

INSTALLATION MANUAL FOR MANUALLY AJUSTABLE SYSTEM

- North-Pole Mount



Version	Description
V1.1	Increase flange size and precautions



0.1 OVERVIEW

North-Pole Mount is a distributed manual adjustable system independently developed by Maple Leaf Power Systems, with independent adjustment system for each row, which can realize independent adjustment for each row. The installation work and labor amount in this installation instruction manual are for reference only. Please do rev-evaluate based on the local labor situation. Please consult this installation instruction manual carefully before installing. When installing, please be aware of safety and work in accordance with relevant local safety regulations. The operators who will conduct the installation should follow the following rules:

- comply with all building codes, including any local or national building codes that may be used instead of this manual.

0.2 Installation Tool and Debugging Tool



M6/M8/M10/M12/M16/M18/M20
Outer hex wrench.



M6/M8/M10/M12/M16/M18/M20
Outer hex wrench.



M10/M12/M16/M18/M20
Electric Auto-wrench.



30in Monkey wrench.



plier.

0.3 Bill of Materials - Single row

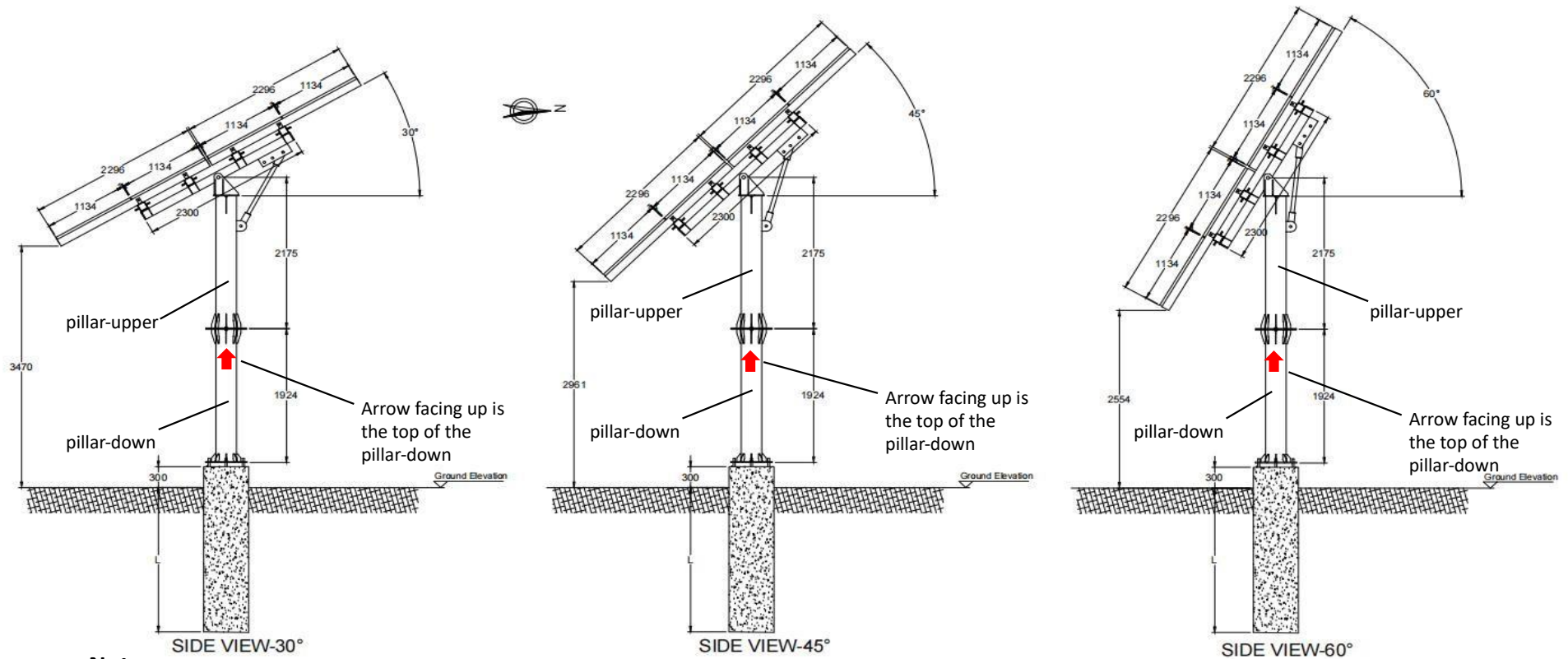
NO.	Pictures	Description	Unit	Single Row
1		Y273*6.5-ANC-Pillar-Down	PC	1
2		Y273*6.5-ANC-Pillar-Upper	PC	1
3		F100*100*2.50-L1895-Cross Beam	PC	8
4		F120*120*4.00-Main Beam	PC	1
5		Cross Beam Connector D100*T6-L700	PC	8
6		Purlin Support L80x50-T8-C110	PC	16
7		C110*50*25*2.00-L2296-Purlin	PC	8
8		Diagonal Bracing-50*50*3.0	PC	1
9		Cross Beam Stiffener	PC	16

NO.	Pictures	Description	Unit	Single Row
10		Hex Bolt Assy. M8*20+FW+LW+SW+NUT	Set	32
11		Hex Bolt Assy. M12*40+2LW+SW+NUT	Set	16
12		Hex Bolt Assy. M12*160+2FW+SW+2NUT	Set	16
13		Hex Bolt Assy. M12*160+2LW+SW+2NUT	Set	64
14		Hex Bolt Assy. M16*70+2FW+SW+2NUT	Set	64
15		Hex Bolt Assy. M18*80+2LW+SW+2NUT	Set	8
16		Hex Bolt Assy. M24*100+NUT+PIN	Set	2
17		Hex Bolt Assy. M36*200+NUT+PIN	Set	1

