

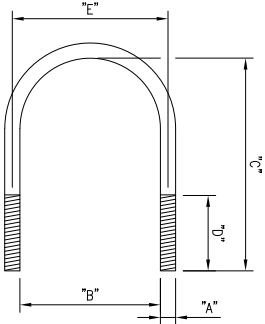
STANDARD RU-BOLT CHART							
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	"B"	"C"	"D"	"E"	"WGT"
3/8" RU-BOLT	MS02-375-8125-1625	3/8"	13/16"	1/8"	7/8"	13/16"	0.26
3/8" RU-BOLT	MS02-375-100-225	3/8"	1"	2 1/4"	1 1/4"	13/8"	0.30
3/8" RU-BOLT	MS02-375-125-225	3/8"	1 1/4"	2 1/4"	1 1/4"	15/8"	0.30
3/8" RU-BOLT	MS02-375-1125-18125	3/8"	1 1/8"	1 13/16"	1 1/4"	1 1/2"	0.27
3/8" RU-BOLT	MS02-375-150-250	3/8"	1 1/2"	2 1/2"	1 1/4"	1 7/8"	0.32
3/8" RU-BOLT	MS02-375-150-275	3/8"	1 1/2"	2 3/4"	1 3/4"	1 7/8"	0.34
3/8" RU-BOLT	MS02-375-150-300	3/8"	1 1/2"	3"	1 3/4"	1 7/8"	0.35
3/8" RU-BOLT	MS02-375-150-375	3/8"	1 3/4"	2 3/4"	1 1/4"	2 1/8"	0.34
3/8" RU-BOLT	MS02-375-200-2625	3/8"	2"	2 5/8"	1 1/8"	2 3/8"	0.34
3/8" RU-BOLT	MS02-375-200-325	3/8"	2"	3"	1-1/4"	2-3/8"	0.40
3/8" RU-BOLT	MS02-375-2125-300	3/8"	2 1/8"	3"	1 1/4"	2 1/2"	0.36
3/8" RU-BOLT	MS02-375-250-3625	3/8"	2 1/2"	3 1/16"	1 1/4"	2 7/8"	0.38
3/8" RU-BOLT	MS02-375-250-3125	3/8"	2 1/2"	3 1/8"	1 1/4"	2 7/8"	0.37
3/8" RU-BOLT	MS02-375-250-3625	3/8"	2 1/2"	3 5/8"	1 3/4"	2 7/8"	0.45
3/8" RU-BOLT	MS02-375-300-3625	3/8"	3"	3 5/8"	1 1/4"	3 3/8"	0.42
3/8" RU-BOLT	MS02-375-300-405	3/8"	3"	4 1/4"	2"	3 3/8"	0.50
3/8" RU-BOLT	MS02-375-300-6625	3/8"	3	6 5/8"	3	3 3/8"	0.53
3/8" RU-BOLT	MS02-375-330-4125	3/8"	3 1/2"	4 1/8"	1 1/4"	3 7/8"	0.46
3/8" RU-BOLT	MS02-375-350-475	3/8"	3 1/2"	4 3/4"	2"	3 7/8"	0.50
3/8" RU-BOLT	MS02-375-400-575	3/8"	4"	5 3/4"	2 1/2"	4 3/8"	0.60

