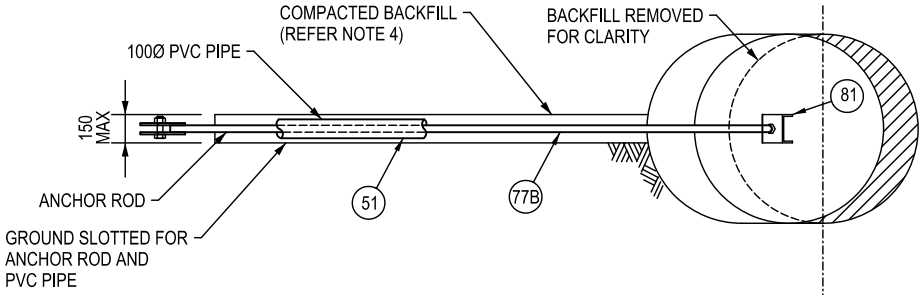
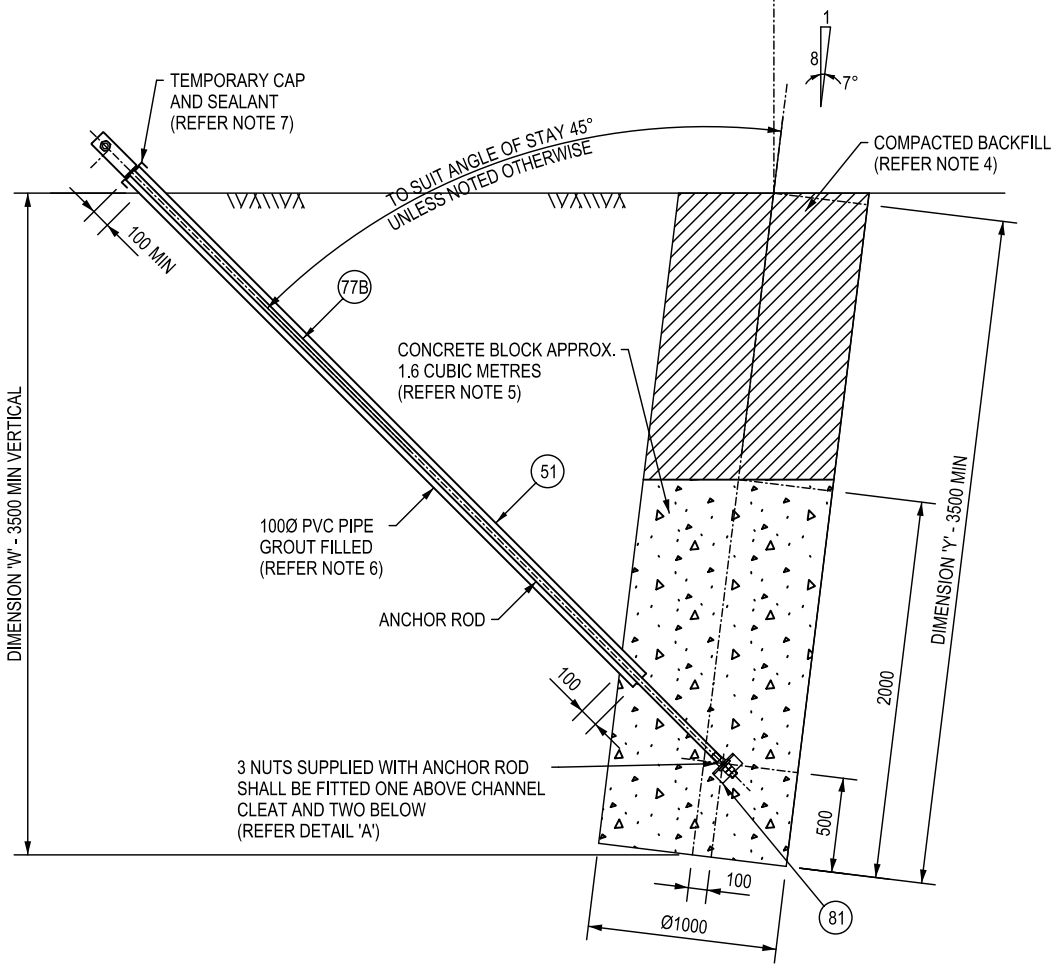


