

## Generic Structural Design Certificate LEVELMASTER – Rod Bracing Set

01/09/2024

To whom it may concern,

We, **PEER Consulting Engineers** certify that we have designed and reviewed the LevelMaster Rod Bracing Set as detailed on the listed drawing below, and they have been designed in accordance with widely accepted engineering principles and the referenced codes of practice. This certificate is limited to the structural design only and no responsibility is taken for any loss, damage or failure resulting from the method of construction or wind exceeding the design wind rating nominated.

### Referenced Codes of Practice and Manuals:

NCC 2022 Building Code of Australia  
AS 1170.0 2002 Structural design action – General principals  
AS 1170.1 2002 Permanent, Imposed and Other Actions  
AS 1170.2 2021 Structural Design Actions – Wind Actions  
AS 4100 2020 Steel Structures

### Referenced Design Documents:

PEER Consulting Engineers Pty Ltd – Drawing Set PCE2247.2 – Rev 1, AUG 2024

PEER Consulting Engineers maintains indemnity insurance concordant with the scope of the undertaken works to the satisfaction of its Client; however, our involvement in this shall in no way be construed of relieving other parties of their legal obligations.

If you require any further information, please do not hesitate to contact us at any time.

Sincerely,



### **Mengting (Nike) Zhao**

B.Eng (1<sup>ST</sup> Class Hons.) MIEAust, RPEQ, RPEng  
Director/  
Principal Civil and Structural Engineer

**\*This certificate expires on 30/04/2025.**

# BRACING NOTES

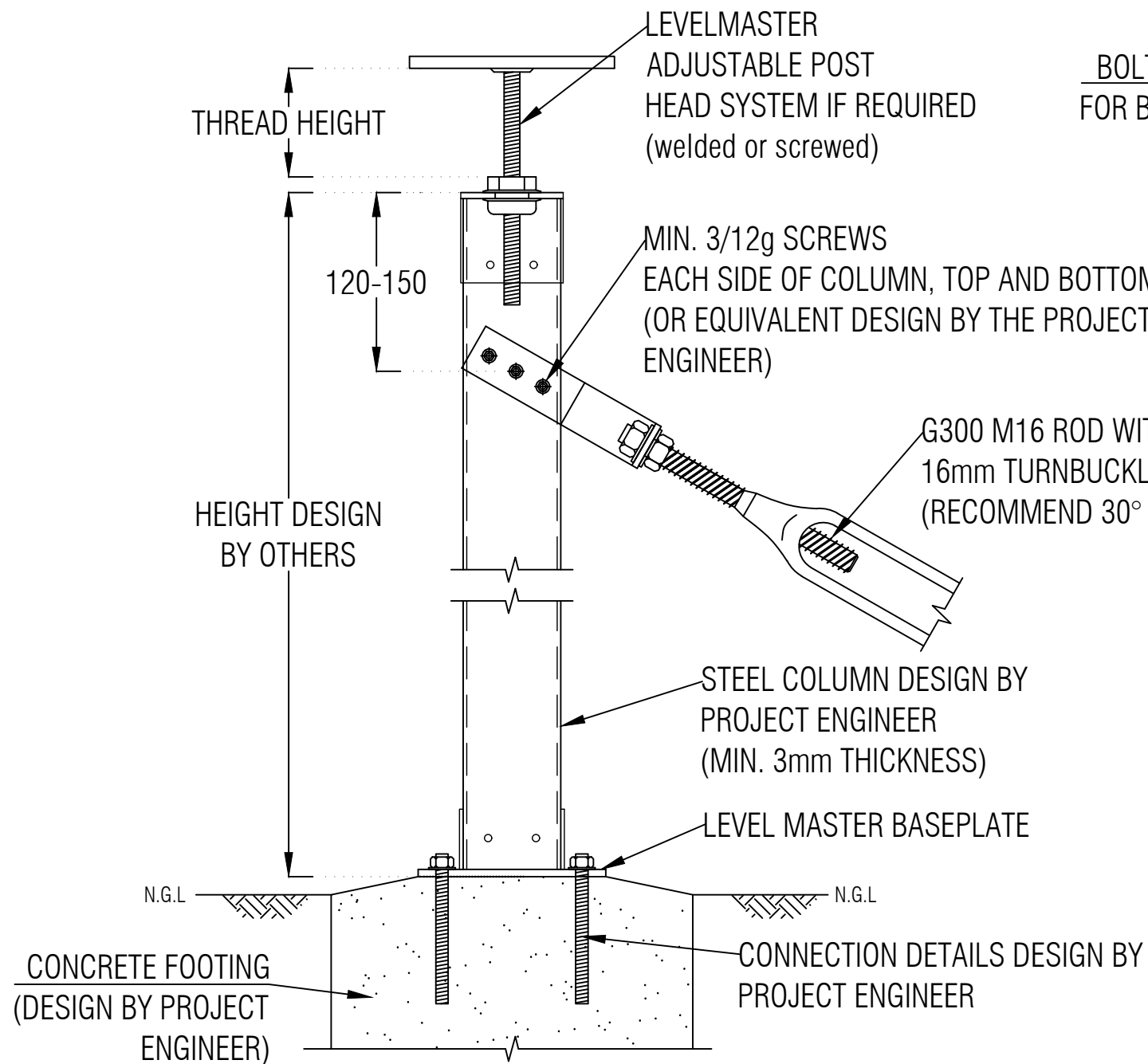
- 1 THREAD HEIGHT MEASURED FROM TOP OF NUT TO UNDERSIDE OF FIXING TOP PLATE.
- 2 CAST IN COLUMNS IS ACCEPTABLE. THE CAST IN DETAILS TO BE CONFIRMED AND DESIGNED BY THE PROJECT ENGINEER.
- 3 BRACING ANGLES IN EXCESS OF 45° MAY REQUIRE ADDITIONAL HORIZONTAL BRACING. THIS IS TO BE DESIGNED BY THE PROJECT ENGINEER.
- 4 BRACING MAY BE FIXED TO BEARERS. THIS IS TO BE DESIGNED BY THE PROJECT ENGINEER TO SUIT THE BEARER BEING USED.
- 5 THE BRACING ROD AND NOTES COVERED IN THIS DRAWING ARE DESIGNED FOR RESIDENTIAL USE ONLY.