0.3 Bill of Materials - Single row

Model	Pre-tightening torque
M6	8-11N.m
M8	14-17N.m
M10	30-40N.m
M12	70-85N.m/50-60N.m
M16	180-210N.m
M18	240-290N.m
M20	330-370N.m

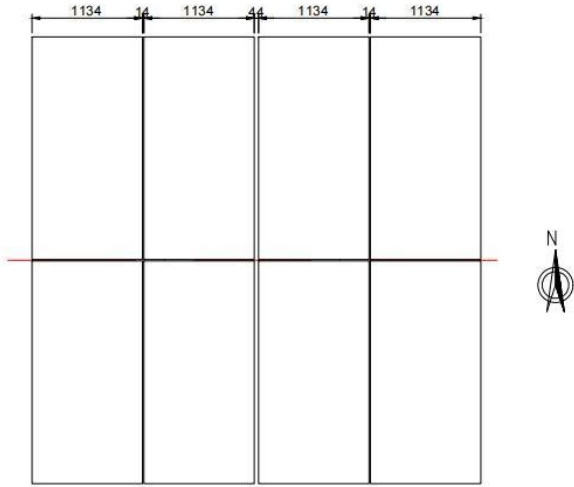
1. Overview diagram of Manually Adjustable System



Note:

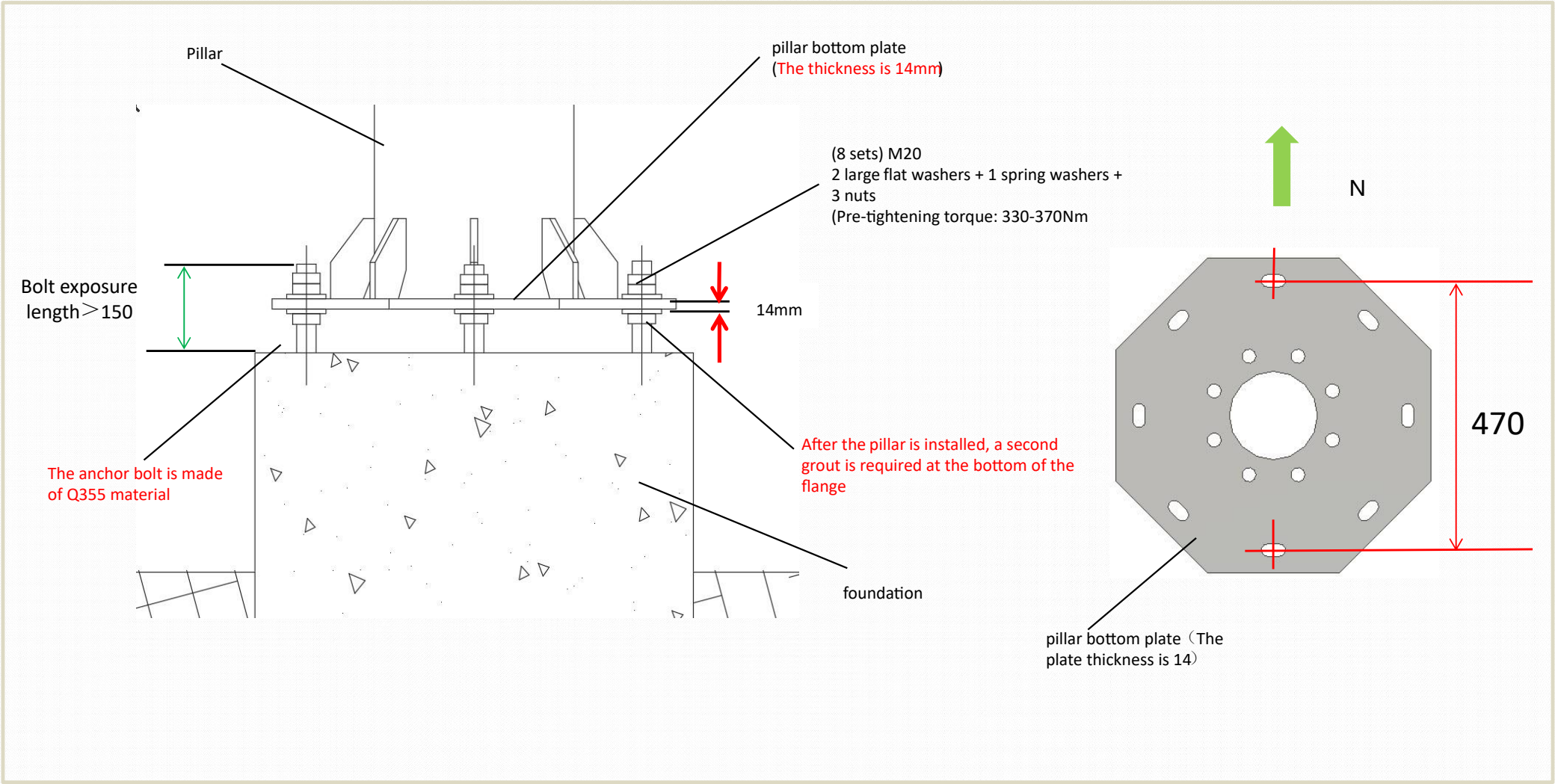
1. See engineering drawings for detailed drawings
2. The arrow direction of the pillar-down must face up (The bottom flange is thicker than the top flange)
3. The bottom flange of the pillar-down is thicker than the top flange

