

**WATERTOWN DOWNTOWN (786369)** WATERTOWN, WISCONSIN **MIDBAND ADDITION DRAWINGS** 155' SELF-SUPPORT TOWER (COLO)

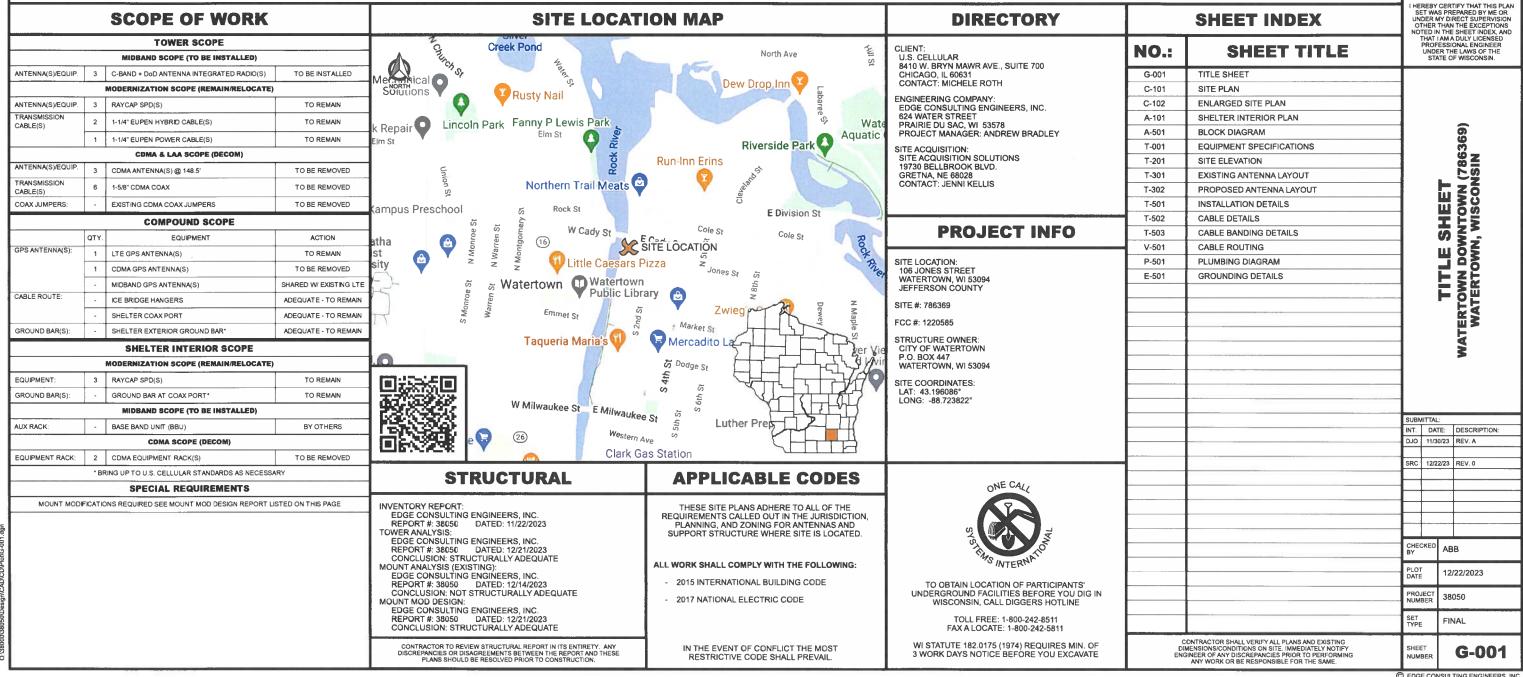
Edge 624 WATER STREET RAIRIE DU SAC, WI 53578 608.644.1449 VOICE 608.644.1549 FAX



