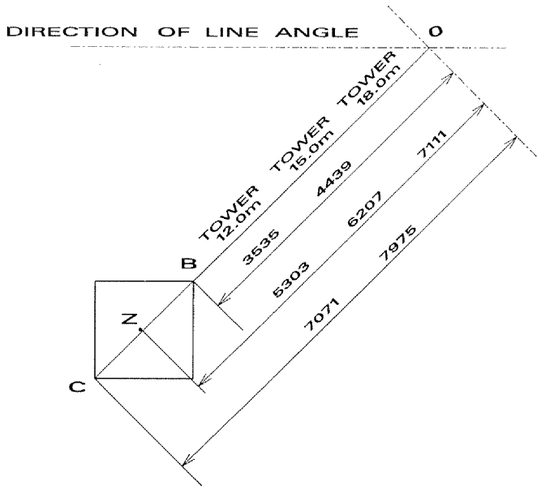
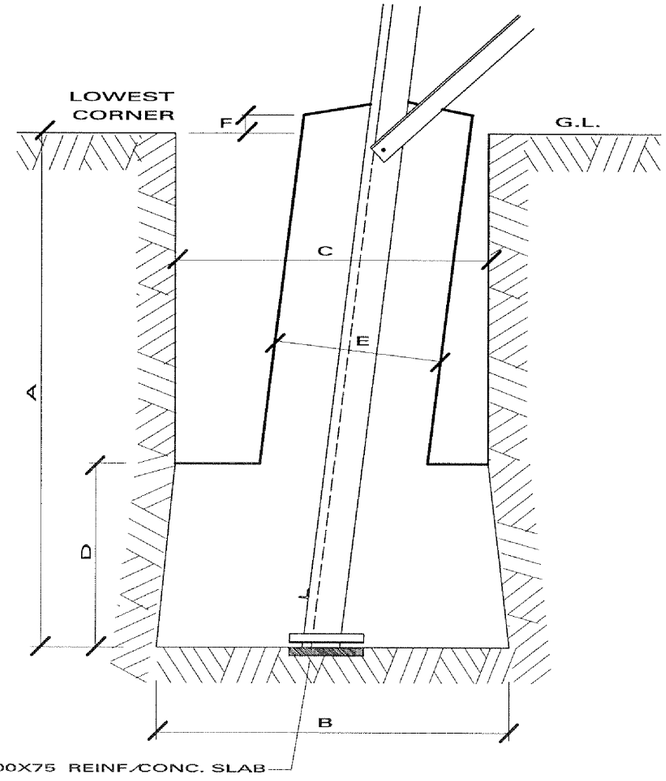
P E G G I N G





TOWER 12.0m	TOWER 15.0m	TOWER 18.0m
OZ = 5303	OZ = 6207	OZ = 7111

MAX. UPLIFT /LEG = 96,639 kgs.
MAX.COMPRESSION /LEG = 113,472 kgs.
SHEAR /LEG = 4347 kgs. TRANSV/3762 kgs. LONGITUD.

TABLE A

A	B	C	D	E	F	VOL. CONC / LEG
3.0	2.7	2.5	1.5	1.0	0.1	11.745

NOTES :

MAST PEGGING INCL
TOWER ERECTION ABB 21135A

CONCRETE TO BE IN ACCORDANCE WITH E.S.B.I. SPECIFICATION NO. PG406–S27 UNLESS OTHERWISE STATED AND SHOULD HAVE A MINIMUM CEMENT CONTENT OF 300 KGS/METRE^3

TEMPORARY STIFFENER DETAILS				
	12m	15m	18m	
HOLES C/C (mm)	3180	3830	4477	

INSTRUCTIONS

1. EXCAVATE ALL FOUR HOLES TO THE DIMENSIONS SHOWN IN TABLE A.

2. WITH A DUMPY LEVEL, CHECK THE RELATIVE LEVELS OF THE BOTTOMS OF THE HOLES AND ENSURE THAT THE SHALLOWEST HOLE IS AT DEPTH 'A' AS SHOWN IN THE TABLE.