1. Overview diagram of Manually Ajustable System



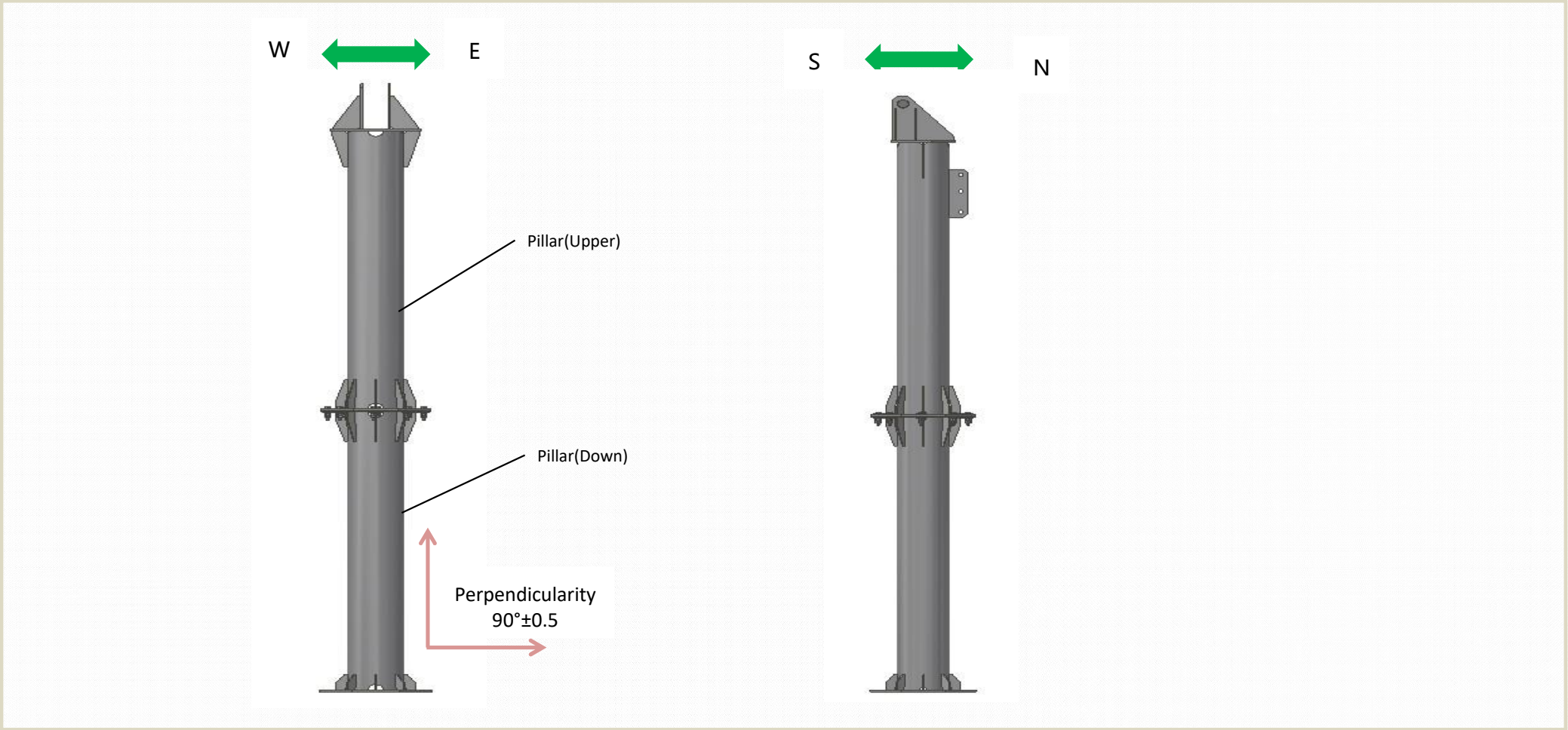
KSA-2X4 PLAN VIEW

2. Foundation Pillar Installation



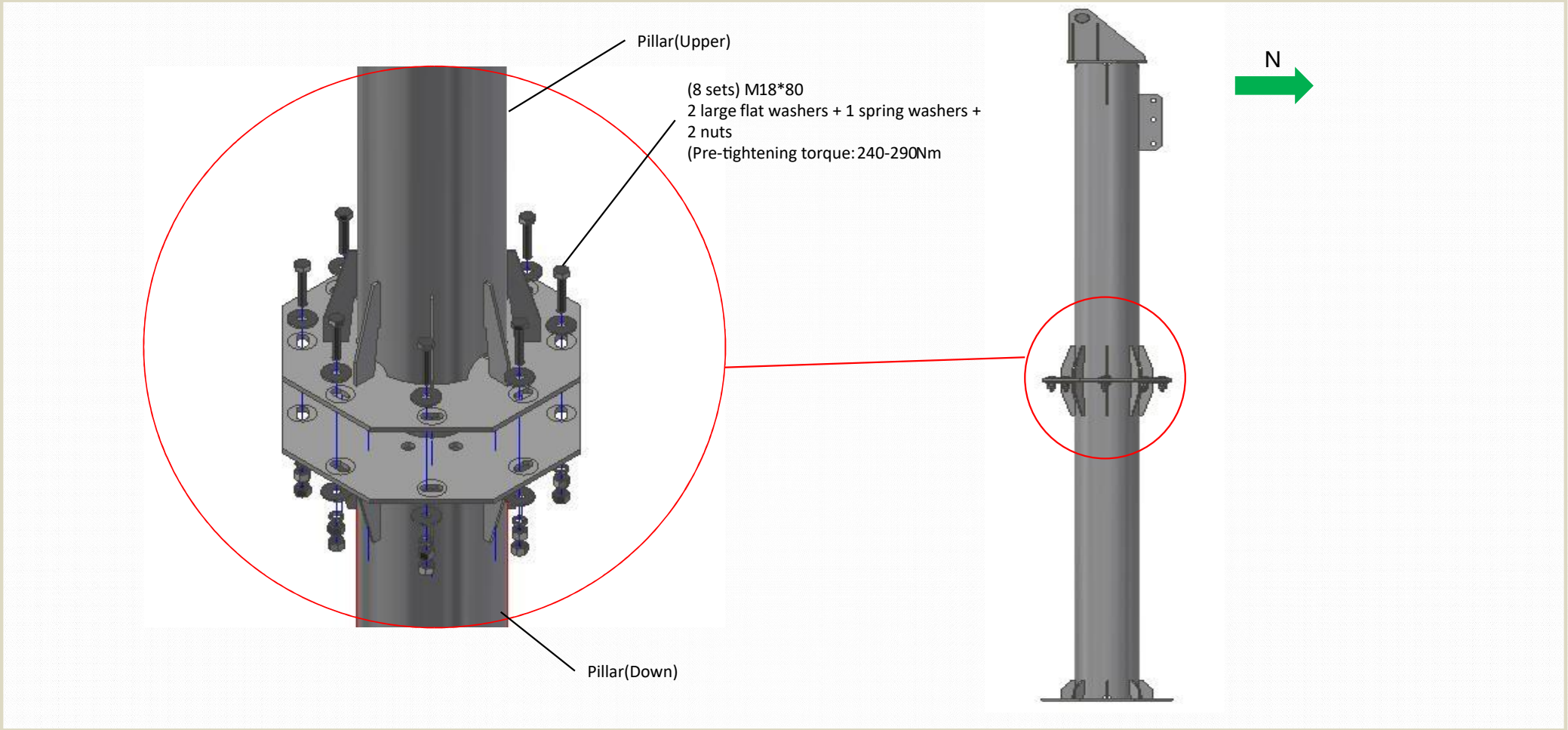
