

**SUITE 400 OVERLAND PARK, KS 66211** PHONE: 913-344-2800

**REGIONAL MAP** 

SITE LOCATION

# SPRC WILLARD WATER TANK - A C-BAND CARRIER ADD

512 E. JACKSON ST. WILLARD, MO 65781

# **VICINITY MAP**

STRUCTURAL: TERRA CONSULTING GROUP

A&E CONSULTANT:

SITE ACQUISITION:

TOWER OWNER:

C-BAND CARRIER ADD PROJECT DESCRIPTION:

SITE NAME: SPRC WILLARD WATER TANK - A

WILLARD, MO 65781

APPLICANT:

127 FT A.G.L. VZW CL HEIGHT:

# SHEET INDEX

SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	0,1
R-1	REVISION LOG	0,1
C-1	SITE LAYOUT	0,1
ANT-1	SITE ELEVATION	0
ANT-2	ANTENNA KEYS & LAYOUT	0,1
ANT-3	SECTOR PLAN & ELEVATION DETAILS	0
ANT-4	COAX ENTRY PANEL & PARTS LIST	0
ANT-5	ANTENNA PLUMBING DIAGRAM	0
N-1	GENERAL NOTES & SITE PHOTOS	0
N-2	SITE PHOTOS	0

# PROJECT INFORMATION

**PROJECT TEAM** 

FAX: (847) 698-6401

TERRA CONSULTING GROUP 600 BUSSE HIGHWAY PARK RIDGE, IL 60068 PHONE: (847) 698-6400

TERRA CONSULTING GROUP

MDG LOCATION ID #: 5000309199

FUZE PROJECT ID: 16947572

SITE ADDRESS: 512 E. JACKSON ST.

CITY OF WILLARD

VERIZON WIRELESS

10740 NALL AVE, SUITE 400 OVERLAND PARK, KS 66211 (913) 344-2896

### TOWER INFORMATION

LATITUDE: 37° 17' 57.3396" N LONGITUDE: 93° 25' 4.89" W GROUND ELEVATION: 1,239.8 FT A.M.S.L. OVERALL STRUCTURE HEIGHT 131 FT ± A.G.L. TOWER HEIGHT 123'-8" ± A.G.L.

# DESCRIPTION

OHLLI	BECOMI HOIV	I \L V .
T-1	TITLE SHEET	0,1
R-1	REVISION LOG	0,1
C-1	SITE LAYOUT	0,1
ANT-1	SITE ELEVATION	0
ANT-2	ANTENNA KEYS & LAYOUT	0,1
ANT-3	SECTOR PLAN & ELEVATION DETAILS	0
ANT-4	COAX ENTRY PANEL & PARTS LIST	0
ANT-5	ANTENNA PLUMBING DIAGRAM	0
N-1	GENERAL NOTES & SITE PHOTOS	0
N-2	SITE PHOTOS	0
	ATTACHMENTO	

#### **ATTACHMENTS**

PMI REPORT REQUIREMENTS

**CONTRACTOR PMI REQUIREMENTS** 

PMI ACCESSED AT https://pmi.vzwsmart.com

SMART TOOL VENDOR PROJECT #: 10220066

MDG LOCATION ID #: 5000309199

FUZE ID #: 16947572

\*\*\* PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

MOUNT MODIFICATION REQUIRED Ν

VZW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS

# SCOPE OF WORK

PROCTER RE

850 AWS3 PCS C-BAND ADD EXISTING (3) HYBRID CABLES 6x6 1-5/8" TO REMAIN. OVPs TO BE SWAPPED TO 12OVP VERSIONS.

# **VERIZON WIRELESS DEPARTMENTAL APPROVALS**

INITIALS: DATES: RF ENGINEER 10/16/24 TRANSPORT ENGINEER **OPERATIONS MANAGER CONSTRUCTION ENGINEER** 09/13/24 CONSTRUCTION MANAGER **REAL ESTATE MANAGER** 

# LESSOR / LICENSOR APPROVAL

PRINTED NAME: SIGNATURE: DATE:

NO CHANGES

CHANGES REQUESTED, SEE **COMMENTS ON PLANS** 

SITE LOCATION

**PROFESSIONAL** 

**ENGINEER'S STAMP** 



MDG #: 5000309199 SPRC WILLARD

9 < m o ←

WATER TANK - A 512 E. JACKSON ST. WILLARD, MO 65781

DRAWN BY CHECKED BY:

07/26/24 PROJECT # 54-1540

> SHEET TITLE TITLE SHEET

T-1

			REVISION LOG
NO.	BY	DATE	DESCRIPTION
Α	MLM	07/30/2024	DRAWINGS ISSUED FOR REVIEW
В	CEB	08/30/2024	EME STUDY ADDED
0	CEB	10/30/2024	ISSUED FOR CONSTRUCTION
1	CEB	12/10/24	REVISED PER CLIENT COMMENT

# **REVISION NOTES**

REV A DESCRIPTION DRAWINGS SUBMITTED FOR CLIENT REVIEW

REV B DESCRIPTION ADDED REVISION LOG R-1 SHEET ADDED EME STUDY TO SHEET C-1. ADDED ANTENNA TIP HEIGHT & FAA HEIGHT TO ANT-1

REV 0 DESCRIPTION DRAWINGS STAMPED FOR FINAL

REV 1 DESCRIPTION
ROTATED TANK CORRAL TO CORRECT ANTENNA MOUNT LOCATIONS C-1 AND ANT-2





l		ВУ	MLM	CEB	CEB	CEB		
l		DATE	07/30/24	08/30/24	10/30/24	12/10/24		
	REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	EME STUDY ADDED	ISSUED FOR CONSTRUCTION	REVISED PER CLIENT COMMENT		
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MDG #: 5000309199

