SECTION 05100

STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY
   A. This section provides general information standards.

1.2 REFERENCES

1.3 SYSTEM PERFORMANCE REQUIREMENTS

1.4 DEFINITIONS

1.5 SUBMITTALS

1.6 QUALITY ASSURANCE
   A. Quality Assurance shall be provided in accordance with Division 1.

1.7 DELIVERY, STORAGE, AND HANDLING
   A. Delivery, storage, and handling shall be provided in accordance with Division 1.

1.8 WARRANTY
   A. Product and system warranties shall be provided in accordance with Division 1.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

2.2 MATERIALS, GENERAL
   A. Metal Studs- Structural:
      1. 18 gauge and heavier units will fabricated of structural quality sheet steel with a minimum
          yield point of 40,000 psi: ASTM A 446, A 570, or A 611.
      2. 20 gauge and lighter units will be fabricated of structural quality sheet steel with a
          minimum yield point of 33,000 psi; ASTM A 466, A 570, or A 611.

PART 3 - EXECUTION

3.1 EXAMINATION

3.2 INSTALLATION, GENERAL

3.3 TESTING, CLEANING, AND CERTIFICATION

3.4 COMMISSIONING (DEMONSTRATION)

3.5 SCHEDULES

END OF SECTION
SECTION 05350

STEEL JOISTS, JOIST GIRDERS, STEEL DECKING

PART 1 - GENERAL

1.1 SUMMARY
   A. This section provides standards for steel joists, joist girders, steel decking.

1.2 REFERENCES

1.3 SYSTEM PERFORMANCE REQUIREMENTS
   A. General standards:
         Steel Plates, Shapes and Bars .......................................................... ASTM A 36
         Cold Formed Steel Tubing .............................................................. ASTM A 500, Grade B
         Fasteners ........................................................................................ ASTM A 325 or A 490
         Steel Pipe ........................................................................................ ASTM A53, Grade B
   B. Steel Joists and Joist Girders Standards:
      1. SJI "Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders" for types of joists indicated; comply with applicable provisions except as otherwise indicated.
         Steel .......................................................................................... ASTM A 36
         Fasteners ................................................................................... ASTM A 325 or A 490
   C. Steel Decking Standards:
      1. ANSI "Specification for the Design of Cold-Formed Steel Structural Members"; AWS "Structural Welding Code", SDI "Design Manual for Floor Decks and Roof Decks"; comply with applicable provisions except as otherwise indicated.
         Steel for Painted Units ................................................................. ASTM A 611, Grade C
         Galvanized Units ........................................................................... ASTM A 466, Grade A
         Steel Shapes .................................................................................. ASTM A 36
         Steel Metal Accessories .............................................................. ASTM A 526, galvanized
         Galvanizing .................................................................................. ASTM A 525, G60
         Galvanized Repair Paint ............................................................. MIL-P-21035 (Ships)

1.4 DEFINITIONS

1.5 SUBMITTALS

1.6 QUALITY ASSURANCE
   A. Quality Assurance shall be provided in accordance with Division 1.

1.7 DELIVERY, STORAGE, AND HANDLING
   A. Delivery, storage, and handling shall be provided in accordance with Division 1.
1.8 WARRANTY
   A. Product and system warranties shall be provided in accordance with Division 1.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
2.2 MATERIALS, GENERAL

PART 3 - EXECUTION
3.1 EXAMINATION
3.2 INSTALLATION, GENERAL
3.3 TESTING, CLEANING, AND CERTIFICATION
3.4 COMMISSIONING (DEMONSTRATION)
3.5 SCHEDULES

END OF SECTION
SECTION 05400
COLD FORM METAL FRAMING

PART 1 - GENERAL
1.1 SUMMARY
   A. This section provides standards for cold form metal framing.
1.2 REFERENCES
1.3 SYSTEM PERFORMANCE REQUIREMENTS
1.4 DEFINITIONS
1.5 SUBMITTALS
1.6 QUALITY ASSURANCE
   A. Quality Assurance shall be provided in accordance with Division 1.
1.7 DELIVERY, STORAGE, AND HANDLING
   A. Delivery, storage, and handling shall be provided in accordance with Division 1.
1.8 WARRANTY
   A. Product and system warranties shall be provided in accordance with Division 1.

PART 2 – PRODUCTS
2.1 MANUFACTURERS
2.2 MATERIALS, GENERAL
   A. Interior Stud Framing:
      1. Interior metal studs must be a minimum of 20 gauge.

PART 3 – EXECUTION
3.1 EXAMINATION
3.2 INSTALLATION, GENERAL
3.3 TESTING, CLEANING, AND CERTIFICATION
3.4 COMMISSIONING (DEMONSTRATION)
3.5 SCHEDULES

END OF SECTION
SECTION 05700
ORNAMENTAL METAL

PART 1 -GENERAL
1.9 SUMMARY
A. This section provides standards for ornamental metal.

1.10 REFERENCES

1.11 SYSTEM PERFORMANCE REQUIREMENTS

1.12 DEFINITIONS

1.13 SUBMITTALS

1.14 QUALITY ASSURANCE
A. Quality Assurance shall be provided in accordance with Division 1.

1.15 DELIVERY, STORAGE, AND HANDLING
A. Delivery, storage, and handling shall be provided in accordance with Division 1.

1.16 WARRANTY
A. Product and system warranties shall be provided in accordance with Division 1.

PART 2 – PRODUCTS

2.3 MANUFACTURERS

2.4 MATERIALS, GENERAL
A. Handrails:
   1. To be made of metal not requiring hand painting such as stainless steel or aluminum.

PART 3 – EXECUTION

3.6 EXAMINATION

3.7 INSTALLATION, GENERAL

3.8 TESTING, CLEANING, AND CERTIFICATION

3.9 COMMISSIONING (DEMONSTRATION)

3.10 SCHEDULES

END OF SECTION