3. Pillar Installation

1) Pillar installation position

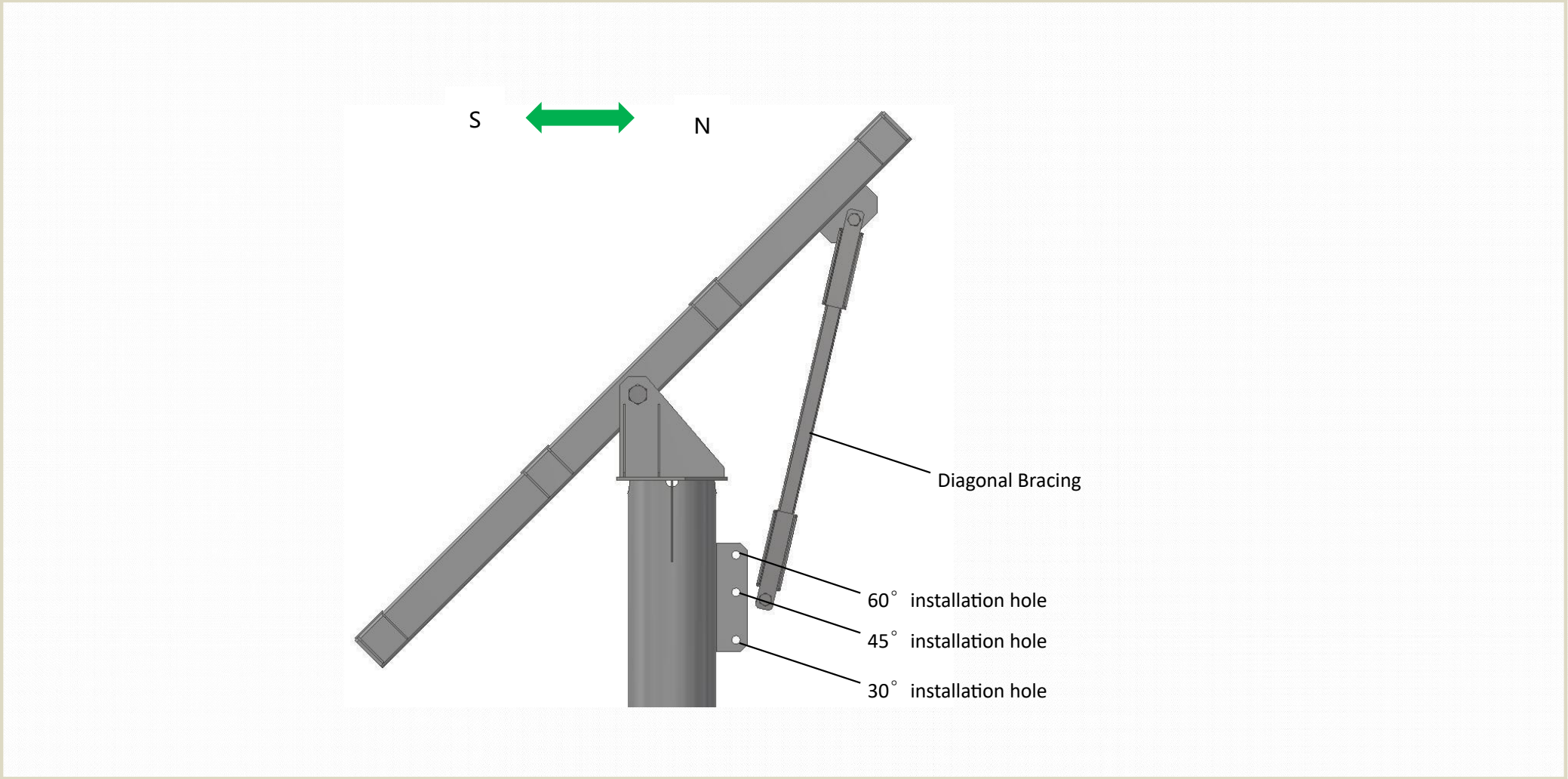


3. Grouting pile foundation

2) Pillar(Upper) and pillar(Down) connection

