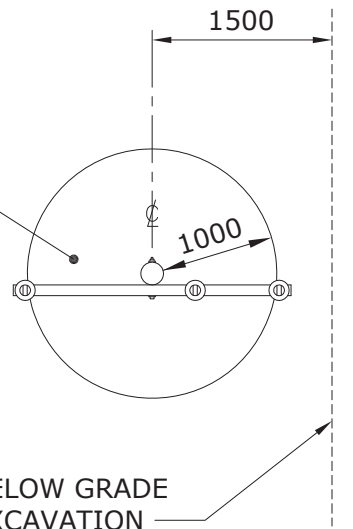


# **Appendix D – Manitoba Hydro Allowable Excavation Around Existing Poles: Drawing CD 30-5**

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

**PLAN**

BELOW GRADE  
EXCAVATION

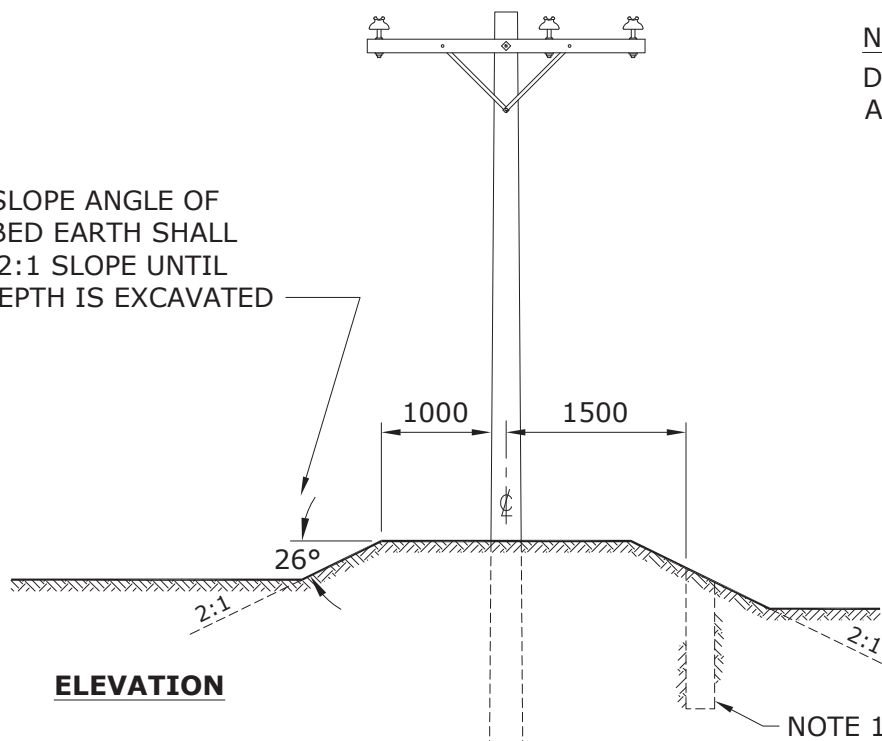


**NOTE:**

DIMENSIONS SHOWN  
ARE MILLIMETRES.

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

**ELEVATION**



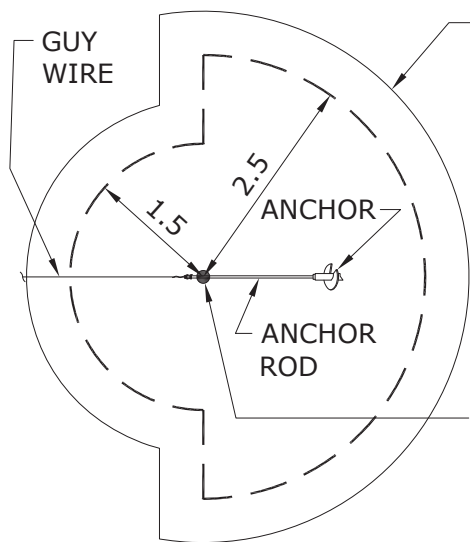
**NOTE:**

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.