1/2" RU-BOLT	MS02-500-75-350	1/2"	3 1/4"	3 1/2"	2 1/2"	1 1/4"	0.60
1/2" RU-BOLT	MS02-500-1563-350	1/2"	19/16"	3 1/2"	2"	2 1/8"	0.62
1/2" RU-BOLT	MS02-500-200-300	1/2"	2"	3"	1 1/4"	2 1/2"	0.55
1/2" RU-BOLT	MS02-500-200-375	1/2"	2"	3 3/4"	1 3/4"	2 1/2"	0.67
1/2" RU-BOLT	MS02-500-20625-500	1/2"	2 1/16"	5	3"	2 9/16"	0.80
1/2" RU-BOLT	MS02-500-225-460	1/2"	2 1/4"	4 1/2"	2 1/4"	2 3/4"	0.76
1/2" RU-BOLT	MS02-500-2438-3625	1/2"	2 7/16"	3 5/8"	1 3/4"	2 15/16"	0.67
1/2" RU-BOLT	MS02-500-2438-575	1/2"	2 7/16"	5 3/8"	3	2 15/16"	0.86
1/2" RU-BOLT	MS02-500-250-400	1/2"	2 1/2"	2 1/2"	2 1/2"	3"	0.76
1/2" RU-BOLT	MS02-500-250-460	1/2"	2 1/2"	4 1/2"	2 1/2"	3"	0.76
1/2" RU-BOLT	MS02-500-29375-575	1/2"	2 15/16"	5 3/4"	3"	3 7/16"	0.92
1/2" RU-BOLT	MS02-500-300-4125	1/2"	3"	4 1/8"	2"	3 1/2"	0.74
1/2" RU-BOLT	MS02-500-300-460	1/2"	3"	4 1/2"	1 3/8"	3 1/2"	0.73
1/2" RU-BOLT	MS02-500-300-500	1/2"	3"	5"	2 1/2"	3 1/2"	0.84
1/2" RU-BOLT	MS02-500-350-900	1/2"	3 1/2"	5"	1 1/2"	4"	1.08
1/2" RU-BOLT	MS02-500-350-660	1/2"	3 1/2"	8 1/2"	3"	4 1/8"	1.10
1/2" RU-BOLT	MS02-500-3625-550	1/2"	3 5/8"	5 1/2"	3"	4 7/8"	1.10
1/2" RU-BOLT	MS02-500-3625-600	1/2"	3 5/8"	6"	2 1/2"	4 1/8"	0.97
1/2" RU-BOLT	MS02-500-3563-450	1/2"	3 9/16"	4 1/2"	2"	4 1/8"	1.02
1/2" RU-BOLT	MS02-500-3563-660	1/2"	3 9/16"	6 1/2"	3"	4 1/8"	1.02
1/2" RU-BOLT	MS02-500-400-550.8	1/2"	4"	5 1/2"	1 1/2"	4 1/2"	0.84
1/2" RU-BOLT	MS02-500-400-560	1/2"	4"	5 1/2"	2"	4 1/2"	0.92
1/2" RU-BOLT	MS02-500-4063-700	1/2"	4 1/16"	7"	4 9/16"	4 5/8"	1.09
1/2" RU-BOLT	MS02-500-4125-600	1/2"	4 1/8"	6"	2 1/2"	4 5/8"	0.88
1/2" RU-BOLT	MS02-500-450-600	1/2"	4 1/2"	6"	1 1/2"	5"	0.89
1/2" RU-BOLT	MS02-500-4625-750	1/2"	4 9/16"	7 1/2"	2 1/2"	5 1/8"	1.11
1/2" RU-BOLT	MS02-500-4563-750	1/2"	4 9/16"	7 1/4"	2"	5 1/8"	1.16
1/2" RU-BOLT	MS02-500-5625-725	1/2"	5 5/8"	7 1/4"	2"	6 1/8"	1.04
1/2" RU-BOLT	MS02-500-4563-575	1/2"	4 9/16"	5 3/4"	2"	5 1/8"	0.97
1/2" RU-BOLT	MS02-500-5563-700	1/2"	5 9/16"	7"	2"	6 1/16"	1.14
1/2" RU-BOLT	MS02-500-575-560	1/2"	5 3/4"	8"	3"	6 3/8"	2.02
1/2" RU-BOLT	MS02-500-575-750	1/2"	5 3/4"	7 1/2"	3"	7 5/16"	2.35
1/2" RU-BOLT	MS02-500-6625-800	1/2"	6 5/8"	8"	3"	7 1/8"	1.28
1/2" RU-BOLT	MS02-500-675-860	1/2"	6 3/4"	8 1/2"	2 1/2"	7 1/4"	1.17
1/2" RU-BOLT	MS02-500-675-8375	1/2"	6 3/4"	8 3/8"	2"	7 1/4"	1.24
1/2" RU-BOLT	MS02-500-8750-1025	1/2"	8 3/4"	10 1/4"	3"	9 1/4"	1.60
1/2" RU-BOLT	MS02-500-875-10875	1/2"	8 3/4"	10 3/8"	2"	9 1/4"	1.34
1/2" RU-BOLT	MS02-500-10875-1300	1/2"	10 7/8"	1-11"	3"	11 3/8"	1.98

