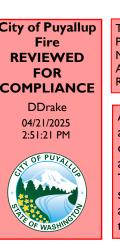
Walmart - #2403-254 Puyallup, WA

Emergency Responder Communication Enhancement System Radio Distributed Antenna System

310 31st Ave SE Puyallup, WA 98374



Plan Notes:

Pathway Identification:

Communication and signal circuits will be identified by a distinctive color on covers or doors. "Emergency Communications-Signal Circuit" will be clearly marked on all terminal and junction boxes.

Rooftop Antenna Mast:

Affix a 2" rigid conduit mast, with grounding and weather-head, extending a minimum 4' above the highest point on the roof for a 360° azimuth rotation.

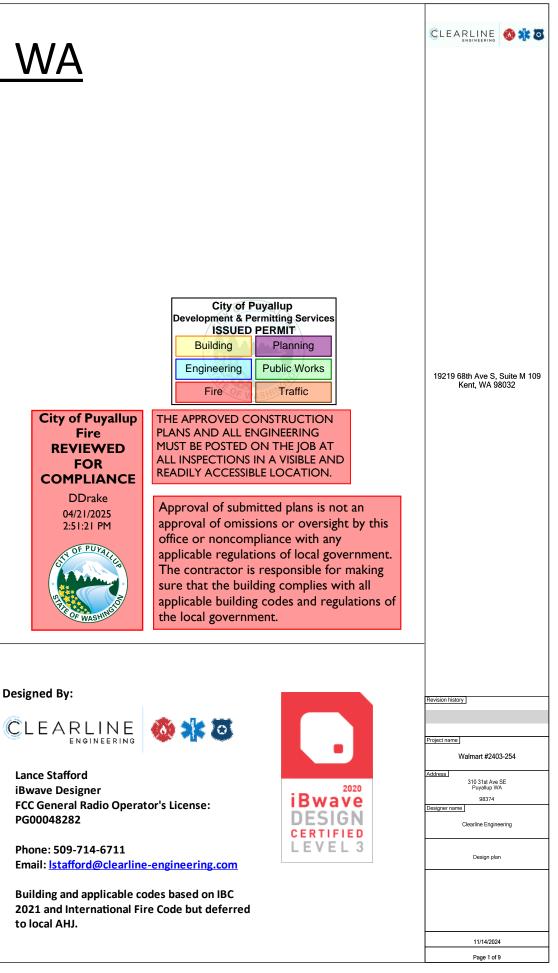
Headend Requirements:

- 1, 20A 120VAC power hardwired to BBU 2. Dedicated breaker with lockout at panel
- 3. 6 N/O dry contact fire alarm connections
- 4. Fire rated plywood board
- 5. Grounding busbar for 6 AWG grounding conductors

IFC 2021 - required automatic supervisory signals:

- Loss of normal AC power supply.
- System battery charger(s) failure.
- Malfunction of the donor antenna(s).
- Failure of active RF-emitting device(s).
- Low-battery capacity at 70-percent reduction of operating capacity.
- Failure of critical system components.
- · Oscillation of active RF-emitting device(s).

