

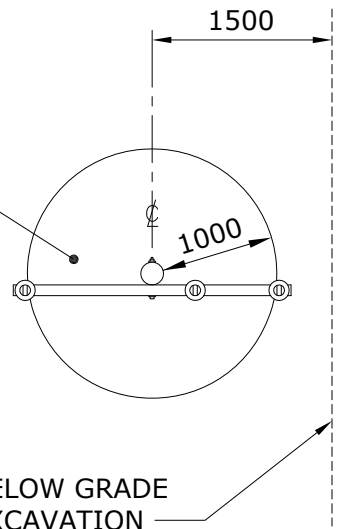
APPENDIX 'J'

**ALLOWABLE EXCAVATIONS AROUND
EXISTING POLES**

FOR CHANGES IN GRADE,
THE MINIMUM AMOUNT OF
UNDISTURBED EARTH TO BE
LEFT ALL AROUND POLES
SHALL BE 1000mm

PLAN

BELOW GRADE
EXCAVATION

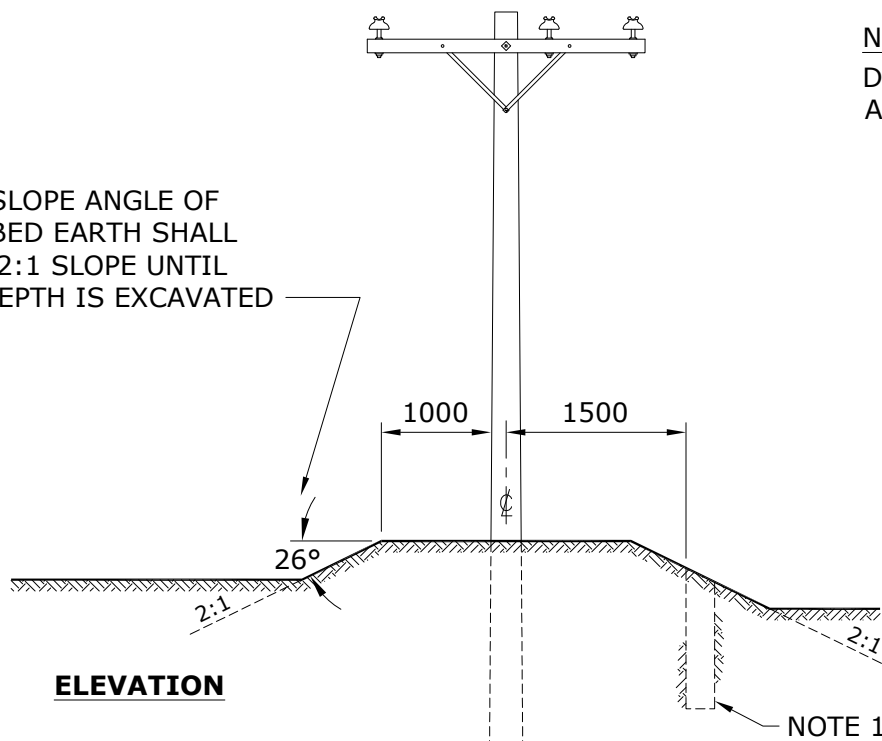


NOTE:

DIMENSIONS SHOWN
ARE MILLIMETRES.

MAXIMUM SLOPE ANGLE OF
UNDISTURBED EARTH SHALL
BE 26° OR 2:1 SLOPE UNTIL
DESIRED DEPTH IS EXCAVATED

ELEVATION



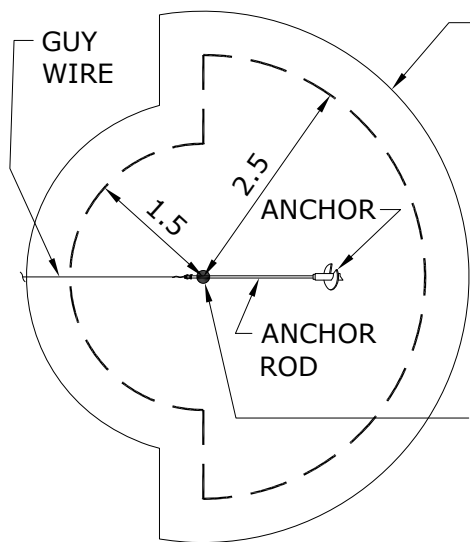
NOTE:

1. THE MINIMUM SEPARATION (TO ANY SIDE OF A POLE) FOR EXCAVATIONS DEEPER THAN 500mm WITHOUT DISTRIBUTION ENGINEERING INVOLVEMENT SHALL BE 1500mm, EXCAVATIONS TO BE BACKFILLED & TAMPED TO MAINTAIN SLOPE. A CIVIL ENGINEER SHOULD BE CONSULTED FOR ANY LARGER (TEMPORARY OR PERMANENT) EXCAVATIONS.

