

ARCHITECT

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Phone Number: 480.448.2000 480.264.0163 Fax Number: Contact: CHRIS MYERS

OWNER INFO

Company: CROWN CASTLE Address: 1505 WESTLAKE AVE. N., #800 SEATTLE, WA 98109 Phone Number: 253.302.9678 Fax Number: Contact: CHRIS KOCH

PROJECT TEAM

JURISDICTION: MERCER ISLAND PUBLIC WORKS DEPT

9601 SE 36TH STREET MERCER ISLAND, WA 98040 PH: 206.275.7608

HANDICAPPED REQUIREMENTS: -FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

-HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED.

THIS PROJECT WILL CONSIST OF ADDING NEW POLE-TOP ANTENNA SHROUD, CONTAINING (1) 4G CANISTER ANTENNA TO NEW REPLACEMENT WOOD UTILITY POLE.

NEW POLE-MOUNTED EQUIPMENT: (1) 4G JMA WIRELESS CYL2Q24GR-1xyz ANTENNA

T1.1-Sheet Index							
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MERCER ISLAND SMALL CELL - 5G UPGRADE 8215 SE 78th ST., MERCER ISLAND, WA 98040 EXISTING PSE WOOD UTILITY POLE VZW MERCER ISLAND HUB LAT: 47.532933, LONG: -122.227306 464893

PROJECT SUMMARY

APPLICANT: CROWN CASTLE 1505 WESTLAKE AVE. N., #800 SEATTLE, WA 98109

CODES:

2018 INTERNATIONAL BUILDING CODE (IBC)

WASHINGTON CITIES ELECTRICAL CODE (WCEC)

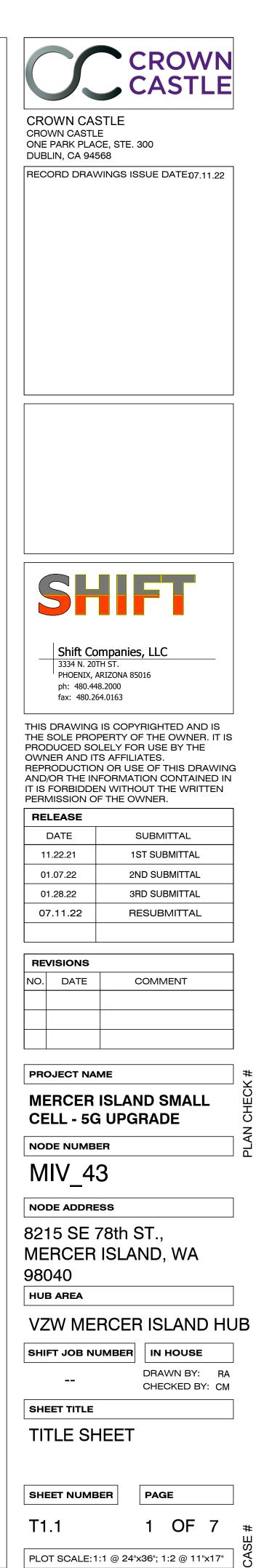
PLUMBING REQUIREMENTS: FACILITY HAS NO PLUMBING

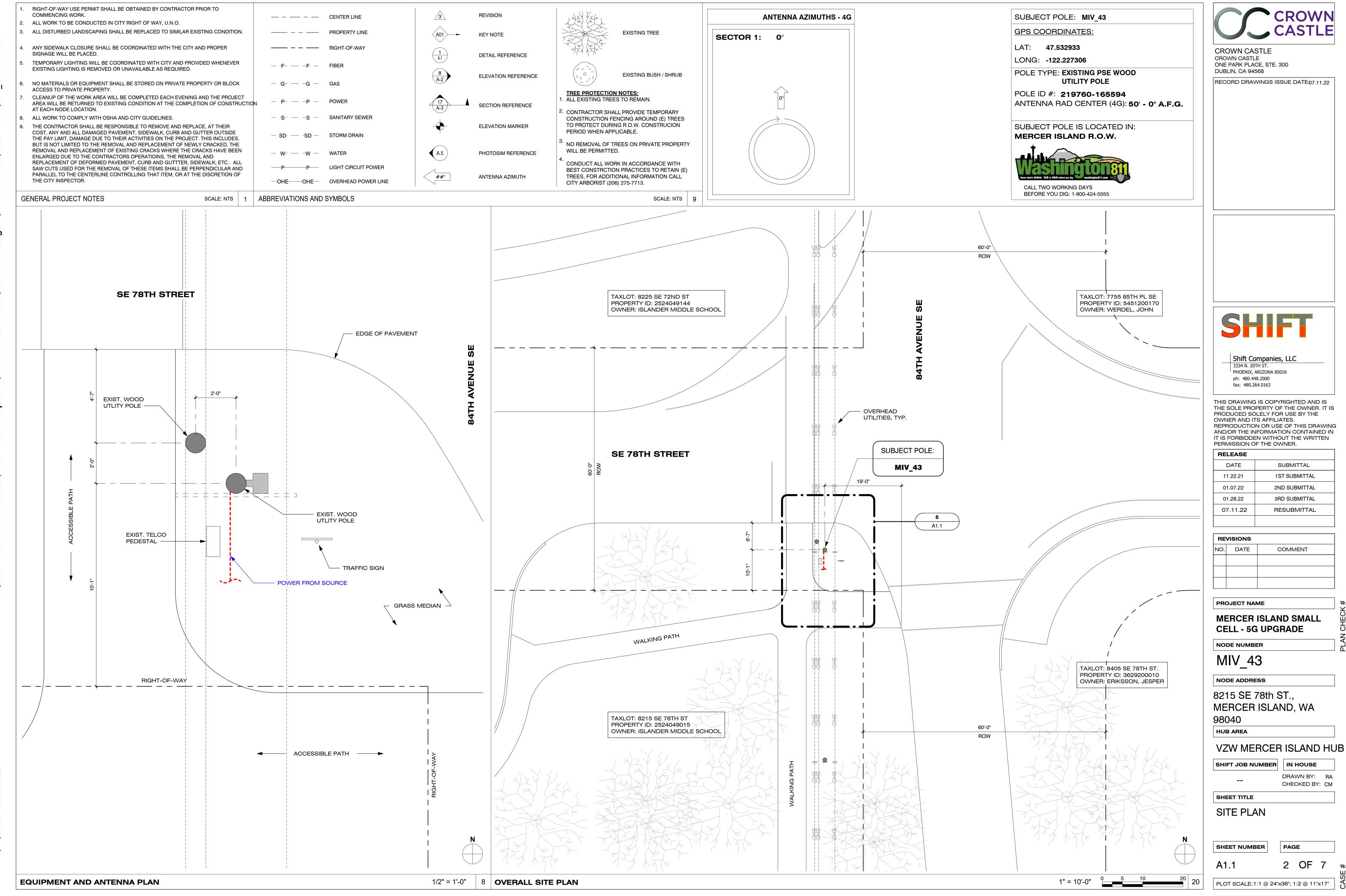
POWER COMPANY: PUGET SOUND ENERGY (PSE)