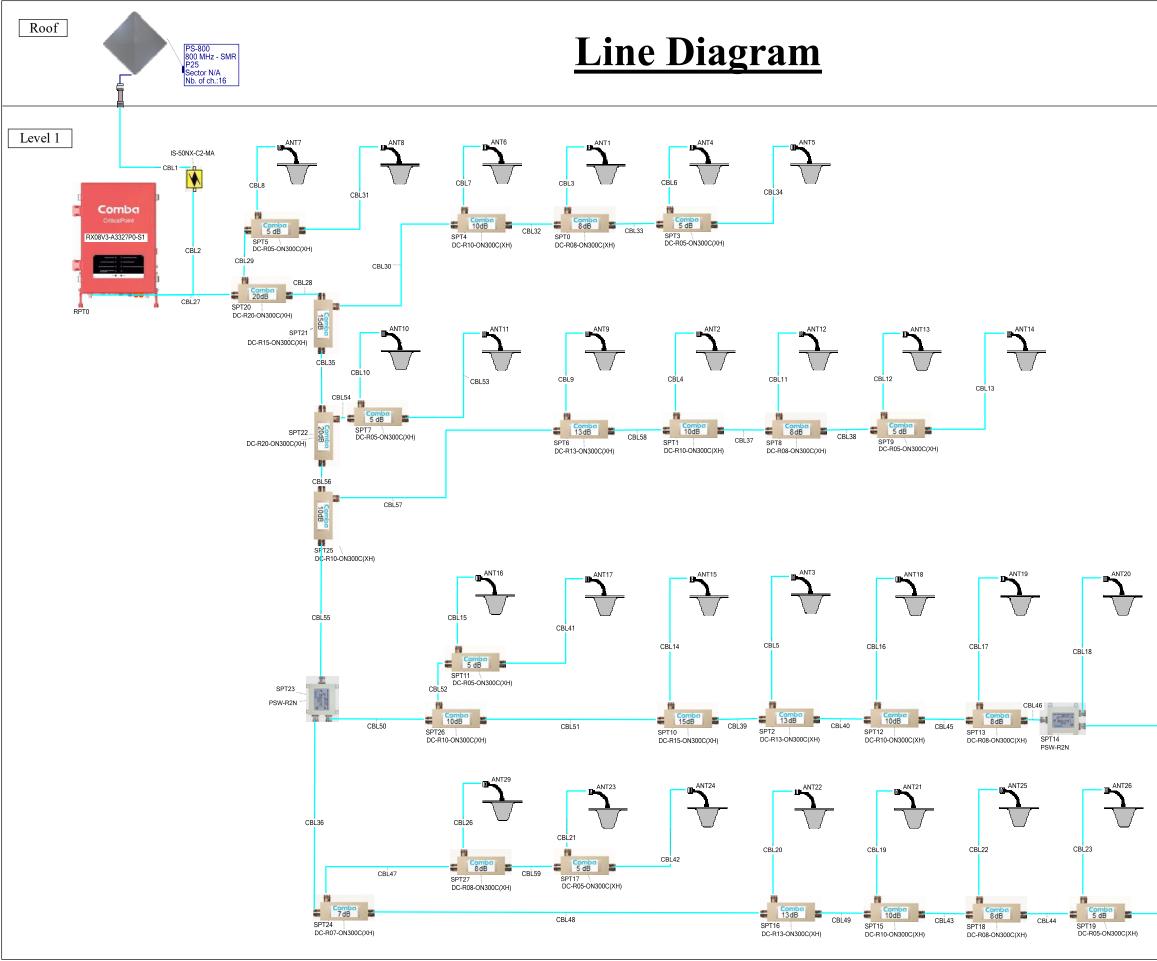
Designed By:



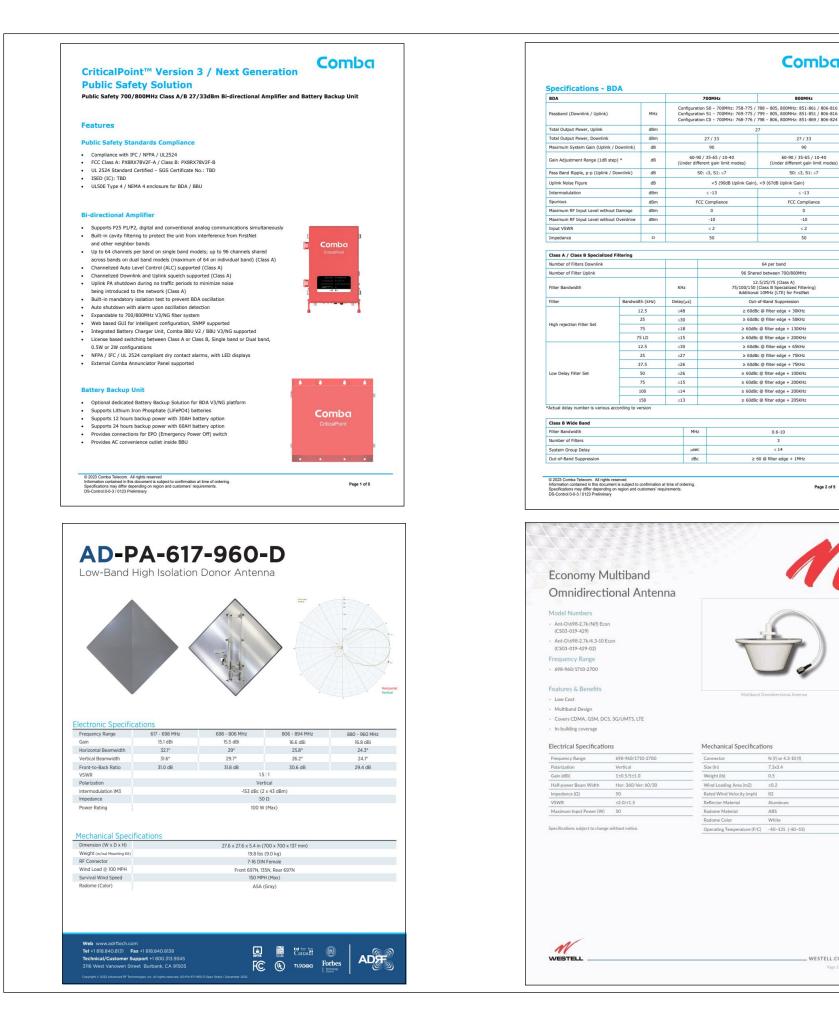
Lance Stafford iBwave Designer PG00048282

Phone: 509-714-6711

to local AHJ.



