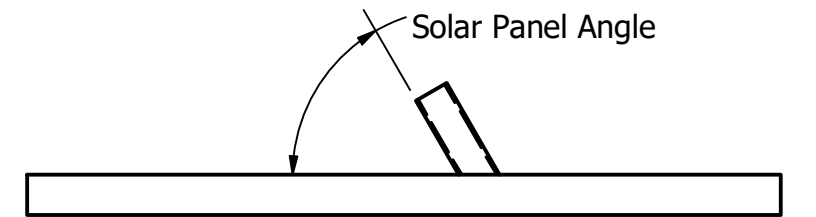
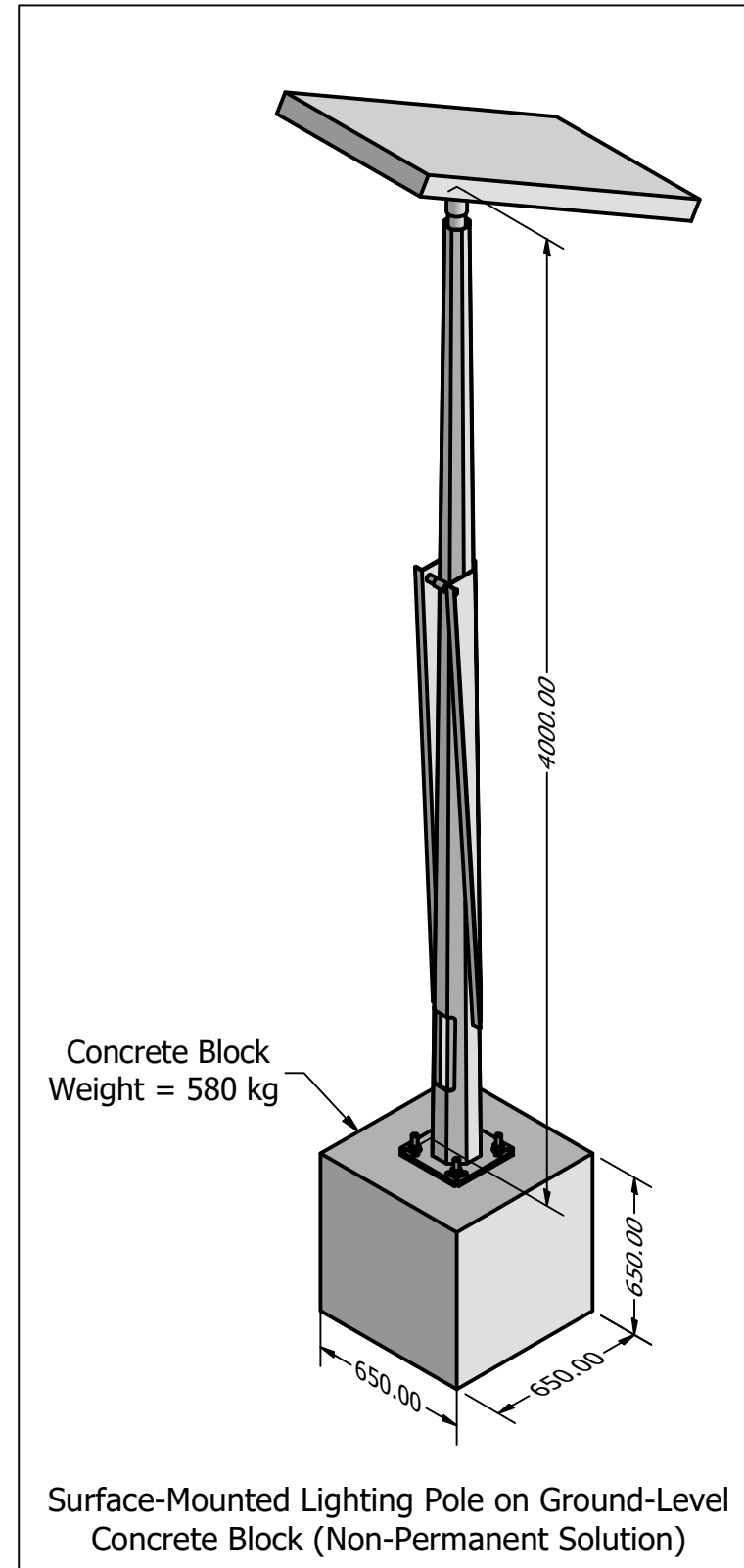
