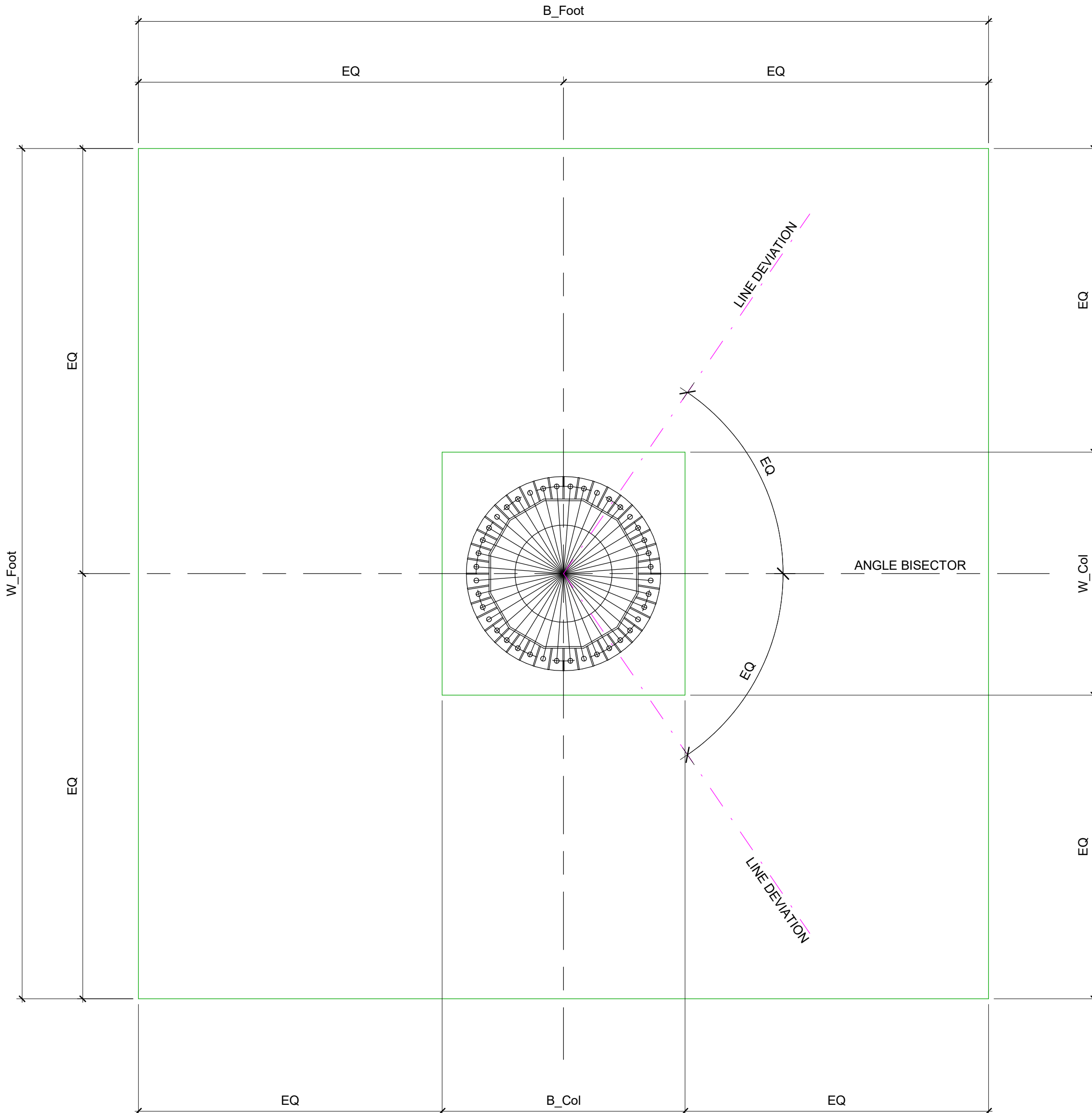