PROJECT DESCRIPTION

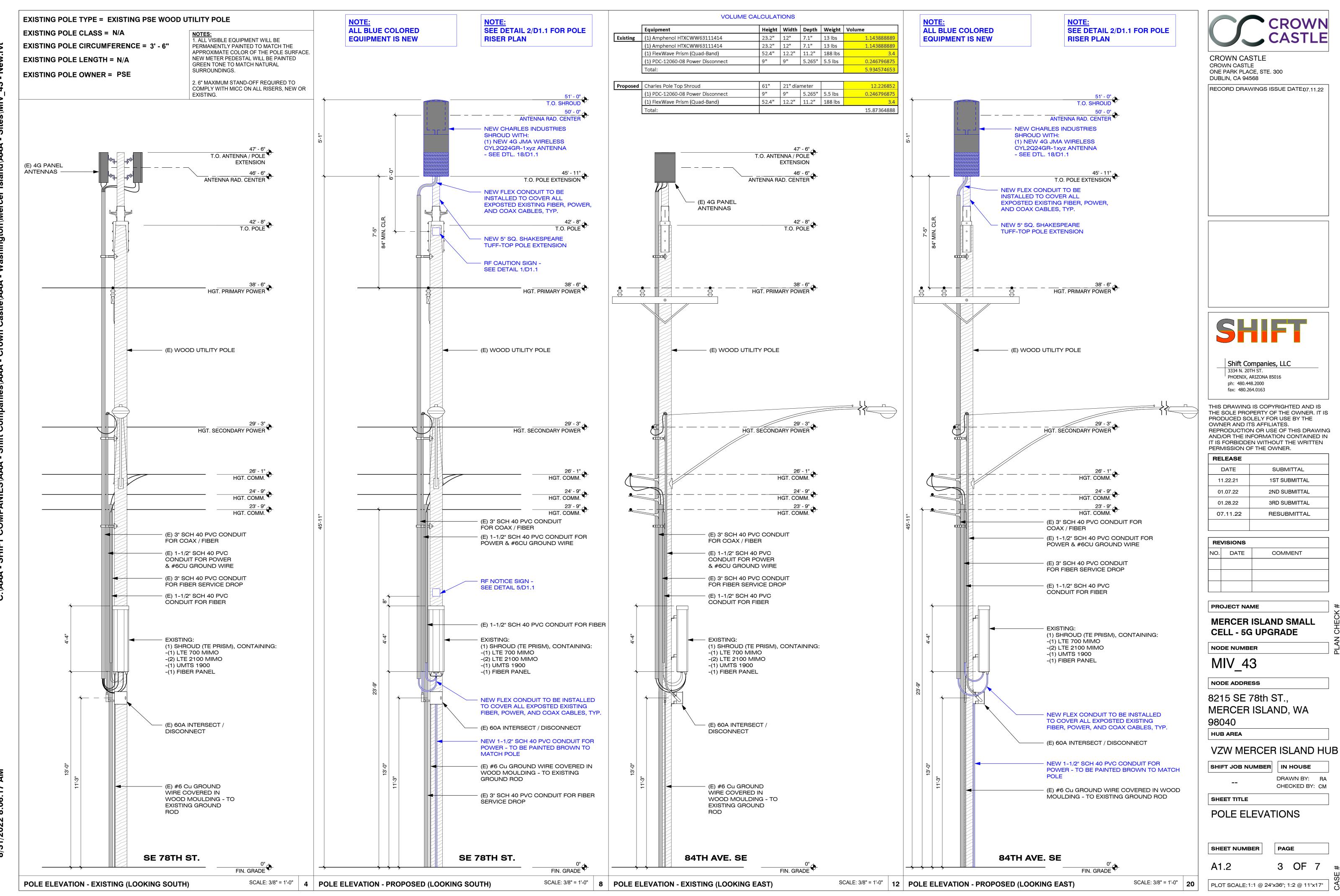








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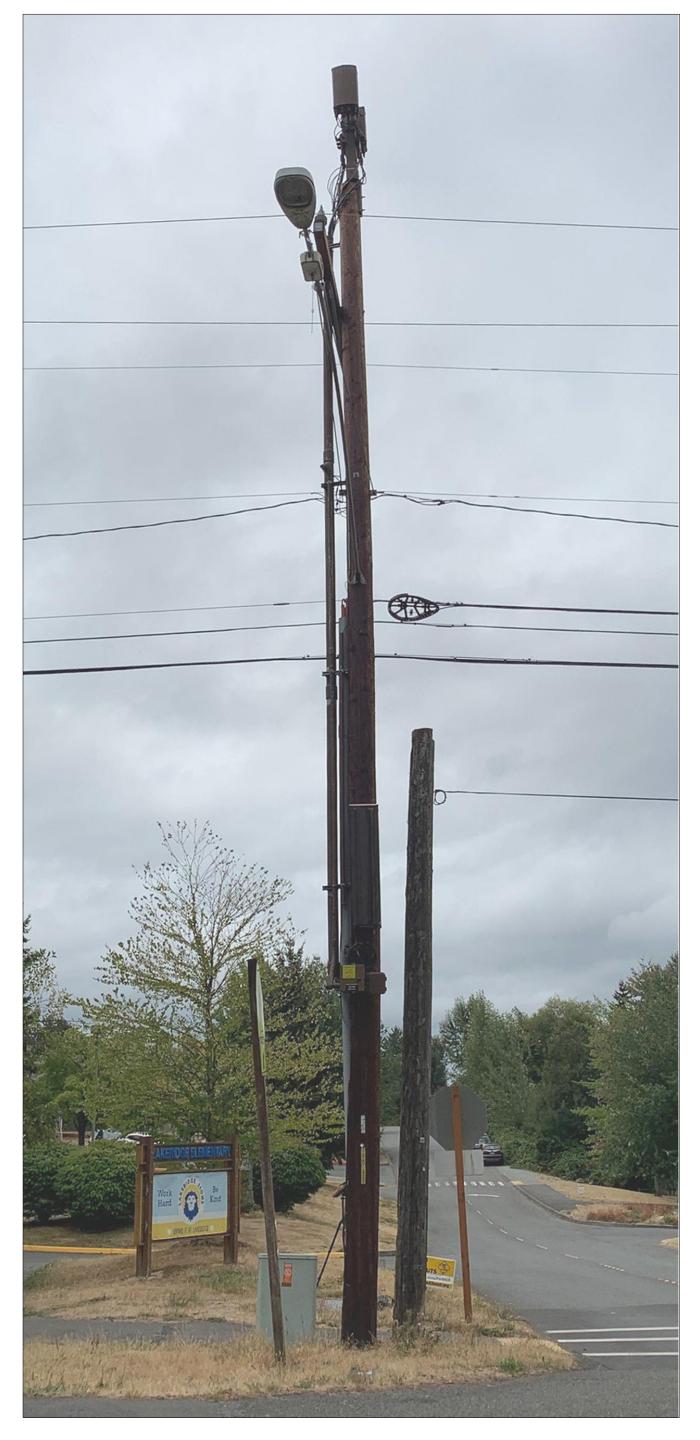