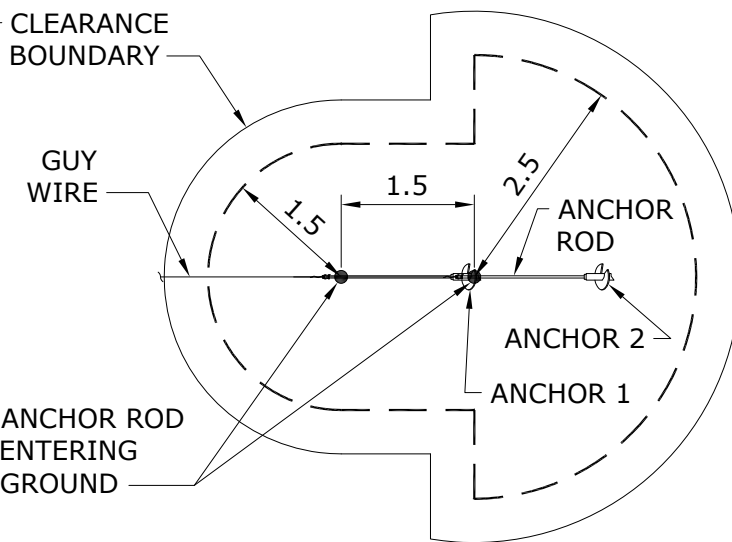
SUPERCEDES ORIGINAL SEALED BY E. WIEBE ON 94-07-11

APPROVED ORIGINAL DRAWING SEALED BY D.R. ORR 19-05-17		REVISIONS		MANITOBA HYDRO DISTRIBUTION STANDARDS					
		23-01	4	ADDED SHEET 2 - EXCAVATION LIMITS AROUND ANCHORS	ALLOWABLE EXCAVATIONS AROUND EXISTING POLES AND ANCHORS				
		19-04	3	REVISED NOTE 1, RESEALED					
		06-02	2	REVISED SLOPE & ADDED MORE EXPLANATION TO NOTES					
DRAWN C.A.		CHECKED G.D./C.W.		DATE 19-04		CD 30-55		SHT 0001 OF 2	REV 04

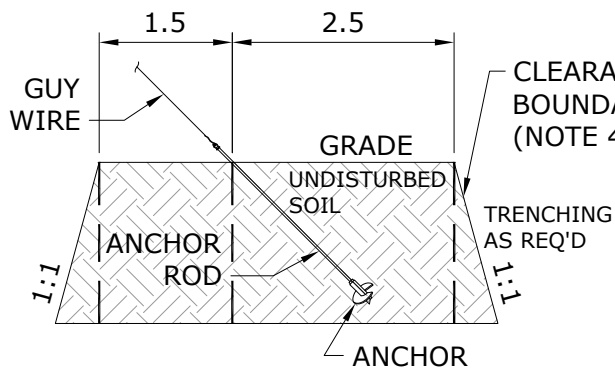
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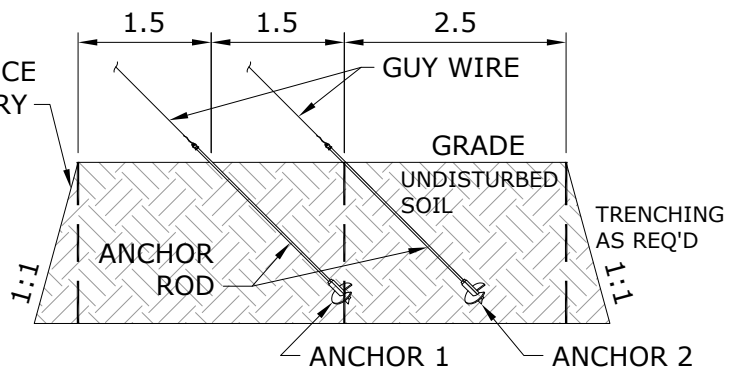
SINGLE ANCHOR - TOP VIEW



MULTIPLE ANCHOR - TOP VIEW



SINGLE ANCHOR - PLAN VIEW



MULTIPLE ANCHOR - PLAN VIEW

NOTES:

1. EXCAVATION ZONE LIMITS ARE ONLY APPLICABLE FOR NORMAL OR BETTER SOIL CONDITIONS. FOR POOR OR SWAMP SOIL CONDITIONS, CONTACT DISTRIBUTION ENGINEERING BEFORE BEGINNING ANY WORK.
2. IF THERE ARE MULTIPLE ANCHORS IN-LINE, ADD ANOTHER 1.5m FOR EACH ADDITIONAL ANCHOR TO THE 1.5m MINIMUM DIMENSION.
3. THIS DRAWING SHOWS A PISA ANCHOR, IT IS APPLICABLE FOR ALL ANCHOR TYPES.
4. EXCAVATION TO BE DONE AT MAXIMUM ANGLE OF 45° SLOPE AWAY FROM THE CLEARANCE BOUNDARY. THE HORIZONTAL AND VERTICAL CUTS SHALL NOT BE STEEPER THAN 1:1 RATIO TO PREVENT CAVE-IN.
5. IF AT ANY TIME IN THE COURSE OF EXCAVATION THE POLE OR ITS SUPPORTING EQUIPMENT APPEARS TO BECOME UNSTABLE TO ANY DEGREE, WORK SHALL BE HALTED IMMEDIATELY AND DISTRIBUTION ENGINEERING SHALL BE CONTACTED BEFORE PROCEEDING WITH ANY ADDITIONAL EXCAVATION.
6. IF THE SPECIFIED CLEARANCES CANNOT BE MET, CONTACT DISTRIBUTION ENGINEERING BEFORE BEGINNING ANY WORK.
7. DIMENSIONS SHOWN ARE IN METERS.

APPROVED		REVISIONS		MANITOBA HYDRO DISTRIBUTION STANDARDS	
ORIGINAL DRAWING SEALED BY C. WEERAKOON 23-01-30				ALLOWABLE EXCAVATIONS AROUND EXISTING POLES AND ANCHORS	
DRAWN C.A.	CHECKED G.D.	DATE 23-01	CD 30-55		SHT 0002 OF 2
					REV 00