## NOTE 1

THE M16 BRACING ROD (WITH TURNBUCKLE) ASSEMBLY TENSION CAPACITY = 25kN.\*  
PROJECT ENGINEER TO CONFIRM THE FINAL BRACING CAPACITY DEPENDING ON THE HEIGHT AND SPAN.

ALL SCREWS TO BE (MIN. OR EQUIVALENT TO) CLASS 4 - 12g (24TPI) REFERRING ICCONS PTY LTD.

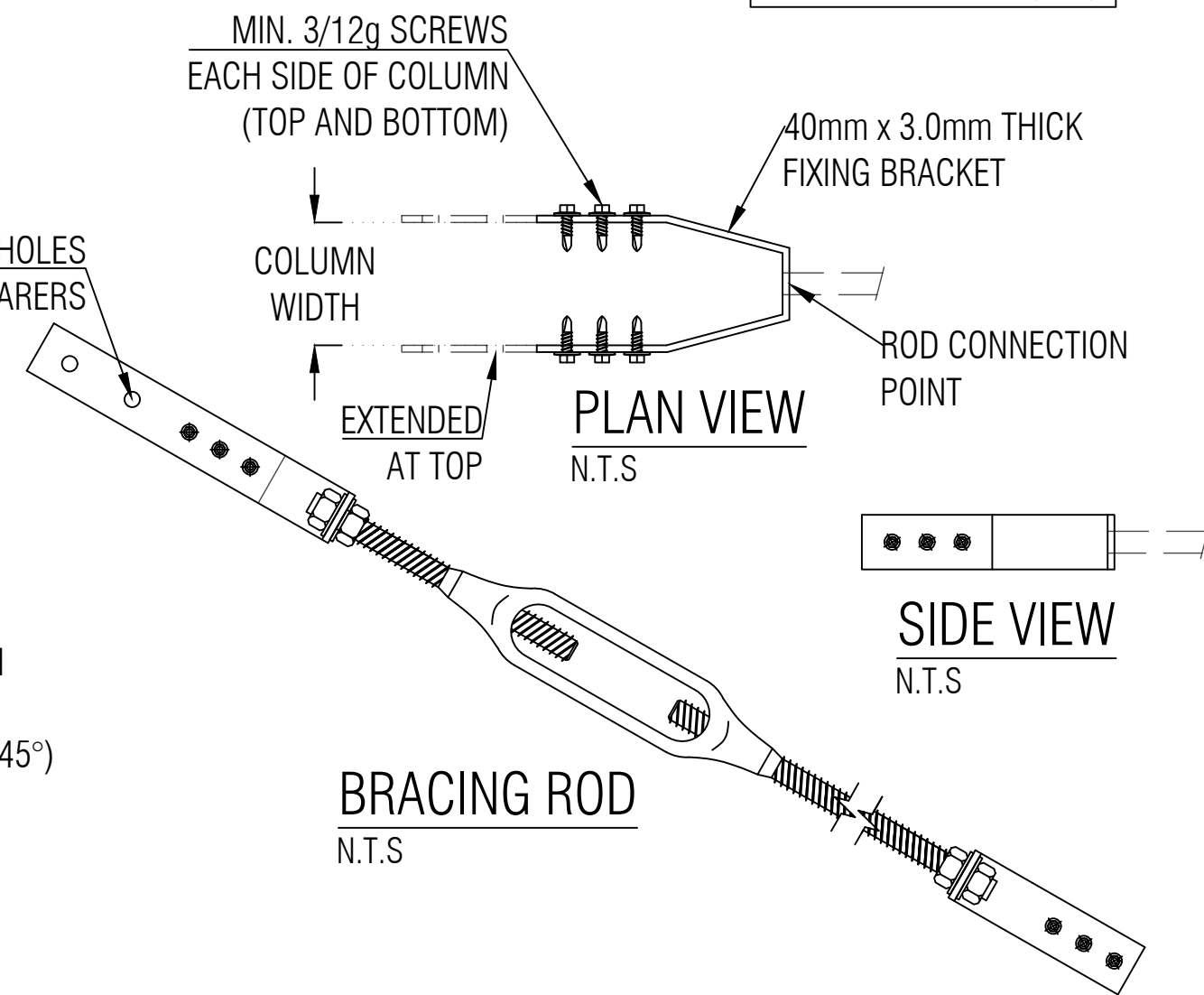
ALL STEEL TO BE MIN. G250 (U.N.O).



## TYPICAL BRACING SECTION

N.T.S

BOLT HOLES FOR BEARERS



## BRACING ROD

N.T.S

## NOTE 2

IF THE M16 BRACING ASSEMBLY TO BE USED WITH LEVELMASTER ADJUSTABLE POST HEAD SYSTEMS, THE TOTAL RACKING CAPACITIES COULD BE DOMINATED BY THE LATERAL CAPACITY OF THE POST HEAD COMPONENTS. REFER TO LEVEL MASTER HOUSE STUMPS - TOP PLATES FOR FURTHER DETAILS.

## NOTE 3

THE MAXIMUM DESIGN LATERAL LOAD ACCORDING TO BRACING TENSION CAPACITY UNDER TYPICAL BRACING ANGLES. (FOR REFERENCE)

MAX. LATERAL LOAD WITH M16 BRACING ROD (ASSEMBLY WITH TURNBUCKLE)

BRACING ANGLE (°)	MAX. LATERAL LOAD (kN)
30	20.5
45	17.0

DO NOT SCALE FROM DRAWING  
ALL SCALES ARE AS SHOWN (A3)

\*BASED ON LABORATORY TESTS.

REV.	DESCRIPTION	DATE	INIT.
0	FOR CERTIFICATION	MAY2024	-
1	FOR CERTIFICATION	AUG2024	-

**PEER Consulting Engineers**  
Professional Engineers Queensland  
www.pearce.com.au  
info@pearce.com.au  
4B/2404 LOGAN RD,  
EIGHT MILE PLAINS QLD 4113

**LevelMaster**  
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS  
CONTACT DETAILS  
WEB www.levelmaster.com.au  
PHONE 1300 538 356  
EMAIL info@levelmaster.com.au

PROJECT  
**TYPICAL ROD BRACING SET**

TITLE  
**ROD BRACING CONNECTIONS**

DRAWN	DESIGNED	DATE
-	-	MAY 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.	REV.	
PCE2247-2 - S01	1	