GENERAL NOTES

ASTM F1554 Grade 55

SECTION 5 - STRUCTURAL STEEL

SECTION 5.1 - STRUCTURAL FRAME

5.1.1 Structural Steel Properties:

High Strength Steel ASTM A992 Grade 50 Use High Strength Steel for W Shapes and WT's, u.n.o. Structural Steel (Normal Strength) Use for Angles, Channels, and Plates, u.n.o. Steel Pipes ASTM A53, Grade B Hollow Structural Sections (HSS) ASTM A500, Grade B Erection Bolts ASTM A307 High Strength Bolts ASTM A325N

5.1.2 Continuity Plates (Full Depth column stiffeners aligned with beam flanges, or Full Depth beam stiffeners aligned with column flanges) shall match the steel grade of the base member.

Anchor Bolts

- 5.1.3 Unless otherwise noted, angles, plates, rods, and miscellaneous framing shall be welded at contact joints and supports. Weld sizes shall conform to AWS D1.1 minimums, except where noted otherwise.
- 5.1.4 Where fillet weld sizes are not indicated on weld symbols, fillet size shall be 1/16th inch smaller than thickness of thinner of materials being joined.
- 5.1.5 Complete penetration welds are indicated by notation "CP" on weld symbols, partial penetration by "PP".
- STRUCTURAL BOLTS
- 5.1.6 Bolts indicated on details shall be 3/4 inch diameter, unless noted otherwise.
- 5.1.7 Bolts shall be tightened by the AISC "Snug Tight" method unless
- MISCELLANEOUS 5.1.8 Edge angles supporting floor or roof deck shall be spliced only over supports

5.1.9 Weld deformed bar anchors and headed stud anchors by full-fusion process. Weld in accordance with manufacturer's reccommnedations regarding equipment, conditions of material, and temperature. Weld in accordance with AISC Specifications and with AWS D1.1 and D1.4. Permit only AWS certififed welders to perform welds.

SECTION 5.4 - METAL ROOF DECK

5.4.1 Metal Deck Schedule: SDI Deck Sheet Min. Min. Min.

Deck Deck Depth Width Ix Sx(top) Sx(bot) Gauge Type (In.) (In.) (In.4) (In.3) (In.3) Finish 20 WR 1.5 36 0.210 0.232 0.245 Galv.

5.4.2 Metal Deck Connection Schedule:

Conn. @ Conn. @ Sidelap Reg'd Shear Inst. Supports Parallel Edges (In.) No./Span (PLF) Mark (W/N) _____

I 36/7 6 4

1. Listed shear capacity is "Service Level" and based on a maximum support spacing of 5.5 feet on center.

- 5.4.3 Support and parallel edge connections shall be 5/8-inch diameter puddle welds. Sidelap connections shall be no. 10 hex head screws or 1/8" x 1.5" fillet welds.
- 5.4.4 W/N = sheet width/no. connections each sheet.
- 5.4.5 Deck connections shall be Mark I throughout.

SECTION 5.5 - ARCHITECTURALLY EXPOSED STEEL

copes and blocks.

- 5.5.1 Architecturally Exposed Steel is required where noted on drawings.
- 5.5.2 Welds ground smooth: Fabricator shall grind welds of AESS smooth. For groove welds, the weld shall be made flush to the surfaces each side and be within +1/16", -0" of plate thickness
- 5.5.3 Contouring and blending of welds: Where fillet welds are indicated to be ground contoured, or blended, oversize welds as required and grind to provide a smooth transition.
- 5.5.4 Continuous Welds: Where welding is noted on the drawings, provide continuous welds of a uniform size and profile.
- 5.5.5 Minimize Weld Show Through: At locations where welding on the far side of an exposed connection occurs, grind distortion and marking of the steel to a smooth profile with adjacent material.
- 5.5.6 Coping and Blocking Tolerance: Maintain a uniform gap of 1/8" ± 1/32".
- 5.5.7 Joint Gap Tolerance: Maintain a uniform gap of 1/8" ± 1/32" at all
- 5.5.8 Piece Marks Hidden: Fabricate such that piece marks are fully hidden in the final structure or made with such media to permit full removal after erection.

- 5.5.9 Surface Defects Minimized: Remove deformities and scars in edges that occur in the process of handling materials.
- 5.5.10 Mill Marks: Fabricator shall endeavor to deliver steel with no mill marks (stenciled, stamped, raised etc) in exposed locations. Mill marks shall be omitted by cutting of mill material to appropriate lengths where possible or orienting material where mill mark is not
- 5.5.11 Grinding of sheared edges: Fabricator shall grind all edges of sheared, punched or flame-cut steel.
- 5.5.12 Seal weld open ends of round and rectangular hollow structural section with 3/8" closure plates. Provide continuous, sealed welds at angle to gusset-plate connections and similar locations where AESS is exposed to
- 5.5.13 Removal of field connection aids: Run-out tabs, erection bolts and other steel members added to connections to allow for alignment, fit-up, and welding in the field shall be removed from the structure. Field groove welds shall be selected to eliminate the need for backing bars or to permit their removal after welding. Welds at run-out tabs shall be removed to match adjacent surfaces and ground smooth. Holes for erection bolts shall be plug welded and ground smooth
- Architect.
- Ream holes that must be enlarged to admit bolts. Replace connection plates that are misaligned where holes cannot be aligned with acceptable final appearance.