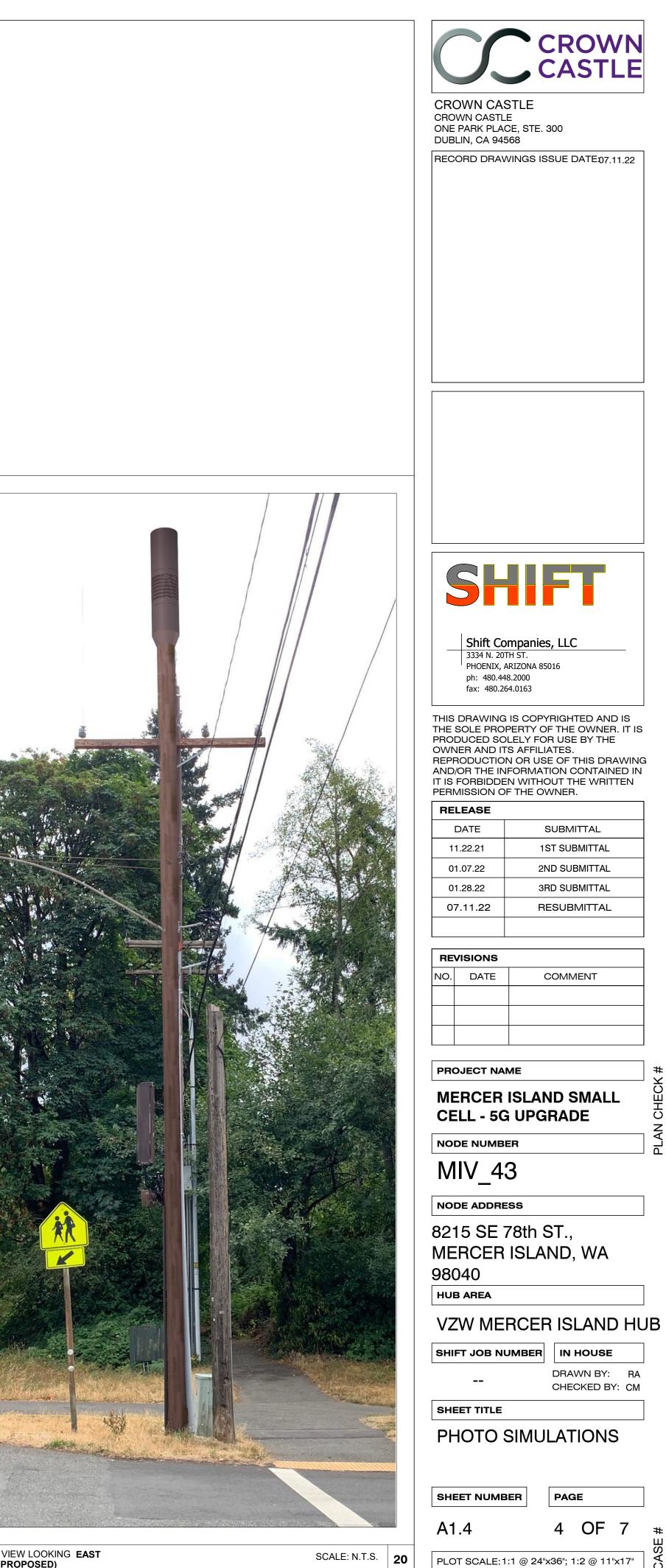


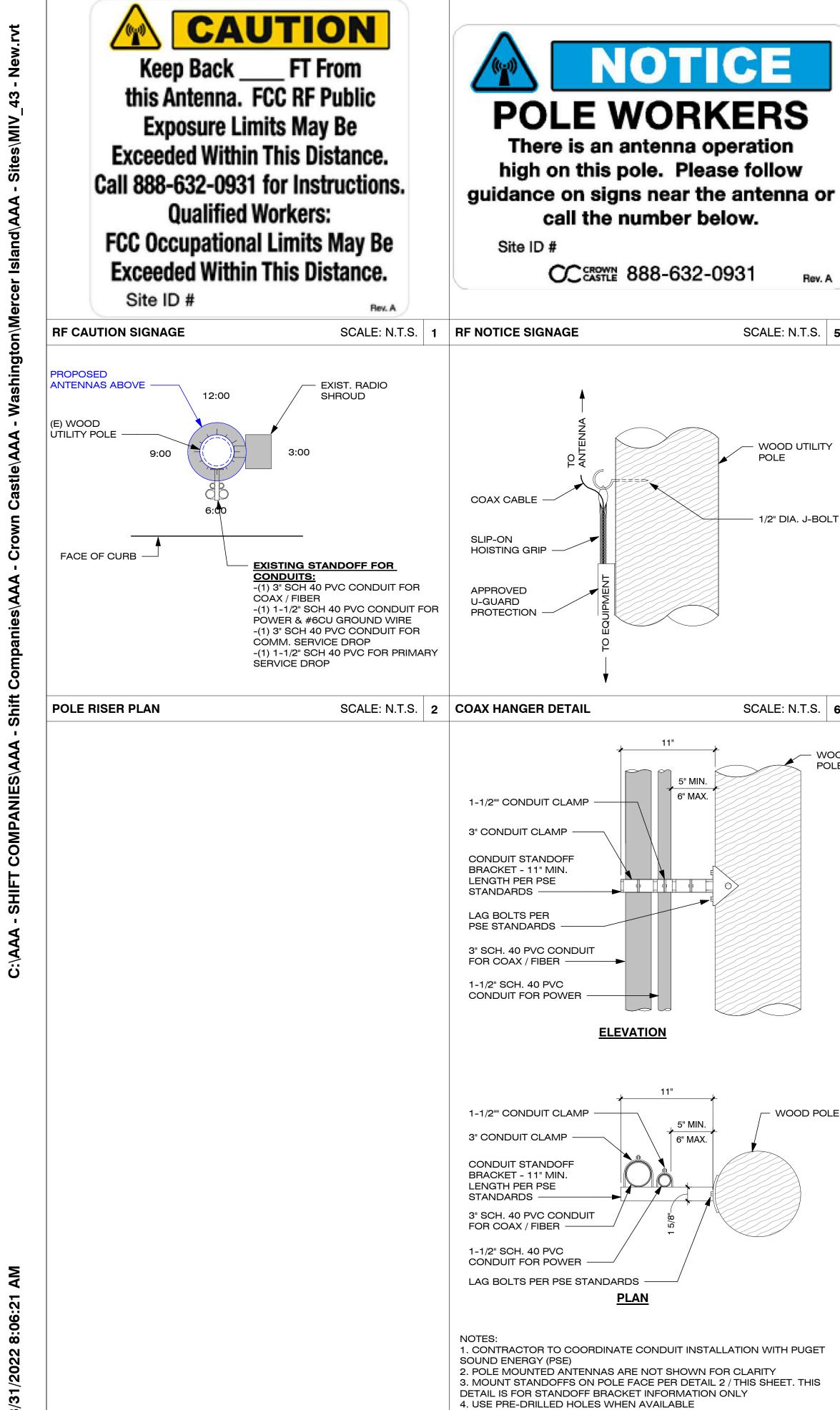
PHOTO SIMULATION - VIEW LOOKING SOUTHWEST ON SE 78TH STREET (EXISTING)

SCALE: N.T.S. 4 PHOTO SIMULATION - VIEW LOOKING SOUTHWEST ON SE 78TH STREET (PROPOSED)

SCALE: N.T.S.PHOTO SIMULATION - VIEW LOOKING EAST