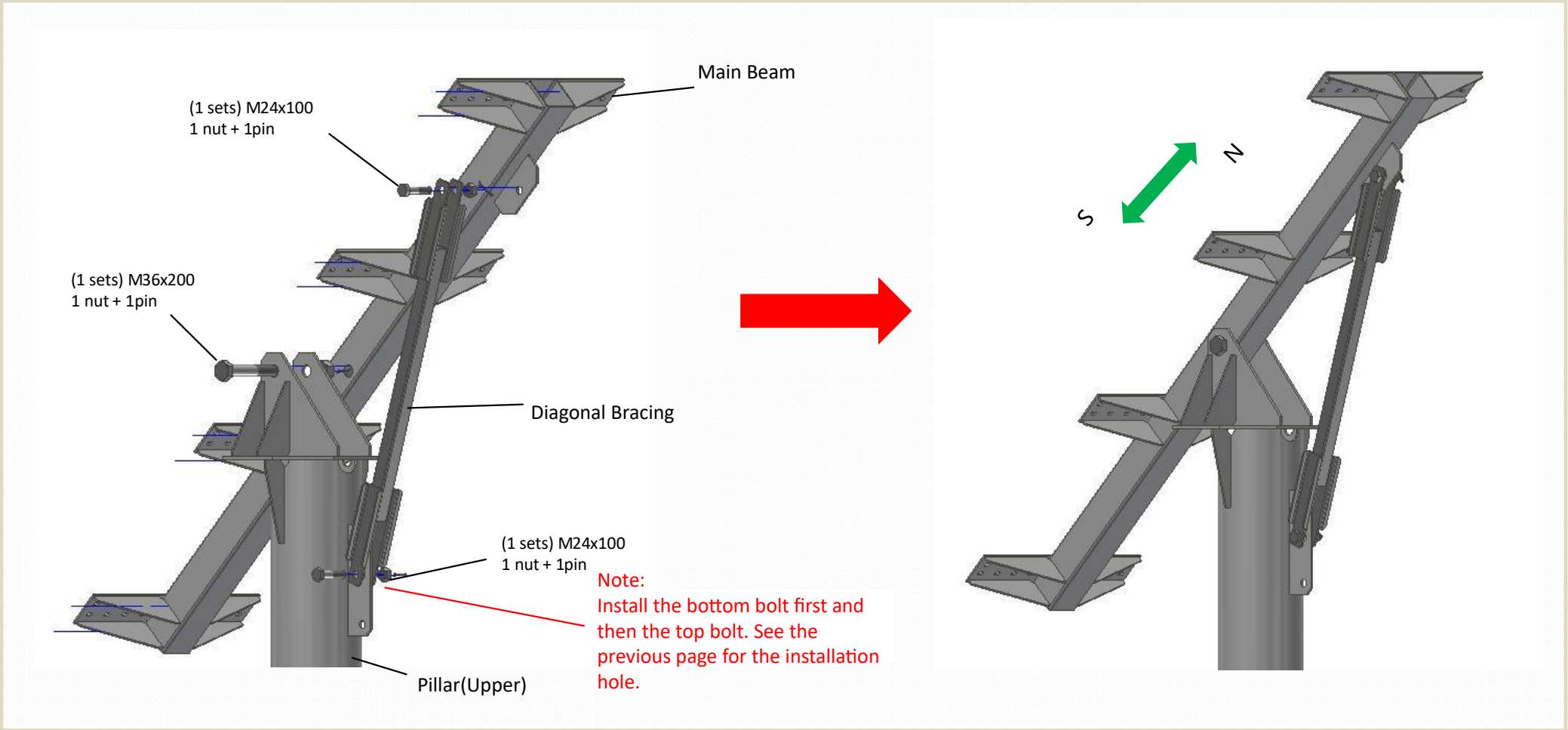


4. Main Structure Installation



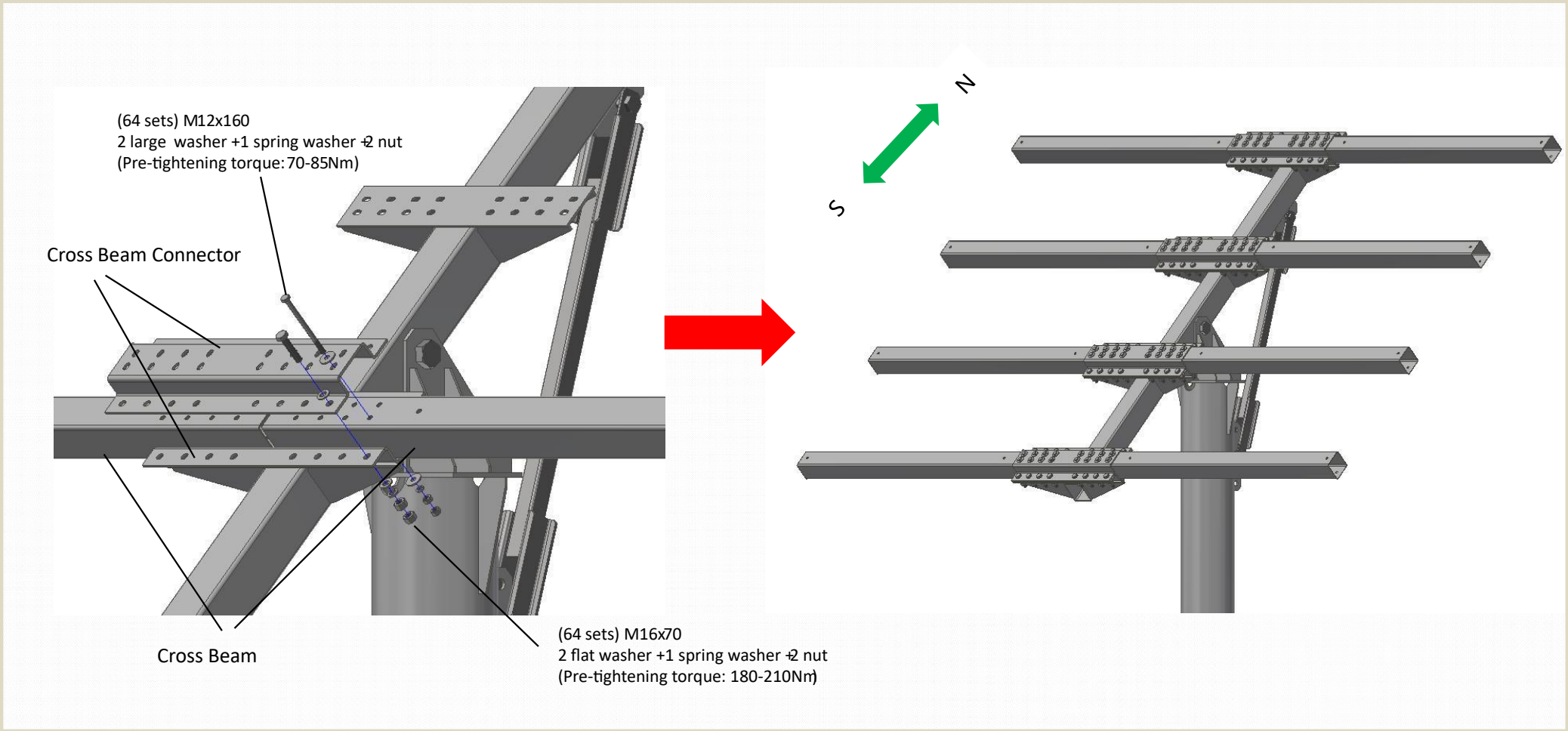
4. Main Structure Installation

1) Diagonal Bracing and Main Beam Installation