# SPRC WILLARD WATER TANK - A

512 E. JACKSON ST. WILLARD, MO 65781

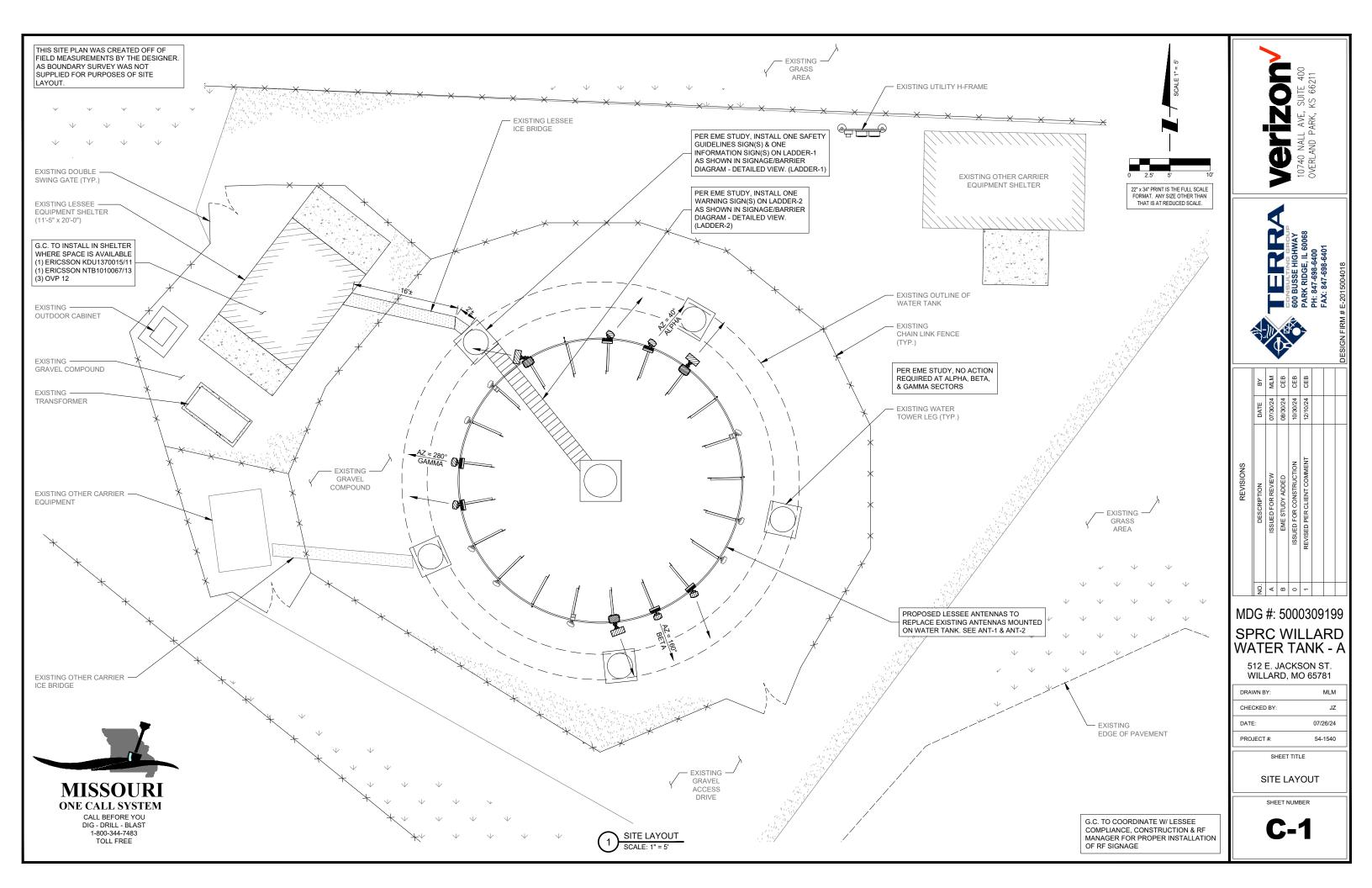
١	DRAWN BY:	MLM
١	CHECKED BY:	JZ
١	DATE:	07/26/24
١	PROJECT #:	54-1540