ON SE 78TH STREET (EXISTING)

SCALE: N.T.S. **16** PHOTO SIMULATION - VIEW LOOKING EAST ON SE 78TH STREET (PROPOSED)





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SCALE: 1 1/2" = 1'-0" **8**

5" MIN.

6" MAX.

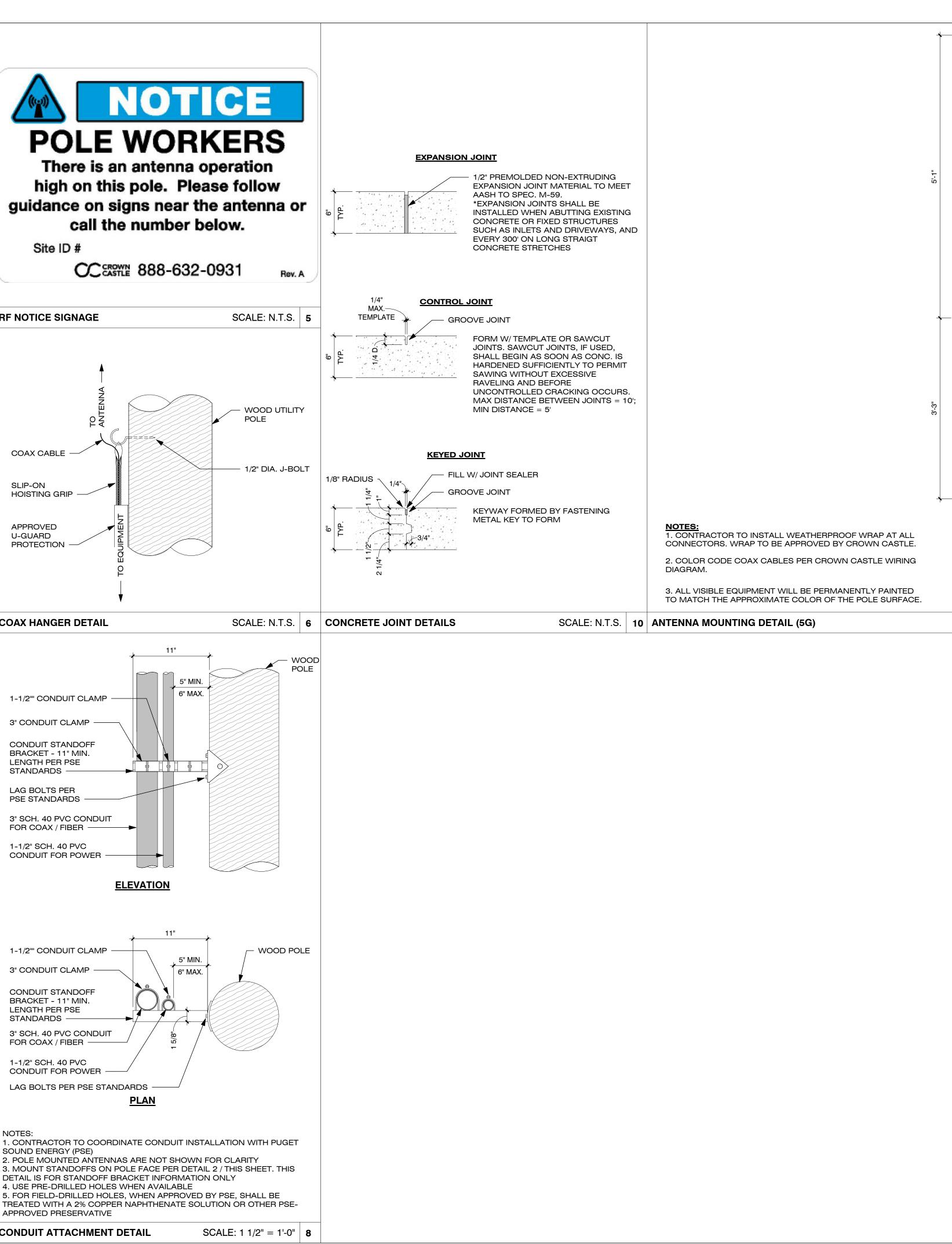
5" MIN.