	City of Puyallup Development & Permitting Services ISSUED PERMIT
	Building Planning
	Engineering Public Works
CBL25	Fire Traffic
	Revision history
	Project name
	Project name Walmart #2403-254
	Walmart #2403-254
ANT27	Walmart #2403-254 Address I 310 31st Ave SE Puyallup WA
ANT27	Walmart #2403-254
MNT27	Walmart #2403-254 Address 310 31st Ave SE Puyallup WA 98374
	Walmart #2403-254 Address 310 31st Ave SE Puyellup WA 98374 Designer name
CBL24	Walmart #2403-254 Address 310 31st Ave SE Puyallup WA 98374 Designer name Clearline Engineering
	Walmart #2403-254 Address 310 31st Ave SE Puyallup WA 98374 Designer name Clearline Engineering



Mechanical - BDA				
BDA Dimensions, H x W x D			m	m
Weight (without bracket)				1
Power Supply Input			_	/A
Power Supply Output				
Maximum Charging Current	-		_	A
Power Consumption	Single	Band		W
Enclosure Cooling	Duar	Dana		
RF Connectors * 2				
Test Port * 2				
LED * 10				
Communication port *2				
Reserved knock outs Operating Temperature			-	9
Operating Humidity			-	
Environmental Class				
MTBF				н
Battery Backup U	nit			
BBU			_	
Dimensions, H x W x D			m	-
Weight (without battery) LiFePO4 Output			Kg	
LiFePO4 Battery Communicatio	n Port		-	×12
Knockouts				
Operating Temperature			op	: (
Operating Humidity				
Enclosure Environmental Class				
Battery Battery Type	1			_
Battery Type System Required Quantity	pcs		1	
Amp/Hour (Discharge at XC)			30AH	
Nominal Voltage			51.2V	
Battery Weight	lb(kg)	52	2.9 (24)	
Battery Electrolyte Counts		0.456 Ga	allons / 4.6 I	b
© 2023 Comba Telecom. Al right Information contained in this docum Specifications nay differ depending DS-Control:3-0-3 / 0123 Preliminary	i on region and	o confirmation a customers' req	at time of ord- uirements.	91
Wideband D	irectio	onal C		
	irectio	onal C	ouple	
Wideband D DC-Rxx-ON300 Low PIM(-153dBc), 698 • Wideband design of	irectio DC(XH) -2700MH	onal C z, N-Female 598-2700N	ouple e, 300W //Hz	
Wideband D DC-Rxx-ON300 Low PIM(-153dBc), 698 • Wideband design o • Available 5, 6, 7, 8,	irectic OC(XH) -2700MH covering (10, 13, 1	2000 2000 2000 2000 2000 2000 2000 200	ouple e, 300W /Hz & 40dB v	
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Wideband D DC-Rxx-ON300 Low PIM(-153dBc), 698 • Wideband design o Available 5, 6, 7, 8, • Suitable for indoor • High Reliability and Electrical Specificat Product Model Frequency (MHz)	irectic DC(XH) -2700MH covering (10, 13, 1 /outdoor Low Inso ion DC-R05 ON300 (XH)	2, N-Female 2, N-Female 98-2700N 5, 20, 30 & environmertion 5, 20, 30 & env	ouple e, 300W /Hz & 40dB v lent s DC-R07- ON300C (XH)	
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DS-Control 1-0-0/ 0316