SHEET TITLE

REVISION LOG

SHEET NUMBE

**R-1** 





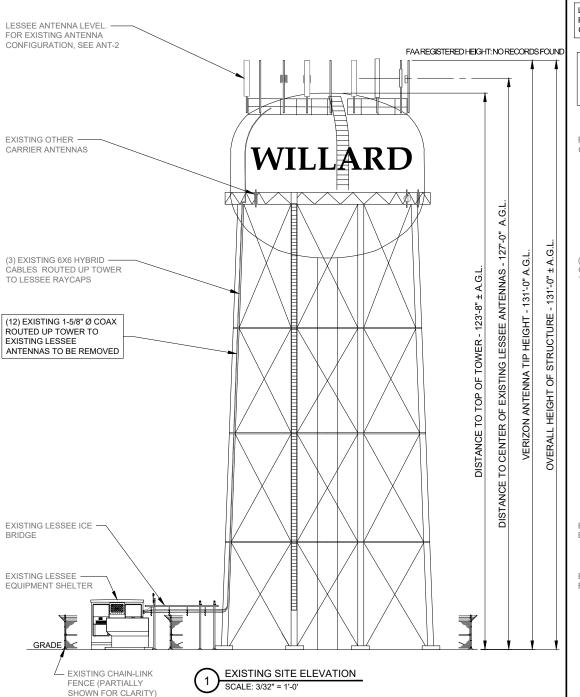
TYPICAL LESSEE ANTENNA SECTOR



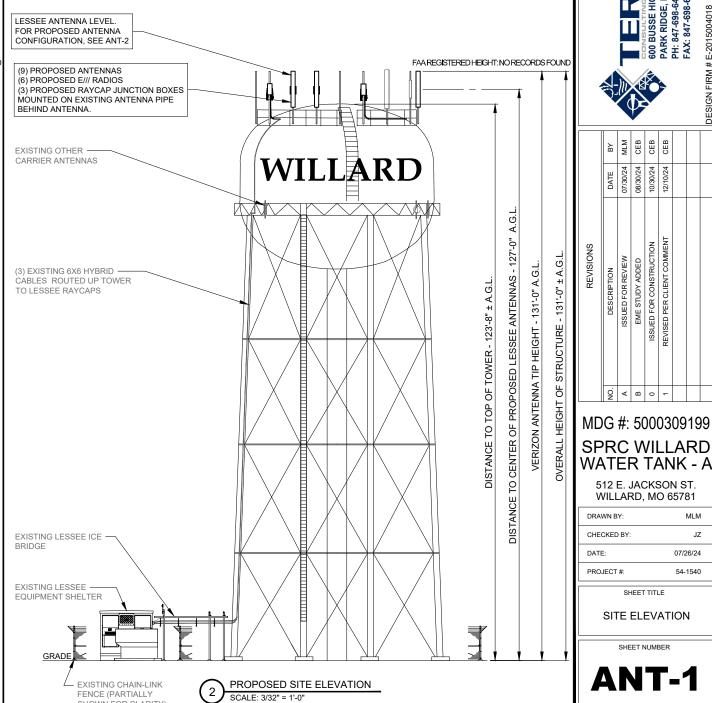
LESSEE COAX ROUTE ON TOWER

#### NOTES

- THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.
- 2. PASSING STRUCTURAL ANALYSIS BY TERRA CONSULTING GROUP, DATED OCTOBER 29, 2024.



SCALE: 3/32" = 1'-0" 22" x 34" PRINT IS THE FULL SCALE



SHOWN FOR CLARITY)







