SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE DRAWING BOOK 13 - GENERAL NOTES | DATE 11-3-72

REVISIONS

Released for construction
11/20/72
12/11/72

GENERAL NOTES

The following provisions apply to all Drawing Book 13 drawings, unless specifically shown as noted otherwise in Drawing Book 13 drawings or in the plans.

A. Specification

1. All material, fabrication and erection shall be in accordance with Basic Project Specifications.

B. Dimensions

1. Contractor will be furnished field measurement for existing column locations and splice elevations prior to submitting mill orders.
2. Shop Drawings must indicate these field measurements prior to approval.
3. Columns shall be installed vertical above existing columns, with girder lengths adjusted to fit; however, detail material for future columns shall be installed in its theoretical location.

C. Materials

1. All steel sections, plates, detail materials and other members shall be ASTM A36, unless specifically shown otherwise.
2. Members indicated in the Drwings as "tube" are rectangular seamless structural tubing and shall conform to ASTM A501.

D. Bolted Connections

1. All bolted connections shall be high strength friction type, except where specifically noted as A307, or A490X (Bearing Type with threads excluded in shear plane).
2. A minimum of 2-3/4" Ø bolts shall be used at each member connected except where specifically noted in the Drawings.

E. Welded Connections

1. All manual welded electrodes shall be E70XX low hydrogen type.
2. All submerged arc welding shall be Grade SAW-2.
3. Studs shall be applied using a stud welding system providing a minimum current of 2000 amperes.
4. Where the symbols  are shown in the drawings the fabricator shall provide a complete penetration weld. The fabricator may provide single or double bevel, V, U or J groove welds conforming to approved welding procedure specifications.

F. Erection Sequence

1. Character of two-way girder connections require sequenced erection of girders including shoring of one end prior to installing perpendicular supporting girder; therefore, Contractor to submit Erection Sequence and shoring to the Engineer for approval.

F. Miscellaneous

1. Specific details and notes shall prevail over general details and notes.

   Any conflict or apparent conflict between drawings and/or notes shall be submitted to the Engineer for his decision before construction or preparation of shop drawings has begun.
2. Section/details indicated 3.3-10E means Section/Detail E in Drawing Book 13 page 13-K3.3-10.
3. Page numbers in Drawing Book 13 which include more than one page are numbered 2.1, 2.2, 2.3, etc. Page numbers which include only one page are numbered 2 with no decimal. Where reference is made to page numbers with more than one page, the decimal portion of the page number is not included. Therefore, a section or detail indicated 3-2 may be 13-K3-2.1, 2.3, etc.

G. Finishing

1. Compression joints depending upon contact bearing are indicated thus  in the drawings.
2. Where surfaces are finished by milling, plate thickness shown in the Drawings shall be reduced a maximum of 1/8 inch for plates up to and including 2 inches thick, a maximum of 1/4 inch for plates over 2 inches thick, except that plates indicated thus (1.2-1G) in the Drawings shall be increased in thickness to allow for milling.
3. Top of Base Plates at future columns shall be at elevation shown in the Drawings, after erection. Base Plates shall be thickened as required for milling operation in order to achieve this elevation.
4. The surface of each girder flange in contact with a cap plate or base plate may be considered finished without further work where the following criteria is met: Contact bearing surfaces shall have at least 75% of the entire contact area in full bearing and the separation of the remaining portion shall not exceed 0.01 inch except adjacent to toes of flanges or corners of plates where a localized separation not exceeding 0.025 inch is permissible.

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DESIGNED

DRAWN

REVIEWED

13-K1.2-1