

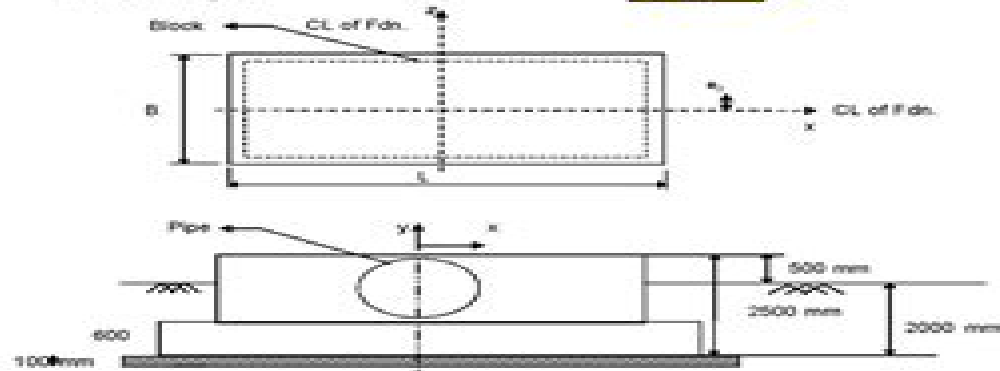
STATIC ANALYSIS & DESIGN OF PIPE ANCHOR BLOCK FOUNDATION

DESIGN OF PIPE ANCHOR BLOCK

FOUNDATION GEOMETRY & SKETCH

Length of the Pipe Block
 Width of the Pipe Block
 Length of the Pipe Block Foundation
 Width of the Pipe Block Foundation
 Depth of the foundation block below H.P.P
 Height of Foundation block above H.P.P
 Height of the Pipe
 Depth of Raft
 Concrete , Fck
 Reinforcement grade

L =	1800	mm
B =	1800	mm
L =	3000	mm
B =	3000	mm
=	2000	mm
=	500	mm
h =	1500	mm (Avg fit assumed)
=	800	mm
	30	N/mm ²
	500	N/mm ²



WEIGHTS OF FOUNDATION & PIPE

Weight of concrete foundation (W_f)
 (Pipe 1.2m dia Detected from conc wt)

$$= (1.8 \times 1.8 \times 1.8) \times 25 - \text{Pipe 1.2Dia} = \text{raft weight}$$

$$= 9.7 \text{ kN}$$

Operating weight of Pipe Anchor Block, (W_o)

$$= 240.00 \text{ kN}$$

Total weight of Foundation system, P_o

$$= 9.7 + 240$$

$$= 249.70 \text{ kN}$$

Pipe Lever arm for moment

$$= 0.65 \text{ m}$$

Piping Horizontal Loads (input from Piping Stress)

F_z

$$= 260 \text{ kN}$$

F_x

$$= 25 \text{ kN}$$

Lateral Force due to thrust

F_y

$$= 260 \text{ kN}$$

(Piping load

transverse direction of the block)

Moment due to lateral Force

M_{x1}

$$= 260 \times 0.65$$

$$= 169.00 \text{ kNm}$$

Longitudinal Force due to unbalanced force

F_y

$$= 25 \text{ kN}$$

M_{x1}

$$= 25 \times 0.65$$

$$= 16.25 \text{ kNm}$$

Anchor Block Asce Manual

G Orfield



Anchor Block Asce Manual:

ASCE Manuals and Reports on Engineering Practice, 2001 **The Civil Engineering Handbook** W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering Air Force Manual United States. Department of the Air Force, 1957 Anchorage Zone Reinforcement for Post-tensioned Concrete Girders John Edward Breen, 1994 **Directory of Committee Memberships of the National Bureau of Standards Staff on Engineering Standards Committees** United States. National Bureau of Standards. Office of Engineering and Information Processing Standards, 1975 **Technical Record of Design and Construction** United States. Bureau of Reclamation, 1970 Senator Wash Dam, Dikes, and Pumping-generating Plant United States. Bureau of Reclamation, 1970 **ACI Manual of Concrete Practice** American Concrete Institute, 2003

Anchorage zones of prestressed concrete members state of the art report FIB - International Federation for Structural Concrete, 1987-04-01 **Building Code Requirements for Masonry Structures (ACI 530-02/ASCE 5-99/TMS 402-02)**. Masonry Society (U.S.), 2002 Contains the industry consensus for design and construction of masonry structures Written in a form easily adoptable in a general building code this title covers topics such as strength design of masonry integrated seismic design provisions cold weather masonry construction provisions for grout and more **Civil Engineering ASCE.**, 1965 Includes sections Recent books and Current periodical literature **Proceedings**, 1964

Design of Electrical Transmission Lines Sriram Kalaga, Prasad Yenumula, 2016-12-19 This book covers structural and foundation systems used in high voltage transmission lines conductors insulators hardware and component assembly In most developing countries the term transmission structures usually means lattice steel towers The term actually includes a vast range of structural systems and configurations of various materials such as wood steel concrete and composites This book discusses those systems along with associated topics such as structure functions and configurations load cases for design analysis techniques structure and foundation modeling design deliverables and latest advances in the field In the foundations section theories related to direct embedment drilled shafts spread foundations and anchors are discussed in detail Featuring worked out design problems for students the book is aimed at students practicing engineers researchers and academics It contains beneficial information for those involved in the design and maintenance of transmission line structures and foundations For those in academia it will be an adequate text book design guide for graduate level courses on the topic Engineers and managers at utilities and electrical corporations will find the book a useful reference at work **The**

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