Comba Telecom Inc. 235 Charcot Avenue, Sa Tel: +1 866 802 7961, combausa@cor

Comba

800MHz

27/33

S0: ≤3, S1: ≤7

FCC Compliance

-10

52

50

Page 2 of 5

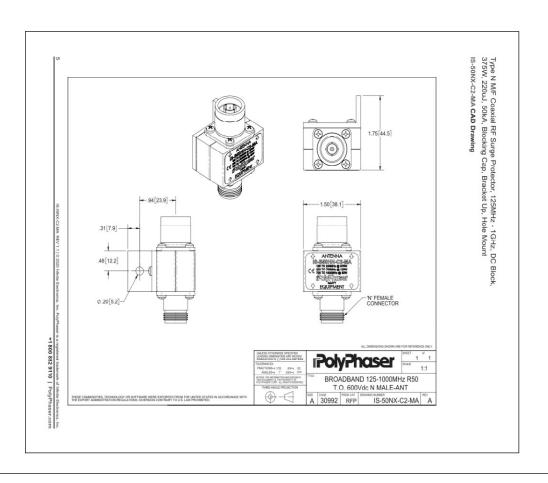
WESTELL.COM

			Co	mb	D
/ in Ibs		25 / 5			
AC DC			50Hz / 0-4.5 53.5V) / 0-7		
	27 dBm <75 <85			33 dBm <90 <100	
	N-Female (MT, SMA-F				1
			ED 1 - 8, ALI		
	3/4-inch hole x	1, 1/2-inch -40 to ≤ 95	+55	inch hole x2	
	U		4 / NEMA 4		
/ in Ibs	605 x 500	26 / 5		x 10.7	
c		Per Ba Serial port		e x 6	
°C)		32 to 104 (≤ 95	(0 to 40) %		
	U	LSOE Type	4 / NEMA 4		
(ithium Iron Phosphate) 1	LiFePO4		1	
	60AH 51.2V 79.8 (36.2)		,	100AH 51.2V 23.5 (56)	
	0.913 Gallons / 9.1	lbs		Sallons / 17.0	5 lbs
ng.				Page 3	of 5
r lues		1	Keeps y		DC
Ues DC-R08-	DC-R10 DC-R13 ON300C ON300C (XH) (XH) 698-2700	DC-R15- ON300C (XH)	Construction Construction DC-R20- ON300C (XH)	mĿ	DC
UUES DC-R08- DC-R08- CON300C (XH) 8.0 ± 0.8	ON300C (XH) ON300C (XH) 698-2700 10.0 13.0 ± 0.8 ± 1.0	DC-R15- ON300C (XH) 15.0 ±1.0	неерзул ни и сото конструктически ко	оц сопте оц сопте оц сопте од исто од исто	Dc:R40- 0N300C (XH) 40.0 ±1.5
UC-R08- 00300C (XH) 8.0	ON300C (XH) ON300C (XH) 698-2700 10.0 13.0 ± 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33	DC-R15- ON300C (XH) 15.0	Leeps yn Con de Con	DC-R30- ON300C (XH) 30.0	Dc.Rad Dc.Rad N300C (XH)
UES DC-R08- N300CC (XH) ± 0.8 ≤ 1.2	ON300C ON300C G98-27U-2 (XH) 10.0 1.0 40.8 ±1.0 5.07 \$0.5 2.0 \$2.3 <1.2	DC-R15- ON300C (XH) 15.0 ±1.0 ≤0.4	 меерх ул меерх ул Сонсание Сонсание Ос-ягоо- оказоос (хн) 20.0 ± 1.2 ≤ 0.3 	DC-R30- 001 001 001 00 000 00000 (XH) 30.0 ±1.5 ≤0.2	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UES DC-R08- N300CC (XH) ± 0.8 ≤ 1.2	ONSION (XH) ONSION (XH) (XH) 638-270-270 1.0.0 10.0 1.0.0 ±0.0 ±1.0.0 ±0.0 ±0.0.0 ±1.0 ≤0.0.0 ±0.0 ±0.0.0 ±1.0 ±0.0.0 ±1.0 ±0.0.0 ±1.0 ±0.0.0 ±1.0 ±0.0.0 ±1.0 ±0.0.0 ±1.0 ±0.0.0.0	DC-R15- ON300C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ ¹⁴⁴ Conx	00 m 00 m	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UUES DC-R08- ON300C (XH) ±0.8 \$1.2	0N300 (0H) (0H) (0H) 698-2700 10.0 13.0 ±0.8 ±1.0 ≤0.7 ±0.5 ≥30 ≥33 ≤1.25 <153 @ 2 x43dBm 300 50 Environment Application Operating Tem	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	L ^{MC} Correct L ^{MC}	DC-830- ON300C (MM) 30.0 ±1.5 ≤0.2 ≥45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UUES DC-R08- ON300C (XH) ±0.8 \$1.2	ON300 (NH) (VH) 698-2700 ±0.8 ±1.0 ±0.8 ±1.0 5.07 ±0.8 5.125 •15.9 ≥ 2 × 438m 300 1000 50 Environme Application Operating Ten	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	Keeps y Y	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UES DC-R08- ON300C (XH) ±0.8 ≤1.2	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ 100 Control	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UES DC-R08- ON300C (XH) ±0.8 ≤1.2	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ 100 Control	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UUES DC-R08- ON300C (XH) ±0.8 \$1.2	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ 100 Control	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UUES DC-R08- ON300C (XH) ±0.8 \$1.2	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ 100 Control	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
UUES DC-R08- ON300C (XH) ±0.8 \$1.2	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC.R15- ON100C (XH) 15.0 ±1.0 ≤0.4 ≥35	■ 100 Control	DC-R30- 0012 CON100 0010 CON100 0010 1 1.5 0.02 ≥ 45 2 45	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2
DC-R08- 000300C (XH) ±0.8 ≤1.2 ≥28	0N3800 (0H) (0H) (0H) 698-2700 10.0 13.0 ≤ 0.8 ± 1.0 ≤ 0.7 ≤ 0.5 ≥ 30 ≥ 33 ≤ 1.25 <-153 @ 2 x 43dBm 300 1000 50 Environmet Replication Operating Ten Environmet Relative Humi	DC-R15- ON300C (XRI) 15.0 ±1.0 ±0.4 ≥ 35	■ 100 Control	DC-R30- 001000000000000000000000000000000000	DC.R40- 0N300C (XH) 40.0 ±1.5 ≤0.2