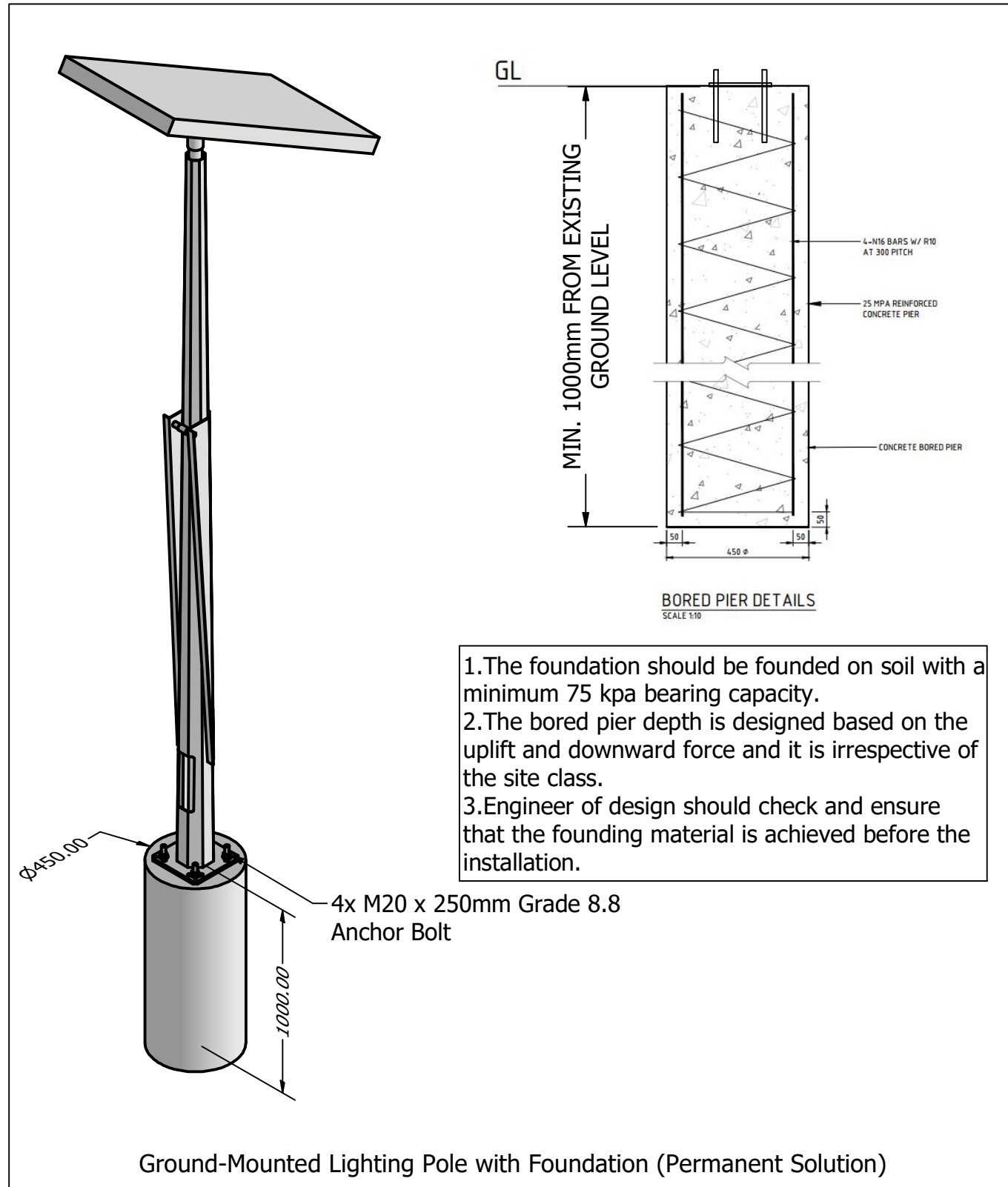