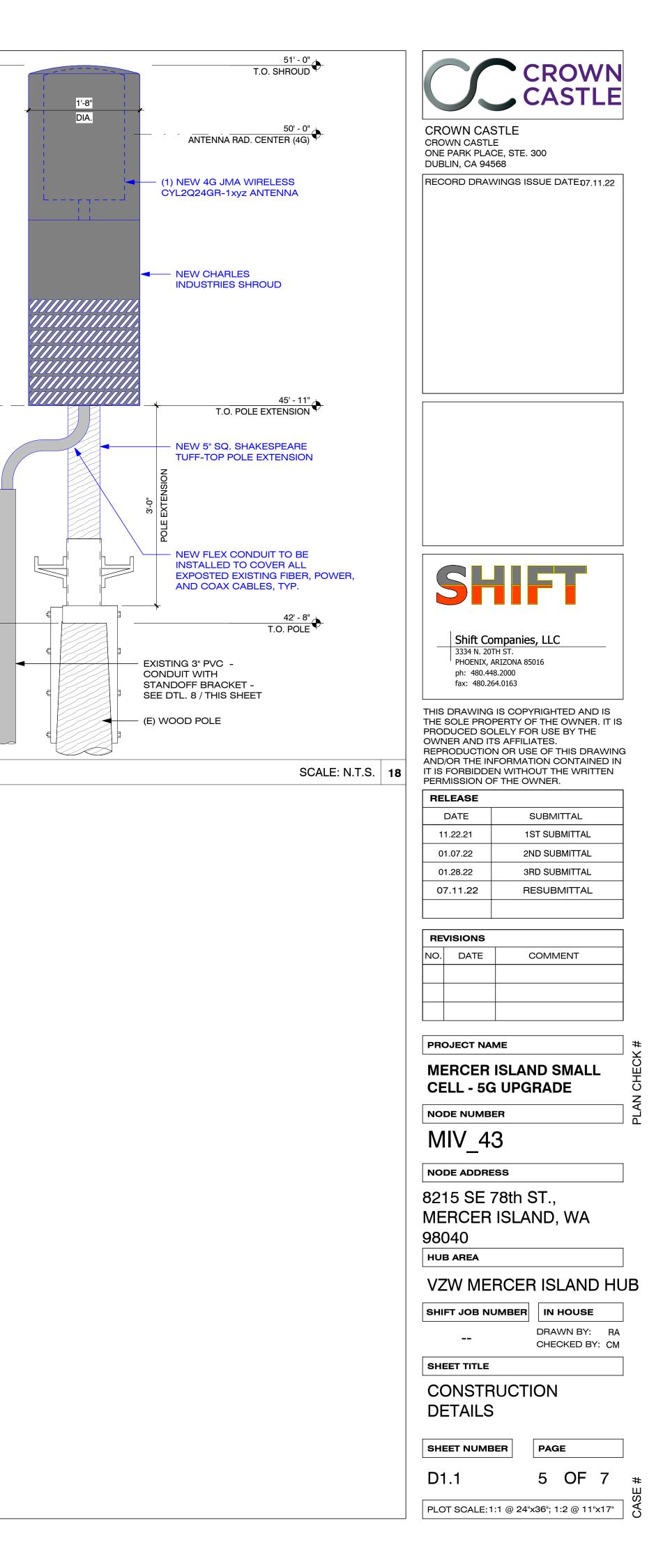
6" MAX.

