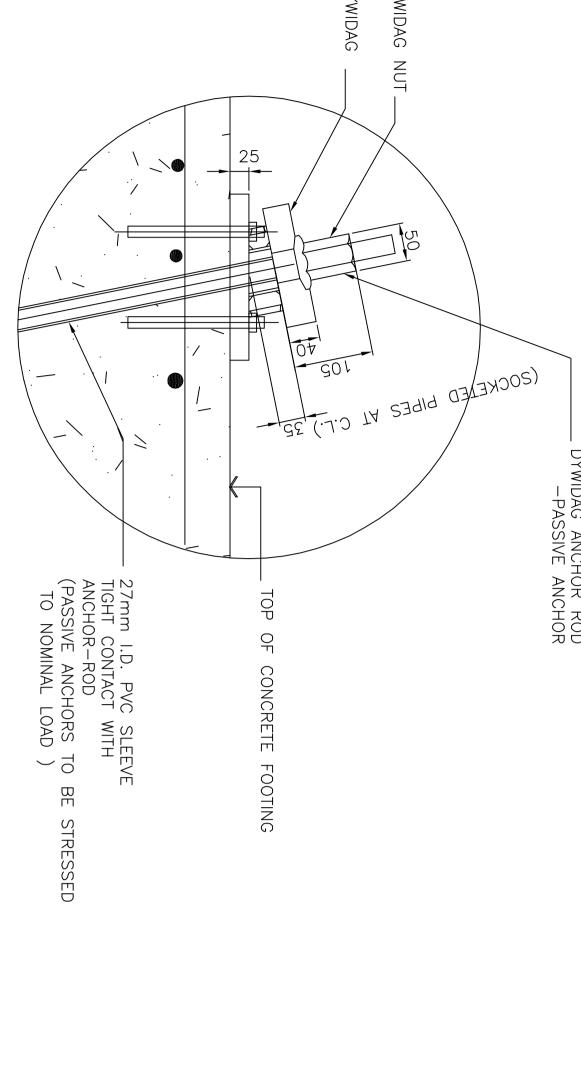




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SCALE 1:5



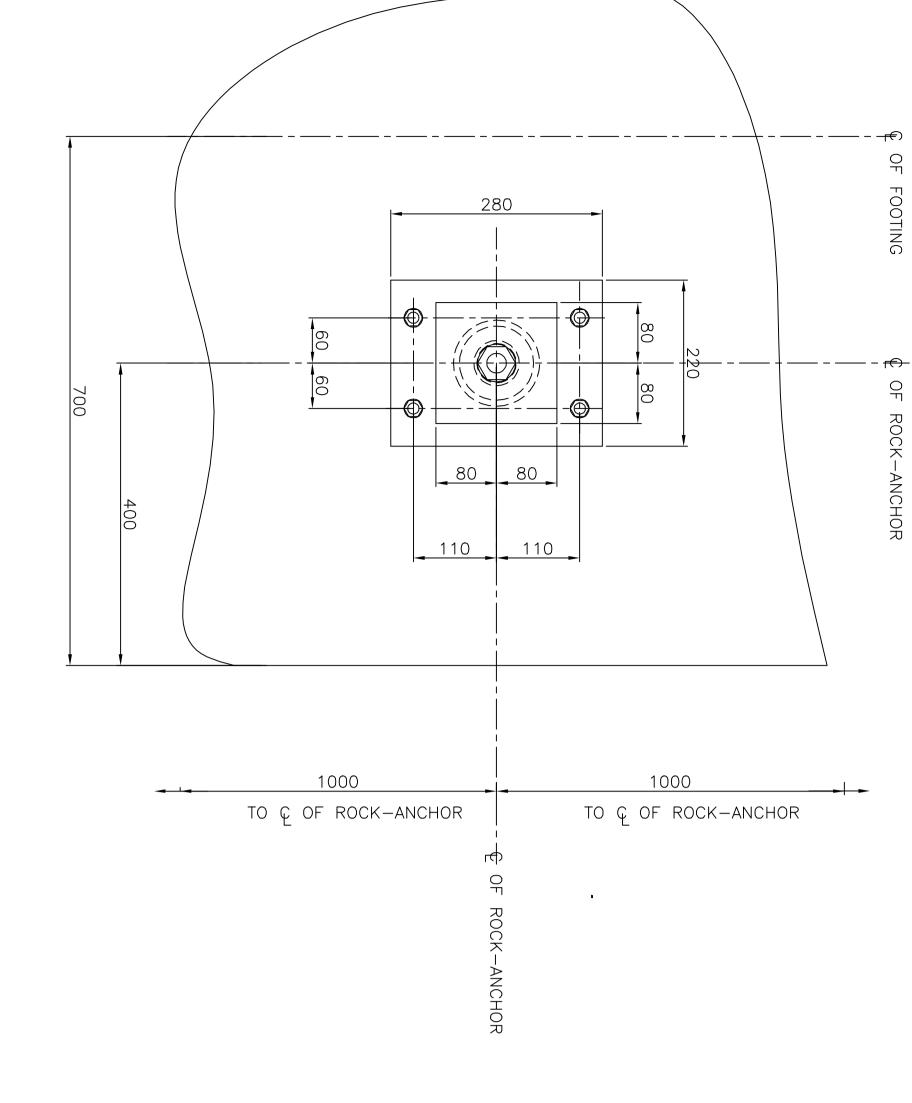
DIN 100 XS SOCKETED PIPE WELDED TO 40mm ANCHOR PLATE AND 25mm TOP PLATE