NOTES:

IF EQUIVALENT U-BOLTS ARE USED, THE FOLLOWING SPECIFICATIONS ARE REQUIRED:

1. THE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 36 KSI.
2. ALL U-BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A153-78.
3. TOLERANCE: FOR "C" AND "D" +/ - 1/16", "B" AND "E" + 1/16", "A" +/ - 1/32".



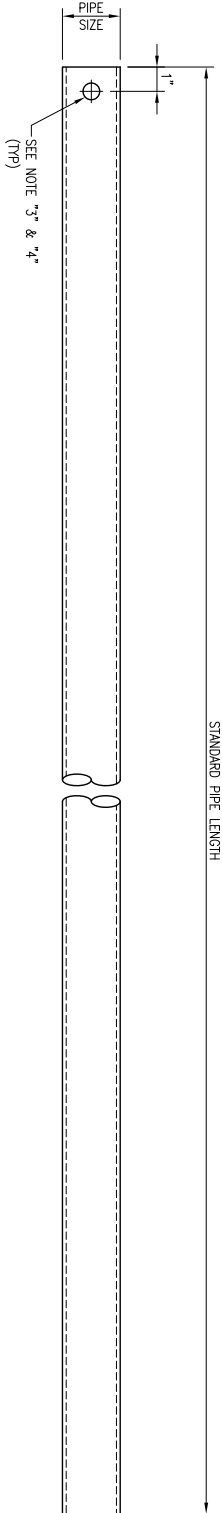
STANDARD RU-BOLT CHART							
DESCRIPTION	(EQUIVALENT PART NO.)	"A"	"B"	"C"	"D"	"E"	"WGT"
5/8" RU-BOLT	MS02-625-200-375	5/8"	2"	3 3/4"	2"	2 5/8"	1.15
5/8" RU-BOLT	MS02-625-2063-500	5/8"	2 1/16"	5"	3"	2 11/16"	1.32
5/8" RU-BOLT	MS02-625-2438-5375	5/8"	2 7/16"	5 3/8"	3"	3 1/16"	1.40
5/8" RU-BOLT	MS02-625-250-400	5/8"	2 1/2"	4"	2 1/2"	3 1/8"	1.17
5/8" RU-BOLT	MS02-625-2625-460	5/8"	2 5/8"	4 1/2"	3"	3 1/4"	1.20
5/8" RU-BOLT	MS02-625-2663-550	5/8"	2 9/16"	5 1/2"	3"	3 3/16"	1.43
5/8" RU-BOLT	MS02-625-2598-5675	5/8"	2 15/16"	5 7/8"	3"	3 9/16"	1.52
5/8" RU-BOLT	MS02-625-300-400	5/8"	3"	4"	2"	3 5/8"	1.20
5/8" RU-BOLT	MS02-625-300-500	5/8"	3"	5"	3"	3 5/8"	1.37
5/8" RU-BOLT	MS02-625-3063-600	5/8"	3 1/16"	6"	3"	3 11/16"	1.54
5/8" RU-BOLT	MS02-625-3625-600	5/8"	3 5/8"	6"	3"	4 1/4"	1.65
5/8" RU-BOLT	MS02-625-3563-660	5/8"	3 9/16"	6 1/2"	3"	4 3/16"	1.65
5/8" RU-BOLT	MS02-625-4063-700	5/8"	4 1/16"	7"	3"	4 11/16"	1.77
5/8" RU-BOLT	MS02-625-4125-600	5/8"	4 1/8"	6"	3"	4 3/4"	1.60
5/8" RU-BOLT	MS02-625-4625-700	5/8"	4 5/8"	7"	3"	5 1/4"	1.60
5/8" RU-BOLT	MS02-625-4663-750	5/8"	4 9/16"	7 1/2"	3"	5 3/16"	1.87
5/8" RU-BOLT	MS02-625-4813-775	5/8"	4 13/16"	7 3/4"	3"	5 7/16"	1.93
5/8" RU-BOLT	MS02-625-500-700	5/8"	5"	7"	3"	5 5/8"	1.96
5/8" RU-BOLT	MS02-625-5063-800	5/8"	5 1/16"	8"	3"	5 11/16"	1.99
5/8" RU-BOLT	MS02-625-5625-86625	5/8"	5 5/8"	8 9/16"	3"	6 1/4"	2.11
5/8" RU-BOLT	MS02-625-575-800	5/8"	5 3/4"	8"	3"	6 3/8"	2.02
5/8" RU-BOLT	MS02-625-6688-9625	5/8"	6 11/16"	9 5/8"	3"	7 5/16"	2.35
5/8" RU-BOLT	MS02-625-6750-900	5/8"	6 3/4"	9"	3"	7 3/8"	2.24
5/8" RU-BOLT	MS02-625-8888-11625	5/8"	8 11/16"	11 5/8"	3"	9 3/16"	2.80
5/8" RU-BOLT	MS02-625-875-1100	5/8"	8 3/4"	11"	3"	9 3/8"	2.70
5/8" RU-BOLT	MS02-625-10888-1375	5/8"	10 31/16"	13 3/4"	3"	11 7/16"	3.27
5/8" RU-BOLT	MS02-625-12875-1575	5/8"	12 7/8"	15 3/4"	3"	13 1/2"	3.72
5/8" RU-BOLT	MS02-625-14125-1700	5/8"	14 1/8"	17"	3"	14 3/4"	4.01