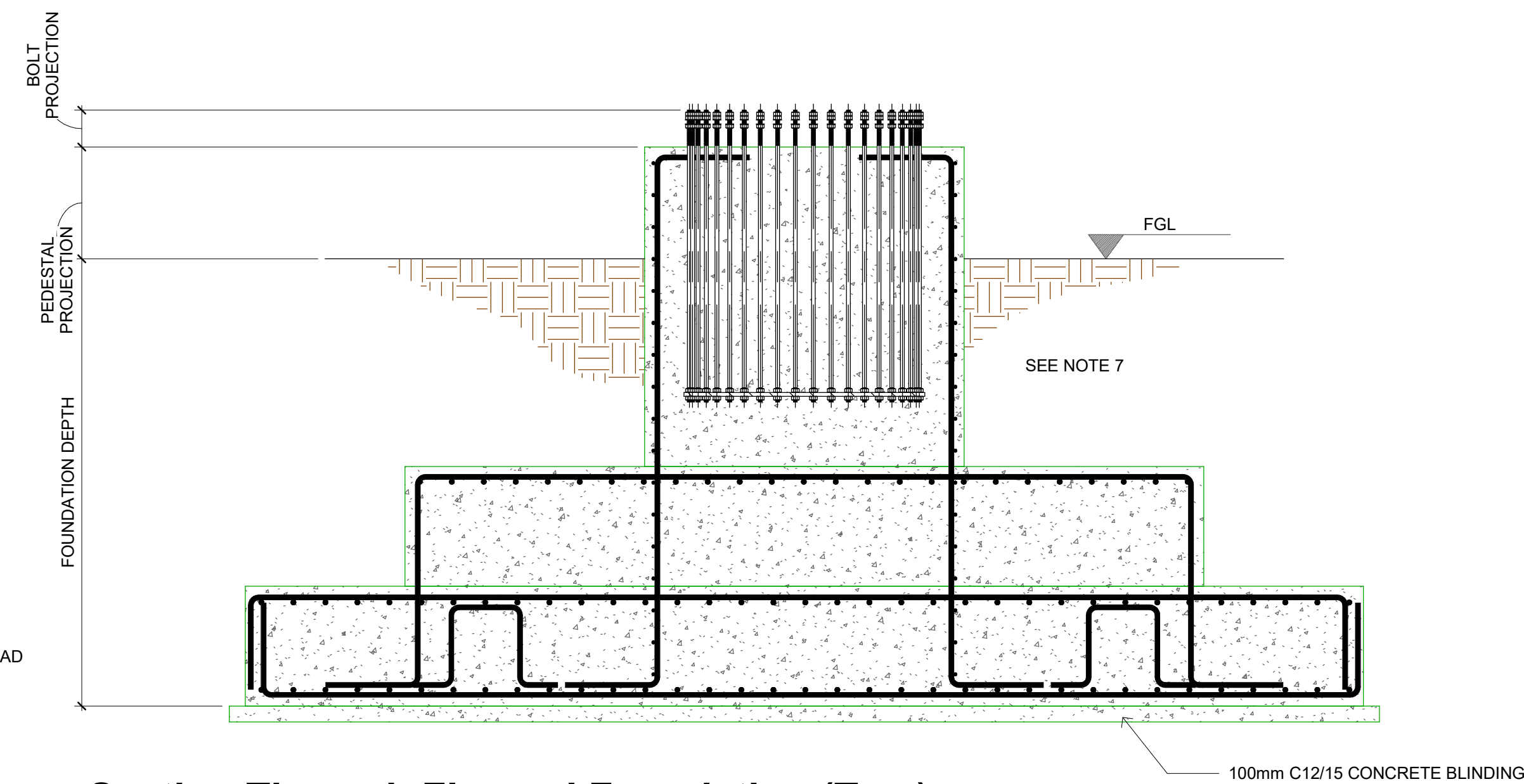