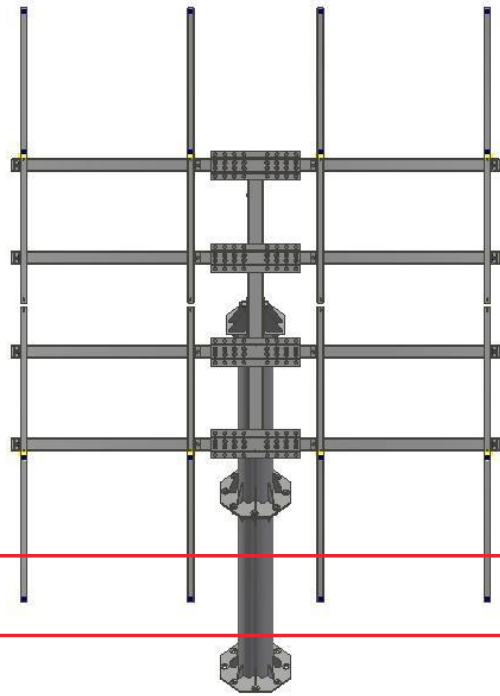


4. Main Structure Installation

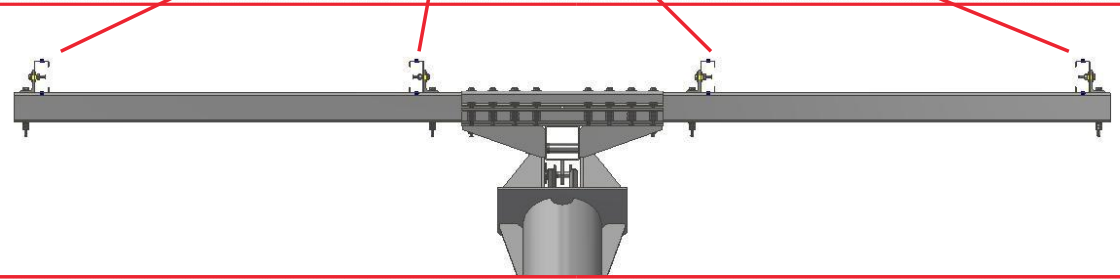
2) Cross Beam and Cross Beam Connector Installation