AS 1170.2 - CERTIFICATION FOR 4m HINGED LIGHT POLE

SAFE WIND VELOCITY: 26 m/s

Wind Velocity Region: N2 Region for maximum of 25° Angle of Solar Panel and N1 Region for maximum 30° Angle of Solar Panel



SSL-B60MC Solar Panel Representation
 Size - 1496mm x 685mm
 SCALE 1/15

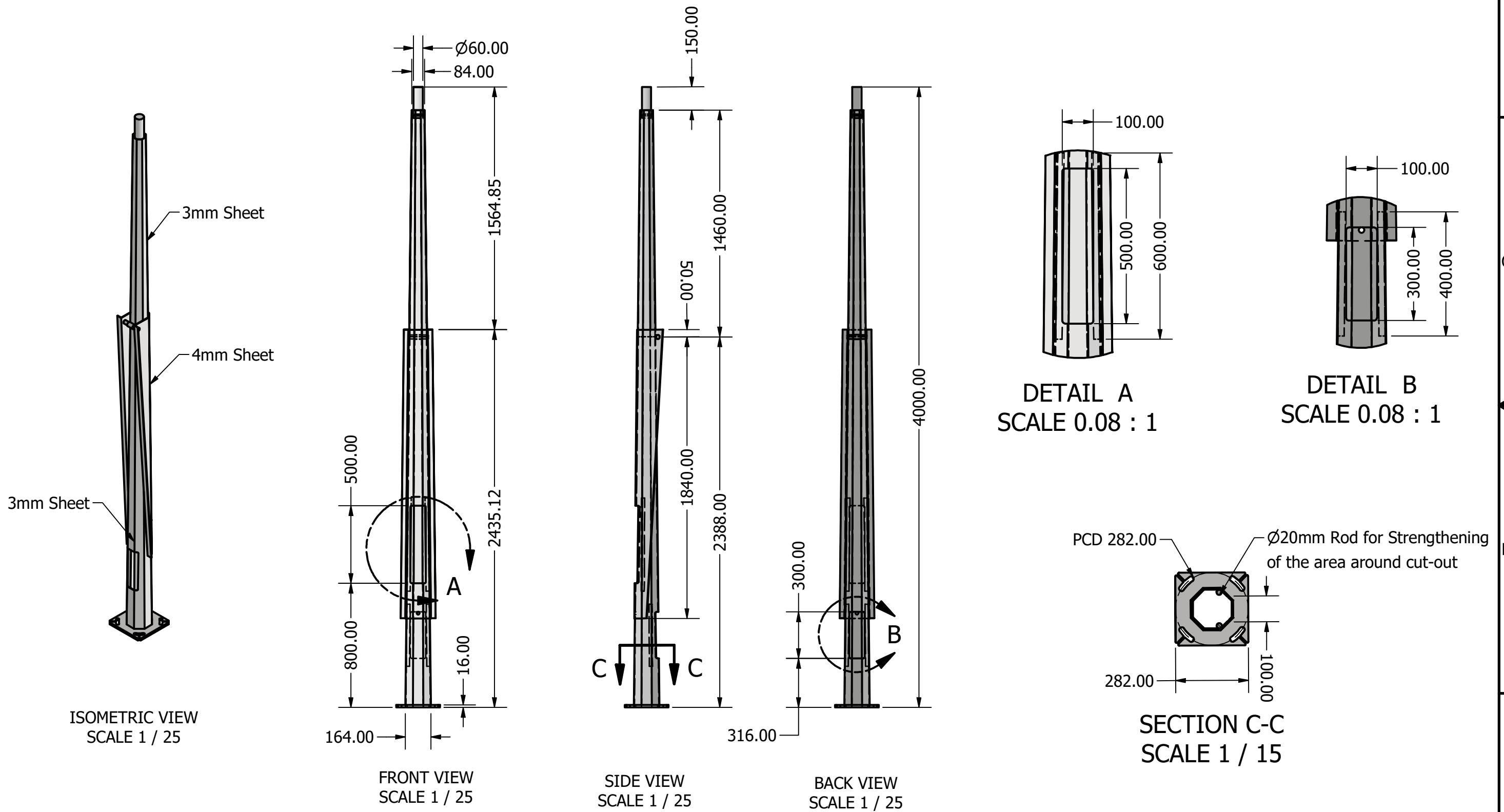
| Safe Wind Speeds for Varying Solar Panel Angles | |
|---|---------------------------|
| Solar Panel Angle | Safe Wind Velocity (kmph) |
| upto 25° | 93.6 (N2 Region) |
| 25° to 30° | 93.6 (N1 Region) |
| 30° to 35° | 65 |
| 35° to 45° | 60 |
| 45° to 60° | 55 |

| REVISION | DATE | REVISED BY | DRAWN | APPROVED | OWNED BY | DESCRIPTION | SHEET TITLE | CREATED BY |
|----------|------------|------------|--------------------|-----------------|----------|----------------------|--|-------------------------------|
| A | 29/08/2024 | MD | V.K | N.S. | | 4m Hinged Light Pole | 4m Hinged Light Pole Wind Rating Certification | www.csaengineering.com.au |
| | | | V.K | RPEQ No.: 23862 | | | | |
| | | | SHEET No.: 32123_1 | | | | | |
| | | | | | | | | |