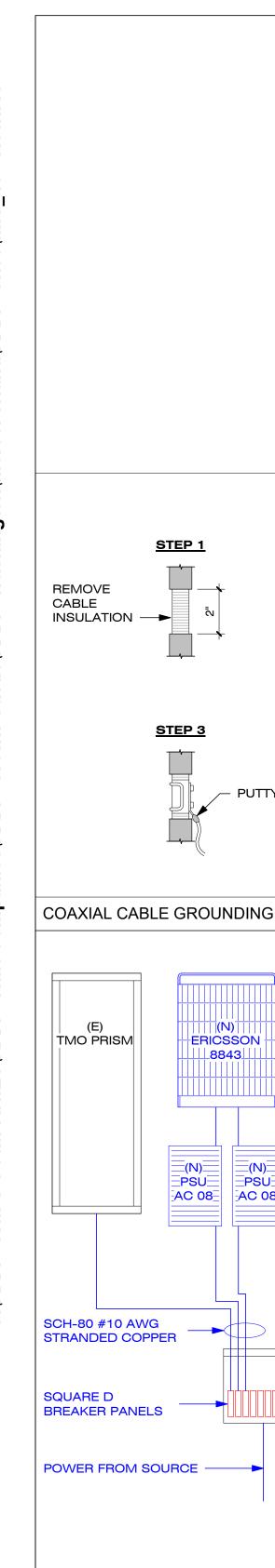
4. USE PRE-DRILLED HOLES WHEN AVAILABLE

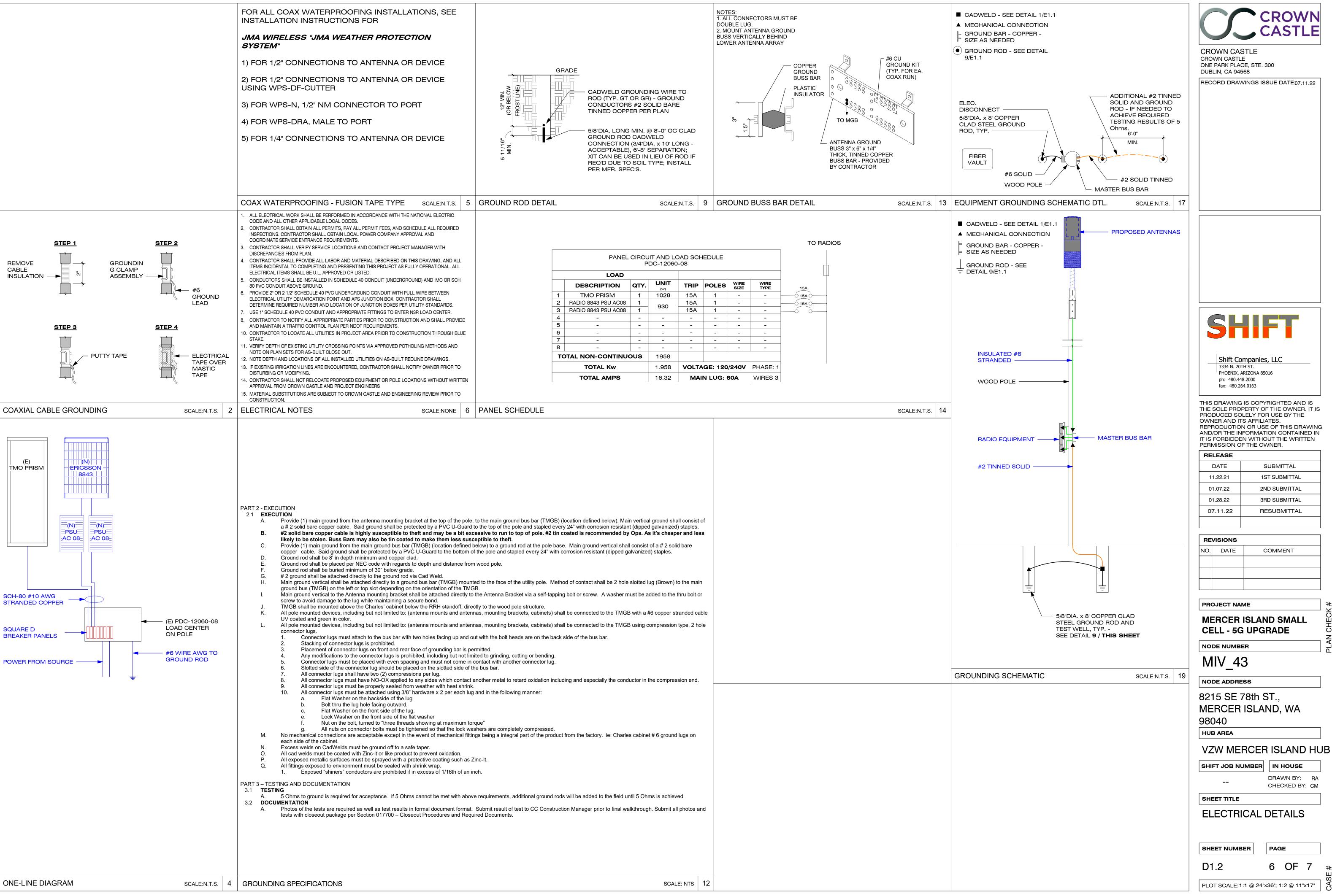
APPROVED PRESERVATIVE

CONDUIT ATTACHMENT DETAIL

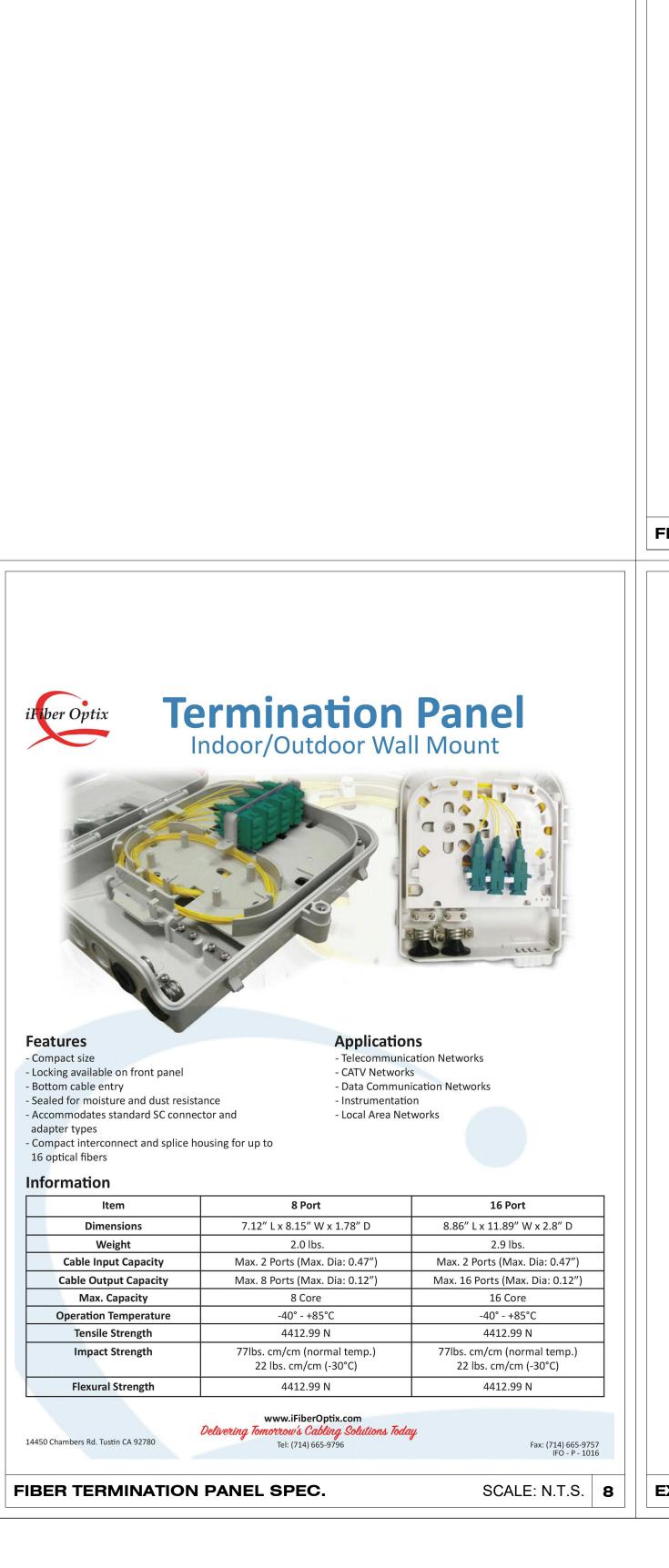








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Fronthaul Technical specification for From SERVICES PER PORT (Up 18 client ports are supported) CPRI Option 1 (6 CPRI Option 2 (1 CPRI Option 3 (2 CPRI Option 4 (3 CPRI service types: CPRI Option 5 (4 CPRI Option 6 (6 CPRI Option 7 (9 CPRI Option 8 (1 eCPRI (10,312.5 | eCPRI service types: OBSAI 1x (768.0 OBSAI service types: OBSAI 2x (1,536 OBSAI 4x (3,072 OBSAI 8x (6,14 Ethernet service types: GbE (1,225.0 Mb 10GE (10,312.5 MECHANICAL / ENVIRONMENTAL IP68 WDM Filter: OAD-3-S: Indoor, OAD-9-S: Indoor, OAD-1-C: Indoor, OAD-4-C: Indoor, SPL-2-S-2: Indoo SPL-2-S-4: Indoor BMD-8-S: Indoor, System components*: GCF-1: Indoor/0 234x184x69 mm Dimension (H x W x D): 1.2. Kg Weight: Operating temperature -40°C to + 65°C STANDARDS AND SPECIFICATIONS EN 300 019-2-1 EN 300 019-2-2

FRONTHAUL SPEC.