3. USE THE MARKING OUT PEGS TO LOCATE THE EXACT CENTRE OF THE HOLE AND CONSTRUCT A REINF./CONC. SLAB AT LEAST 300 X 300 X 75mm - AGAIN CHECK RELATIVE LEVELS.

4. PRE-ASSEMBLE THE BACK AND FRONT OF THE BASE AND BOLT ON TEMPORARY TIE MEMBERS AS SHOWN ON THE RELEVANT DRAWING.

5. UNDERCUT THE BANKS AS SHOWN.

6. LOWER THE TWO PARTS OF THE BASE [SEE 4.] INTO THE HOLES AND ONTO THE CONCRETE SLABS. BOLT THE TWO PARTS TOGETHER AND FIX TEMPORARY TIE MEMBERS AT THE SIDES.

7. ADJUST THE MAST SO THAT THE DIAGONAL DISTANCES ON A HORIZONTAL PLANE ARE EQUAL. IF DIFFERENT LEG EXTENSIONS ARE IN USE READINGS SHOULD BE TAKEN DOWN FROM THE FIRST HORIZONTAL MEMBER AND SUITABLE MARKS PLACED ON THE LEGS AT EYE LEVEL - THIS WILL THEN DEFINE A MORE ACCESSIBLE HORIZONTAL PLANE.

8. WHEN THE DIAGONALS ARE EQUAL, LEVEL THE MAST USING SHIMS UNDER THE LEGS. THE READINGS SHOULD BE TAKEN AGAIN FROM THE FIRST MAIN HORIZONTAL MEMBER.

9. REPEAT 7 AND 8 UNTIL SATISFACTORY - THE DIFFERENCE BETWEEN THE HIGHEST AND LOWEST LEGS SHOULD NOT EXCEED 3mm AND THE DIFFERENCE IN DIAGONALS SHOULD NOT EXCEED 10mm AND FACE DIFFERENCE SHOULD NOT EXCEED 5Mmm.

10. FILL THE BOTTOM OF THE HOLE WITH CONCRETE AS SHOWN. (NOTE: EVERY CARE MUST BE TAKEN TO PREVENT SOIL FALLING INTO THE CONCRETE AND IF ANY DOES FALL IN IT MUST BE REMOVED). THE LEG OF THE MAST MUST BE CLEANED TO ENSURE A GOOD BOND BETWEEN CONCRETE AND STEEL. THE CONCRETE SHOULD BE WELL VIBRATED INTO THE SIDES OF THE BANK.

11. PLACE THE SPECIFIED FORMER FOR THE NECK AND FILL THE FORMER WITH CONCRETE. USE A MIXTURE OF SAND AND CEMENT TO FINISH OFF THE NECK. THE FORMER SHOULD BE LEFT IN SITU FOR AT LEAST 24 HOURS.

12. IN SOFT WET GROUND, WHERE UNDERCUTTING IS NOT FEASIBLE, REFER TO DRAWING NO. TC12295 FOR TYPE C FOUNDATION.

13. IN VERY UNSTABLE GROUND CONDITIONS, I.E. WITH GENERAL COLLAPSE OF BANKS, VERY STRONG WATER INFLOW, OR DEEP PEAT, PLEASE REFER TO ELECTRICAL POWER SYSTEMS, ESBI.

Rev.	Date	Revision description	Drn.	Prod.	Ver.	App.
0	27.07.20	ISSUED FOR SUBSTITUTE CONSENT	SB	SB	CM	HOK

Purpose of issue - Preliminary unless indicated

Client Approval ☐ Planning ☒ Tender ☐ Construction ☐ As-Built ☐

Energy for generations

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Engineering and Major Projects is a division of ESB.

Client: **Gort Windfarms Ltd.**

Project: **Derrybrien Wind Farm Project**

Contract:

Drawing title: **Foundation details for Type 61 steel tower Foundation type 'B'**

Production unit: **Civil & Environmental Engineering**

Drawn	Produced	Verified	Approved	Approval date
S. Bolton	S. Bolton	C.Moran	H.O'Keeffe	27.07.2020
Client ref.		No. of sheets: 1	Size: A3	Scale: n.t.s.

Drawing number: QS-000280-01-D460-023-010-000 SHEET REV

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