AS 1170.2 - CERTIFICATION FOR 4m HINGED LIGHT POLE

SAFE WIND VELOCITY: 26 m/s

Wind Velocity Region: N2 Region for maximum of 25° Angle of Solar Panel and N1 Region for maximum 30° Angle of Solar Panel

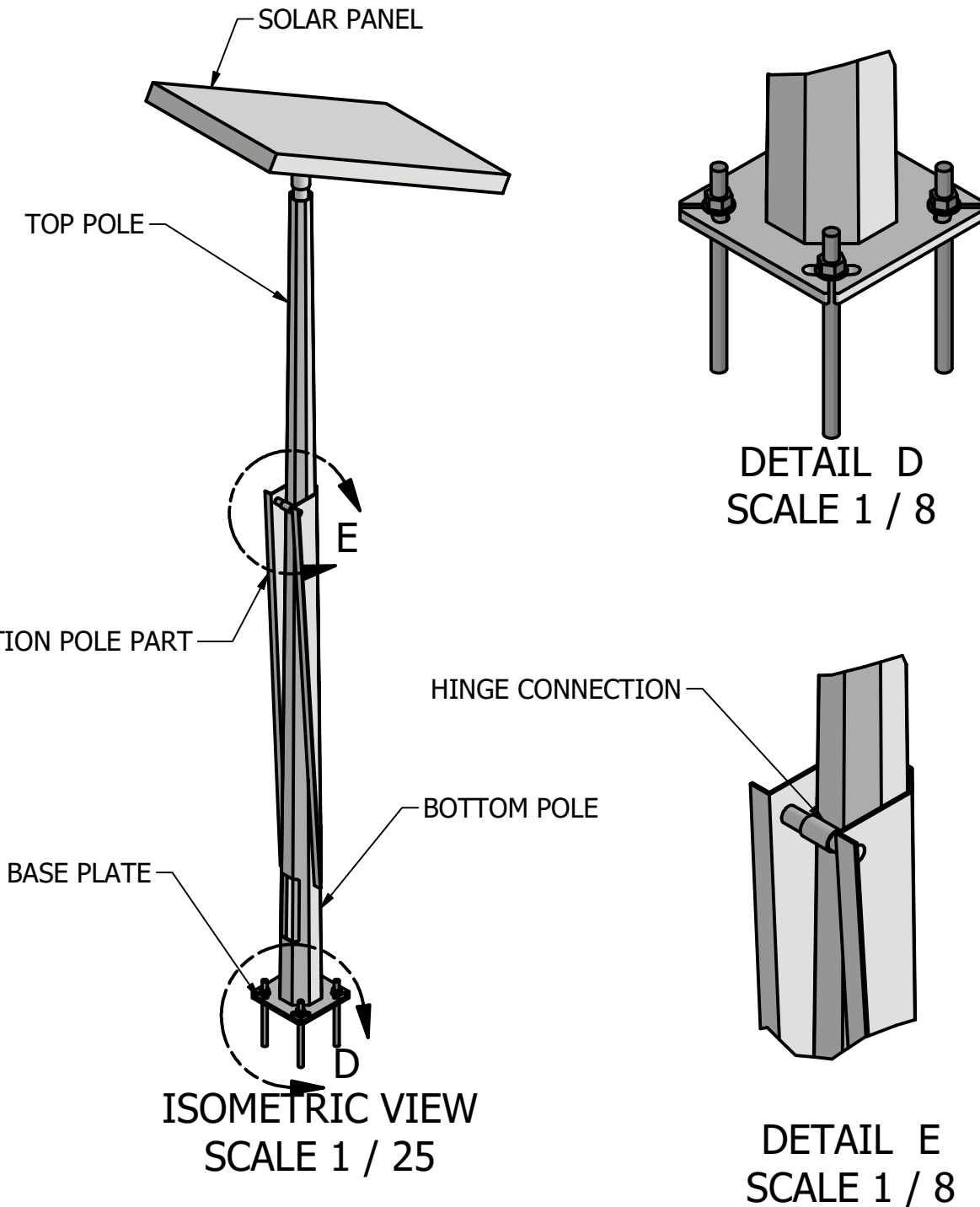


| REVISION | DATE | REVISED BY | DRAWN | APPROVED | OWNED BY | DESCRIPTION | SHEET TITLE | CREATED BY |
|----------|------------|------------|--------------------|-----------------|---|----------------------|--|---|
| A | 29/08/2024 | MD | V.K | N.S. |  | 4m Hinged Light Pole | 4m Hinged Light Pole Wind Rating Certification |  www.csaengineering.com.au |
| | | | V.K | RPEQ No.: 23862 | | | | |
| | | | SHEET No.: 32123_2 | | | | | |
| | | | | | | | | |