U.S. CELLULAR 8410 W. BRYN MAWR AVE SUITE 700 CHICAGO, IL 60631

GINEER SEAL

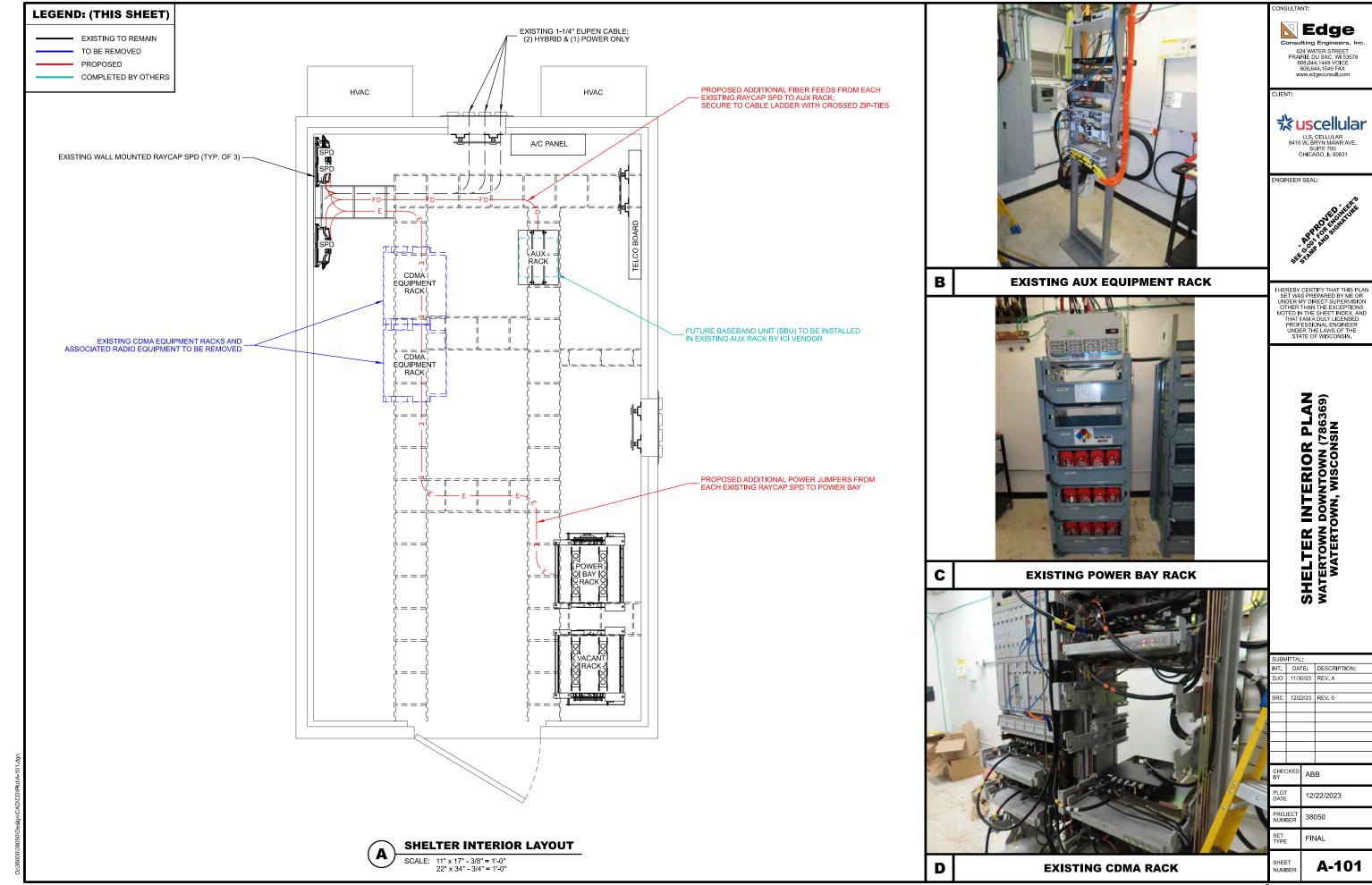


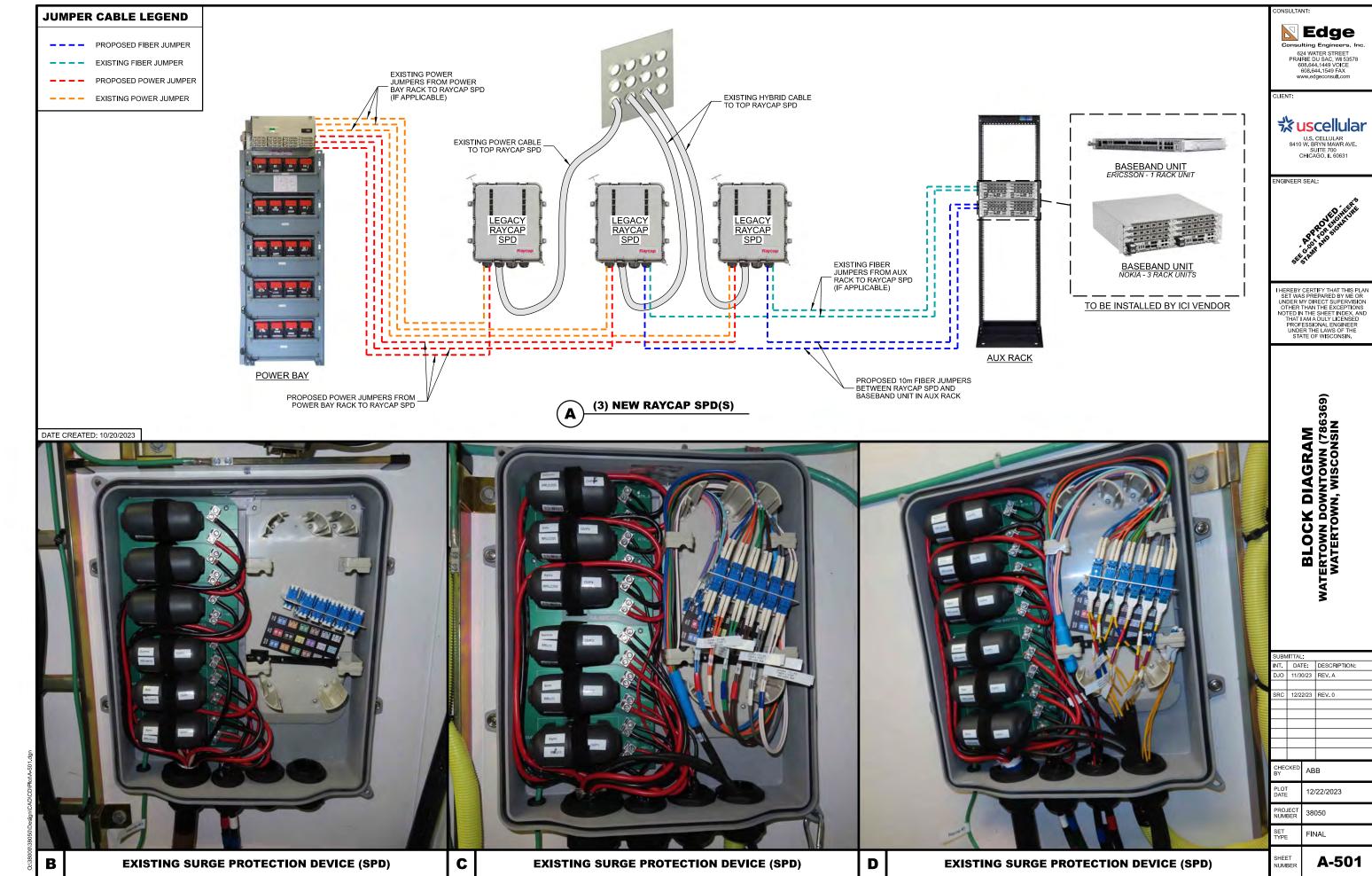




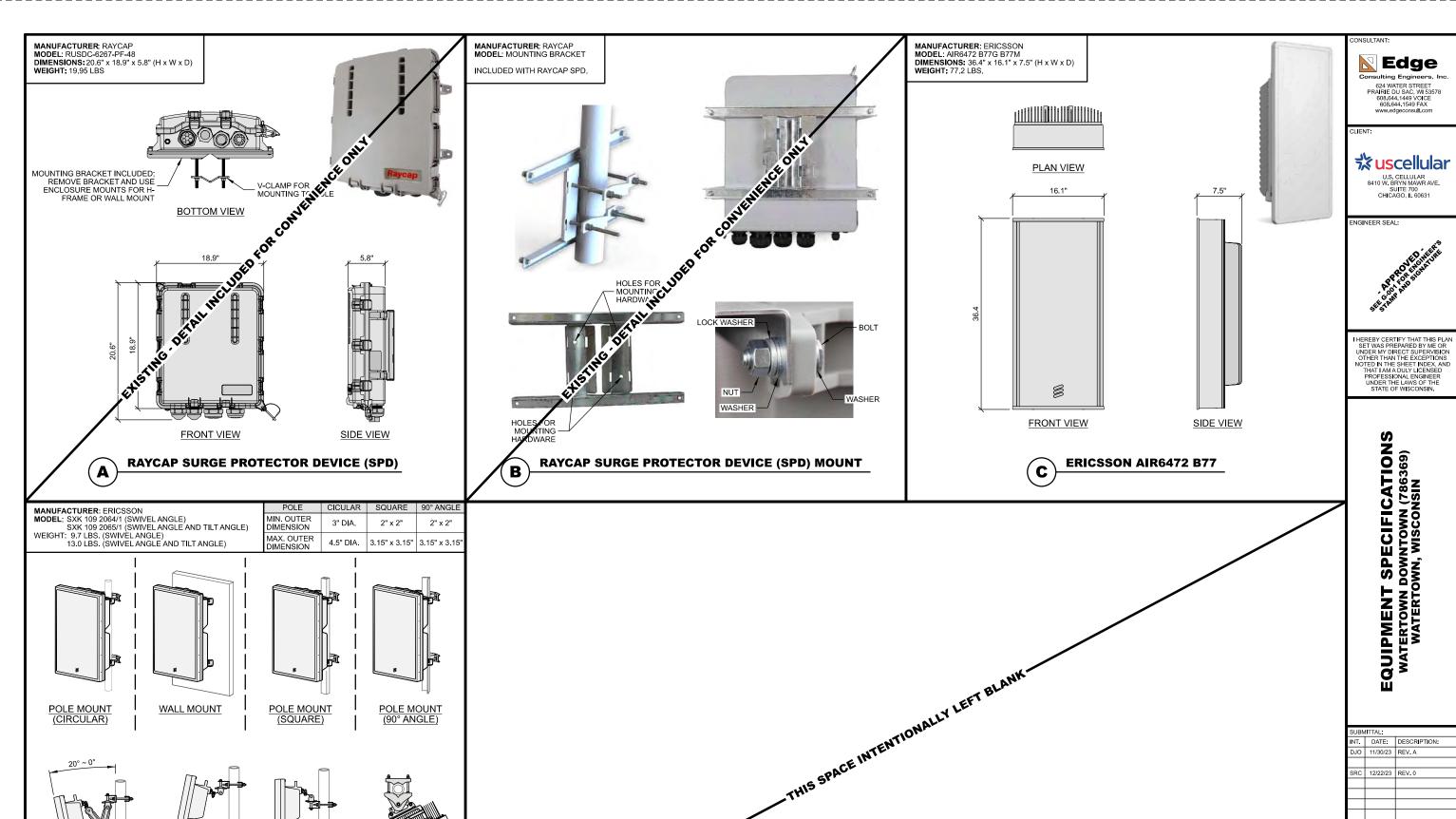
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POLE MOUNT (90° ANGLE)

POLE MOUNT (SQUARE)