4. Main Structure Installation

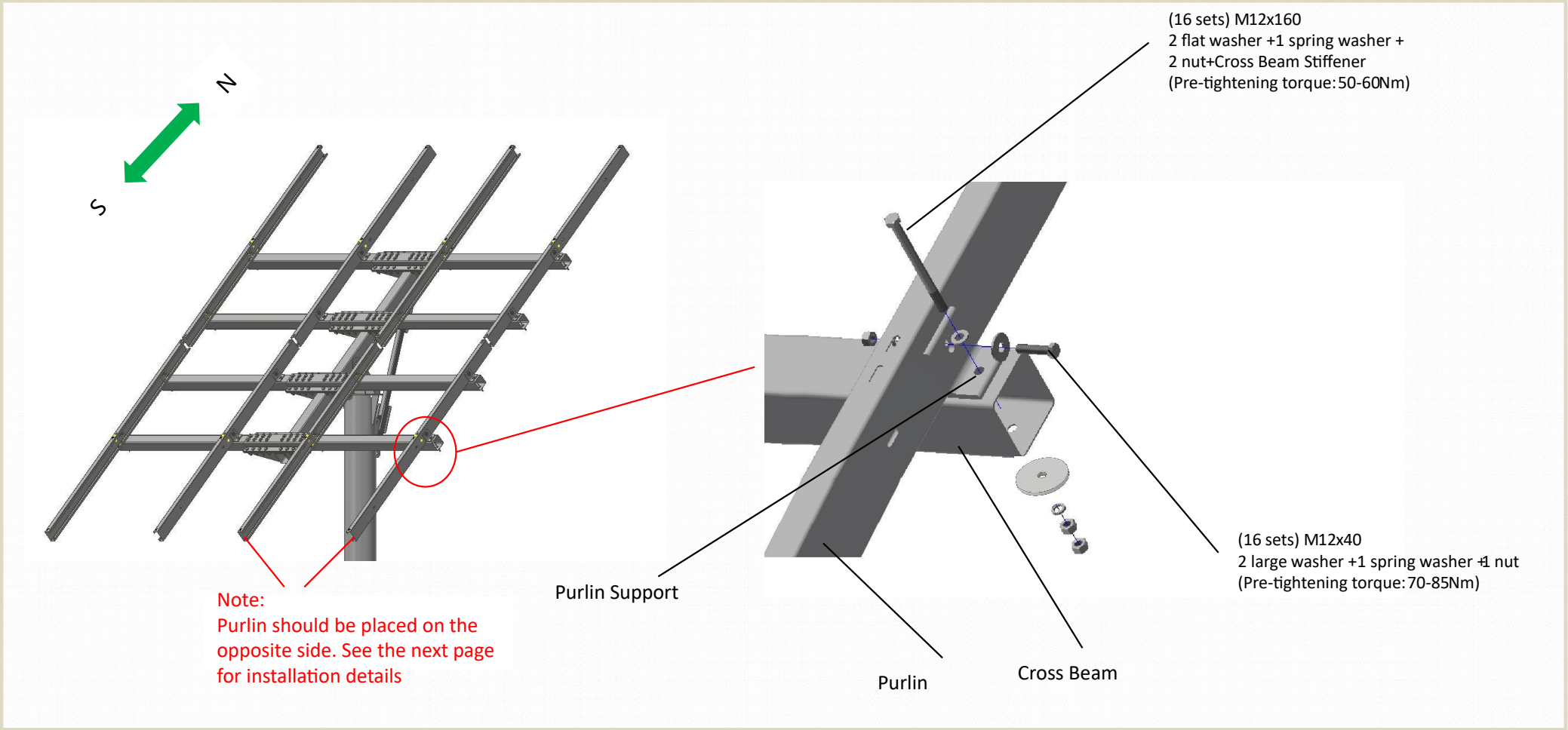


Note:
Purlin should be placed on the
opposite side. Otherwise, PV
modules cannot be installed.