AS 1170.2 - CERTIFICATION FOR 4m HINGED LIGHT POLE

SAFE WIND VELOCITY: 26 m/s

Wind Velocity Region: N2 Region for maximum of 25° Angle of Solar Panel and N1 Region for maximum 30° Angle of Solar Panel



| SPECIFICATIONS | | | | |
|------------------------|----------|--------------|-----|------------------|
| PART NAME | MATERIAL | TOTAL LENGTH | QTY | WEIGHT IN KG/QTY |
| TOP POLE | Q 355 | 2390 | 1 | 10.9 |
| BOTTOM POLE | Q 355 | 1460 | 1 | 25.36 |
| INTERSECTION POLE PART | Q 355 | 1890 | 1 | 23.39 |
| BOTTOM PLATE | Q 355 | 282 | 1 | 6.32 |

SAFETY INSTRUCTIONS:

- BEFORE INSTALLATION, ASSESS THE SITE FOR ANY POTENTIAL HAZARDS, SUCH AS OVERHEAD POWER LINES, UNSTABLE GROUND, OR NEARBY STRUCTURES. ENSURE THAT THE SITE IS SUITABLE FOR THE POLE'S HEIGHT AND DESIGN.
- ENSURE THE BASE PLATE IS SECURELY ANCHORED INTO THE FOUNDATION. USE BOLTS AND NUTS SPECIFIED BY THE DESIGN, AND TIGHTEN THEM TO THE RECOMMENDED TORQUE SETTINGS. THE FOUNDATION MUST BE LEVEL AND STABLE TO AVOID TILTING OR UNEVEN STRESS DISTRIBUTION.
- THE HINGE MECHANISM MUST BE ROBUST AND DESIGNED TO PREVENT FAILURE UNDER THE APPLIED LOADS. IT SHOULD ALLOW SAFE AND EASY LOWERING AND RAISING OF THE POLE WITHOUT EXCESSIVE PLAY OR DEFORMATION.
- PERSONAL ITEMS AND OTHER EQUIPMENT ARE NOT ALLOWED IN THE FALL ZONE.
- THE POLE IS DESIGNED TO WITHSTAND A WIND VELOCITY OF UP TO 26 m/s (93.6 km/hr) AS PER AS 4055 AND AS 1170.2 FOR THE N1 AND N2 REGION. DO NOT INSTALL THE POLE IN AREAS WHERE HIGHER WIND SPEEDS ARE EXPECTED UNLESS FURTHER ANALYSIS AND REINFORCEMENT ARE PERFORMED.
- SAFETY PRECAUTIONS MUST BE IMPLEMENTED BY THE INSPECTOR FOR SPEEDS EXCEEDING 93.6 km/hr.
- AFTER RAISING THE POLE, ENSURE THE LOCKING MECHANISM IS SECURELY ENGAGED TO PREVENT THE POLE FROM ACCIDENTALLY LOWERING, ESPECIALLY UNDER WINDY CONDITIONS.
- PERFORM REGULAR INSPECTIONS OF THE POLE, HINGE MECHANISM, AND BASE PLATE FOR SIGNS OF CORROSION, WEAR, OR DAMAGE. CHECK FOR ANY LOOSE BOLTS OR OTHER COMPONENTS THAT MAY HAVE BEEN AFFECTED BY WIND OR ENVIRONMENTAL CONDITIONS.
- WHEN THE POLE IS BEING LOWERED OR RAISED, KEEP NON-ESSENTIAL PERSONNEL AND BYSTANDERS OUT OF THE AREA TO PREVENT ACCIDENTS.
- INSTALL AN IDENTIFICATION PLATE ON THE POLE THAT INCLUDES THE MODEL NUMBER, WIND RATING, MANUFACTURER'S DETAILS, INSTALLATION DATE, SIZE, AND ANY OTHER RELEVANT SPECIFICATIONS FOR IDENTIFICATION AND COMPLIANCE.

| REVISION | DATE | REVISED BY | DRAWN | APPROVED | OWNED BY | DESCRIPTION | SHEET TITLE | CREATED BY |
|----------|------------|------------|--------------------|-----------------|---|----------------------|--|--|
| A | 29/08/2024 | MD | V.K | N.S. |  | 4m Hinged Light Pole | 4m Hinged Light Pole Wind Rating Certification |  www.csaengineering.com.au |
| | | | V.K | RPEQ No.: 23862 | | | | |
| | | | SHEET No.: 32123_3 | | | | | |