**ERICSSON SWIVEL MOUNT KIT** 

POLE MOUNT (CIRCULAR)

WALL MOUNT

 $\mathbf{D}$ 

INT. DATE: DESCRIPTION: DJO 11/30/23 REV. A SRC 12/22/23 REV. 0 CHECKED ABB 12/22/2023 38050

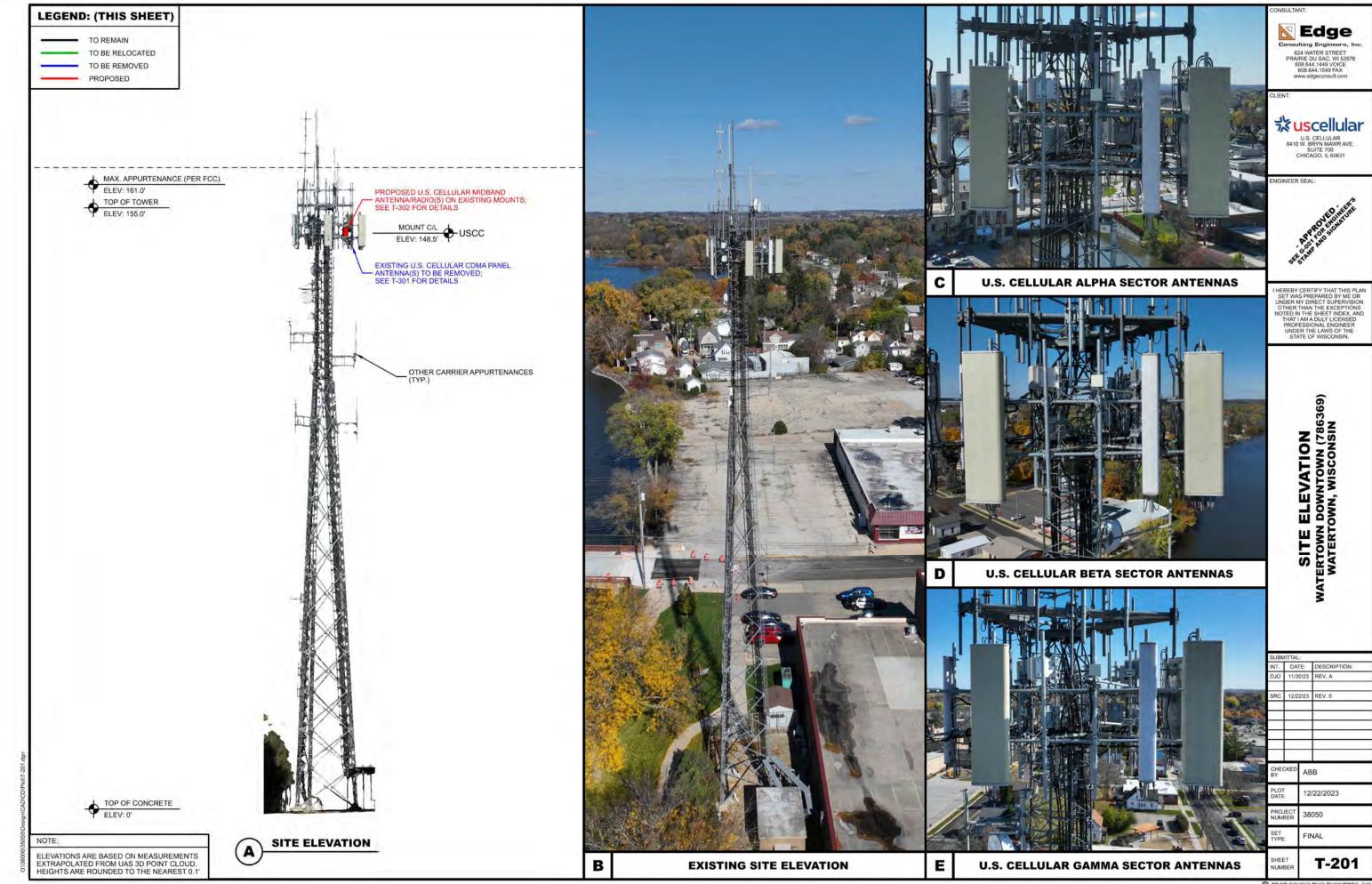
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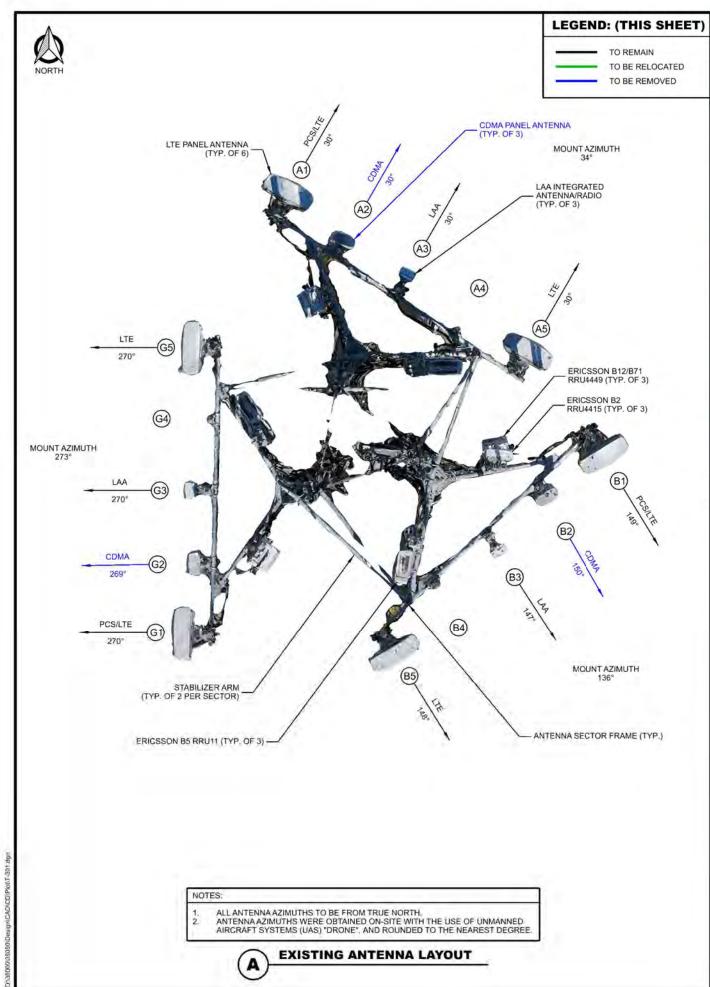
T-001