Environmental (ENV):

International Protection



FlexWave Prism Flexible Outdoor Wireless Coverage and



EXISTING EQUIPMENT SHROUD SPEC.

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		Small Ce Supports Excellent Center-m Future-pi	er antenna 69 0, 12 ports 10 Il Omni antenn multi-carrier o cross-polar di pounted lift ring roof design to	98-4200 MHz: 695-2690 MHz, ha with integrate deployments wit iscrimination for g for easy install	d GPS unit h 4x4 MIMO enhanced M ations 00 MHz for 0	s 3400-4200 MHz capability with all bands IIMO performance C-Band spectrum		WAV	
ul 6587		Frequency bands, MHz	GPS band 1575.42	Low band (2x) 696-960		Mid band (6x) 1695-2700	CBRS/C-band (4x) 3400-4200		
		Array Connector		R1 R2	<mark>Y1 </mark> Y2	2 Y3 Y4 Y5 Y6	P1 P2 P3	■ P4	
r Fronthaul 6587		Polarization Horizontal beam-	RH CIR.	XPOL		XPOL	XPOL		
orted) : Option 1 (614.4 Mbit/s) : Option 2 (1,228.8 Mbit/s)		width (HBW), degrees ¹		360		360	360		
I Option 3 (2,457.6 Mbit/s) I Option 4 (3,072.0 Mbit/s) I Option 5 (4,915.2 Mbit/s) I Option 6 (6,144.0 Mbit/s)		Electrical downtilt (EDT), degrees ¹ Configuration		0		2, 4, 6 Intenna with integrated GPS unit	0		Prod
Option 7 (9,830.4 Mbit/s) Option 8 (10,137.6 Mbit/s) RI (10,312.5 Mbit/s)		Connector type			5 (F. P. 2017) (F. P. 1998)	emale and (1x) N-type female for			PDC-
N 1x (768.0 Mbit/s) N 2x (1,536.0 Mbit/s)		Dimensions, in. (mm) Radome color		Grav (P		24.0/ 14.6 (609.6/ 370.8) Brown (Pantone 476C), or Black	* (RAL 9011)		Gen Suitab Enclos
AI 4x (3,072.0 Mbit/s) AI 8x (6,144.0 Mbit/s) (1,225.0 Mbit/s) E (10.312 5 Mbit/s)		Maximum compos power, watts (all	site	Gray (P	antone 420C),	1000			9" †1(Weigh
E (10,312.5 Mbit/s) 3 WDM Filter: IP68 Passive enclosure for up to 4xLGX optical filters		ports)				oursessed A			Ăp UL Ce — I
-3-S: Indoor/Outdoor 6-ch x 100 GHz OAD SFW Unit - Variant A to H I-9-S: Indoor/Outdoor 16-ch x 100 GHz OAD SFW Unit - Variants LB and HB I-9-C: Indoor/Outdoor 2-ch x 100 GHz CWDM SFW OAD Unit - Variant 1 to 4 I-4-C: Indoor/Outdoor 8-ch x 100 GHz CWDM SFW OAD Unit		Mechanical specific Dimensions height		es (mm)		24.0/ 14.6 (609.6/ 370.8)			-I Elec
-2-S-2: Indoor/Outdoor 2x2 Optical Power Splitter/Coupler Unit -2-S-4: Indoor/Outdoor 2x4 Optical Power Splitter/Coupler Unit D-8-S: Indoor/Outdoor 8-band SFW Mux/DeMux Unit		Antenna volume (o No. of RF input por		/pe, and location		2.32 24 x 4.3-10 RF, 1 x N-type GP	S female, bottom		
-1: Indoor/Outdoor G-PON Coexistence Optical Filter Unit x184x69 mm Kg		RF connector torq	ue			96 lbf in (10.85 N m or 8 lbf ft)	10		-
°C to + 65°C		Net antenna weigh Rated wind surviva		km/h)		36 (16.32) 150 (241)			
300 019-2-1 300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 8 SCA	-E: N.T.S. 10	Frontal wind loadin Equivalent flat plat	e @ 100 mph a	nd Cd=2, sq ft		30 (133) 1.17/0.69	SCALE: N.	T.S. 14	DISC
300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 8	-E: N.T.S. 10	Equivalent flat plat	e @ 100 mph a	nd Cd=2, sq ft			SCALE: N.	T.S. 14	DISC
300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 8		Equivalent flat plat	e @ 100 mph a	nd Cd=2, sq ft			SCALE: N.	T.S. 14	DISC
300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 8 SCAI		Equivalent flat plat	e @ 100 mph a	nd Cd=2, sq ft			SCALE: N.	T.S. 14	DISC
500 019-2-2 500 019-2-4 IEC 60950-1 (applicable parts) 3 SCAI	Remote Unit Enviro	Equivalent flat plat	e @ 100 mph a SPEC. (4	nd Cd=2, sq ft			SCALE: N.	T.S. 14	DISC
500 019-2-2 500 019-2-4 IEC 60950-1 (applicable parts) SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatu	Equivalent flat plat	e @ 100 mph a SPEC. (4 -40° C to + -40° C to +	4G) 50° C (-40° F to 70° C (-40° F to	0 +122° F) 0 +158° F)		SCALE: N.	T.S. 14	DISC
500 019-2-2 500 019-2-4 IEC 60950-1 (applicable parts) SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatu Humidity:	Equivalent flat plat	e @ 100 mph at SPEC. (4 -40° C to + -40° C to + 10% to 909	nd Cd=2, sq ft 4G) 50° C (-40° F to	0 +122° F) 0 +158° F) ng		SCALE: N.	T.S. 14	DISC
300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 3 SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatu	Equivalent flat plat	e @ 100 mph at SPEC. (4 -40° C to + -40° C to + 10% to 909	nd Cd=2, sq ft 4G) 50° C (-40° F to 70° C (-40° F to 6 non-condensi	0 +122° F) 0 +158° F) ng		SCALE: N.	T.S. 14	
