CONCRETE AND FOUNDATIONS NOTES

1. FOR TYPICAL REINF. AT CONCRETE SLAB BLOCKOUT FOR STEEL COLUMN, SEE <<B/S-001>>.
2. FOR TYPICAL EXTERIOR EQUIPMENT PAD, SEE <<B/S-002>>.

TABLE 'A' NOTES

1. TABLE A PRESENTS LENGTHS OF TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS BASED ON ACI 318-05, SECTION 12.2.2.
2. TABLE A LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM AREA PROVIDED IS AT LEAST TWICE THAT REQUIRED.
3. CONCRETE REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. UNLESS NOTED OTHERWISE.
4. CONCRETE FOR ALL OTHER PURPOSES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. CONCRETE USED FOR INTERIOR SLABS SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI OR MORE.
5. JOINTS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLANS. FOR FLOOR SLAB JOINTS SHALL BE CONSTRUCTION OR CONTRACTION JOINTS.
6. ALL SLAB REENTRANT CORNERS SHALL HAVE (2)-#4 X 4'-0" BAR AT 45° TO THE CORNER, UNLESS THERE IS A JOINT COMING OFF THE REENTRANT CORNER.

CONCRETE AND FOUNDATIONS

1. ALL NOTES, SCHEDULES, SECTIONS, AND DETAILS ON SHEETS <<S-001>>.

GENERAL STRUCTURAL NOTES

1. DESIGN LOADS (LFC): 3-30/20, 27 Jun 2010, WHEN CHANGE 2 31 Jan 2011, UNLESS NOTED OTHERWISE.
2. DESIGN WIND LOADS-------------------ASCE 7-05.
3. DESIGN WIND SPEEDS-------------------WEATHER Modification FACTORS....
4. OCCUPANCY CATEGORY:...
5. SITE CLASSIFICATION:...
6. RESPONSE MODIFICATION FACTORS:...
7. ANALYSE STRUCTURAL EQUIPMENT LATERAL FORCE:...

STEEL COLUMN OUT IN CONCRETE SLAB

1. GENERAL STRUCTURAL NOTES

2. ALL PROPRIETARY SYSTEMS OR ACCESSORIES DESIGNATED, UNLESS NOTED OTHERWISE, MEET THE REQUIREMENTS OF THE SYSTEM AND EXCEPT FOR ANY SUBSTITUTIONS BY THE ENGINEER OF RECORD THOUSAND OF LOAD CAPACITY GREATER THAN OR EQUAL, AND DEFLECTION LIMITS AS REQUIRED AND ARE NOT EQUIVALENT TO THE DESIGNATION SYSTEM OR ASSEMBLY RESPONSE TIME THAT HAS LONG CAPACITY GREATER THAN OR EQUAL PRESENTED BY THE SYSTEM, APPROVAL SHALL BE REQUESTED FOR ANY SUBSTITUTIONS BY THE ENGINEER OF RECORD UNLESS NOTED OTHERWISE, IF ONLY ONE WAY OF STEEL IS REQUIRED.
3. FOR TYPICAL OUTSIDE JOINT OR WALL OPENING REINFORCEMENT SEE (S-02/05).
4. FOR TYPICAL INTERIOR EQUIPMENT PAD SEE (S-02/05).
5. FOR TYPICAL INTERIOR EQUIPMENT PAD SEE (S-02/05).
6. FOR TYPICAL RECIRCULATED WATER DETAIL SEE (S-02/05).
7. FOR TYPICAL RECIRCULATED WATER DETAIL SEE (S-02/05).
8. FOR ARCH FOOT PLANS FOR LOCATIONS AND SIZES.
**STRUCTURAL STEEL NOTES**

1. Structural steel shall be fabricated and erected in accordance with the AISC steel construction manual, 13th edition.
2. All welds shall be made in accordance with AWS D1.1:2010 Code, using E70 electrodes.
3. All welds shall be made with a minimum weld size of 1/8".
4. All welds shall be made with a minimum weld size of 1/8".

**STEEL DECK SCHEDULE**

<table>
<thead>
<tr>
<th>Label</th>
<th>Description</th>
<th>Support</th>
<th>Edge</th>
<th>Deck</th>
<th>Facade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8</td>
<td>4 Gauge, Corrugated Steel Deck</td>
<td>New</td>
<td>New</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>1/4</td>
<td>5 Gauge, Corrugated Steel Deck</td>
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</tbody>
</table>

**STEEL DECK SCHEDULE NOTES**

1. Decks shall be continuous over at least 2 supports.
2. Each deck panel shall be attached to supporting members and adjacent panels.
3. Decks shall be loaded or approved equal.

**PRE-ENGINEERED METAL BUILDING NOTES**

1. The building shall be a pre-engineered metal structure of the area and adjacent steel.
2. All welds shall be made with a minimum weld size of 1/8".
3. All welds shall be made with a minimum weld size of 1/8".
4. All welds shall be made with a minimum weld size of 1/8".

**SPLICE LOCATION**

<table>
<thead>
<tr>
<th>Sequence No.</th>
<th>Label</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-003</td>
<td>Pre-Engineered Metal Building Notes</td>
<td>Edited March 9, 2012</td>
</tr>
</tbody>
</table>

**PRE-ENGINEERED METAL BUILDING NOTES**

1. The building shall be a pre-engineered metal structure of the area and adjacent steel.
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3. All welds shall be made with a minimum weld size of 1/8".
4. All welds shall be made with a minimum weld size of 1/8".

**INSULATED METAL WALL PANELS**

1. Wall panel and connection design shall be stamped by a registered professional engineer and submitted for approval.
2. Wall panel and connection design shall be stamped by a registered professional engineer and submitted for approval.

**PRE-ENGINEERED STARS**

1. Star symbols, threads, nuts, and other accessories to complete the pre-engineered systems shall be designed and provided by the contractor.
2. Connections of the star symbols to the supporting structure shall be designed and provided by the contractor.
3. Submit design calculations and drawings stamped by the registered professional engineer.
4. See arch for additional requirements.
**SLAB ON DECK CONSTRUCTION OR CONTRACTION JOINT DETAIL**

**NOTES:**
1. Joist stiffeners not required for loads applied within 6" of panel points for total loads less than 50lb.
2. For joint size and slope see plan.
3. Field welding and field connections to joists shall be performed in accordance with manufacturer's recommendations.

**BEAM CONNECTION DETAILS**

<table>
<thead>
<tr>
<th>Beam</th>
<th>Shear Tab</th>
<th>Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>W10</td>
<td>3/8&quot;</td>
<td>2 @ 12-3/4&quot;</td>
</tr>
<tr>
<td>W16</td>
<td>3/8&quot;</td>
<td>2 @ 12-3/4&quot;</td>
</tr>
<tr>
<td>W21</td>
<td>3/8&quot;</td>
<td>2 @ 12-3/4&quot;</td>
</tr>
<tr>
<td>W26</td>
<td>3/8&quot;</td>
<td>2 @ 12-3/4&quot;</td>
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</table>

**JOISTS WEB REINFORCING**

**BEAM TO HSS COLUMN CONNECTION SCHEDULE**

<table>
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**SCALE: 3/4" = 1'-0"**

**EDITOR'S NOTE:**

Typical Framing Details, Edited March 15, 2012.