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

PROJECT: THE WORLD TRADE CENTER | TITLE: FL 107-PH GENERAL NOTES | DATE: 4-1-70

REVISIONS

5-27-70 R

GENERAL NOTES

The following provisions apply to all Drawing Book 9 drawings, unless specifically shown as noted otherwise in Drawing Book 9 drawings or in the plans.

A. Dimensions

1. All beam reference center lines and column reference center lines are located in the plans.

2. Elevation of top of steel is shown in the plans. See Beam Types (9-AB4 & 9-AB5) for location on beam of reference top of steel.

3. Where a dimension is shown in the drawings from the centerline of a beam or column it shall be considered to be from the reference centerline of the beam or column. Where a dimension is shown from the face of a column it shall be considered to be from the theoretical face of the column. The theoretical face of the column is located from the reference centerline of the column by e distance equal to one half of the scheduled column width or depth.

B. Materials

1. All steel sections, plates, detail materials and other members shall be ASTM A36, unless specifically shown otherwise. Steel parts noted in the drawings as Fy 50, or in general Fy XX, refers to steel conforming to the ASTM specifications with yield point corresponding to 50 or XX.

2. Members indicated in the Drawings as "tube" are rectangular seamless structural tubing and shall conform to ASTM A501.

3. Studs shall be manufactured from AISI grade C1015, C1017 or C1020 steel conforming to the requirements of ASTM A108. All studs will be furnished & installed by KKE under Contract WTC-230.00.

C. Bolted Connections

1. All bolted connections shall be high strength friction type, except where specifically noted as A307.

2. All high strength bolts shall be ASTM A325, except where specifically noted in the drawings as ASTM A490.

3. A minimum of 2-3/4" Ø bolts shall be used at each member connected except where specifically noted in the Drawings.

4. All field bolts to be furnished under Contract WTC-234.00. Field bolt lists and summaries will be prepared by the PNYA's Steel Detailer.

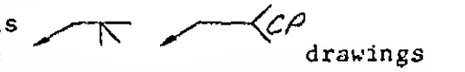
D. Welded Connections

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 weld joint details are not designated prequalified by AWS, each welding procedure submitted for approval shall be accompanied by welding procedure qualification test certification and reports.

5. 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.

E. Connection Details

1. Where connection plate dimensions are not shown in the drawings, plate dimensions shall be determined by providing standard AISC edge distances with the indicated bolt spacing. Where bolt spacing is not shown use AISC spacing with 3" min.

2. Use standard gauge for all bolts in beams unless otherwise shown in the drawings, or approved by the Engineer.

3. The bolt pattern is the same for the top and bottom plates or both side plates of a connection unless otherwise shown in the drawings.



DESIGNED

DRAWN

REVIEWED E. Drawas

9-AB1-2.1