0 A B O +

MDG #: 5000309199 SPRC WILLARD

512 E. JACKSON ST. WILLARD, MO 65781

DRAWN BY:	MLM
CHECKED BY:	JZ
DATE:	07/26/24
PROJECT #:	54-1540

SHEET TITLE

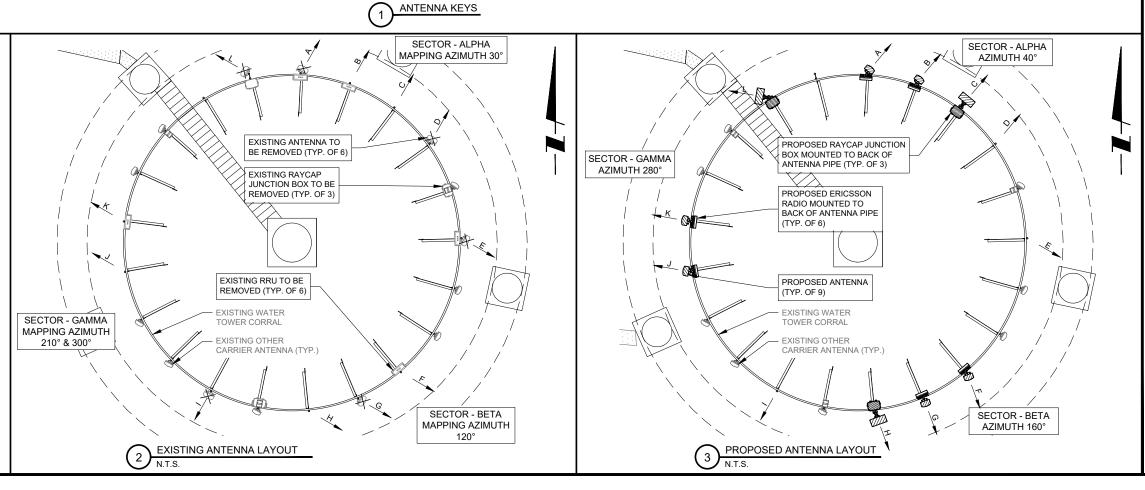
SITE ELEVATION

**ANT-1** 

EXISTING A	ANTENNA	A KEY																									
			Antenna Centerline		4-4	11-1-64	141: -141.	D 4h	181-1-ba		Mech I	F14	£	C	<b>6</b>	· · · · ·		RRU		D		Hybrid Cable	-	Hybrid	-		
	Position	Ctatus	(ft AGL)	Antenna Make / Model	Antenna Count	Height (in)				Azimuth			Coax Make/Model		Coax		RRU Make/Model		Distribution Box Make/Model	Raycap Count	Hybrid Cable Make/Model			Cable Length			Jumper Jump Count Leng
	Position	Status	(IL AGL)	Antenna Make / Model	Count	(in)	l (in)	(in)	(ibs)	Azimuth	DOWNLIIT	Downtilt	iviake/iviodei	Count	Size i	Length	KKO IVIAKE/IVIOGEI	Count	OVP 6	3	6X6 HYBRID CABLE	1	1-5/8"		Count	rengm	Count   Lent
Mainline																			OVFB	3	6X6 HYBRID CABLE			215'			
Cable &																					6X6 FTBRID CABLE		1-3/8	ا كنك ا			
istribution																											
	A	remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	30	-	-	AVA7-50	2	5/8"	165'	ERICSSON RRUS 12 B4	1			RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
	В	remove	-	-	-	-	-	-	-	-	-	-	-	- 1			ERICSSON RRUS 11 B13				RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
pha Sector	c	empty	-	-	-	-	-	-	-	- 1	-	-	-	-	-		-	-			-	-	-,-	-	-	-	
	D	remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	30	-	-	AVA7-50	2	5/8"	165'	-	-			-	-	•	-	-	-	
	E	remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	120	-	-	AVA7-50	2	5/8"	195'	ERICSSON RRUS 12 B4	1			RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
Beta Sector	F	remove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ERICSSON RRUS 11 B13	1			RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
eta Sector	G	remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	120	-	-	AVA7-50	2	5/8"	195'	-	-			-	-	-	-	-	-	
	Н	empty	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	
		remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	300	-	-	AVA7-50	2	5/8"	160'	ERICSSON RRUS 12 B4	1			RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
	J	empty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	
	К	remove	-	-	-	-	-	-	-	-	-	-	-	-	-		ERICSSON RRUS 11 B13	1	_		RFS / HBF058-08U1S2-30F	-	5/8"	-	2	30'	6 15
	L	remove	127	COMMSCOPE JAHH-65C-R3B	1	95.7	13.8	8.2	93.9	300	-	-	AVA7-50		5/8"	160'	-	-			<u>•</u>	-	-	-	-	-	
				Antenna Tota	al 6								Coax Tota	12			RRU Total	6	Distro Box Tota	3	Hybrid Cable Tota	3	Jun	per Total	12		36
ROPOSEI	D ANTENI	ΙΝΔ ΚΕΥ																									
			Antenna																			Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	RF RI
			Centerline		Antenna	Height	Width	Depth	Weight		Mech	Electrical	Соах	Соах	Соах	Соах		RRU		Raycap		Cable	Cable		-	Jumper	lumper Jumi
	Position	Status	(ft AGL)	Antenna Make / Model	Count	(in)	(in)	(in)	(lbs)	Azimuth	Downtilt	Downtilt	Make/Model	Count	Size I	Length	RRU Make/Model	Count	Distribution Box Make/Model	Count	Hybrid Cable Make/Model	Count	Size	Length	Count	Length	Count Leng
Mainline																			RAYCAP RVZDC-627-PF-48	3	6X6 HYBRID CABLE		1-5/8"				
Cable &																					6X6 HYBRID CABLE	2	1-5/8"	215'			
istribution																											
																	1										
	A	proposed		COMMSCOPE NHH-65C-R2B	1			7.1		40	0	2	-	-	-		ERICSSON 4890	1	-		HYBRID JUMPER FOR ERICSSON 4890	-	5/8"	-	1	15'	8 10
pha Sector	В	proposed		COMMSCOPE NHH-65C-R2B	1	96		7.1	51.6		0	4	-	-		-	ERICSSON 4490	1			HYBRID JUMPER FOR ERICSSON 4490	-	5/8"	-	1	15'	4 10
	С	proposed empty	127	ERICSSON AIR6419	1 -	28.5	16.1	8 -	- /1	40	0	0	-	-	-	-	-	-			HYBRID JUMPER FOR ERICSSON AIR6419	-	5/8"	-	1	15'	
			-	-	- 1	-		-						-			<u>-</u>							-			
	D									_	-	-	-	-	-		- -	-	-		- LIVERID HAMES FOR SPICESON 4800	-		-	1	- 451	
	Е	empty	- 127	- COMMISSIONE NUMBERS DOR	-	-	- 11.0	7.1			_	_				-	ERICSSON 4890	1	-		HYBRID JUMPER FOR ERICSSON 4890		5/8"	1	1	15'	8 10
eta Sector	E F	empty proposed	127	COMMSCOPE NHH-65C-R2B	1	- 96	11.9	7.1	51.6	160	0	2	-	-	_		EDICCCON 4400	-1			LIVERID ILLIMPED FOR EDICCCON 4400	<u> </u>	E/0"		-1	451	
eta Sector	E F G	empty proposed proposed	127 127	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B	1	96	11.9 11.9	7.1	51.6 51.6	160 160	0	4	-	-	-		ERICSSON 4490	1	-	$\vdash$	HYBRID JUMPER FOR ERICSSON 4490	-	5/8"	-	1	15'	4 10
eta Sector	E F G	empty proposed proposed proposed	127 127 127	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B ERICSSON AIR6419	1 1 1	96 28.3	11.9 11.9 16.1	7.1 8	51.6 51.6 71	160 160 160	0	4 0	-	-	-	-	-	-			HYBRID JUMPER FOR ERICSSON AIR6419	-	5/8"	-	1	15'	
eta Sector	E F G	empty proposed proposed proposed empty	127 127 127 -	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B ERICSSON AIR6419	1 1 1	96 28.3 -	11.9 11.9 16.1	7.1 8	51.6 51.6 71	160 160 160	0 0	4 0 -	-	-	-	-	-	-			HYBRID JUMPER FOR ERICSSON AIR6419 -	-	5/8"	-	1 -	15' -	
Gamma	E F G H	empty proposed proposed proposed empty proposed	127 127 127 - 127	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B ERICSSON AIR6419 - COMMSCOPE NHH-65C-R2B	1 1 1 -	96 28.3 - 96	11.9 11.9 16.1 - 11.9	7.1 8 - 7.1	51.6 51.6 71 - 51.6	160 160 160 - 280	0 0 - 0	4 0 - 2	-			-	- - ERICSSON 4890	- 1			HYBRID JUMPER FOR ERICSSON AIR6419 - HYBRID JUMPER FOR ERICSSON 4890		5/8" - 5/8"		1 - 1	15' - 15'	  8 10
	E F G	empty proposed proposed proposed empty proposed proposed	127 127 127 - 127 127	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B ERICSSON AIR6419 - COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B	1 1 1 - 1 1	96 28.3 - 96 96	11.9 11.9 16.1 - 11.9 11.9	7.1 8 - 7.1 7.1	51.6 51.6 71 - 51.6 51.6	160 160 160 - 280 280	0 0 - 0 0	4 0 - 2 4	- - - -	- - -		- - -	-	- 1 1			HYBRID JUMPER FOR ERICSSON AIR6419  - HYBRID JUMPER FOR ERICSSON 4890 HYBRID JUMPER FOR ERICSSON 4490	-	5/8" - 5/8" 5/8"	-	1 - 1 1	15' - 15' 15'	 8 10 4 10
Gamma	E F G H	empty proposed proposed proposed empty proposed	127 127 127 - 127 127	COMMSCOPE NHH-65C-R2B COMMSCOPE NHH-65C-R2B ERICSSON AIR6419 - COMMSCOPE NHH-65C-R2B	1 1 1 - 1 1 1	96 28.3 - 96 96	11.9 11.9 16.1 - 11.9 11.9	7.1 8 - 7.1	51.6 51.6 71 - 51.6 51.6	160 160 160 - 280	0 0 - 0	4 0 - 2	-			- - -	- - ERICSSON 4890	- 1 1	Distro Box Tota	3	HYBRID JUMPER FOR ERICSSON AIR6419 - HYBRID JUMPER FOR ERICSSON 4890		5/8" - 5/8" 5/8" 5/8"	-	1 - 1 1	15' - 15'	  8 10