SECTION 6 - DEFERRED APPROVALS

- 6.1 The following items require deferred approval from the enforcement agency. See specifications for additional design services to be provided by Contractor. a) Cold formed metal framing, exterior and interior. b) Anchorage details for roof mounted equipments c) All elements required by construction activities including shoring
- 6.2 The design of the above items is by the Contractor/Manufacturer. Contractor/Manufacturer must prepare all necessary calculations of a Structural Engineer, registered in the state in which the project is located, and obtain all necessary plan check approvals
- 6.3 Fabrication and installation of the above items shall not be started until detailed plans, specifications and engineering calculations have been accepted and signed by the Architect or Structural Engineer of Record and the signature of the Architect or Professional Engineer who has been delegated responsibility covering the work shown on a particular plan

Anchor Bolt K-FT ADDL Additional LBF ADJ Adjacent LLBB

AESS Architectural Exposed LLH LLV Structural Steel AFF Above Finished Floor LSH AGGR LSV Aggregate ALT Alternate ARCH Architect(ural)

BLDG Building BLK Block BM Beam BOT, B Bottom BRG Bearing BTWN

5.5.14 Obtain permission for any torch cutting or field fabrication from the

5.5.15 Do not enlarge unfair holes in members by burning or by using drift pins.

- d) New parapet framing
- and drawings per the applicable Building Code under the supervision from the enforcement agency.
- or specification, and approved by the enforcement agency.

Kip-Feet (Moment) Pound-Force Long Leg Back-to-Back Long Leg Horizontal Long Leg Vertical Long Side Horizontal Long Side Vertical Moment MATL Material Building Line

CFMF CGS Center of Gravity of Steel NS CIP Cast-in-Place NSG CJ Construction Joint NTS OC Center Line Concrete Masonry OP HD COL COMP Compression OPNG

CONC Concrete CONN P-T Connect(ion CONSTR PCC Construction CONT PEN Continuous COORD Coordinate CTR PIL CW

Deformed Bar Anchor DEG DET DIA or Ø Diameter Dimension DIST

DWL Dowel Fach Each Face Expansion Join Elevation

ELEV Elevator **ENGR** Engineer EQ EW Each Way

EXP BT **EXST**

EXT Exterior **FABR** Fabricator

FDTN FIN FLR. FF Floor

Finish Floor FLR Far Side

GR BM Grade Beam HORIZ, H Horizontal

HSA INFO Information

INTERM Intermediate JST Joist Kip (1,000 pounds)

LEVEL 2
115' - 0"

LEVEL ELEVATION
(RELATIVE TO DATUM
FLEVATION 100' - 0")

COLUMN MARK

PLAN)

F2 FOOTING MARK

ELEVATION 100' - 0")

ELEVATION (REFER

KNEE BRACING

AND INCHES

TOP OF COLUMN INDICATOR

BEAM SPLICE (LENGTH GIVEN

COMPLETE PENETRATION

MOMENT CONNECTION

FROM COLUMN CENTERLINE TO

CENTERLINE OF SPLICE IN FEET

SYMBOL LEGEND

TOP OF CONCRETE ELEVATION

TOP OF WALL ELEVATION

TOP OF STEEL ELEVATION

(BOTTOM OF METAL DECK)

SPOT ELEVATION

SECTION

ELEVATION

PLAN DETAIL

ENLARGED PLAN OR

S101

STANDARD ABBREVIATIONS

MAX Brick Ledge Maximum MECH Mechanical MEP Mech/Elec/Plumbing MFR Manufacturer MIN Minimum MK Mark MTL Metal NIC Not in Contract Cold-Formed Metal Framing NO Number Near Side Non-Shrink Grout Not to Scale On Center Outside Face Opposite Hand Opening Pan (form) Post-Tensioning Precast Concrete Penetration Plasticity Index Pilaster Curtain Wall Plate Bar Diameter(s) PNL PSF Pounds Per Square Foot PSI Pounds Per Square Inch Radius RECT Rectangle(ular) REF Refer (to) Distance DWG REINF Reinforcing REQD Required RT Slip-Critical SCHED Schedule SECT Section SHT Sheet SIM Similar SOG Slab-on-Grade SPA Space(ing) SPEC Specifications Expansion Bo Square Stirrup(s) STD Standard Force (Axial) STIF Stiffener STL Foundation STRUCT Structure(al) SUPPT Support SYMM Symmetrical Tension Top and Bottom **General Contractor** TEMP Temperature General Notes TOC Top of Concrete Top of Footing TOJ Top of Joist TOP Top of Pier Headed Stud Anchor TOS Top of Steel TOW Hollow Structural Section Top of Wall Treaded Rod Adhesive Anchor Typical ULT Ultimate (force) UNO Shear VERT. V Vertical

Unless Noted Otherwise

Wood

CAST-IN-PLACE CONCRETE WALL

CONCRETE MASONRY

MECHL. EQUIPMENT

SEE PLAN FOR WEIGHT

CONCRETE TOPPING

Working or Work Point

WD

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Architect:

DROP IN STRUCTURE SLOPE IN STRUCTURE

> Job Numbe 3044 Drawn By: Checked By:



LOBBY AND ADA DOCUMENTS

Drawing Title:

GENERAL NOTES