1 **Planted Foundation (Typ.)**  
1 : 30

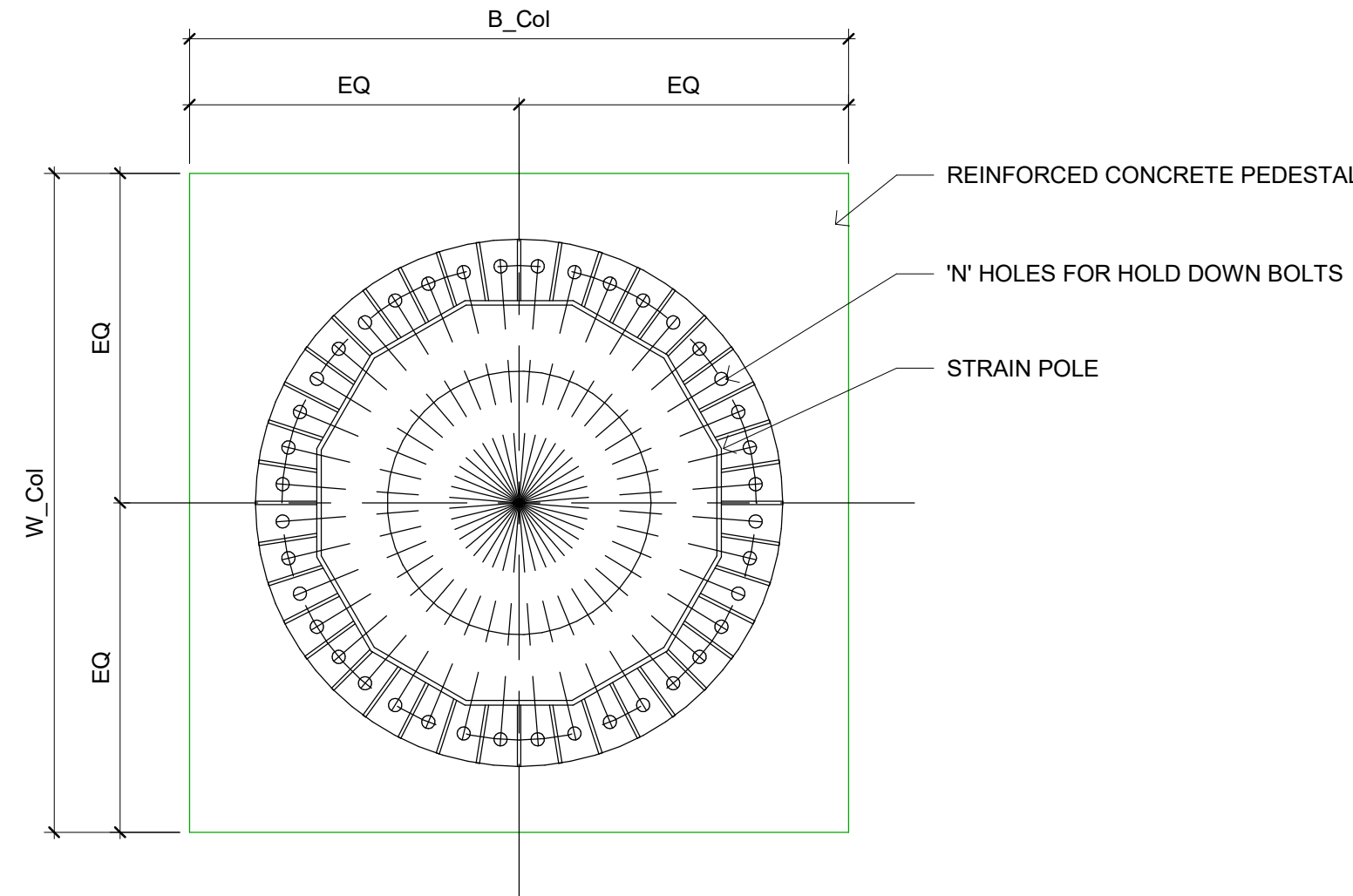


2 **Flanged Foundation Plan (Typ.)**  
1 : 30

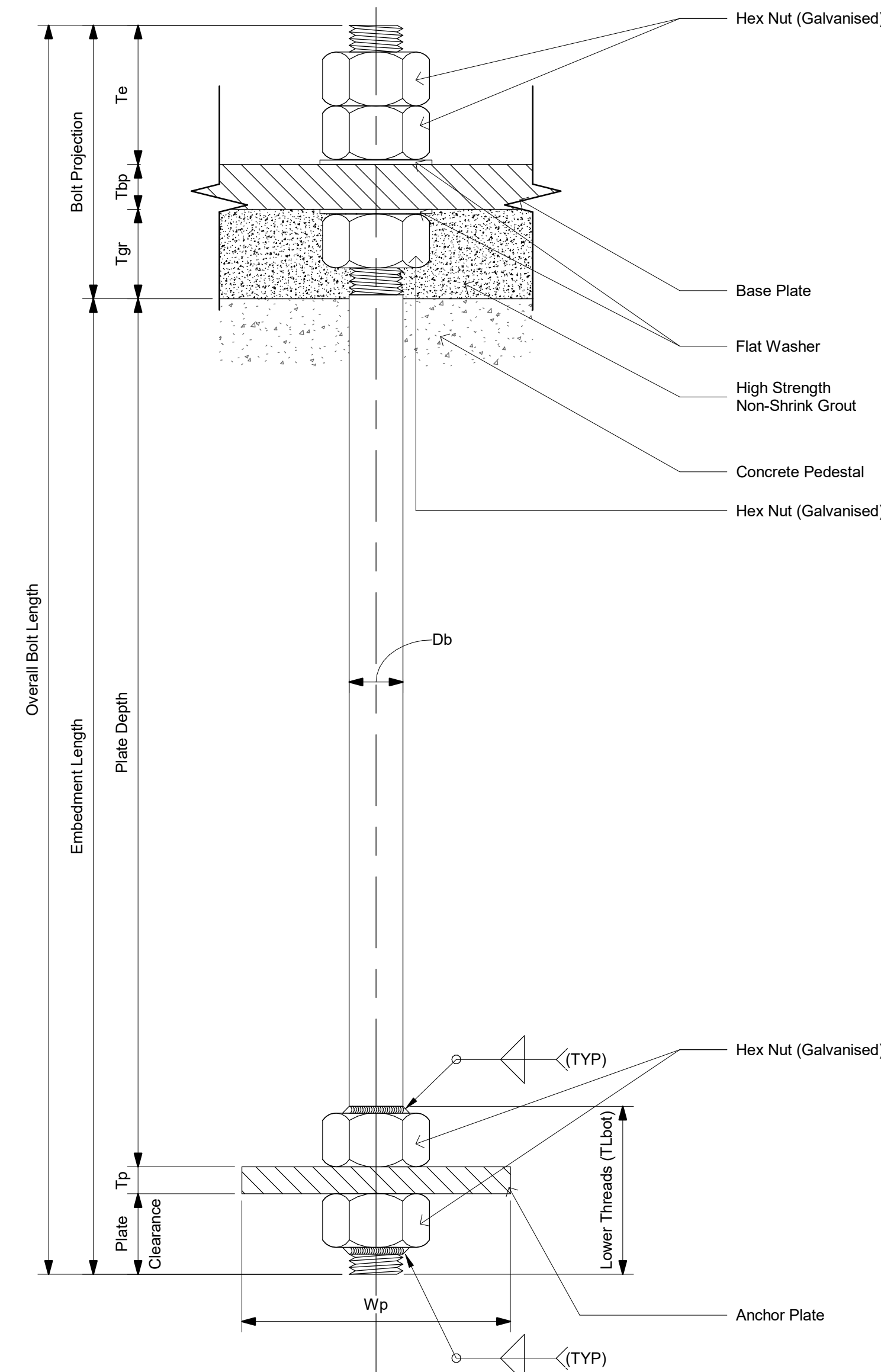


3 **Section Through Flanged Foundation (Typ.)**  
1 : 30

- NOTES
1. REINFORCEMENT MESH SHALL BE IN ACCORDANCE WITH BS 4483.
  2. BACKFILL WITH G5 QUALITY MATERIAL IN LAYERS, STABILISED WITH ORDINARY PORTLAND CEMENT (TO DESIGN ENGINEER'S DETAIL), NOT EXCEEDING 200mm.
  3. COVER TO REINFORCEMENT SHALL NOT BE LESS THAN 50mm.
  4. BLINDING CONCRETE SHALL BE OF GRADE C12/15.
  5. TEMPORARY FORM - REMOVABLE ROUGH FORMWORK REQUIRED TO FORM BARRIER FOR REINFORCED CONCRETE AROUND POLE.
  6. PLANTING OF POLES SHALL ONLY BE PERMITTED FOR INTERMEDIATE POLES AT LOCATIONS WITH SOIL CLASSIFICATION OF CLASS 2 OR BETTER. INTERMEDIATE POLES SHALL, OTHERWISE, BE INSTALLED BY WAY OF BOLTING TO A REINFORCED CONCRETE FOUNDATION.
  7. THIS FOUNDATION TYPE SHALL ONLY BE PERMITTED FOR SOIL/ BEARING STRATUM WHICH HAS BEEN CLASSIFIED AS CLASS 4 OR BETTER.



4 **Base Plate Layout (Typ.)**  
1 : 20



5 **HD Bolt (Typ.)**  
1 : 2

				Project Approval				Drawing Name  <b>General Arrangement Steel Monopole Foundations</b>				
				Drawn By	Project Engineer	Site Manager	Project Manager					
				C. Chundu	TBD	TBD	TBD					
				DEC 2023	DEC 2023	DEC 2023	TBD					
				Design Approval				Document Status	Sheet Number	Scale	Paper Size	Issue Date
				EXT				S100	As Indicated	A3	DEC 2023	
				Drawing Number				Revision Number				
				GEN-PP-TP-OHL-GA-S100				R00				
R00	FOR TENDER PURPOSES ONLY											
Rev.	Description											

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ZESCO Limited  
Head Office  
Stand No. 6949, Great East Road  
Lusaka, Zambia  
e: zesco@zesco.co.zm | w: http://www.zesco.co.zm | +26021361111

