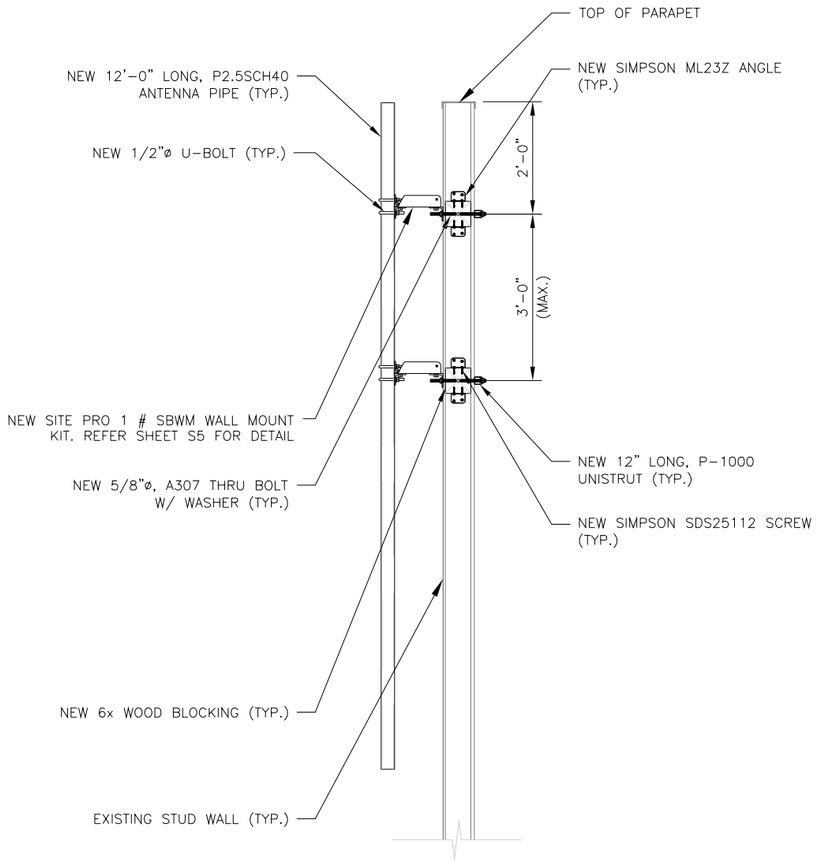
Drawing Title:
MOUNT PLANS

Project No. 2000479: SML-052R4	
Designer: ML	Date: 08/30/21
Drawn By: MG	Checked By: MM
PM Review: GLC	Client Approval
Issue No. 0	Drawing No. S3

PRCA20220294

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



1/S4 TYPICAL SECTION
SCALE: 3/8"=1'-0"

NOTE:
1. CONTRACTOR TO FIELD VERIFY ALL MEMBER LENGTHS AND SIZES PRIOR TO INSTALLING THE REINFORCEMENT.
2. FIELD VERIFY EXISTING WALL MATERIAL.
3. NOTIFY ANY FIT ISSUES PRIOR INSTALLING THE REINFORCEMENT.
4. ANY DISCREPANCIES OBSERVED DURING THE SITE VISIT NEED TO BE NOTED TO THE EOR FOR A WORKAROUND DESIGN.

SHAWN M. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
Exp. 3/1/2022

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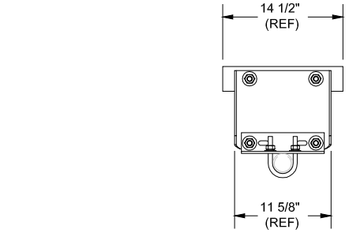
SITE ID: 75153-A
407 14TH AVENUE SOUTHEAST
PUYALLUP, WA 98371

Drawing Title:
DETAIL

Project No.: 2000479: SML-052R4	
Designer: ML	Date: 08/30/21
Drawn By: MG	Checked By: MM
PM Review: GLC	Client Approval
Issue No.: 0	Drawing No.: S4

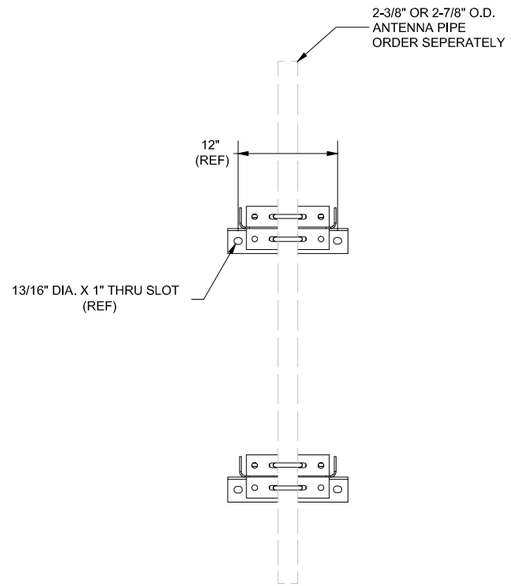
PRCA20220294

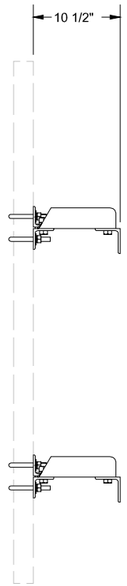


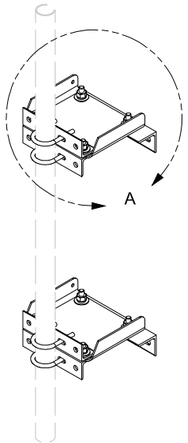
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