500 019-2-2 500 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 3 SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatur Humidity: Lightning Protectio Remote Unit Enclosure:	Equivalent flat plat	e @ 100 mph at SPEC. (4 -40° C to + -40° C to + 10% to 909 20kA IEC 1 IP-65, (Fan	nd Cd=2, sq ft 4G) 50° C (-40° F to 70° C (-40° F to 6 non-condensii 000-45 8/30 µs IP-55)	0 +122° F) 0 +158° F) ng s Waveform		SCALE: N.	T.S. 14	DISC RAI 4TX 4
500 019-2-2 500 019-2-4 IEC 60950-1 (applicable parts) 3 SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatur Humidity: Lightning Protectio Remote Unit Enclosure: Mounting:	Equivalent flat plat	e @ 100 mph at SPEC. (4 -40° C to + -40° C to + 10% to 909 20kA IEC 1 IP-65, (Fan Wall, Pole, I	4G) 50° C (-40° F to 70° C (-40° F to 6 non-condensi 000-45 8/30 µs IP-55) nside Pole, and	0 +122° F) 0 +158° F) ng s Waveform		SCALE: N.	T.S. 14	RAI 4TX 4 > 8 anter > Up to 3
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00 019-2-2 00 019-2-4 EC 60055-1 (applicable parts) SCA PE®	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatur Humidity: Lightning Protectio Remote Unit Enclosure: Mounting: Cooling: Optical Connectors Dimensions: Dimensions: Quad-Band Host Unit Mounting: Dimensions (H x W Weight:	re: n: x Dim (H x 52.4" 133.10 cm 30	e @ 100 mph at SPEC. (4 -40° C to + -40° C to + 10% to 909 20kA IEC 1 IP-65, (Fan Wall, Pole, I Fan (externa Sealed HMI ensions W x D) 12.2").99 cm 19-inch rack	4G) 5 0° C (-40° F to 50° C (-40° F to 70° C (-40° F to 6 non-condensii 000-45 8/30 µ: IP-55) nside Pole, and al only) FOC (Multi-fi be 11.2" 28.45 cm	0 +122° F) 0 +158° F) ng s Waveform Vault er connector Weight (Chassis Or 116 lbs. 53 kg	1.17/0.69 - 8 fi bers) or pass-through Weight Ny) Weight 188 lbs.	es) Volume 3.40 cubic fi		RAC 4TX 2 > 8 anter > Up to 3 > Exa > Carrier > Up > 2x 10G > Size an Radio 8843 wo protrudin w protruding > -48 VD > 2x26A
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000019-2-2 100019-2-4 IEC 60950-1 (applicable parts) SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatur Humidity: Lightning Protectio Remote Unit Enclosure: Mounting: Cooling: Optical Connectors Dimensions: Dimensions: Quad-Band Host Unit Mounting: Dimensions (H x W Weight: Remote Unit Power Power Supply: Battery Backup: Host Unit Power Re	equivalent flat plat annental Specifications re: re: re: ra: s: Dim (H x 52.4" 133.10 cm 30 x D): Requirements	e @ 100 mph ai SPEC. (4 -40° C to + -40° C to + 10% to 909 20kA IEC 10 IP-65, (Fan Wall, Pole, I Fan (externa Sealed HMI ensions W x D) 12.2" 0.99 cm 19-inch rack 5.25" x 19" <25 Pounds 100-240 VA 48 VDC (OF Yes (optiona	AG) 4G) 50° C (-40° F to 70° C (-40° F to 70° C (-40° F to 6 non-condensi 000-45 8/30 µs IP-55) nside Pole, and al only) FOC (Multi-fi be 11.2" 28.45 cm (x 8.43" (13.34 o (28.45 cm	0 +122° F) 0 +158° F) ng s Waveform Vault er connector Weight (Chassis Or 116 lbs. 53 kg	1.17/0.69 - 8 fi bers) or pass-through	es) Volume 3.40 cubic fi		RAC 4TX 3 8 anter 3 Up to 3 3 Exa 3 Up to 3 3 Exa 3 Up to 3 3 Exa 3 Size an Radio 8843 Wo protrudir W protrudir W protrudir W protrudir W protrudir W protrudir W protrudir S 2x26A 3 AISG T 3 Type 4 3 2 exter
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300 019-2-2 300 019-2-4 IEC 60825-2 IEC 60950-1 (applicable parts) 8 SCAI	Remote Unit Enviro Outside Ambient Temp Rating: Storage Temperatur Humidity: Lightning Protectio Remote Unit Enclosure: Mounting: Cooling: Optical Connectors Dimensions: Dimensions: Dimensions: Uimensions (H x W Weight: Remote Unit Power Power Supply: Battery Backup: Host Unit Power Re Power Source:	equivalent flat plat Equivalent flat plat ANTENNA ANTENNA Commental Specifications re: The second se	e @ 100 mph ai SPEC. (-40° C to + -40° C to + 10% to 909 20kA IEC 1 IP-65, (Fan Wall, Pole, I Fan (externa Sealed HMI ensions W x D) 12.2" 0.99 cm 19-inch rack 5.25" x 19" <25 Pounds 100-240 VA 48 VDC (OF Yes (optiona	AG) 4G) 50° C (-40° F to 70° C (-40° F to 70° C (-40° F to 6 non-condensi 000-45 8/30 µs IP-55) nside Pole, and al only) FOC (Multi-fi be 11.2" 28.45 cm (x 8.43" (13.34 o (28.45 cm	0 +122° F) 0 +158° F) ng s Waveform Vault er connector Weight (Chassis Or 116 lbs. 53 kg	1.17/0.69 - 8 fi bers) or pass-through	es) Volume 3.40 cubic fi		RAC 4TX 3 8 anter 3 Up to 3 3 Exa 3 Up to 3 3 Exa 3 Up to 3 3 Exa 3 Size an Radio 8843 Wo protrudir W protrudir W protrudir W protrudir W protrudir W protrudir W protrudir S 2x26A 3 AISG T 3 Type 4 3 2 exter

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