Project Name  
**Standard Drawings  
Copperbelt Network Reinforcement Project**

Drawing Name  
**General Arrangement  
Steel Monopole Foundations**

Document Status  
**EXT**

Sheet Number  
**S100**

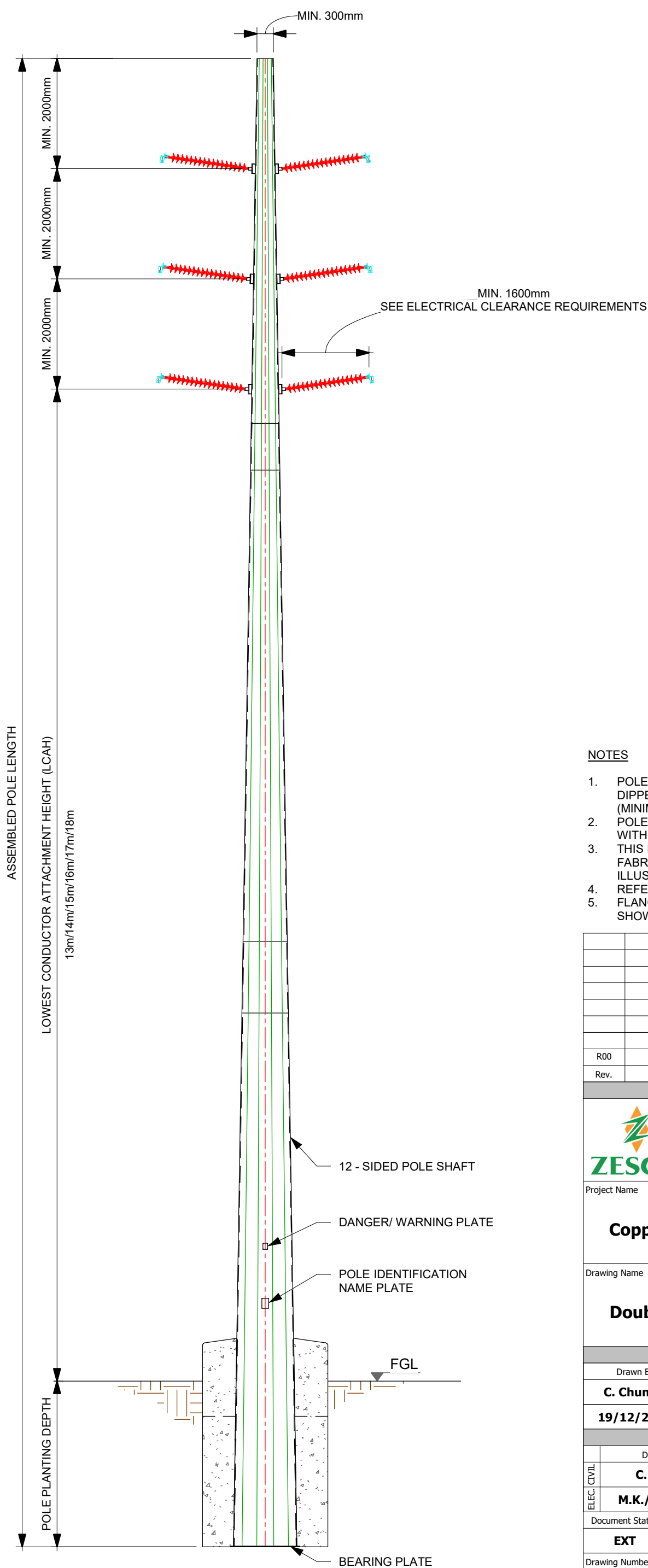
Scale  
**As Indicated**

Paper Size  
**A3**

Issue Date  
**DEC 2023**

Drawing Number  
**GEN-PP-TP-OHL-GA-S100**

Revision Number  
**R00**



NOTES

- POLE AND ACCESSORIES/ APPURTENANCES SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ISO 1461 (MINIMUM COATING THICKNESS OF 105 MICRONS).
- POLE STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITIONS OF IEC 60826 AND ASCE 48-11.
- THIS DRAWING SHALL NOT BE USED FOR THE PURPOSE OF FABRICATION, AS IT IS ONLY INTENDED TO PROVIDE A BASIC ILLUSTRATION OF THE POLE STRUCTURE'S GENERAL LAYOUT.
- REFER TO NOTE 6 IN DRAWING NO. "GEN-PP-TP-OHL-GA-S100".
- FLANGED INTERMEDIATE POLE STRUCTURE HAS NOT BEEN SHOWN.

R00	FOR TENDER PURPOSES ONLY	19/12/2023	C.C.
Rev.	Description	Date	By

Revisions



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ZESCO Limited  
Head Office  
Stand No. 6949, Great East Road  
Lusaka, Zambia  
e: zesco@zesco.co.zm | w: <http://www.zesco.co.zm> | +260211361111