## NOTES

- 1. THIS DRAWING IS FOR EXHIBIT AND LAYOUT PURPOSES ONLY.
- 2. G.C. TO VERIFY ANTENNA TECHNOLOGIES PRIOR TO REMOVAL OF ANY ANTENNAS.
- 3. G.C. SHALL USE LOW PIM DEVICES WITHIN 10' OF ANTENNAS WHERE EXTERNAL PIM CAN INTERFERE WITH WIRELESS SIGNAL RECEPTION.
- 4. CONTRACTOR SHALL VERIFY CABLE LENGTHS BEFORE ORDERING.
- 5. PASSING MOUNT ANALYSIS BY COLLIERS ENGINEERING & DESIGN, DATED APRIL 26, 2024.







	B	MLM	CEB	CEB	CEB		
	DATE	07/30/24	08/30/24	10/30/24	12/10/24		
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	EME STUDY ADDED	ISSUED FOR CONSTRUCTION	REVISED PER CLIENT COMMENT		
	Š.	Α	В	0	-		

MDG #: 5000309199 SPRC WILLARD WATER TANK - A

> 512 E. JACKSON ST. WILLARD, MO 65781

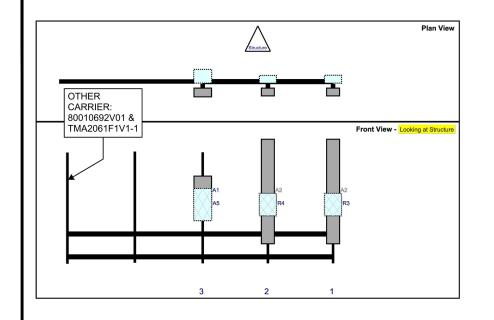
DRAWN BY:	MLM
CHECKED BY:	JZ
DATE:	07/26/24
DDG IFOT II	54.4540

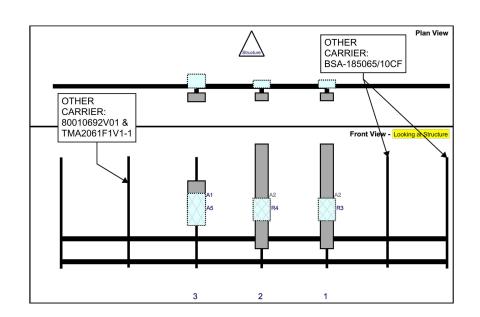
SHEET TITLE

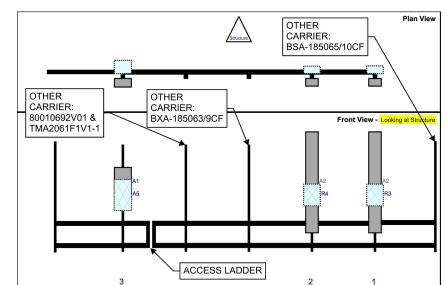
ANTENNA KEYS & LAYOUT

SHEET NUMBER

**ANT-2** 







CONSULTING SHOUP
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
OVERLAND PAF
PR. 847-598-6400

SECTOR: A SECTOR: B

### ANTENNA PLACEMENT

SECTO	DR: A	Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A2	NHH-65C-R2B	96	11.9	120	1	а	Front	36	0	Added	
R3	4890	20.6	15.7	120	1	а	Behind	48	0	Added	
A2	NHH-65C-R2B	96	11.9	60	2	а	Front	36	0	Added	
R4	4490.00	20.6	15.7	60	2	а	Behind	48	0	Added	
A1	AIR6419	28.3	16.1		3	а	Front	36	0	Added	
A5	RVZDC-6627-PF-48	29.5	16.5		3	а	Behind	48	0	Added	