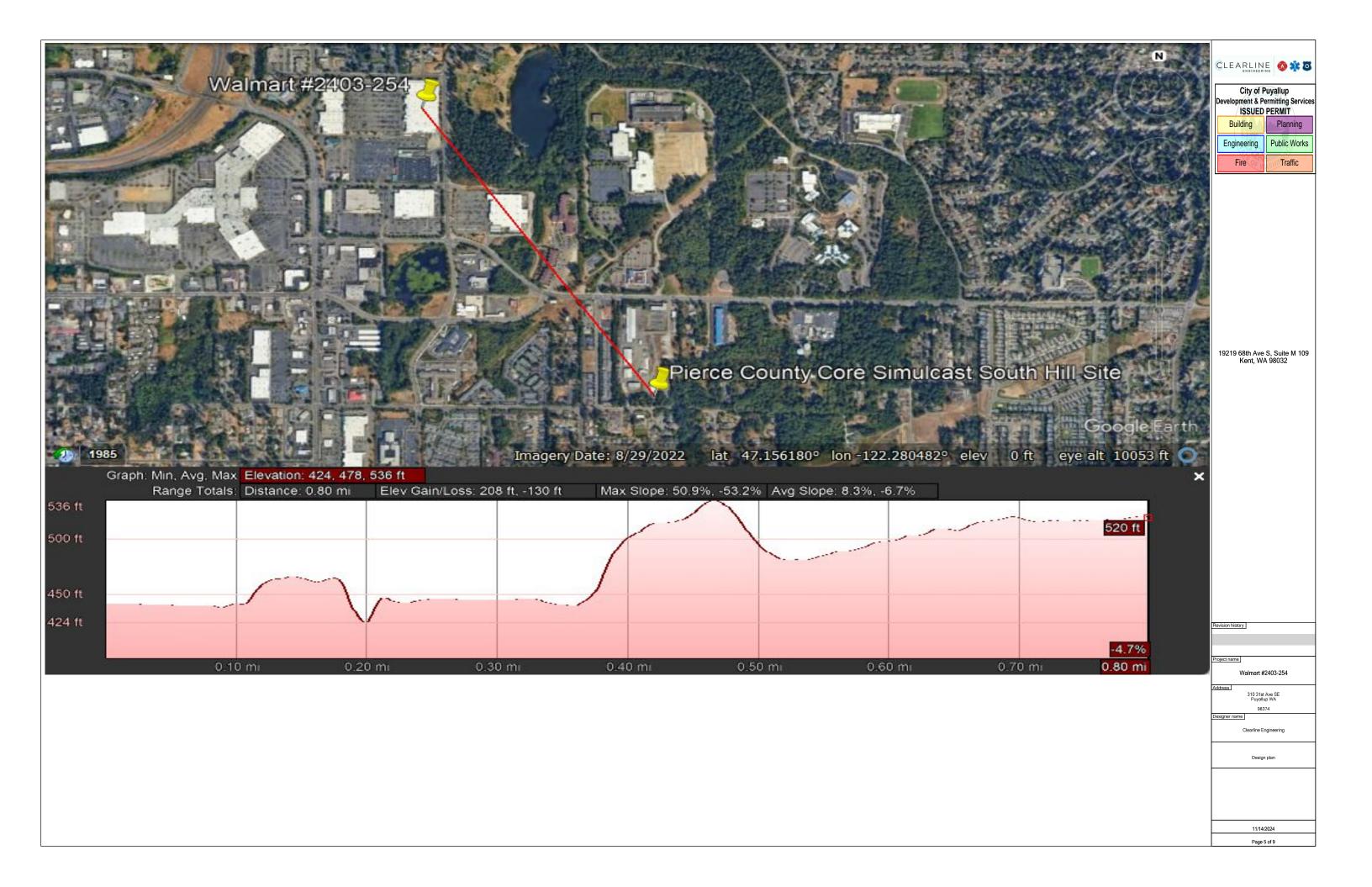


AirCe		Product S	pecific	ation		
50 Ohm Plenum Cable, 1/2	- AP6012J50					
Description Plenum Rated Cable	Product Numb					and the second second
1/2", Corrugated (6 GHz) Jacketed CMP, Conforms to NFPA-282, UL-444, Canadian CSA 22 24-16	AP6012J50		= 2	1150	and the second s	
Physical Dimensions	Second Second					
Center Diameter, In (mm)	0.188 (4.78)				nd Average	
Diameter Over Outer Conductor. In (mm)	0.650 (13.97)		Frequency. MHz	10000000	uation	Average Pow KW
Maximum Drameter Over Jacket, in (mm) Center Conductor	0.63 (16.00) Copper-Cle: Aluminum		100	0B/100 ft	dB/100 m	3.88
Center Conductor	Corporated Aluminum		460	1.50	4.92	3.85
Jacket Color	Off White		500	1.50	5.22	1.75
Electrical Characteristics	Tou write		600	175	574	1 58
Maximum Frequency, GHz	10		700	1.87	\$ 14	1.47
Peak Power Rating, KW	36		800	1.96	5.43	1.37
DC Resistance, Onms/1.000 tt (1,000 m)			900	2.14	7.02	1.28
Center	0.46 (1.51)		960	2.23	7.32	1.24
Outor	0.51 (1.67)		1000	2.30	7.66	1.21
DC Lreekdown, kV	2		1500	2,00	9.35	0.99
Capacitanos, pErti (m)	22 (72.12)		1700	3.05	10.01	0.89
Inductance, militi (m)	0.057 /0.1071		1800	3.14	10.30	0.90
Jacket Spark, KV RMS	8		1960	3.24	13.63	0.85
VSWR mit, (dB)	1.25 (19.0)		2000	3.35	10.98	0.84
VSWR typical, 700-8607 700-2200 M tx (dD)	1.13 (24.3)		2100	3.42	11.22	0.82
Impodance, Ohme	50 ± 2		2200	3.50	11.48	0.90