FINAL

SET TYPE

SHEET







	Antenna Position	Technology	Antenna Model	Antenna Quantity		Azimuth	Surge Protector Qty.	B12/B71 Radio	Radio Qty.	B2/B66 Radio	Radio Qty.	B5 Radio	Radio Qty.	MidBand Radio	Radio Oty.	Cable Type	Cable Qty.
АГЬНА	A1	PCS/LTE	Amphenol TWIN658LU000G-T	d.	148.5	30°	1	RRU4449	1	RRU4415	1	1.6	- 3	· 05.	15	1-1/4" Hybrid	1
	A2	CDMA	KMW AM-X-CW-18-65-00T-RET	1	148.5'	30"	$\sim$		-		$\sim$	13	-	Tree.	1	1-5/8" Coax	2
	A3	LAA	Integrated Antenna/Radio	13.	151.5	30"	Shared	-	~	0.00	3.1	-	- 4-	RRU2205	1	Shared	- April
	A4	4/		1.5		1.47	16-74-94	1.54	" er"		13	11.4	-3-	794	Sed	97.1	141
	A5	LTE	Amphenol TWIN658LU000G-T	1	148.5'	30°	Shared		-		4	RRU11	1	1.5	4	Shared	D.
BETA	B1	PCS/LTE	Amphenol TWIN658LU000G-T	1	148.5'	149°	1	RRU4449	1	RRU4415	1	178	-4-	- 24 J	52	1-1/4" Power	1
	B2	CDMA	KMW AM-X-CW-18-65-00T-RET	1	148.5	150°	140	1,2	-3-		*	-		- Fr	4	1-5/8" Coax	2
	B3	LAA	Integrated Antenna/Radio	4	151.5'	147°	Shared				(4)	17.1	-	RRU2205	1	Shared	(F)
ш	B4	3-1				137	1 -			7.2.7	1			14	201	- 5-	-
	B5	LTE	Amphenol TWIN658LU000G-T	1	148.5	148°	Shared	Mr-	-2		4	RRU11	1	119.11	140	Shared	
	G1	PCS/LTE	Amphenol TWIN658LU000G-T	1	148.5	270°	Shared	RRU4449	1	RRU4415	1	100	-	1931	10.	Shared	1
SAMMA	G2	CDMA	KMW AM-X-CW-18-65-00T-RET	1	148,5'	269°	N.	F.R.	- e.	- 2	~	×	-	140	2	1-5/8" Coax	2
	G3	LAA	Integrated Antenna/Radio	D	151.5'	270°	Shared	1.50	247		-0	L	14.	RRU2205	1	Shared	Ē.
O	11 11 11																

1 148.5' 270°

**EXISTING ANCILLARY EQUIPMENT OVERVIEW** 

Total: Black Text = Remain Green Text = Relocate Blue Text = Remove

LTE

G5

В

C

Amphenol TWN658LU000G-T

**EXISTING ANTENNA & EQUIPMENT LOADING** 

EXISTING ANTENNA LAYOUT WATERTOWN DOWNTOWN (786369) WATERTOWN, WISCONSIN

INT. DATE DESCRIPTION 11/30/23 REV, A 12/22/23 REV 0

ABB

38050 FINAL

12/22/2023

Edge

Consulting Engineers, Inc 624 WATER STREET PRAIRIE DU SAC, WI 53578 608.644.1449 VOICE 608.644.1549 FAX www.edgeconsult.com