VZW
SMART Tool®
Vendor



FOR
REFERENCE
ONLY

DRAWN BY: BT	CHECKED BY: HMA/AM
REV. DESCRIPTION	BY DATE
1. ENST ISSUE	BT 05/08/20
2. REVISED	BT 04/10/21
3. REVISED	AM 09/23/23
SHEET TITLE: RU-BOLT CHART	
SHEET NUMBER: RBC-1	REV #: 2



NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION
PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE.
SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

- NOTES:**
- 1. ALL PIPE GRADE A53-B OR BETTER.
 - 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 - 3. ALL HOLES ARE 11/16" DIA. UNO
 - 4. HOLES MAY OR MAY NOT BE PRESENT. DEPEND UPON MANUFACTURE DISCRETION.
 - 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINCA OR ZINC COIE PER PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X060	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

VZW
SMART Tool[®]
Vendor



FOR REFERENCE
ONLY

DESIGNED BY: BT	CHECKED BY: HMA/AN
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	BT 08/04/21
△	
△	
△	
△	

SHEET TITLE:

VZWSMART
STANDARD PIPE

SHEET NUMBER	REV #:
VZWSMART-PIPE	0



PV-SFA-B
L.I.F.E. MOUNT ASSEMBLED SECTOR FRAME

Table 1: PV-SFA Configurations

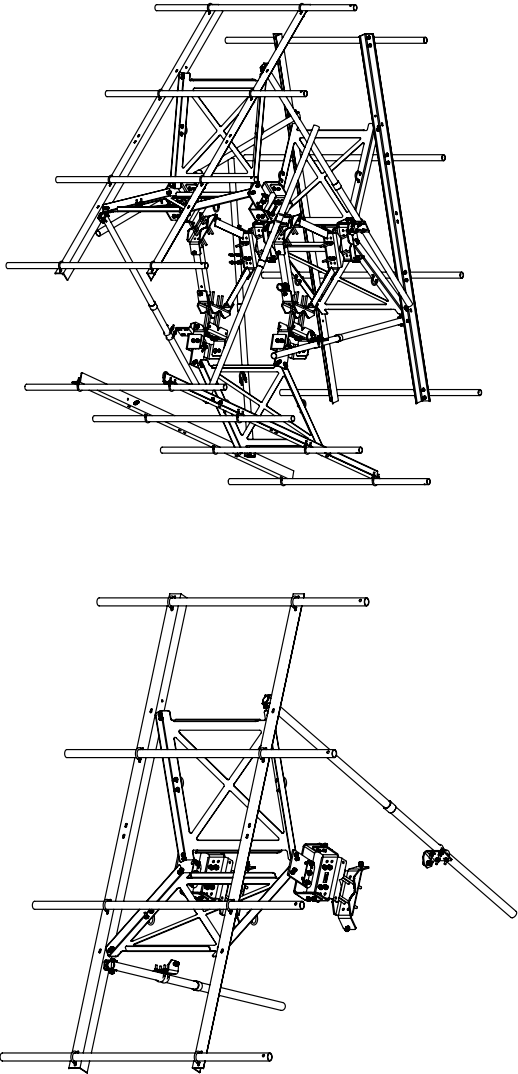