Velocity of Propagation	94%		2500	3.59	1178	C 78
Mechanical Cheracteristics			2400	3.67	12.04	0.77
Minimum Bend Radius, in (mm) - Single	2 (50.8)		2500	3.75	12.30	0.75
Minimum Bend Redius, in (mm) - Multiple	5 (127)		2700	3.90	12.80	0.72
Cable Weight, Ibth (kg/m)	0.13 (0.20)		3000	4.14	13.58	0.89
Bending Moment, R Ib (N m)	1(1.4)		3300	4 35	14.21	C 81
Tonslie Strength, b (kg)	250 (114)		3400	4.45	14.60	0.60
Flat Plate Crush, Iblin (kg/mm)	78 (1.39)		4000	4.91	15.11	0.55
Number of Bends, minimum	15	T	4900	5.61	15.41	0.59
Recommended Install Temp., "Fif"C)	+5° to 194" (-15° to 90"		5000	5.69	13.67	0.48
Recommended Strage Temp , "F ("C)	15" to 194" (-15" to 90"		5200 5300	5.92	10.42	0.48
Recommended Operating Temp., 'F ('C) Stemteral Conditions	+5" to 194" (-15" to 90"		53CC 56CC	5.03 5.37	10.78	0.47
For Attenuation: VSWR 1.0, Ambient Tempe	out on 2022 1925.3		3600	3,53	23.90	0.45
For Average Fower: VSWR 10, Ambent, empe For Average Fower: VSWR 10, Ambent Tel Conductor Temperature 100°D (212°F), No 0 Regulatory Compliance/Certifications	nperature 40°C (104°F). I	ner	Тт	ilogy A	irCell*	Cable
Ref13 2011/85/EL Compliant 11. 8000 HV - 40 States approval reactives the PS01 They Compliant on the X-optic version Atmos May Doct They Compliant on the X-optic version Atmos Atmos	marks identified by 5 are registered. when the two Network his years	TERVINE P	Eno	ad to be 10	No. Made in	the USA

