PART 1 - GENERAL

1.01 OVERVIEW

A. Floor structural frame, bridge structural frame, slabs and decks as applicable.

PART 2 - DESIGN CRITERIA

2.01 GENERAL

A. Building areas that require heavier floor loading for equipment, including equipment access pathways, or for future flexibility shall be arranged in increments of entire structural bays.

B. Floor design live load criteria shall be in accordance with Facility Program requirements.

C. Design floor elevation construction tolerance in accordance with Facility Program requirements.

D. Design details for openings shall be coordinated with the particular type of waterstop and fire/smoke seal that must typically be provided at each penetration.

2.02 FACILITIES WITH RESEARCH LABORATORIES

A. For facilities with sensitive equipment, provide vibration control in the structure to equal a V_{rms} Velocity Curve of 2000 μ in/s. Provide stiffer system if required for specific equipment.

B. Develop a planning grid that can adapt to laboratory, clinical, and vivarium functions.

C. Develop a structural grid to be consistent with the planning grid.

D. Shift structural grid approximately one (1) foot off planning grid in order to locate beams and girders out from under walls and benches wherever possible.

E. In vivarium areas, slope floor to drain where drains are provided.

PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

A. Drawings shall note the requirement that the underside of all post-tensioned concrete beams be identified with the words “POST TENSIONED BEAM - DO NOT DRILL”. The painted labeling is to be 3” high, red stenciled lettering, and be repeated at 20’ intervals, maximum, for beams longer than 20’.

B. Drawings shall note the requirement that the underside of all post-tensioned concrete. Identify slabs with the words “POST TENSIONED SLAB - DO NOT DRILL”. Painted labeling is to be 3” high, red stenciled lettering, and placed in each structural bay at maximum 500 square feet intervals.

PART 4 - DOCUMENT REVISION HISTORY

Issue	Date	Revision Description	Revised By
	20190301	**Original Issuance**	
Rev. 1			
Rev. 2			
Rev. 3			
Rev. 4			
Rev. 5			

END OF ELEMENT B1010