SEC	TOR:	С

		Height	vviatn	H DIST	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A2	NHH-65C-R2B	96	11.9	240	1	а	Front	36	0	Added	
R3	4890	20.6	15.7	240	1	а	Behind	48	0	Added	
A2	NHH-65C-R2B	96	11.9	180	2	а	Front	36	0	Added	
R4	4490.00	20.6	15.7	180	2	а	Behind	48	0	Added	
A1	AIR6419	28.3	16.1		3	а	Front	36	0	Added	
A5	RVZDC-6627-PF-48	29.5	16.5		3	а	Behind	48	0	Added	

# MDG #: 5000309199 SPRC WILLARD WATER TANK - A

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512 E. JACKSON ST. WILLARD, MO 65781

DRAWN BY:	MLM
CHECKED BY:	JZ
DATE:	07/26/24
PROJECT #:	54-1540

SHEET TITLE

SECTOR PLAN & ELEVATION DETAILS

SHEET NUMBER

ANT-3

SECTOR: B		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A2	NHH-65C-R2B	96	11.9	120	1	а	Front	36	0	Added	
R3	4890	20.6	15.7	120	1	а	Behind	48	0	Added	
A2	NHH-65C-R2B	96	11.9	60	2	а	Front	36	0	Added	
R4	4490.00	20.6	15.7	60	2	а	Behind	48	0	Added	
A1	AIR6419	28.3	16.1		3	а	Front	36	0	Added	
A5	RVZDC-6627-PF-48	29.5	16.5		3	а	Behind	48	0	Added	



(12) EXISTING 1-5/8" COAX CABLES TO BE REMOVED (3) EXISTING 6X6 -HYBRID CABLES TO REMAIN

2 EXISTING ENTRY PANEL LAYOUT FROM OUTSIDE SHELTER N.T.S.

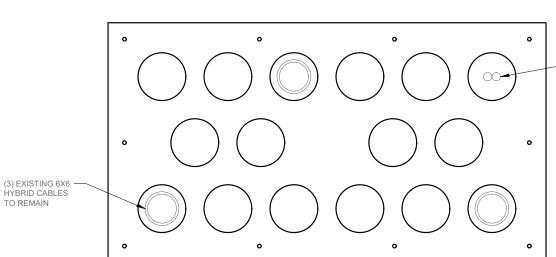
(2) EXISTING 1/2" COAX CABLES FOR GPS ANTENNAS TO REMAIN

NOTE: G.C. TO VERIFY CORRECT LINES PRIOR TO DISCONNECTION

LESSEE ENTRY PANEL

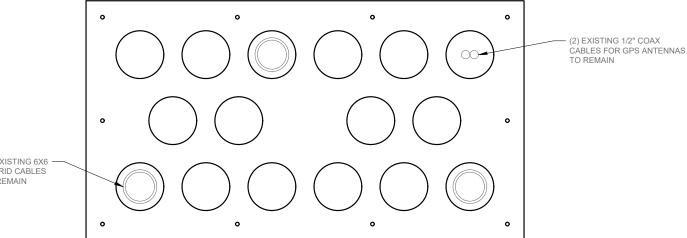
## PARTS LIST

- (6) COMMSCOPE NHH-65C-R2B
- (3) ERICSSON AIR6419
- (3) ERICSSON 4490
- (3) ERICSSON 4890
- (3) RAYCAP RVZDC-6627-PF-48 (TOWER)
- (3) RAYCAP RVZDC-4520-RM-48 (SHELTER) (1) ERICSSON KDU1370015/11 (SHELTER)
- (1) ERICSSON NTB1010067/13 (SHELTER)



### NOTES:

- GC IS TO SUPPLY WEATHERPROOFING BOOTS FOR CONNECTIONS.
- HOISTING GRIP MUST BE USED FOR EVERY 200 FEET OF CABLE.
- G.C. TO CAP ALL UNUSED CABLE ENTRY PORTS.
  G.C. TO ENSURE ALL PORTS ARE PROPERLY SEALED AND WEATHERPROOFED.



