



**FRAMING GENERAL NOTES**

**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST ISSUE OF "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- STRUCTURAL STEEL: BEAMS: ASTM A992 GRADE 50, Fy = 50,000 psi. MISC. ANGLES, PLATES: ASTM A36, Fy = 36,000 psi. STRUCTURAL TUBING: ASTM A500, GRADE B, Fy = 46,000 psi.
- FIELD WELDING SHALL BE DONE BY A CERTIFIED WELDING OPERATOR. WELDS ARE SUBJECT TO REVIEW BY THE ARCHITECT OR ENGINEER.
- STRUCTURAL STEEL SHALL RECEIVE SUPPLIER'S STANDARD SHOP PLAN.
- SUBMIT COMPLETE SHOP DRAWINGS AND ERECTION PLANS TO THE ENGINEER FOR REVIEW BEFORE ANY FABRICATION IS BEGUN. REVIEW WILL COVER SIZE AND ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS, AND STRENGTH OF CONNECTIONS.
- USE ONLY 3/4" DIAMETER ASTM A325 H.S. BOLTS UNLESS NOTED OTHERWISE.
- PROVIDE ADEQUATE TEMPORARY BRACING OF THE STRUCTURE. FIT, PLUMB, LEVEL AND ALIGN STRUCTURAL STEEL BEFORE MAKING PERMANENT FIELD CONNECTIONS.
- PROVIDE CAP PLATES AT ALL COLUMNS U.N.O.

**STEEL JOISTS**

- ALL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS" OF THE STEEL JOIST INSTITUTE, LATEST ISSUE.
- JOIST SUPPLIER SHALL DESIGN JOISTS WITH CONCENTRATED LOADS AS PROVIDED ON THE PLANS.
- MINIMUM BEARING REQUIREMENTS UNLESS NOTED OTHERWISE:
  - 2 1/2" ON STRUCTURAL STEEL
  - 4" ON BEARING PLATES OVER MASONRY OR CONCRETE
- PROVIDE ALL JOIST BRIDGING AND ACCESSORIES FOR A COMPLETE INSTALLATION IN ACCORDANCE WITH THE SA SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
- ALL JOISTS AT COLUMNS SHALL HAVE BOLTED TOP CHORD CONNECTIONS.
- BRIDGING SHALL BE COMPLETELY INSTALLED AND JOISTS ALIGNED BEFORE ANY LOADS ARE PLACED ON THE JOISTS.

**METAL DECK**

- ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.
- PROVIDE ALL FLOOR AND ROOF DECK ACCESSORIES INCLUDING EDGE FORMS, COLUMN CLOSURES, FILLERS, POUR STOPS, EDGE SUPPORTS AND WELDING WASHERS FOR A COMPLETE INSTALLATION WHETHER OR NOT SUCH ITEMS ARE SHOWN ON THE PLANS.
- SLAB AND DECK SHALL BE PROVIDED AS FOLLOWS:
  - MECH. ROOM FLOOR: 3" NW SLAB OVER 2"-20 GA. METAL DECK
  - ROOF DECK: 1 1/2" X 20 GAGE WIDE RIB DECK, 36" WIDE PANELS FASTEN ROOF DECK AS SHOWN ON 1/55.01
- ALL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.

**DESIGN DATA**

FLOOR LIVE LOAD: 100 PSF  
 ROOF LIVE LOAD-SNOW AND ICE: 20 PSF + DRIFT  
 WIND & SEISMIC LOAD: 2003 KENTUCKY BUILDING CODE

**BUILDING FRAME STRUCTURAL DESIGN CRITERIA**

- BUILDING FRAME SHALL BE A PRE-ENGINEERED, STEEL FRAME, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF INDIANA.
- ALL STRUCTURAL STEEL MEMBERS AND WELDED PLATE MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". ALL LIGHT-GAGE MEMBERS, COLD-FORMED STRUCTURAL MEMBERS AND COVERING SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- DESIGN OF THE ROOF MEMBERS SHALL ACCOUNT FOR COLLATERAL LOAD DUE TO MECHANICAL UNITS SUSPENDED FROM THE ROOF FRAMING AS SPECIFIED IN DETAIL 1/55.03".
- THE COLUMNS SHALL BE ASSUMED TO BE "PINNED" AT THE FOUNDATIONS.
- AN ANCHOR BOLT LAYOUT PLAN INCLUDING THE FOUNDATION REACTIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER NO LATER THAN TWO WEEKS AFTER THE AWARD OF CONTRACT.
- MINIMUM DESIGN LOADS FOR BUILDING FRAME SHALL BE AS FOLLOWS:
  - WIND LOADS: 2003 KENTUCKY BUILDING CODE
  - SNOW LOADS: 2003 KENTUCKY BUILDING CODE
  - ROOF COLLATERAL LOADS: 15 P.S.F. OR 3.0 KIP CONCENTRATED LOAD (SEE DETAIL 1/55.03")

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CERTIFICATION  
**CONSTRUCTION DOCUMENTS**

**CARDINAL PARK NATATORIUM**

UNIVERSITY OF LOUISVILLE

Project: 08006  
 Drawn: T.J.R.

Checked: M.J.L.  
 Scale: AS NOTED  
 Issue Date: AUGUST 27, 2003  
 Revision:

**FRAMING SECTIONS**

**S5.01**