Part Number	Included Frame	Frame qty	Total Antenna Pipes	Pipe Length	HSK Included
PV-SFA7-3-96	PV-SFA7-B	1	3	96"	No
PV-SFA7-4-96	PV-SFA7-B	1	4	96"	No
PV-SFA7-3-126	PV-SFA7-B	1	3	126"	No
PV-SFA7-4-126	PV-SFA7-B	1	4	126"	No
PV-SFA10-3-96	PV-SFA10-B	1	3	96"	No
PV-SFA10-4-96	PV-SFA10-B	1	4	96"	No
PV-SFA10-3-126	PV-SFA10-B	1	3	126"	No
PV-SFA10-4-126	PV-SFA10-B	1	4	126"	No
PV-SFA12-3-96	PV-SFA12-B	1	3	96"	No
PV-SFA12-4-96	PV-SFA12-B	1	4	96"	No
PV-SFA12-3-126	PV-SFA12-B	1	3	126"	No
PV-SFA12-4-126	PV-SFA12-B	1	4	126"	No
PV-SFA14-4-96	PV-SFA14-B	1	4	96"	No
PV-SFA14-5-96	PV-SFA14-B	1	5	96"	No
PV-SFA14-4-126	PV-SFA14-B	1	4	126"	No
PV-SFA14-5-126	PV-SFA14-B	1	5	126"	No
PV-SFA7-3-1296	PV-SFA7-B	3	9	96"	Yes
PV-SFA7-3-9-126	PV-SFA7-B	3	9	126"	Yes
PV-SFA7-3-12126	PV-SFA7-B	3	12	126"	Yes
PV-SFA10-3-9-96	PV-SFA10-B	3	9	96"	Yes
PV-SFA10-3-1296	PV-SFA10-B	3	12	96"	Yes
PV-SFA10-3-9-126	PV-SFA10-B	3	9	126"	Yes
PV-SFA12-3-9-96	PV-SFA12-B	3	9	96"	Yes
PV-SFA12-3-1296	PV-SFA12-B	3	12	96"	Yes
PV-SFA12-3-9-126	PV-SFA12-B	3	9	126"	Yes
PV-SFA14-3-1296	PV-SFA14-B	3	12	96"	Yes
PV-SFA14-3-12126	PV-SFA14-B	3	12	126"	Yes
PV-SFA14-3-15126	PV-SFA14-B	3	15	126"	Yes