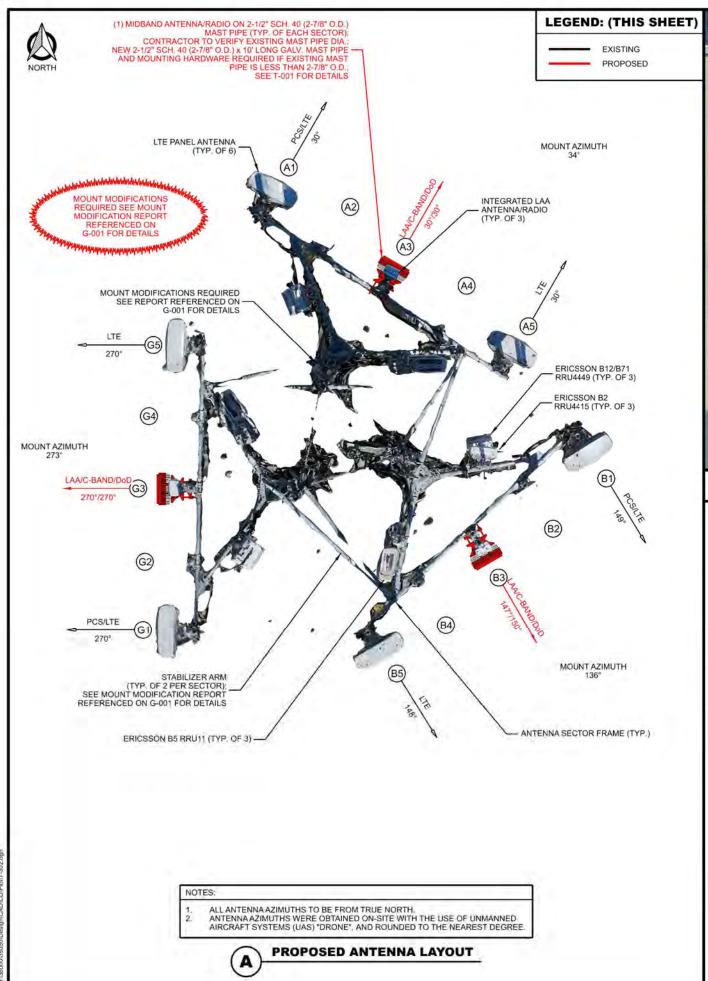
**%uscellular** 

U.S. CELLULAR 8410 W. BRYN MAWR AVE. SUITE 700 CHICAGO, IL 60631

I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN,

NGINEER SEAL:

T-301





	Antenna Position	Technology	Antenna Model	Antenna Quantity	RAD Center	Azimuth	Surge Protector Qty.	B12/B71 Radio	Radio Qty.	B2/B66 Radio	Radio Qty.	B5 Radio	Radio Qty.	MidBand Radio	Radio Qty.	Cable Type	Cable Qty.
ALPHA	A1	PCS/LTE	Amphenol TWN658LU000G-T	1	148.5'	30°	1	RRU4449	1	RRU4415	1	-		-		1-1/4" Hybrid	1
	A2			-				-	1.61	-		C.T			-	198	1
	A3	LAA	Integrated Antenna/Radio	3.1	151.5'	30°	Shared	De:	ĸĝi		3	18	31	RRU2205	1	Shared	0.0
	A3	DoD/C-Band	Integrated Antenna/Radio	100	148.5	30"	Shared	. e.	181	200	8.	7	1	AIR6472	1	Shared	7
	A4	-	-		. y .	-	100		-		5	-51	-	-	-	- 5	-
	A5	LTE	Amphenol TWIN658LU000G-T	1	148.5	30°	Shared	100	LSI		44	RRU11	. 1		Ly.	Shared	
BETA	B1	PCS/LTE	Amphenol TWIN658LU000G-T	1	148.5	149°	1	RRU4449	1	RRU4415	1	147	112	-	190	1-1/4" Power	(d)
	B2	8	-	160	(4)	8	×		-1		×	GE	i k	-	13	- 8	130
	B3	LAA	Integrated Antenna/Radio	190	151.5'	147°	Shared	D40	18	14	4	740	112	RRU2205	1	Shared	12
	БЗ	DoD/C-Band	Integrated Antenna/Radio	147	148.5	150°	Shared	Je C	50	161	(4)	- 40		AIR6472	1	Shared	3
	B4	-		3.0		7.91	191	Liber 1	Ţ.	Det	N/A	□€ 1	3	77.47	1	H-	150
	B5	LTE	Amphenol TWIN658LU000G-T	1	148.5'	148°	Shared		-	- /*	-	RRU11	- 1	1547	12	Shared	34
3	G1	PCS/LTE	Amphenol TWIN658LU000G-T	1	148.5	270°	Shared	RRU4449	1.	RRU4415	1	740	130	114-11	7:41	Shared	4
	G2	11.191.11	4	1.60	14	1151	11211	17.0	120	(.)	(40	136	145	164	1.3.1	112	-
IMA	G3	LAA	Integrated Antenna/Radio	- 24	151.5'	270°	Shared	100	51	1.0	18	9.1		RRU2205	1	Shared	
GAMMA	63	DoD/C-Band	Integrated Antenna/Radio		148.5	270°	Shared	3-1.1	35	141	72	-9¢1	2	AIR6472	1	Shared	120
	G4	02	-	100	e	100	1.9	GET.	-	Je m		30	1.20	100	10.0	19	10.00

1 148.5' 270°

**EXISTING ANCILLARY EQUIPMENT OVERVIEW** 

Black Text = Existing Green Text = Relocated Red Text = Proposed

В

C

Amphenol TWIN658LU000G-T

**PROPOSED ANTENNA & EQUIPMENT LOADING** 

RRU11

608.644.1449 VOICE 608.644.1549 FAX www.edgeconsult.com ポuscellular U.S. CELLULAR 8410 W. BRYN MAWR AVE. SUITE 700 CHICAGO, IL 60631 NGINEER SEAL:

Edge

624 WATER STREET PRAIRIE DU SAC, WI 53578

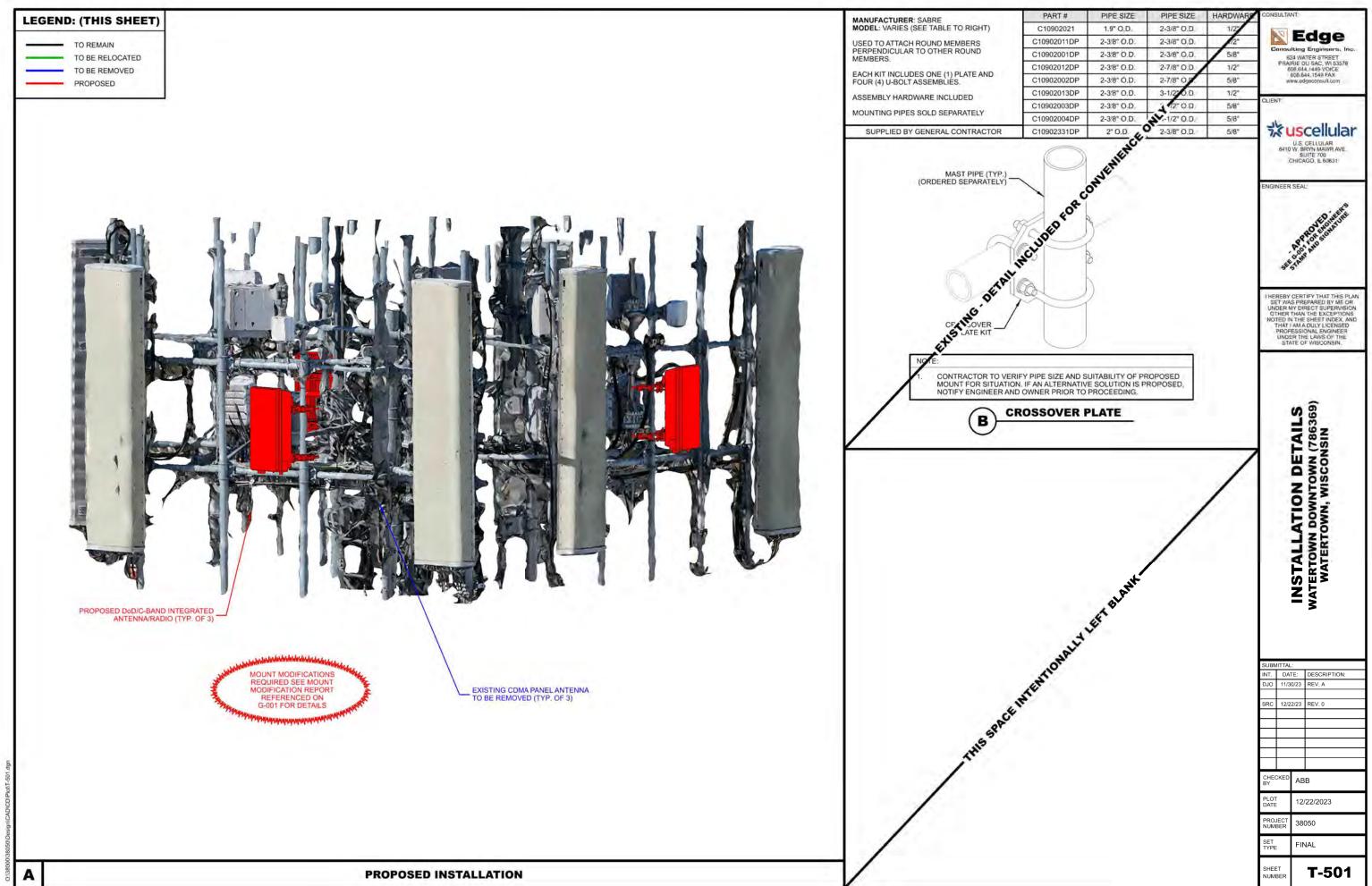
I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN,

PROPOSED ANTENNA LAYOUT WATERTOWN DOWNTOWN (786369) WATERTOWN, WISCONSIN

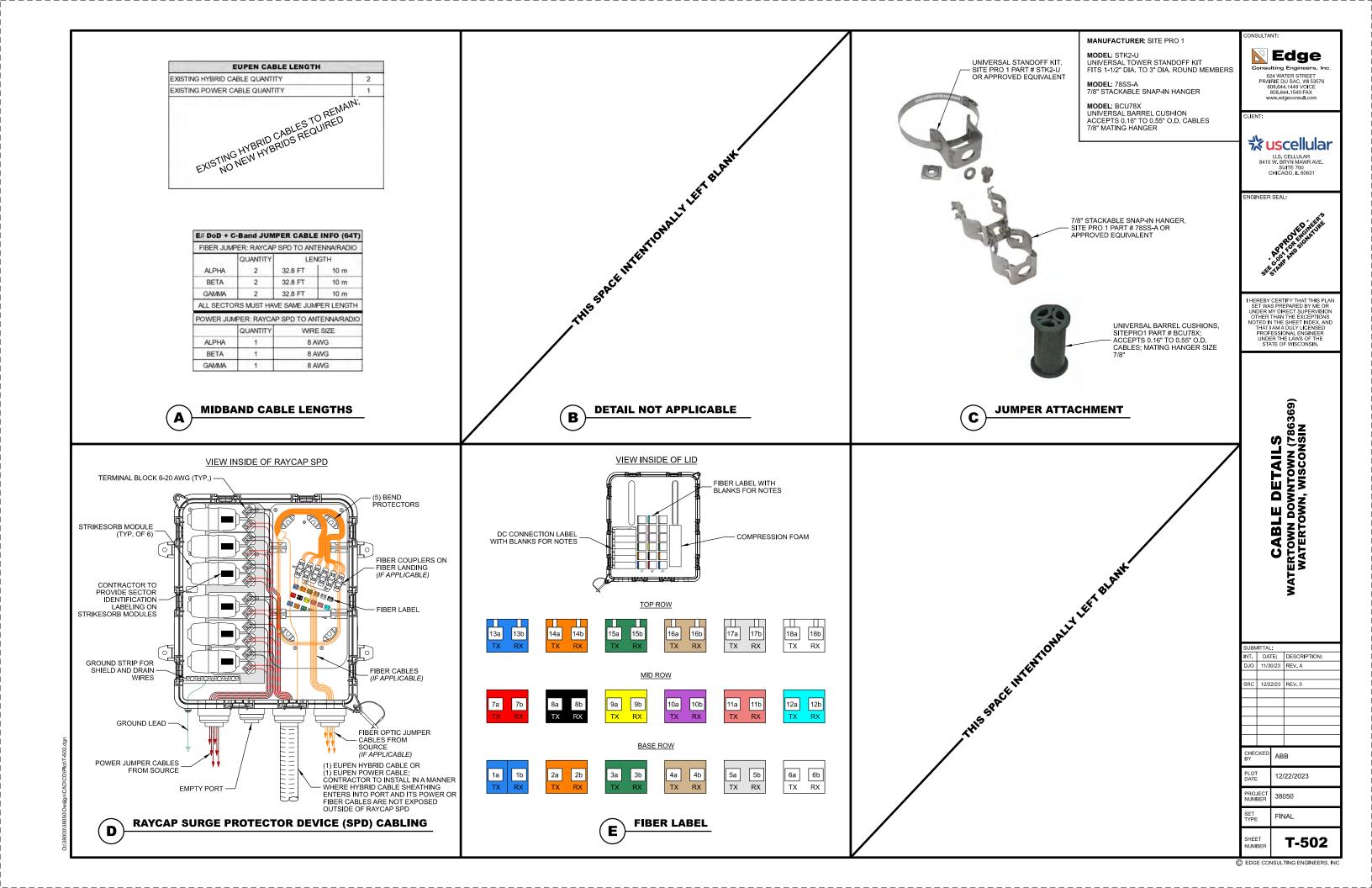
INT. DATE DESCRIPTION 11/30/23 REV, A 12/22/23 REV. 0 ABB 12/22/2023 38050