DRAWN BY: MLM JZ DATE: 07/26/24

MDG #: 5000309199

SPRC WILLARD WATER TANK - A

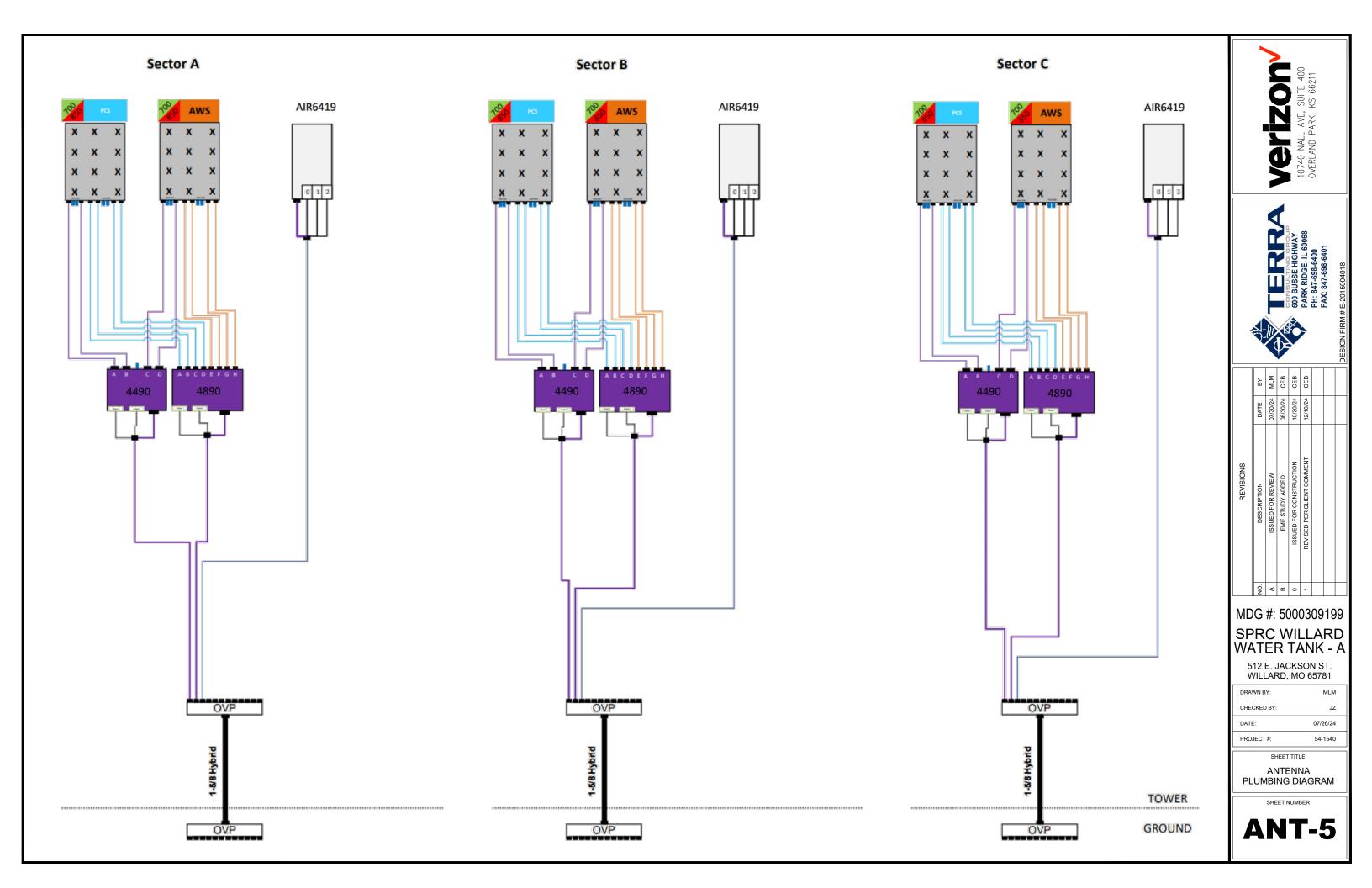
512 E. JACKSON ST. WILLARD, MO 65781

SHEET TITLE COAX ENTRY PANEL & PARTS LIST

54-1540

PROJECT #:

PROPOSED ENTRY PANEL LAYOUT FROM OUTSIDE SHELTER



### **GENERAL NOTES**

- 1. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK USING HIS OR HER BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO ELECTRICAL SERVICE AND OVERALL COORDINATION.
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC. SHALL BE REPORTED TO VERIZON WIRELESS BEFORE PROCEEDING WITH THE WORK.
- 4. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND EXISTING CONSTRUCTION, STRUCTURE, OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF VERIZON WIRELESS, AT THE EXPENSE OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL SAFEGUARD THE OWNER'S PROPERTY DURING CONSTRUCTION AND SHALL REPLACE ANY DAMAGED PROPERTY OF THE OWNER TO ORIGINAL CONDITION WITH THE APPROVAL OF THE OWNER.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE.
- ALL CONSTRUCTION WORK SHALL CONFORM TO THE I.B.C. AND ALL APPLICABLE LOCAL REGULATIONS, ORDINANCES, STATUTES AND CODES.
- 9. VERIZON WIRELESS SHALL OBTAIN THE CONSTRUCTION PERMIT, UNLESS JURISDICTION REQUIRES PERMIT TO BE PICKED UP BY A GENERAL CONTRACTOR. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO THE OWNER.
- 10. CITY APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF JOB SUPERINTENDENT.
- 11. THE CONTRACTOR SHALL PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C WITHIN 75 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILD OUT AREA DURING CONSTRUCTION.
- 12. ANY CONNECTION FEES FOR TEMPORARY ELECTRICAL SERVICE SHALL BE PAID BY THE CONTRACTOR.
- 13. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY POWER. CONTRACTOR SHALL NOT USE THE VERIZON WIRELESS GENERATOR ON SITE.

# **ABBREVIATIONS**

AGL	ABOVE GRADE LINE	GC	GENERAL CONTRACTOR
AMP	AMPERE	GND	GROUND
ARCH	ARCHITECT	HT	HEIGHT
BLDG	BUILDING	LF	LINEAR FEET
CL	CENTER LINE	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONTR	CONTRACTOR	OC	ON CENTER
DET	DETAIL	PL	PLATE
DIA	DIAMETER	REQ'D	REQUIRED
DIAG	DIAGONAL	SF	SQUARE FEET
DIM	DIMENSION	SHT	SHEET
DN	DOWN	SIM	SIMILAR
DWG	DRAWING	SPECS	SPECIFICATIONS
EA	EACH	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR, ELEVATION	STRUCT	STRUCTURAL
EQ	EQUAL	TC	TOP OF CURB
EQUIP	EQUIPMENT	TERRA	TERRA CONSULTING GROUP
EXIST	EXISTING	TOP	TOP OF PAVING
FND	FOUNDATION	TOS	TOP OF STEEL
FTG	FOOTING	TOC	TOP OF CONCRETE
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE



1) EXISTING ASR SIGN PHOTO N.T.S.