Table 2: PV-SFA-B Configurations

Part Number	Mount Width	Face Angle	Total Weight
PV-SFA7-B	7' 6"	PV-SFA-ANGLET7HD	510 lbs
PV-SFA10-B	10' 6"	PV-SFA-ANGLET10HD	560 lbs
PV-SFA12-B	12' 6"	PV-SFA-ANGLET12HD	592 lbs
PV-SFA14-B	14' 6"	PV-SFA-ANGLET14HD	624 lbs

Table 3: Optional Accessories

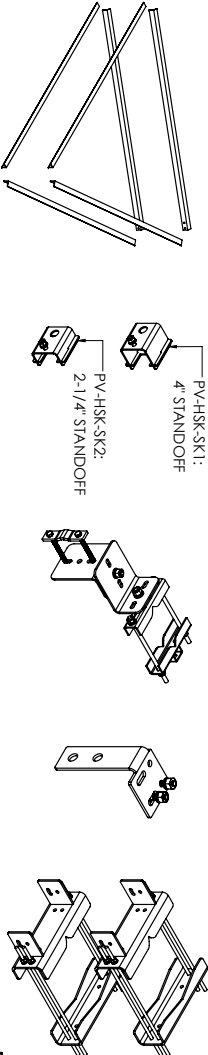
Part Number	Description	Sheet
PV-HSK	Horizontal Support Kit	5
PV-HSK-SK1	Horizontal Support Kit: 4' Standoff Kit	5
PV-HSK-SK2	Horizontal Support Kit: 2-1/4" Standoff Kit	5
PV-SFA-8016	Large Leg Adapter Kit	6
PV-SAM-U	Stiff Arm Leg Bracket	6
PV-SCRB-SFA	Safety Climb Cable Guide Attachment	4



3 SECTOR WITH HSK AND PIPE

SINGLE SECTOR WITH PIPE

OPTIONAL ACCESSORIES



PV-HSK

PV-HSK-SK#

PV-SAM-U

PV-SCRB-SFA

PV-SFA-8016

1 OF 8		BEND ANGLE INDICATOR		CATEGORY		01. Self Support		8		ADDED HSK KIT		2/22/19		PERFECT VISION L.I.F.E. MOUNTS™	
2/26/2019		SCALE N.T.S.		TYPE PV-SFA		7		7		UPDATED CLASSIFICATIONS, ADDED ADDITIONAL NOTES		3/20/18			
DIMENSIONS ARE IN INCHES TOLERANCES UNLESS NOTED HOLE SIZE: 1/8" ± 0.005 ANGLES: 1/4" ± BEND ± 2° ALL OTHERS: ± 1/16"		BY INT		CHECKED SJS		5		5		MOUNT CLASSIFICATIONS		8/20/17		DOCUMENT NUMBER SFA-ENG-01-R8	
		STATUS APPROVED		REV		4		4		ADDED TIEBACK RING BRACE		6/9/18		REV 8	