Project Name

**Standard Drawings  
Copperbelt Network Reinforcement Project**

Drawing Name

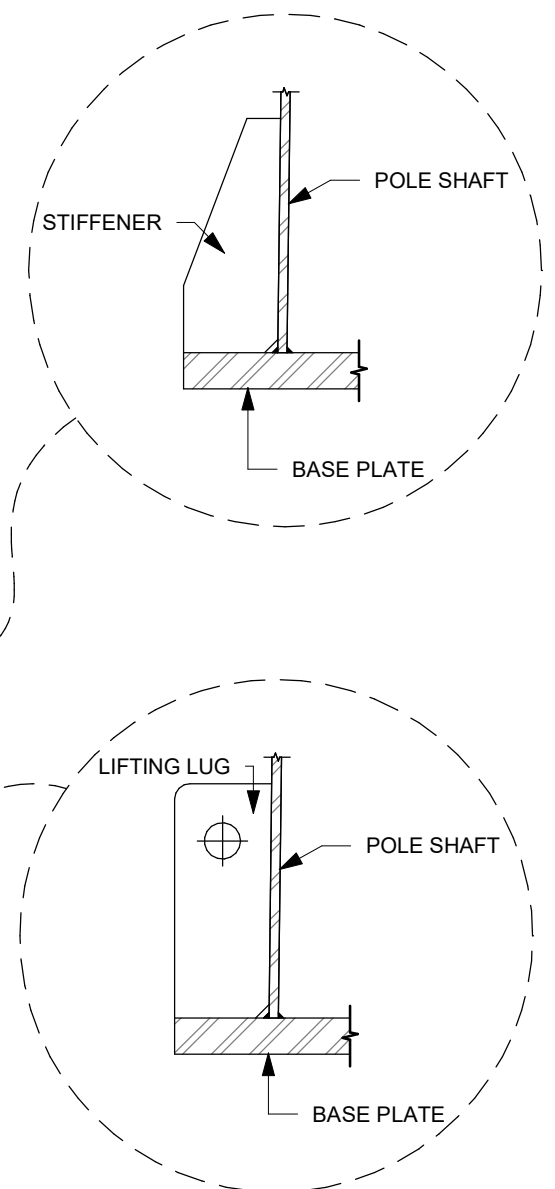
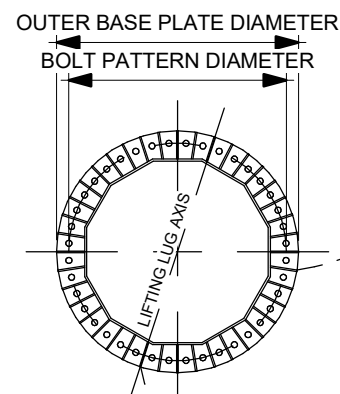
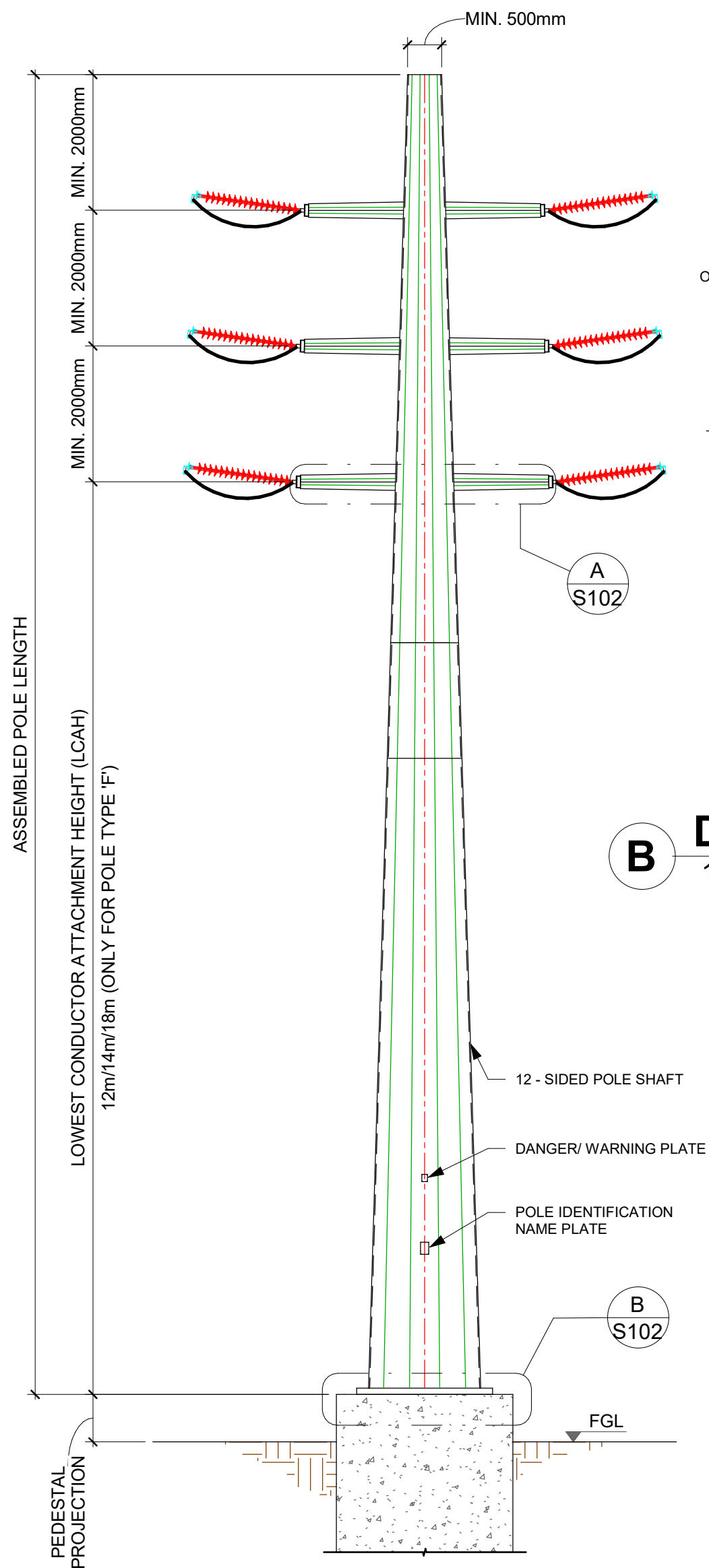
**General Arrangement  
Double Circuit Intermediate Pole (Type 'A')**