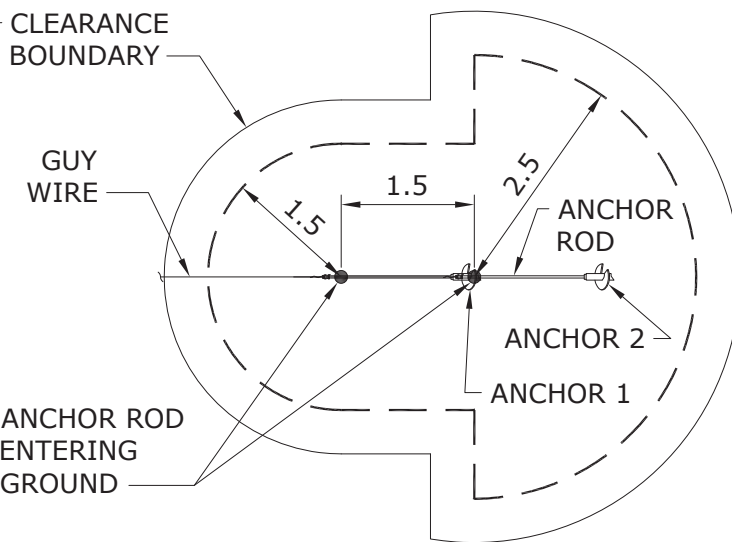
SUPERCEDES ORIGINAL SEALED BY E. WIEBE ON 94-07-11

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

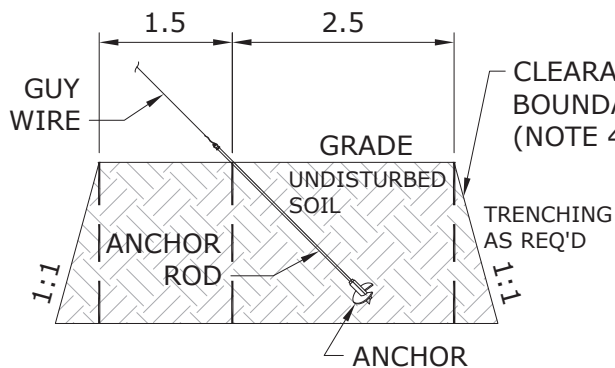
1-04430-DA-24200-0013



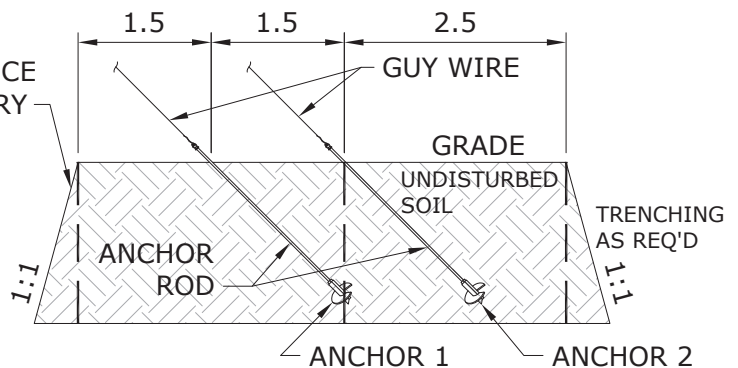
**SINGLE ANCHOR - TOP VIEW**



**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<br>DRAWING<br>SEALED BY<br>C. WEERAKOON<br>23-01-30 |                 |               |                 | <b>ALLOWABLE EXCAVATIONS<br/>AROUND EXISTING POLES<br/>AND ANCHORS</b> |                  |
|  |                 |               |                 |  |                  |
| DRAWN<br>C.A.  | CHECKED<br>G.D. | DATE<br>23-01 | <b>CD 30-55</b> |  | SHT<br>0002 OF 2 |
|  |                 |               |                 |  | REV<br>00        |