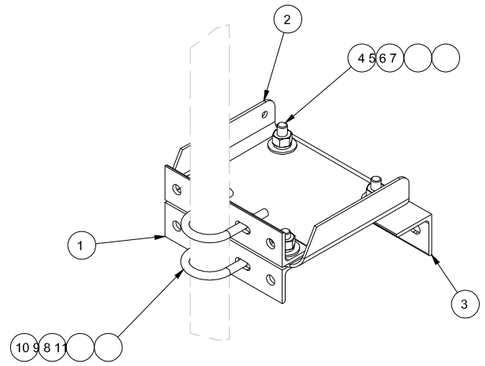
Building	Planning
Engineering	Public Works
Fire	Traffic

ITE	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-SLD-A	SLIDER BRACKET ANGLE	10 in	3.28	13.12
2	2	X-SLD-BP	SLIDER BRACKET BENT PLATE	15 3/4 in	8.13	16.26
3	2	X-SLD3	SLIDER BRACKET WALL ANGLE	14 1/2 in	6.10	12.20
4	8	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	2.16
5	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
6	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
7	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
8	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
9	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
10	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
11	4	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	2.65
11	4	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	2.95
					TOTAL WT. #	51.93









DETAIL A

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

DESCRIPTION: SLIDER BRACKET
WALL MOUNT
2-3/8" & 2-7/8" O.D. PIPE

SITE PRO 1 — A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	BMC 3/8/2011		SBWM	1 OF 1
CLASS SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	
81 01	CUSTOMER	RCH 3/14/2011	SBWM	

1/S5 SBWM DETAIL
SCALE: N.T.S.

PRCA20220294

SEAN W. STEVENSON
STATE OF WASHINGTON
42002
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
EXP. 3/1/2022

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Drawing Title:
SBWM DETAIL

Project No.
2000479: SML-052R4

Designer:	Date:
ML	08/30/21
Drawn By:	Checked By:
MG	MM
PM Review:	Client Approval
GLC	
Issue No.	Drawing No.
0	S5

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.

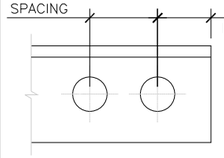
WOOD NOTES:

1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS), LATEST ADOPTION.
2. INSTALL ROUGH CARPENTRY WORK TO COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) TIMBER CONSTRUCTION (TC) MANUAL, LATEST ADOPTION AND RECOMMENDATIONS OF THE PRODUCT MANUFACTURER.
3. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR SPECIES, "SELECT STRUCTURAL" (GRADED UNDER WWPA RULES).
4. MISCELLANEOUS FASTENER CONNECTIONS SHALL BE IN ACCORDANCE WITH THE NAILING SCHEDULE OF THE APPROPRIATE BUILDING CODE. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREAS OF HIGH RELATIVE HUMIDITY, PROVIDE HOT-DIP-ZINC COATED FASTENERS PER ASTM A153 OR AISI TYPE 304 STAINLESS STEEL FASTENERS.
5. PRESERVATIVE PRESSURE TREAT LUMBER AND PLYWOOD WITH WATER-BORNE PRESERVATIVES TO COMPLY WITH AWPA C2 AND C9 RESPECTIVELY, AND WITH REQUIREMENTS INDICATED BELOW.
6. WOOD MEMBERS CONNECTORS SHALL BE SIMPSON STRONG-TIE OR APPROVED. FILL ALL NAIL HOLES WITH NAILS AS SPECIFIED BY CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE. HANGER SHALL DEVELOP BENDING STRENGTH OF MEMBERS, UNLESS CALLED OUT ON DRAWINGS.

COPING AND GAGE NOTES:

BOLT SCHEDULE

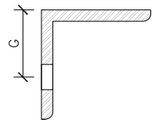
BOLT DIAMETER	STANDARD HOLE	MIN. EDGE DISTANCE	MIN. SPACING
1/2	9/16	7/8	1-1/2
5/8	11/16	1-1/8	1-7/8
3/4	13/16	1-1/4	2-1/4
7/8	15/16	1-1/2	2-5/8"
1	1-1/16	1-3/4	3



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

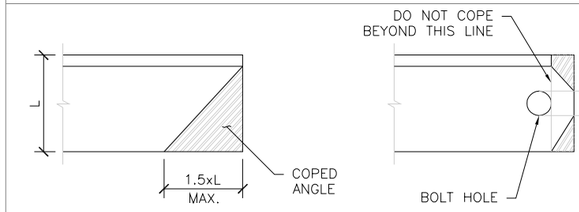
WORKABLE GAGES

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.

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GLC	
Issue No.	Drawing No.
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PRCA20220294