Project Approval			
Drawn By	Project Engineer	Site Manager	Project Manager
C. Chundu	TBD	TBD	TBD
19/12/2023	TBD	TBD	TBD

Design Approval			
ELEC. CIVIL	Designed By	Checked By	Approved By
	C. Chundu	J. Nyondo	A.M./ H.C.
	M.K./ R.M./ A.K.	A.S./ S.J.M.	E. Mutamba

Document Status	Sheet Number	Scale	Paper Size	Issue Date
EXT	S101	1 : 75	A3	DEC 2023

Drawing Number				Revision Number
GEN-PP-TP-OHL-GA-S101				R00



**B** **DETAIL B**  
1 : 50

## NOTES

1. POLE AND ACCESSORIES/ APPURTENANCES SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ISO 1461 (MINIMUM COATING THICKNESS OF 105 MICRONS).
2. POLE STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITIONS OF IEC 60826 AND ASCE 48-11.
3. THIS DRAWING SHALL NOT BE USED FOR THE PURPOSE OF FABRICATION, AS IT IS ONLY INTENDED TO PROVIDE A BASIC ILLUSTRATION OF THE POLE STRUCTURE'S GENERAL LAYOUT.

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Rev.	Description	Date	By

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**ZESCO Limited**  
**Head Office**  
**Stand No. 6949, Great East Road**  
**Lusaka, Zambia**  
**e: [zesco@zesco.co.zm](mailto:zesco@zesco.co.zm) | w: <http://www.zesco.co.zm> | +260211361111**

Project Name
--------------

## Standard Drawings

### Copperbelt Network Reinforcement Project

Drawing Name
--------------

### General Arrangement Double Circuit Strain Pole (Types 'B', 'C', 'D/DE', 'F')

Project Approval			
Drawn By	Project Engineer	Site Manager	Project Manager
<b>C. Chundu</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>19/12/2023</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>

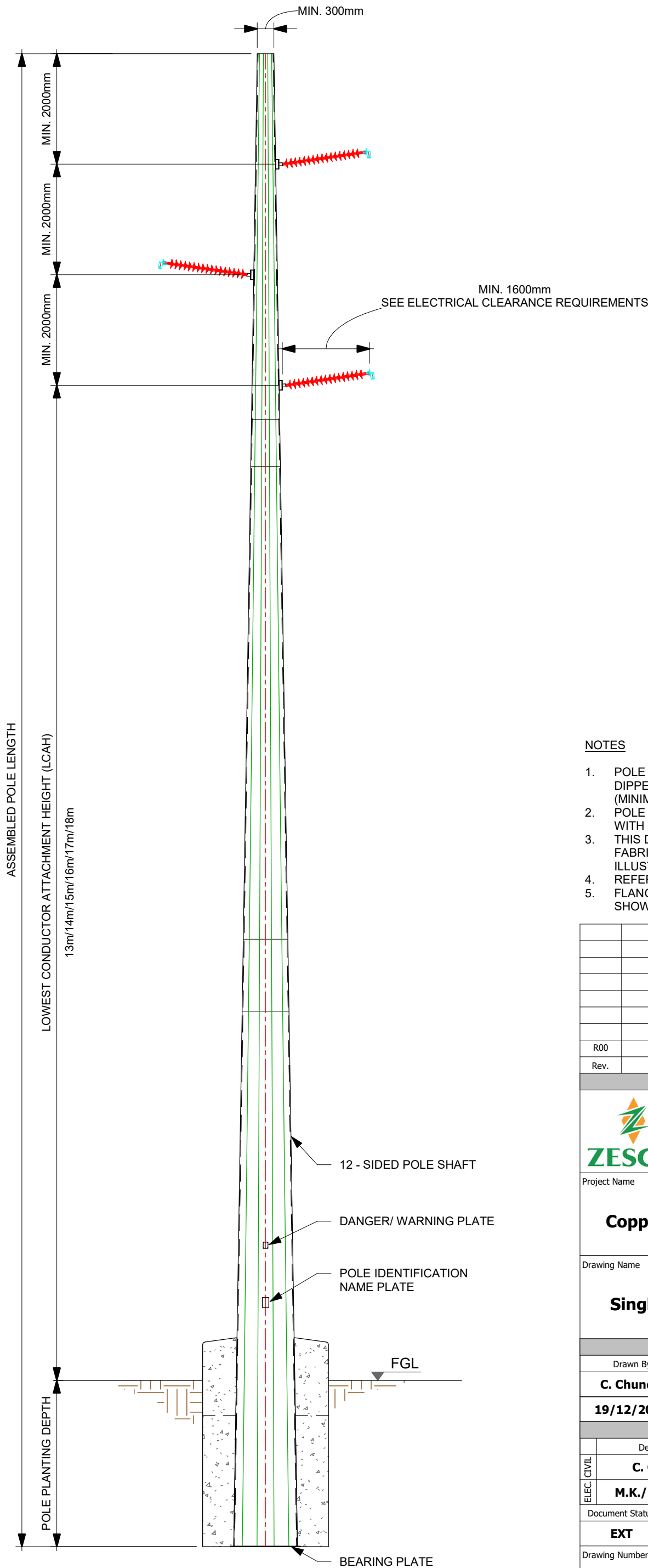
Design Approval			
	Designed By	Checked By	Approved By
CIVIL	<b>C. Chundu</b>	<b>J. Nyondo</b>	<b>A.M./ H.C.</b>
LEC.	<b>M.K./ R.M./ A.K.</b>	<b>A.S./ S.J.M.</b>	<b>E. Mutamba</b>