280x220x25 PL. C.W./ HOLES FOR 4-½" DIA ANCHOR BOLTS

HILTI HIT HY 150/HIT-ICE ANCHOR BOLTS W/135mm EMBEDMENT

135/

DIN 50 STD SOCKETED PIPE WELDED TO 40mm ANCHOR PLATE AND 25mm TOP PLATE



SCALE ANCHOR

## NOTES:

1. ROCK ANCHORS THREADBARS TO BE ANCHORED USING THE GENERALLY APPROVED ANCHOR DYWIDAG POST—TENSIONING SYSTEM (Z-13.1-19)2. ROCK ANCHORS ARE PERMANENT ANCHORS THAT ARE SUBJET TO APPROVAL NO. 2-20.1-17 OF DYWIDAG INT. NUTS OF THE

- 3. ANCHOR PLATE (SOLID PLATE) TO BE FROM MATERIAL S235JR (1.0037) ACC. DIN EN 10025 AND ANCHOR NUT TO BE FROM MATERIAL E 295 (1.0050) ACC. DIN EN 10025
- 4. PIPES TO BE FROM MATERIAL TO CONFORM TO ASTM-A53, Fy=250 MPa.
- 25mm STEEL PL. ON TOP OF CONCRETE TO CONFORM TO CSA G40.21 TYPE 300W.
- 6.  $\frac{1}{2}$  ANCHOR BOLTS TO BE FROM A307, Fu=414 MPa OR BETTER.
- 7. WELDING SHALL BE IN ACCORDANCE WITH CSA STANDARD W-59, WELDING ELECTRODES TO BE COMPATABLE WITH BASE METAL. ALL WELDS TO BE  $5 \mathrm{mm}$  U.N.O. ON DRAWINGS.



SENIOR STRUCTURAL ENGINEER	

	Divi	No.			D	C
	Vo.     Date     Revision       Division     EASTERN CANADA division     Sub-division	Date	SEPT 18, 2009	JAN 15, 2010	DEC 14,2010	C MAY 16, 2011
			ISSUED FO	ISSUED FOR	GENERAL REVISION	GENERAL REVISION
		ISSUED FOR TENDER	ISSUED FOR CONSTRUCTION	/ISION	EVISION	

By/Par 205.31

## FOOTING GEOMETRY, REINFORCING AND DETAILS CULVERT NORTH EXTENSION DETAILS

STONE ARCH CULVERT EXTENSION

NEAR MOHAWK, ONTARIO

Drawn Dessin DGT Designed Checked Conception DGT Verification Scale Echelle AS NOTED Date JAN 15, 2010

Office of Chief Engineer l'Ingénieur en chef

Drawing Number AA840-205.31-4.05 Dessin Numero C

SEVERKO File

205.31 KINGSTON

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