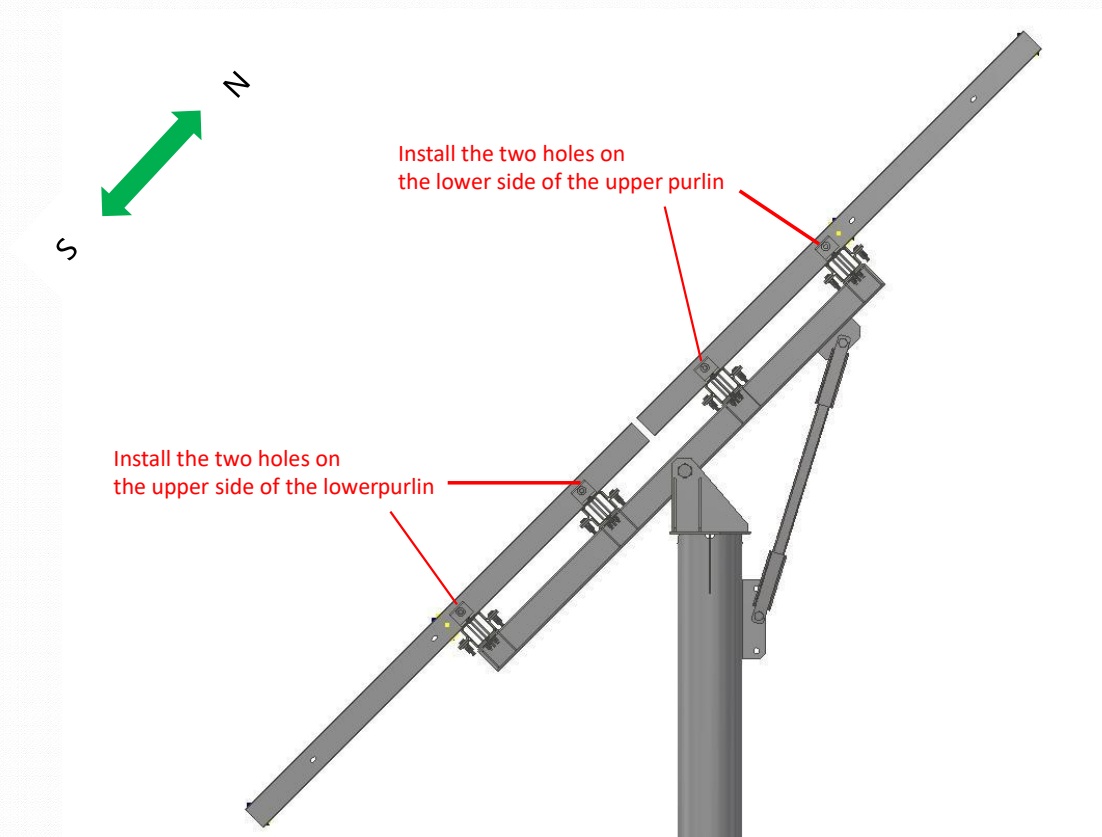


4. Main Structure Installation

3) Purlin Installation

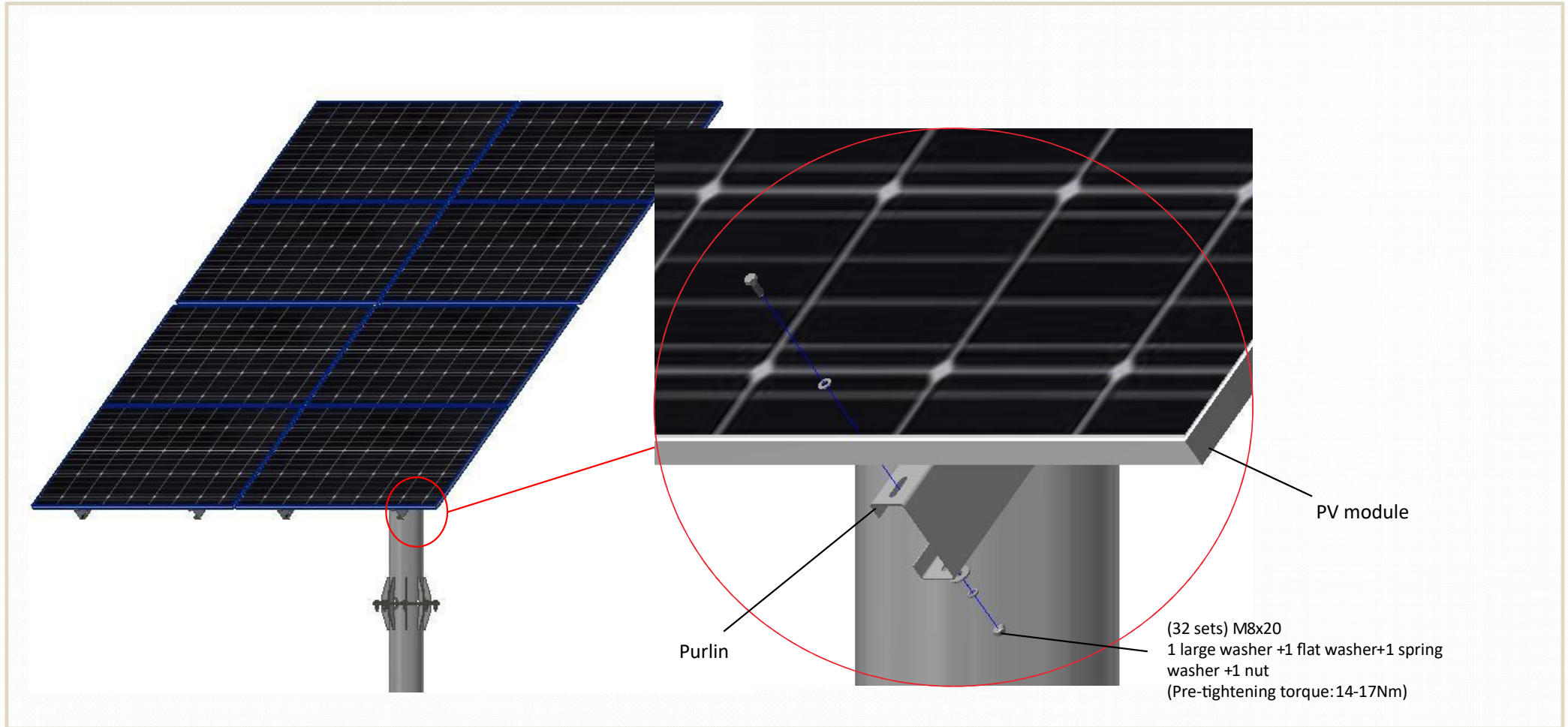


4. Main Structure Installation



4. Main Structure Installation

4) PV Module Installation



5. Pillar grounding