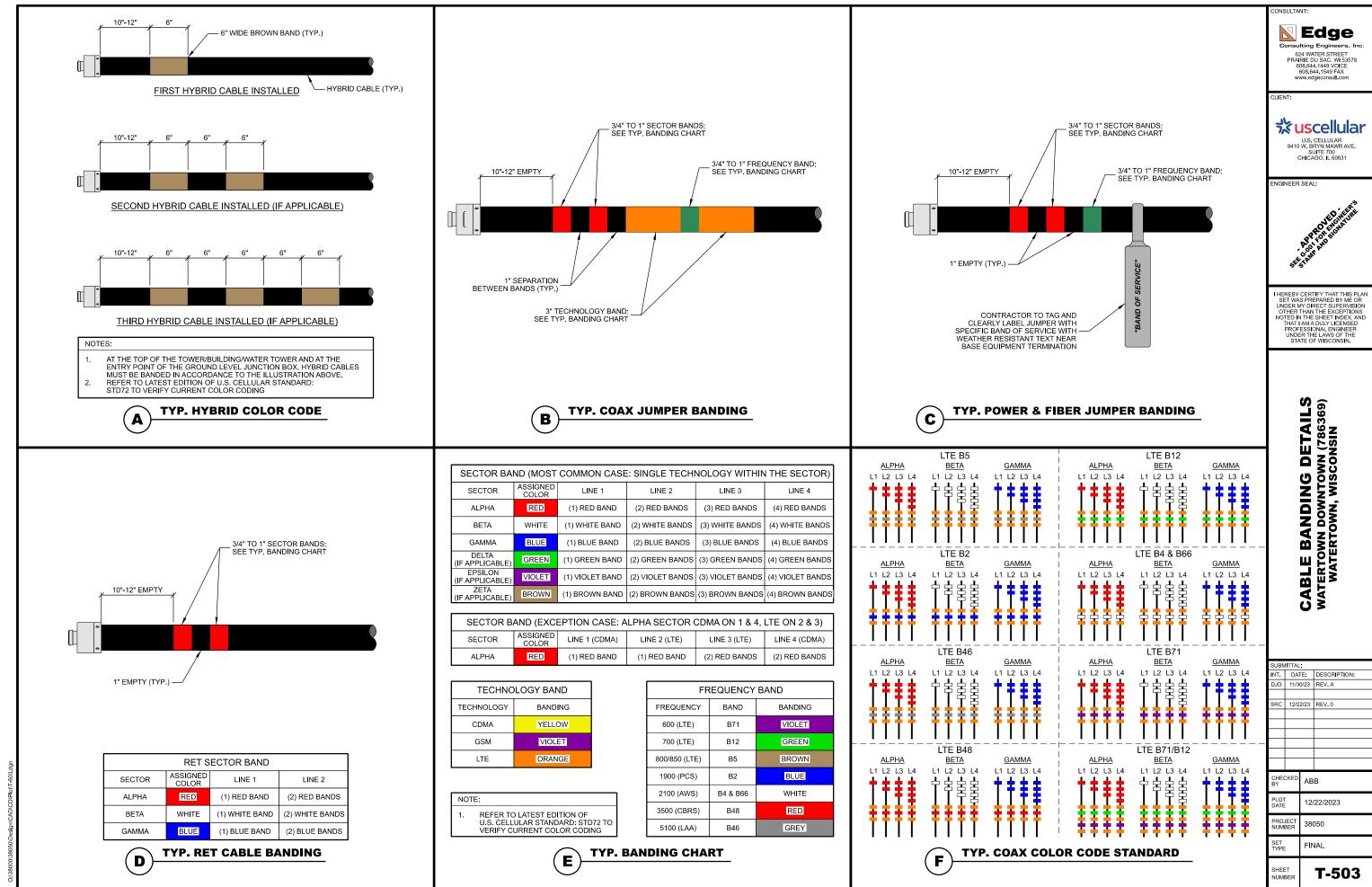
FINAL T-302

- 1-1/4" Hybrid 1

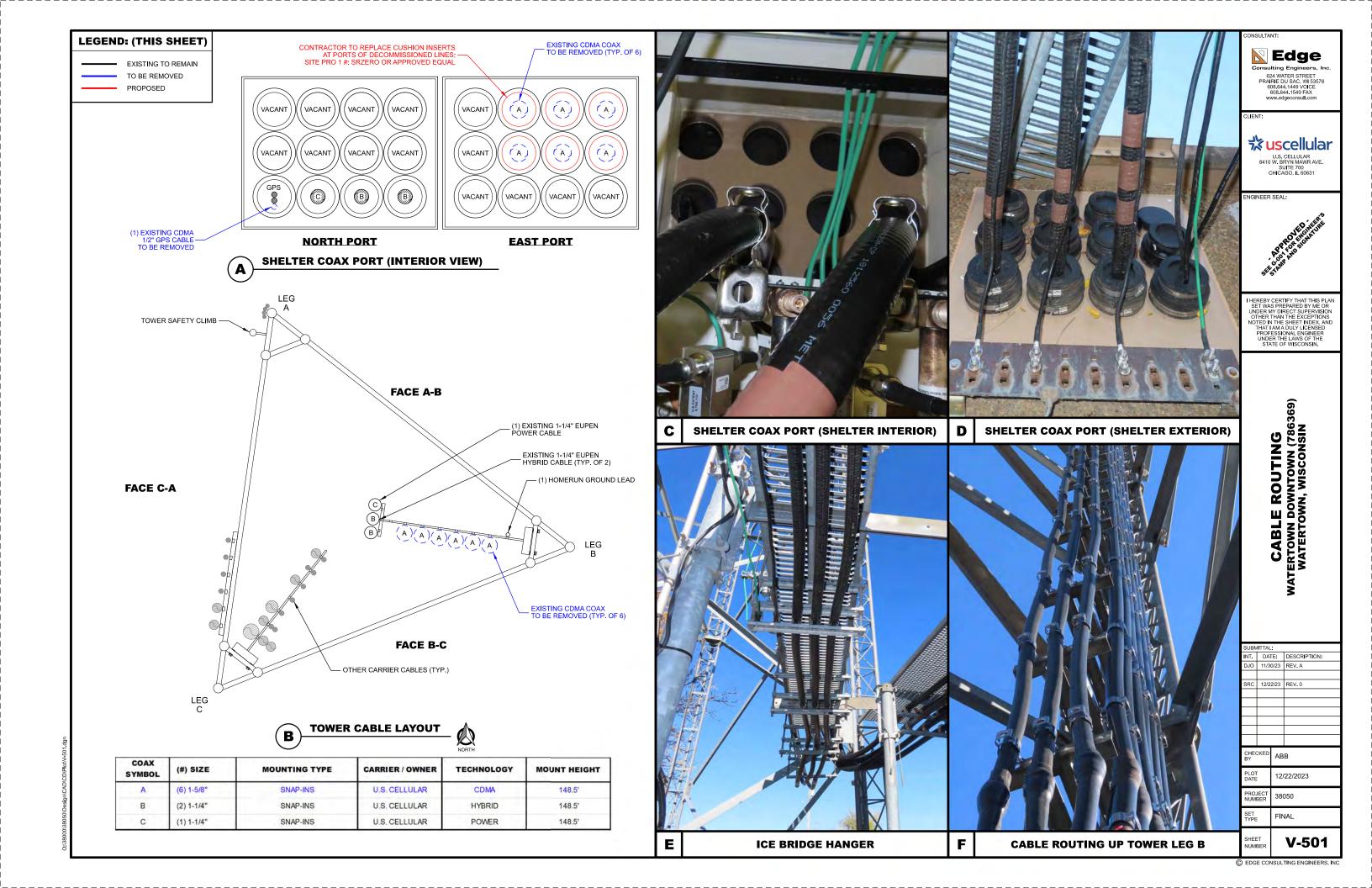


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## E// DoD 64T64R / C-Band 64T64R PER SECTOR CONFIGURATION

**Edge** Consulting Engineers, Inc 624 WATER STREET PRAIRIE DU SAC, WI 53578 608.644.1449 VOICE 608.644.1549 FAX www.edgeconsult.com



ENGINEER SEAL:



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PLUMBING DIAGRAM WATERTOWN DOWNTOWN (786369) WATERTOWN, WISCONSIN

SUBM	SUBMITTAL:								
INT.	DA	ΓE:	DESCRIPTION:						
DJO	11/3	0/23	REV. A						
SRC	12/2	2/23	REV. 0						
CHE(	CKED	AB	В						

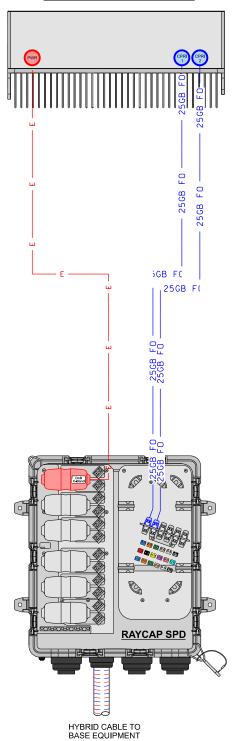
12/22/2023 38050 FINAL

ALL ANTENNA & RADIO UNIT DEPICTIONS ARE GENERIC AND ARE MEANT TO BE A REPRESENTATION OF THE INSTALLATION. ALL JUMPES BETWEEN RADIO UNITS & ANTENNAS MUST BE THE SAME LENGTH. CONTRACTOR TO INSTALL WEATHERPROOF CAP ON ALL UN-USED PORTS.

SHEET NUMBER

P-501

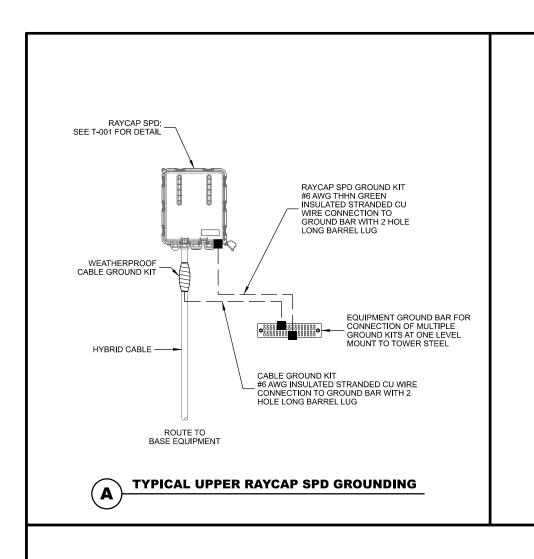