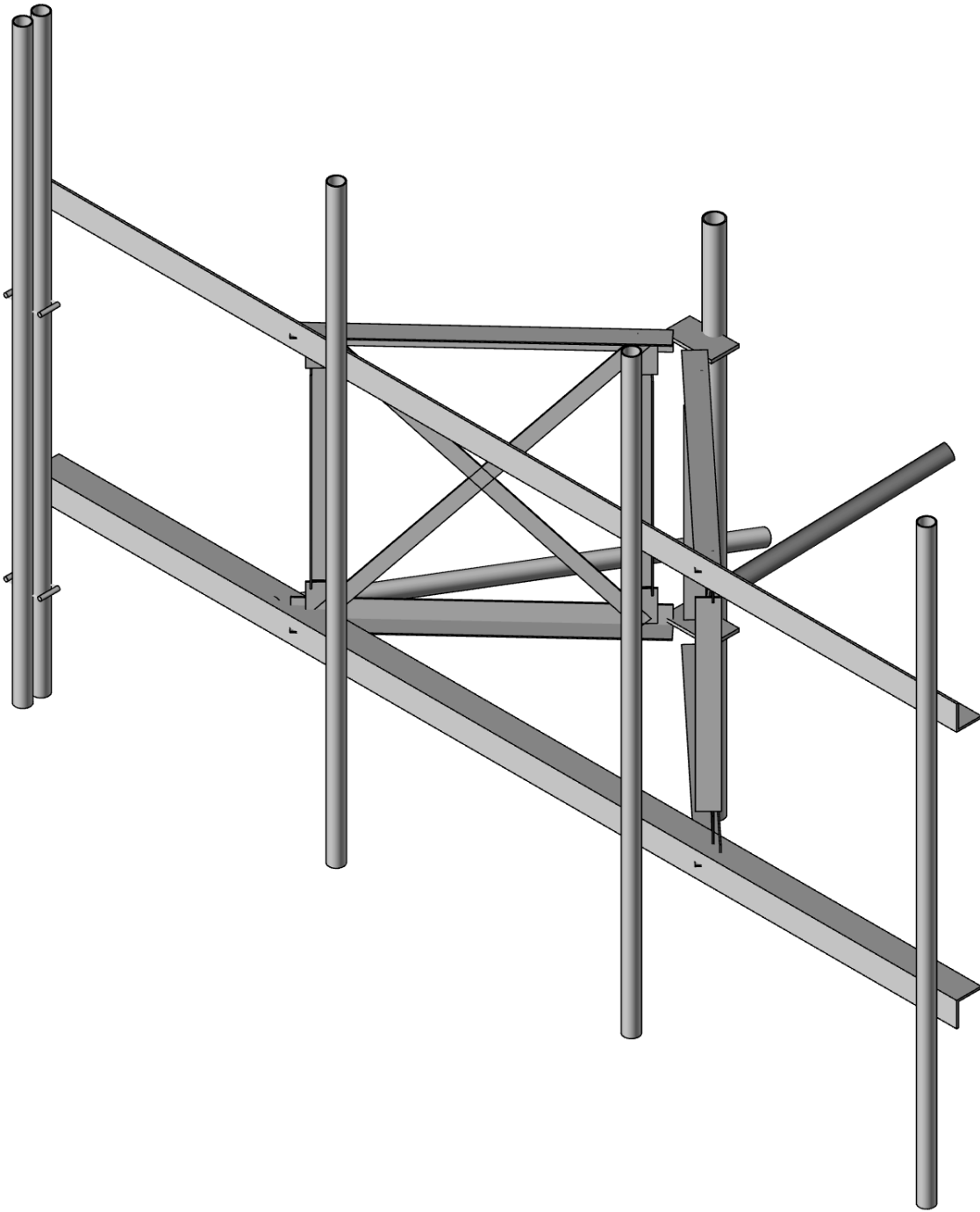
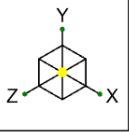
	Desktop Mount Mapping Form			
	Site Name:	Damen and Foster - A	Tower Type:	Other
	Site ID:	5000270666	Tower Owner:	Chicago Public School
	FUZE Project ID:	17333684	Tower Height (Ft.):	
	Customer:	Verizon Wireless	Mount Elevation (Ft.):	
	PJF Project No.	A24324-1517.001.5911	Date:	

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Document Type	Provided? (Yes/No)	Source Name	Project No.	Dated	Comments/Remarks
Previous Mount Analysis	Yes	Hutter Trankina	160238	0819/2021	Passing
Construction Drawings	Yes	Terra	124-1472	11/30/2021	
Closeout Photos	Yes	Verizon	-	8/19/2022	

The **desktop mount mapping** is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the Post Modification Inspection (PMI) process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR. The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.





Envelope Only Solution

 A NEMETSCHEK COMPANY	Paul J. Ford	5000270666-VZW_MT_LOT_SectorA_H	SK-1
	MTB		Apr 30, 2025 at 11:01 AM
	Project No. 10274519		5000270666-VZW_MT_LOT...