SECTIONAL PLAN



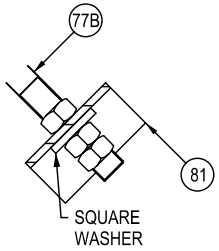
SECTIONAL ELEVATION

NOTES

1. This drawing shall be read in conjunction with the relevant stay arrangement drawing and the specification.
2. This stay anchorage has been designed for an ultimate load of 200kN in the direction of the stay.
3. The anchorage has been designed for 'Poor soil' conditions which are defined here as consisting of predominantly cohesive materials of firm consistency (can be moulded by strong finger pressure). A soil shear strength (undrained) of 25KPa has been assumed in the design. Non-cohesive soil such as fine moist sand or loose sandy soil and other wet or saturated materials, unstable during or after boring, shall be considered as unsuitable material for this foundation.
4. Backfill shall be selected from the excavated material where possible. If the excavated material is considered unsuitable for achieving effective compaction (such as very soft clays, hard blocky clays, dry dusty soils or soil with a high proportion of large rocks) it shall be treated to the satisfaction of the superintendent's representative prior to use. Alternatively, an approved imported backfill may be used. All backfill shall be compacted by mechanical equipment in layers not exceeding 150mm (loose) thickness.
5. Concrete to be of following proportions by volume if mixed on site:-
   1.0 part Portland cement
   2.33 parts sand
   2.50 parts 20mm aggregate
   0.65 water/cement ratio (by volume)
   100mm slump
   Alternatively, ready mixed concrete of strength grade N20 (20mpa) to AS3600 can be used. Handling and placement of concrete shall be in accordance with AS3600. Mechanical vibrators shall be used to compact concrete.
6. Cement grout shall be 3:1 sand/cement ratio and a 0.6 water/cement ratio. During the grouting operation the anchor rod shall be lightly vibrated with mechanical vibration to ensure that grout is fully bedded in.
7. Care shall be taken to ensure that there is no water build-up in the pipe before grouting. The upper end of the pipe shall be sealed with a suitable temporary cap and sealant to prevent water ingress prior to the grouting operation.

8.a) Where the ground slopes as in diagram 'A' the anchorage shall be set deeper to maintain dimensions 'X' and 'W'.

b) Where the ground slopes as in diagram 'B' and the minimum dimension 'Y' cannot be obtained, a longer stay anchor rod selected from Drg. CEOM7410.23 shall be installed. The anchor rod shall be cut and rethreaded to maintain dimension 'X'.



DETAIL 'A'

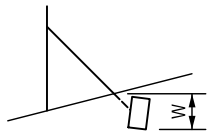


DIAGRAM 'A'
(REFER NOTE 8a)

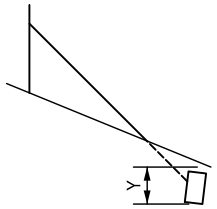


DIAGRAM 'B'
(REFER NOTE 8b)

Item	Qty Req'd	Description	Cat. No
81	1	STAY CHANNEL CLEAT-GALV - Drg. CEOM7410.11	602523
77B	1	STAY ANCHOR ROD 200kN ULT. LOAD (REFER NOTE 8)-GALV- CEOM7410.13	602511
51	1	100mmØ PVC PIPE - UV STABILISED	281025

AMENDMENT DETAILS

2	DRWN	W.GATLEY
	CHCKD	D.O'BRIEN
	DATE	18/08/2011

DRAWING BORDER UPDATED TO ESSENTIAL ENERGY BORDER.

3	DRWN	SG
	CHCKD	D.O'BRIEN
	DATE	22/08/2013

DRAWING AUTHORISATION WAS BY WAYNE JOHNSON. NOTE 3 REVISED. DIMENSIONS ON SECTIONAL ELEVATION REVISED. DIAGRAM A & B DIMENSIONS ADDED.

SCALE	NTS
ISSUED	01/12/2009
DRAWN BY	SJR
CHECKED BY	PRS
AUTHORISED	22/08/2013

AUTHORISED BY

Deepak Pais

PRINCIPAL ENGINEER OVERHEAD CONSTRUCTION STANDARDS

CEOM7405.08

#	1 of 1	A4

SUBTRANSMISSION 200kN STAY ANCHORAGE IN POOR SOIL ARRANGEMENT

ESSENTIAL ENERGY

ABN 37 428 185 226