	R In-Col	ct Specifi	cation		
50 Ohm In-Conduit Cable					
Description Standard Cable	Product Number		-	11111111111	10000
1/2", Corrugated, Black Polyethylene Jacket	AC012J50	-2)		A A A A A A A A A A A A A A A A A A A	
Physical Dimensions					
Center Diameter, in (mm)	0.188 (4.78)	At	enuation a	nd Average	e Power
Diameter Over Outer Conductor, in (mm)	0.550 (13.97)	Frequency,	Atten	uation	Average Pov
Maximum Diameter Over Jacket, in (mm)	0.63 (16.00)	MHz	dB/100 ft	dB/100 m	kW
Center Conductor	Copper-Clad Aluminum	100	0.70	2.30	3.98
Outer Conductor	Corrugated Aluminum	450	1.50	4.92	1.85
Jacket Color	Black	500	1.59	5.22	1.75
Electrical Characteristics		600	1.75	5.74	1.58
Maximum Frequency, GHz	10	700	1.87	6.14	1.47
Peak Power Rating, KW	35	800	1.96	6.43	1.37
DC Resistance, Ohms/1,000 ft (1,000 m)		900	2.14	7.02	1.29
Center	0.46 (1.51)	960	2.23	7.32	1.24
Outer	0.51 (1.67)	1000	2.30	7.55	1.21
DC Breakdown, kV	2	1500	2.85	9.35	0.98
Capacitance, pF/ft (m)	22 (72.12)	1700	3.05	10.01	0.98
Inductance, mH/ft (m) Jacket Spark, kV RMS	0.057 (0.187)	1800	3.14	10.30	0.93
Jacket Spark, kV RMS VSWR min. (dB)	8 1.25 (19.0)	2000	3.24	10.63	0.85
VSWR typical, 700-960 / 1700-2200 MHz (dB)	1.13 (24.3)	2100	3.42	10.93	0.82
Impedance, Ohms	50 ± 2	2200	3.50	11.48	0.82
Velocity of Propagation	94%	2300	3.59	11.78	0.78
Mechanical Characteristics		2400	3.67	12.04	0.77
Minimum Bend Radius, in (mm) - Single	2 (50.8)	2500	3.75	12.30	0.75
Minimum Bend Radius, in (mm) - Multiple	5 (127)	2700	3.90	12.80	0.72
Cable Weight, Ib/ft (kg/m)	0.11 (0.16)	3000	4.14	13.58	0.68
Bending Moment, ft Ib (N m)	1 (1.4)	3300	4.33	14.21	0.61
Tensile Strength, Ib (kg)	250 (114)	3400	4.45	14.60	0.60
Flat Plate Crush, Ib/in (kg/mm)	78 (1.39)	4000	4.91	16.11	0.55
Number of Bends, minimum	15	4900	5.61	18.41	0.50
Recommended Install Temp., °F (°C)	-10° to 170° (-23° to 77°)	5000 5200	5.69 5.92	18.67 19.42	0.49
Recommended Storage Temp., *F (*C) Recommended Operating Temp., *F (*C)	-40° to 170° (-40° to 77°) -40° to 170° (-40° to 77°)	5200	6.03	19.42	0.48
Standard Conditions	-40 10 170 (40 10 17)	5600	6.37	20.90	0.47
For Attenuation: VSWR 1.0, Ambient Temp	erature 20°C (68°E)	5825	6.83	20.50	0.40
For Average Power: VSWR 1.0, Ambient Temp For Average Power: VSWR 1.0, Ambient T Conductor Temperature 100°C (212°F), No Regulatory Compliance/Certifications	emperature 40°C (104°F), Inner	Т	ilogy A	irCell®	Cable
RoHS 2011/65/EU Compliant		Pro	id to be 10	0% Made in	a the USA
TL 9000 H-V - AI Cables designed and manufacture	d under this quality management system		_	-	
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Revision history] Project name] Walmart #2403-254 Address J 310 31st Ave SE Puyatup WA 98374 Designer name] Clearline Engineering Design plan	Development & Pe ISSUED Building Engineering	ermitting Services PERMIT Planning Public Works
Revision history] Project name] Walmart #2403-254 Address J 310 31st Ave SE Puyatup WA 98374 Designer name] Clearline Engineering Design plan		
Project name Walmart #2403-254 Address] 310 31st Ave SE Puyallup WA 98374 Designer name] Clearline Engineering Design plan 11/14/2024	19219 68th Ave Kent, W/	S, Suite M 109 A 98032
Project name Walmart #2403-254 Address] 310 31st Ave SE Puyallup WA 98374 Designer name] Clearline Engineering Design plan 11/14/2024		
Project name Walmart #2403-254 Address] 310 31st Ave SE Puyallup WA 98374 Designer name] Clearline Engineering Design plan 11/14/2024		
Walmart #2403-254 Address 310 31st Ave SE Puyaltup WA 98374 Designer name Clearline Engineering Design plan 11/14/2024	Revision history	
Walmart #2403-254 Address 310 31st Ave SE Puyaltup WA 98374 Designer name Clearline Engineering Design plan 11/14/2024		
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Page 4 of 9		
	Page -	4 of 9