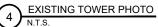


2 LESSEE COAX ROUTE ON ICE BRIDGE N.T.S.



3 LESSEE COAX ROUTE @ TOP









							2
	ВУ	MLM	CEB	CEB	CEB		
	DATE	07/30/24	08/30/24	10/30/24	12/10/24		
REVISIONS	DESCRIPTION	ISSUED FOR REVIEW	EME STUDY ADDED	ISSUED FOR CONSTRUCTION	REVISED PER CLIENT COMMENT		
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MDG #: 5000309199 SPRC WILLARD

WATER TANK - A
512 E. JACKSON ST.
WILLARD, MO 65781

DRAWN BY:	MLM
CHECKED BY:	JZ
DATE:	07/26/24
PROJECT #:	54-1540

SHEET TITLE
GENERAL NOTES
&
SITE PHOTOS

SHEET NUMBER





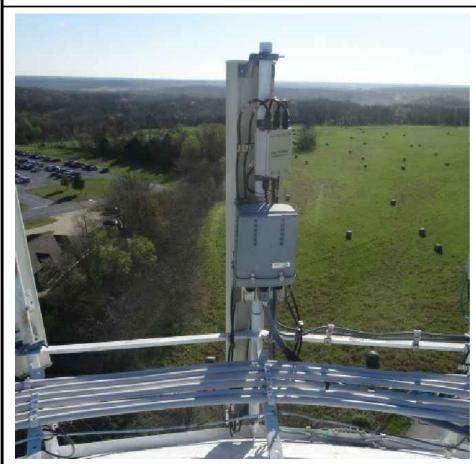




2 EXISTING BETA SECTOR N.T.S.



3 EXISTING GAMMA SECTOR N.T.S.



EXISTING ALPHA SECTOR RRU AND RAYCAP LOCATION N.T.S.



5 EXISTING BETA SECTOR RRU AND RAYCAP LOCATION N.T.S.



6 EXISTING GAMMA SECTOR RRU AND RAYCAP LOCATION N.T.S.





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	REVISIONS		
ŏ.	DESCRIPTION	DATE	BY
Α	ISSUED FOR REVIEW	07/30/24	MLM
В	EME STUDY ADDED	08/30/24	CEB
0	ISSUED FOR CONSTRUCTION	10/30/24	CEB
-	REVISED PER CLIENT COMMENT	12/10/24	CEB

# MDG #: 5000309199 SPRC WILLARD WATER TANK - A

512 E. JACKSON ST. WILLARD, MO 65781

DRAWN BY:	MLM
CHECKED BY:	JZ
DATE:	07/26/24
PROJECT #:	54-1540

SHEET TITLE

SITE PHOTOS

**N-2** 

# Mount Desktop - Post Modification Inspection (PMI) Report Requirements

# **Documents & Photos Required from Contractor – Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <a href="https://pmi.vzwsmart.com">https://pmi.vzwsmart.com</a>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000309199 SMART Project #: 10220066 Fuze Project ID: 16947572

<u>Purpose</u> – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

### **Base Requirements:**

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely
  impacted by the install of the modification components. This may involve the install of wire
  rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool
  engineer for recommendations.
- The PMI can be accessed at the following portal: https://pmi.vzwsmart.com

#### **Photo Requirements:**

- Photos taken at ground level
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

# **Antenna & equipment placement and Geometry Confirmation:**

	The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
	$\Box$ The contractor certifies that the photos support and the equipment on the mount is as depicted on he sketch and table included in this form and with the mount analysis provided.
	OR
	$\Box$ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.
	nstructions / Validation as required from the MA or any other information the contractor
<mark>deems n</mark>	necessary to share that was identified:
<mark>lssue:</mark>	
Respons	se:
<mark>Special I</mark>	nstruction Confirmation:
	$\square$ The contractor has read and acknowledges the above special instructions.
	$\square$ All hardware listed in the Special Instructions above (if applicable) has been properly nstalled, and the existing hardware was inspected.
а	☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these naterials.
	OR
	☐ The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

Comments:		
Contractor certifies t	hat the climbing facility / sa	Ifety climb was not damaged prior to starting work:
	, ,	
☐ Yes	□ No	
Contractor certifies n	o new damage created dur	ing the current installation:
		<del></del>
☐ Yes	□ No	
Contractor to certify	the condition of the safety	climb and verify no damage when leaving the site:
☐ Safety Clim	b in Good Condition	☐ Safety Climb Damaged
Contractor to provide	e measurement from top o	of the highest equipment/steel to the bottom of the
		g the most appropriate illustration below along with
supporting photos:		
TIF	P OF HIGHEST APPURTENANCE =	TIP OF HIGHEST APPURTENANCE =
1 120	TOTAL VERTICAL ENVELOPE =	G
	TOTAL VERTICAL ENVELOPE =	TOTAL VERTICAL ENVELOPE =
	<b>+</b>	
	P OF LOWEST APPURTENANCE =	TIP OF LOWEST APPURTENANCE =
Illustration #1		Illustration #2
Certifying Individual:		
Compa	nv:	
Employee Nan		
Contact Pho	ne:	
Em		
υa	ite:	