GENERAL STRUCTURAL NOTES

1.0 GENERAL
1.01 DRAWINGS SHOW TYPICAL AND SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
1.02 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES.
1.03 THE DESIGN, ADEQUACY AND SAFETY OF FLOOR BRACING, SHARING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
1.04 COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL. NOTIFY ENGINEER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
1.05 ANY BEAMS, BEARING MATERIALS MAY BE SUBSTITUTED IN AN EQUIVALENT PRODUCT BY AN ALTERNATE MANUFACTURER, IF APPROVED BY THE ENGINEER OF RECORD.

2.00 CONCRETE
2.01 PRIOR TO CASTING FOUNDATIONS, PREPARE THE SITE IN ACCORDANCE WITH PLANS, SPECIFICATIONS AND REQUIRED COMPLIANCE.
2.02 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMpressive STRENGTH:

<table>
<thead>
<tr>
<th>Type</th>
<th>Strength (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24'-2&quot;</td>
<td>3,000</td>
</tr>
<tr>
<td>19'-8&quot;</td>
<td>1,800</td>
</tr>
</tbody>
</table>

2.03 SETTLEMENT
2.04 ALL WOOD FRAMING MEMBERS ARE INTENDED TO ACT AS A SYSTEM AS DETAILED IN THE STRUCTURAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY OF THE WOOD FRAMING SYSTEMS (IE. TEMPORARY BRACING IF REQUIRED DURING CONSTRUCTION).

2.05 ALL SAWN LUMBER SHALL CONFORM TO THE AMERICAN SOFTWOOD LUMBER STANDARD, PS2000.

2.06 OTHER WOODEN STRUCTURES SHALL BE CONSTRUCTED TO THE APPLICABLE CODES AND SPECIFICATIONS.

2.07 ALL WOODS TO BE USED IN FRAMING, JOINERY, DOORS, ETC., SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CODES AND SPECIFICATIONS.

2.08 STRUCTURAL FABRIC TO PREVENT RISK OF COLLAPSE.

3.00 POST FOUNDATIONS
3.01 SOUTHERN YELLOW PINE NO.2 PRESSURE TREATED

3.02 STORAGE OF ALL WOOD AND TIMBER ON SITE SHALL BE KOPT OFF THE GROUND, UNDER COVER, AND PROTECTED FROM DAMAGE.

3.03 FASTENERS FOR PRESERVATIVE-TREATED AND FIRE RETARDANT-TREATED WOODS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL AND SHALL FOLLOW CURRENT MANUFACTURER'S GUIDELINES.

3.04 HOLES FOR BOLTS SHALL BE DRILLED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16”.

3.05 ALL BOLTS, CAGE BOLTS, LAG SCREWS, EXPANSION BOLTS, AND EPOXY BOLTS SHALL BE INSTALLED WITH STANDARD CUT WASHERS AND NUTS THAN DRAWN DIRECTLY ON THE WOOD. ALL NUTS SHALL BE WITHDRAWN PRIOR TO SHORTENING THE BOLT. LEAD HOLES FOR LAG SCREWS SHOULD BE DRILLED PER NDS.

3.06 GLASS SUBSIDIARIES SUCH AS GLASS, LEAD, AND STONE SHALL BE CLEANED AND DRIED BEFORE INSTALLATION.

3.07 THE MINIMUM STRENGTHS FOR LAG SCREWS AND WOOD SCREWS SHALL BE AS FOLLOWS:

<table>
<thead>
<tr>
<th>Screw Type</th>
<th>Max. Shank Diameter (Inches)</th>
<th>Min. Penetration (Inches)</th>
<th>Min. Bending Yield Strength (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1/2</td>
<td>1/2</td>
<td>3</td>
<td>65,000</td>
</tr>
<tr>
<td>3-1/4</td>
<td>3/16</td>
<td>4</td>
<td>45,000</td>
</tr>
</tbody>
</table>

4.00 SUN SHADE FABRIC
4.01 SUN SHADE Material shall be fire retarded, UV resistant, and withstand the applicable loading from the design wind load. Orientation listed below. The shade is not required to be retractable but must be removable and replaceable.

4.02 SUN SHADE MUST SHED WATER TO THE EDGES OF THE CANOPY OR WEEP THROUGH THE FABRIC TO PREVENT RISK OF COLLAPSE.

4.03 CONTRACTOR SHALL SUBMIT MATERIAL PRODUCT SPECIFICATIONS AND FINISH FOR REVIEW AND APPROVAL BY EOR.

DESIGN CRITERIA - CODES AND SPECIFICATIONS

1. INTERNATIONAL BUILDING CODE (IBC)
2. ASCE/SEI 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3. PER 2015 NATIONAL DESIGN ASSOCIATION SPECIFICATION FOR WOOD CONSTRUCTION

DESIGN LOADS

<table>
<thead>
<tr>
<th>Building Category</th>
<th>Wind Exposure</th>
<th>Risk Category</th>
<th>Basic Wind Speed (NM)</th>
<th>Design Wind Speed (NM)</th>
<th>10-Min. Wind Speed (NM)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>I</td>
<td>60 MPH</td>
<td>65 MPH</td>
<td>70 MPH</td>
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<tr>
<td>2</td>
<td>2</td>
<td>I</td>
<td>80 MPH</td>
<td>85 MPH</td>
<td>90 MPH</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>I</td>
<td>100 MPH</td>
<td>105 MPH</td>
<td>110 MPH</td>
</tr>
</tbody>
</table>

CODES AND SPECIFICATIONS

1. ASCE/SEI 7
2. INTERNATIONAL BUILDING CODE 2015
3. NATIONAL DESIGN ASSOCIATION SPECIFICATION FOR WOOD CONSTRUCTION

GENERAL NOTES AND FRAMING PLANS

FABRIC TO PREVENT RISK OF COLLAPSE.

SHADE CANOPY MUST SHED WATER TO THE EDGES OF THE CANOPY OR WEEP THROUGH THE FABRIC TO PREVENT RISK OF COLLAPSE.

THE MINIMUM STRENGTHS FOR LAG SCREWS AND WOOD SCREWS SHALL BE AS FOLLOWS:

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CITY OF ALEXANDRIA, VIRGINIA

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www.stantec.com

4500 DALY DRIVE, SUITE 100 CHANTILLY, VA 20151
REFER TO TYPICAL DETAILS FOR MINIMUM CONNECTION REQUIREMENTS.

ELEVATION SHEET NOTES:

1. REFER TO TYPICAL DETAILS FOR MINIMUM CONNECTION REQUIREMENTS.