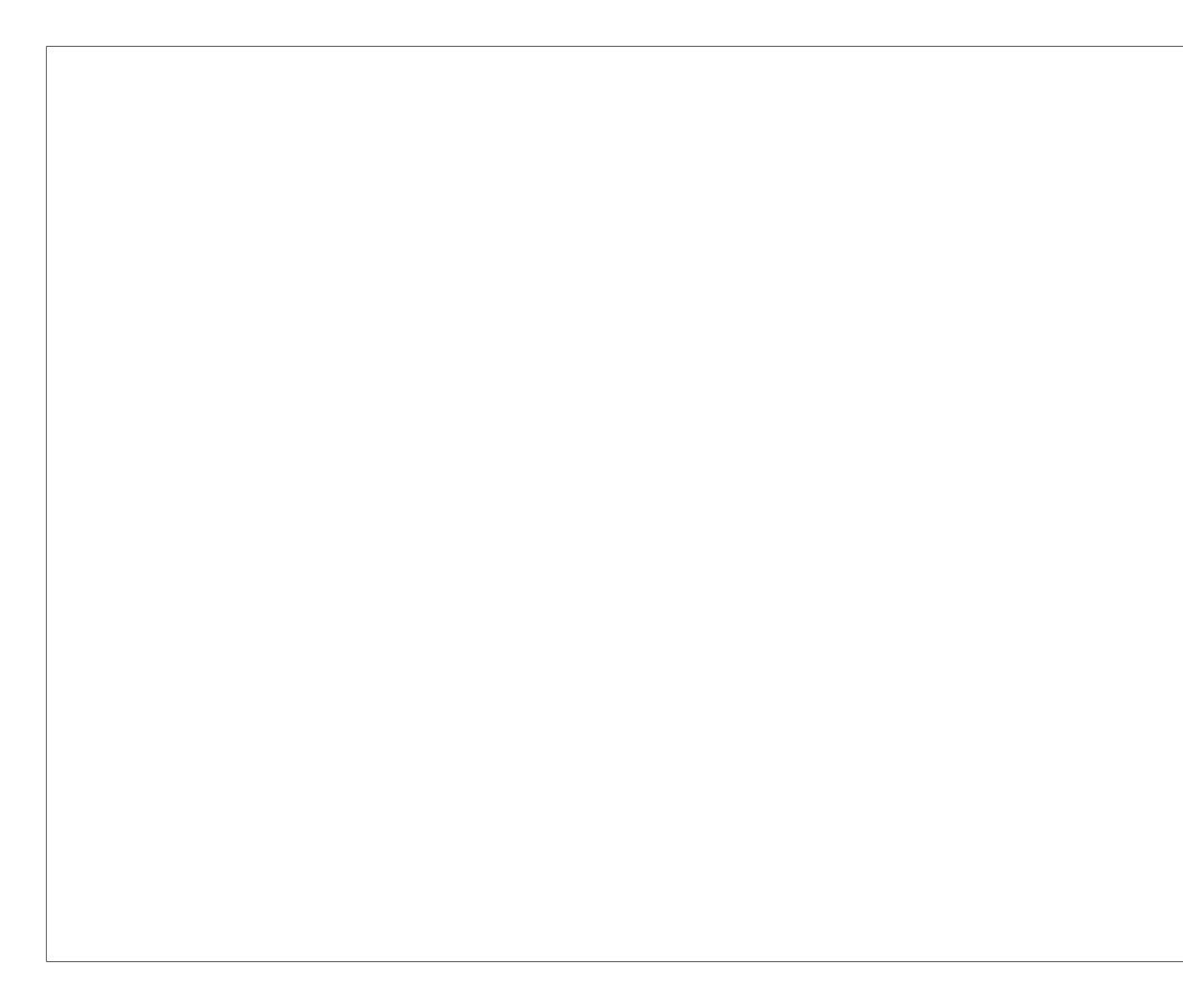
Puyallup Dono Azimuth Galculation

Walmart #2403-254 Image © 2024 Airbus

Imagery Date: 8/29/2022 lat 47.187812° lon -122.273408° elev 0 ft eye alt 10.35 mi







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City of P Development & Pe	ermitting Services
ISSUED	PERMIT
Building	Planning
Engineering	Public Works
Fire	Traffic
19219 68th Ave Kent, WA	S, Suite M 109 98032
Revision history	
Project name	
Walmart #2	2403-254
Address 310 31st /	Ave SE
310 31st / Puyalluj 9837	
Designer name	
Clearline En	gineering
Design	plan
11/14/2	2024
Page 7	of 9

