

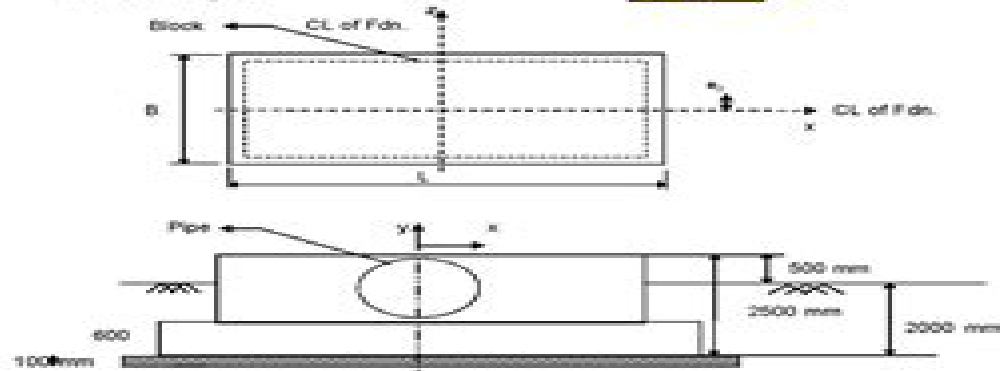
STATIC ANALYSIS & DESIGN OF PIPE ANCHOR BLOCK FOUNDATION

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)
 = $(1.8 \times 1.8 \times 1.8) \times 25$ - Pipe 1.2Dia) = raft weight
 = 9.7 kN

Operating weight of Pipe Anchor Block, (W_o) = 240.00 kN

Total weight of Foundation system, P_o = 9.7 + 240

= 249.70 kN

Pipe Lever arm for moment = 0.65 m

Piping Horizontal Loads (input from Piping Stress)

F_y = 260 kN

F_x = 25 kN

Lateral Force due to thrust (Piping load transverse direction of the block) F_y = 260 kN

Moment due to lateral Force M_{x1} = 260×0.65
 = 169.00 kNm

Longitudinal Force due to unbalanced force F_x = 25 kN

M_{x1} = 25×0.65
 = 16.25 kNm

Anchor Block Asce Manual

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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 **Evaluation of Anchor Wall Systems' Landmark Reinforced Soil Wall System with T.C. Mirafi's Miragrid and Miratex Geogrid Reinforcement** Highway Innovative Technology Evaluation Center (U.S.), 2003-10-23 This report describes a HITEC evaluation designed to determine the basic capability and limitations of the Landmark Mirafi System for use as a technically viable precast MSE retaining wall system The evaluation was conducted based on the material design construction performance and quality assurance information outlined in the HITEC Protocol

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 **Air Force Manual** United States. Department of the Air Force, 1957 **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 530-05/ASCE 5-05/TMS 402-05) ; Specification for Masonry Structures (ACI 530.1-05/ASCE 6-05/TMS 602-05) ; Commentary on Building Code Requirements for Masonry Structures (ACI 530-05/ASCE 5-05/TMS 402-05) ; Commentary on Specification for Masonry Structures (ACI 530.1-05/ASCE 6-05/TMS 602-05). , 2005 **Senator Wash Dam, Dikes, and Pumping-generating Plant** United States. Bureau of Reclamation, 1970 **Technical Record of Design and Construction** United States. Bureau of Reclamation, 1970 Civil Engineering ASCE., 1965 Includes sections Recent books and Current periodical literature **ACI Manual of Concrete Practice** American Concrete Institute, 2003

Reclamation Manual: Design and construction, pt. 2. Engineering design: Design supplement no. 2: Treatise on dams; Design supplement no. 3: Canals and related structures; Design supplement no. 4: Power systems; Design supplement no. 5: Field installation procedures; Design supplement no. 7: Valves, gates, and steel conduits; Design supplement no. 8: Miscellaneous mechanical equipment and facilities; Design supplement no. 9: Buildings; Design supplement no. 10: Transmission structures; Design supplement no. 11: Railroads, highways, and camp facilities United States. Bureau of Reclamation, 1951 **PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam** Alan Williams, 2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring

This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural Reference Manual Tenth Edition STRM10 features include Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up to date codes for the October 2021 Exams Exam adopted codes and standards are frequently referenced and solving methods including strength design for timber and masonry are thoroughly explained 270 example problems Strengthen your problem solving skills by working the 52 end of book practice problems Each problem s complete solution lets you check your own solving approach Both ASD and LRFD SD solutions and explanations are provided for masonry problems allowing you to familiarize yourself with different problem solving methods Topics Covered Bridges Foundations and Retaining Structures Lateral Forces Wind and Seismic Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications AASHTO LRFD Bridge Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures TMS 402 602 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE 7 National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS North American Specification for the Design of Cold Formed Steel Structural Members AISI PCI Design Handbook Precast and Prestressed Concrete PCI Seismic Design Manual AISC 327 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 325 Design of Hydroelectric Power Plants - Step by Step Geraldo Magela

Pereira,2021-09-20 The design of a hydroelectric plant along with an installation of transformation of potential energy of water into electricity is an activity that is not standardized Each new project is an interesting engineering challenge and teams need to work in different conditions of each site integrated to design a functional economical and environmentally sustainable project The development of a project here understood as the plant itself the reservoir the maneuver substation and the associated transmission line is a multidisciplinary activity that encompasses areas of civil engineering geology mechanical and electrical engineering environmental engineering economic engineering construction and assembly and the engineering of operation and maintenance of civil works and electromechanical equipment The book is organized to facilitate the performance of professional life of the new generations of engineers who will join the Electric Sector or in other sectors that demand the knowledge regarding hydraulic structures The book is a simple manual providing the practical step by step procedure for designing hydroelectric plants including legislation with a general view of the project **Design of**

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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

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developments and thinking in the methods problems and challenges in the field of rock support including cable bolting shotcrete in mining support in rockburst prone ground and support design analysis and applications

Creep, Shrinkage and Durability Mechanics of Concrete and Concrete Structures, Two Volume Set Tada-aki Tanabe,Kenji Sakata,Hirozo

Mihashi,Ryoichi Sato,Kochi Maekawa,Hikaru Nakamura,2008-09-01 CREEP SHRINKAGE AND DURABILITY MECHANICS

OF CONCRETE AND CONCRETE STRUCTURES contains the keynote lectures technical reports and contributed papers presented at the Eighth International Conference on Creep Shrinkage and Durability of Concrete and Concrete Structures

CONCREEP8 Ise shima Japan 30 September 2 October 2008 The topics covered

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