DoD - C-Band DUAL BAND INTEGRATED ANTENNA/RADIO

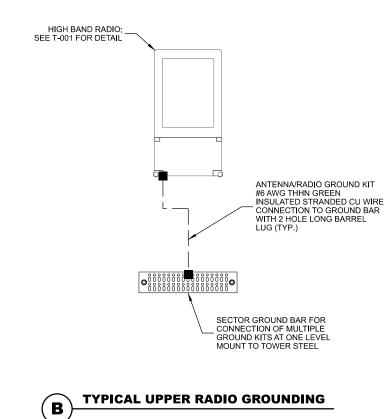


**CABLE LEGEND** 

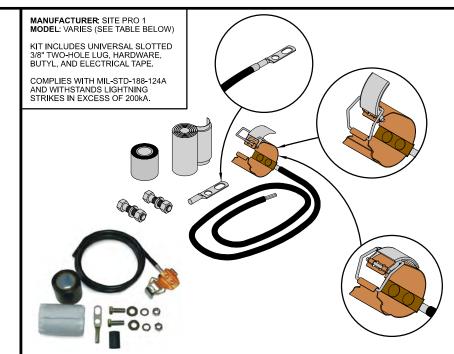
EUPEN HYBRID CABLE —FO— FIBER JUMPER — E — POWER JUMPER

PLUMBING DIAGRAM: DoD (64T) - C-Band (64T) E//DBR





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PART#	CABLE SIZE & TYPE	LENGTH	LUG	WEIGHT
GK-C12	1/2" CORRUGATED	5'	UNATTACHED	1.50 LB.
GK-C78	7/8" CORRUGATED	5'	UNATTACHED	1.65 LB.
GK-C114	1-1/4" CORRUGATED	5'	UNATTACHED	1.70 LB.
GK-C158	1-5/8" CORRUGATED	5'	UNATTACHED	1.70 LB.
GK-C214	2-1/4" CORRUGATED	5'	UNATTACHED	1.80 LB.

**CLIP ON GROUND KIT** C





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GROUNDING DETAILS
WATERTOWN DOWNTOWN (786369)
WATERTOWN, WISCONSIN

SUBMITTAL:									
INT.	DA	TE:	DESCRIPTION:						
DJO	11/3	0/23	REV. A						
SRC	12/2	2/23	REV. 0						
CHEC BY	CHECKED BY		В						
PLOT DATE		12	/22/2023						
PROJECT NUMBER		38	050						
SET TYPE		FIN	<b>NAL</b>						

E-501