Document Status	Sheet Number	Scale	Paper Size	Issue Date
<b>EXT</b>	<b>S102</b>	<b>As indicated</b>	<b>A3</b>	<b>DEC 2023</b>

Drawing Number	Revision Number
<b>GEN-PP-TP-OHL-GA-S102</b>	<b>R00</b>


**A** **DETAIL A**  
1 : 50





NOTES

- POLE AND ACCESSORIES/ APPURTENANCES SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ISO 1461 (MINIMUM COATING THICKNESS OF 105 MICRONS).
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- THIS DRAWING SHALL NOT BE USED FOR THE PURPOSE OF FABRICATION, AS IT IS ONLY INTENDED TO PROVIDE A BASIC ILLUSTRATION OF THE POLE STRUCTURE'S GENERAL LAYOUT. REFER TO NOTE 6 IN DRAWING NO. "GEN-PP-TP-OHL-GA-S100".
- FLANGED INTERMEDIATE POLE STRUCTURE HAS NOT BEEN SHOWN.

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Rev.	Description	Date	By	
Revisions				
<div><div></div><div>Planning &amp; Projects Directorate ZESCO Limited Head Office Stand No. 6949, Great East Road Lusaka, Zambia e: zesco@zesco.co.zm   w: <a href="http://www.zesco.co.zm">http://www.zesco.co.zm</a>   +260211361111</div></div>				
Project Name				
Standard Drawings Copperbelt Network Reinforcement Project				
Drawing Name				
General Arrangement Single Circuit Intermediate Pole (Type 'A')				
Project Approval				
Drawn By	Project Engineer	Site Manager	Project Manager	
C. Chundu	TBD	TBD	TBD	
19/12/2023	TBD	TBD	TBD	
Design Approval				
ELEC. CIVIL	Designed By	Checked By	Approved By	
	C. Chundu	J. Nyondo	A.M./ H.C.	
	M.K./ R.M./ A.K.	A.S./ S.J.M.	E. Mutamba	
Document Status	Sheet Number	Scale	Paper Size	Issue Date
EXT	S103	1 : 75	A3	DEC 2023
Drawing Number				Revision Number
GEN-PP-TP-OHL-GA-S103				R00

ASSEMBLED POLE LENGTH

LOWEST CONDUCTOR ATTACHMENT HEIGHT (LCAH)

12m/14m/18m (ONLY FOR POLE TYPE 'F')

PEDESTAL PROJECTION

MIN. 500mm

MIN. 2000mm

MIN. 2000mm

MIN. 2000mm

12 - SIDED POLE SHAFT

DANGER/ WARNING PLATE

POLE IDENTIFICATION NAME PLATE

C  
S104

FGL

OUTER BASE PLATE DIAMETER  
BOLT PATTERN DIAMETER

LIFTING LUG AXIS

STIFFENER

POLE SHAFT

BASE PLATE

LIFTING LUG

POLE SHAFT

BASE PLATE

C

## DETAIL C

1 : 50

### NOTES

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Project Name

**Standard Drawings  
Copperbelt Network Reinforcement Project**

Drawing Name

**General Arrangement  
Single Circuit Strain Pole  
(Types 'B', 'C', 'D/DE', 'F')**

#### Project Approval

Drawn By	Project Engineer	Site Manager	Project Manager
C. Chundu	TBD	TBD	TBD
19/12/2023	TBD	TBD	TBD

#### Design Approval

Designed By	Checked By	Approved By
C. Chundu	J. Nyondo	A.M./ H.C.
M.K./ R.M./ A.K.	A.S./ S.J.M.	E. Mutamba

Document Status	Sheet Number	Scale	Paper Size	Issue Date
EXT	S104	As indicated	A3	DEC 2023

Drawing Number

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Revision Number

**R00**