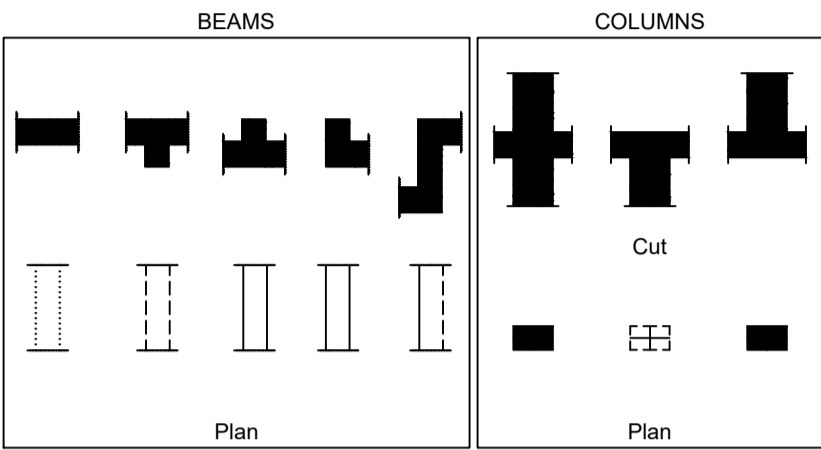
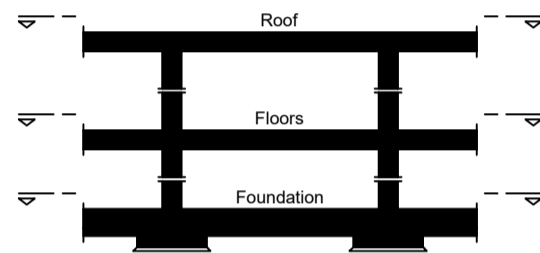


IDENTIFICATION OF STRUCTURAL ELEMENTS IN PLAN:



REPRESENTATION OF STRUCTURAL PLANS:

Represented through a horizontal section of the structure carried out above the floor and seen from top o bottom.



SLABS IDENTIFICATION TABLE:

+	(1) - Slab designation
(1)	(2) - Level of top face (m)
(2)	(3) - Thickness (m)
(3)	

DESIGNATION OF STRUCTURAL ELEMENTS IN PLAN:

Si - Foundation i	Pai - Wall i
VFi - Foundation Beam i	Nui - Core i
VLi - Girt i	Ei - Stair i
Msi - Retaining wall i	PTi - Ground floor i
Pi - Column i	LMi - Slab i

SPECIFICATION OF MATERIALS:

REINFORCED CONCRETE

(NP ENV13670-1:2007)	USEFUL LIFE : 50 years / INSPECTION CLASS : 2/ Fire Stability -				
(NP EN206-1:2007)	Resistance Class	Exposure Class	Chloride Content Class	Consistency Class	Nominal Cover
Foundations	C25/30	XC2	cl 0.40	S3	5.0 cm
Retaining Wall (Outer face)	C25/30	XC2	cl 0.40	S4	5.0 cm
Retaining Wall (Inner face)	C25/30	XC2	cl 0.40	S4	3.5 cm
Slabs/Stairs	C25/30	XC2	cl 0.40	S3	3.0 cm
Beams	C25/30	XC2	cl 0.40	S3	3.0 cm
Columns	C25/30	XC2	cl 0.40	S3	3.5 cm
Walls/Cores	C25/30	XC2	cl 0.40	S3	3.5 cm
Fillings	LC16/18; X0 (P); Cl 1.00; D1.0 (<600 Kg/m3)				
Blinding concrete	C16/20; X0 (P); Cl 1.00; Dmax 30; S3				

STEEL





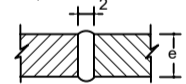


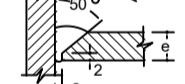


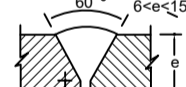


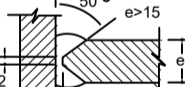











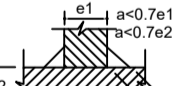


Ordinary Reinforcement	LNEC E 450-1998 A500 NR
Welded Reinforcement Mats	A500 EL (LNEC E457:2002)

STEEL STRUCTURES

(EN 1090-2:2008)	USEFUL LIFE: 50 years / EXECUTION CLASS : EXC2 / Fire Stability - n.o.	
(NP EN 1990:2009)		
Laminated plates and profiles	S275 JR (NP EN 10025)	
Tubular profiles	Hot Finished S275 JRH (NP EN 10210)	
Bolts	Class 8.8 (EN 14399-3)	
Parafusos pré-esforçados	Class 10.9 (EN14399-4 HV)	
Chumbadouras	Class 8.8 (fy = 640MPa)	
Nuts	Class 8 (EN 14399-3)	
Nuts (Prestressed)	Class 10.9 (EN14399-4 HV)	
Washers	(EN14399-5)	
Prestress	Y 1860 S7 15.7mm	

GENERAL NOTES:

- Design is in accordance with the Eurocodes.
- Requirement and design data shall be followed entirely given by both the specifications and drawings of the Eurocodes.
- All structural trades shall submit four sets of reinforcing bar shop drawings to the P.M. for approval prior to fabricating any pieces. Shop drawings prepared by the contractors, suppliers, etc., shall be reviewed by the local Structural Engineer only for conformance with design concept. No work shall be started without such review. All drawing revisions after the first substantial shall have all change clearly identified.
- Verify all dimensions with the architectural drawings prior to fabrication of any pieces. No connections or dimensions shall be revised or modified in the field without the written approval by the Structural Engineer. Contractor shall be responsible for all dimension and to report any discrepancies to the Architect.
- Contractors to assume full responsibility unrelied by review of shop drawings and by supervision or periodic observation of construction for compliance with the contract documents, for dimensions to be confirmed and controlled on the job site and between individual drawings or sets of drawings, for fabrication processes and construction techniques (including excavation, shoring, scaffolding, bracing, erection, formwork, etc.), and for safe conditions on the job site.
- Unless otherwise notes, all details, sections, and notes on the drawings are intended to be typical for similar situations elsewhere.
- The information contained on the structural drawings is in itself incomplete and void unless used in conjunction with all the contract documents and with all the specifications, trade practices, or applicable standards, codes, etc., that are required by the Architect and/or equipment, etc.
- The general contractor shall be responsible for coordinating the structural drawings with architectural, mechanical, plumbing, and electrical drawings for location and placement of all inserts, hangers, sleeves, ductwork, openings, etc., that are required by the Architect and/or equipment, etc.
- This contractor shall review entire set of contract documents including but not necessary limited to all architectural, all structural, all mechanical, all electrical, and all plumbing drawings. This contractor shall acknowledge and include in his scope of work all conditions pertinent to the completion of his work. He shall fully coordinate this work with the installation of work by other trades and make necessary field adjustments as required to accommodate his work. All of the above shall be included in the scope of work at no additional charge to the owner.
- This contractor shall carefully examine the drawings and specifications, visit the site of the work, and fully inform himself as to all conditions and matters that can in any way affect the work or the cost thereof. Should this contractor find discrepancies in, or omissions from the drawings, specifications or other documents, or should he be in doubt as to their meaning, he should notify the Architect at once and obtain clarification prior to submitting any bid.
- Each bidder, by making his bid, represents that he has read and understands the bidding documents, and that his bid is accordance with the documents, he has visited the site, and is familiar with conditions of the site under which the work is to be performed.
- Bidders shall promptly notify the Architect of any discrepancy, ambiguity or error, in writing, which they may discover upon examination of the documents or site.
- Bidders shall use complete set of documents in preparing bids. Neither the owner nor the Architect can assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of bidding documents.
- Do not scale drawings. Indeterminate dimensions shall be requested of and provided by the Architect.
- All items drawn and not noted, or noted "existing," are considered to be existing and are to remain unless specified otherwise. Incidental items not mentioned in the drawings that can be legitimately inferred to belong to the work or which are necessary in good practice to provide a complete system, shall be furnished and installed as though called out in every detail.
- Contractors shall verify the location of all underground and overhead utility lines, etc., and take all precautions necessary to protect same from damage. Any such damage shall be repaired or replaced at the contractor's cost.
- The contractors shall leave the work in perfect order at completion. Neither the final certificate of payment nor any provision in the contract documents shall relieve the subcontractors of the responsibility for negligence or faulty materials or workmanship, and upon written notice, they shall remedy defects due thereto and pay all expenses for any damage to other work resulting from the defective work.
- The contractor and subcontractors shall not commence work on this project until he has obtained all insurance required by the Owner and/or governing authorities and has presented copies of Certificates of Insurance indicating coverage, etc., for the Owner's approval.
- The contractor agrees to protect, defend and hold harmless and indemnify the Owner and Architect and their employees, agents and consultants from any claims, demands or expenses on account of any bodily injury alleged or real to persons, including sickness, disease or death, or damage alleged or real arising out of anything done under this contract by the contractor or any subcontractor or anyone directly or indirectly employed by either, except when directly due to errors in the drawings.
- The Owner's and Architect's responsibility lies in the permanent results and do not include the means, sequences or procedures employed by the contractor in executing and completing the work. It is the contractor's responsibility to determine the procedures of constructions, and to provide safe and adequate means of shoring, bracing, scaffolding, ladders, stage, hoists, temporary supports, and other facilities or methods as he may determine are required for the work.

WELDS				METHOD E			
SYMBOLLOGY		DETAIL		SYMBOLLOGY		DETAIL	
WORKSHOP/ASSEMBLY				WORKSHOP/ASSEMBLY			
							
							
							
							
WELDS IN GENERAL				WELDINGS IN GENERAL			
RX	BY "X-RAY"			 			
US	BY ULTRASOUNDS						
PREPARATION OF WELDING EXECUTION IN ACCORDANCE WITH STEEL STRUCTURES FOR BUILDINGS ARTICLES 28 TO 37; 60; 65; NP 1515, AND COMPLIANCE WITH EUROCODE 3 RECOMMENDATIONS ON EXECUTION AND QUALITY CONTROL							
OBS. WELDINGS IN GENERAL: a=0.7x MINOR THICKNESS TO CONNECT							