## AREN Senior Design - Structures - Design Development Assessment

### Team #

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
<th>Professional</th>
<th>Adequate</th>
<th>Needs Improvement</th>
<th>Poor</th>
<th>Unacceptable</th>
<th>Grade</th>
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#### Levels of Achievement

- **Professional**: The description is well done and includes all explanations for 1) the wind load and tributary area for the selected lateral load resisting system, 2) the load path for the overturning moment analysis, 3) design procedure used for the lateral load analysis, and 4) design procedure for the selected connection.
- **Adequate**: The description is complete but brief and may lack some detail.
- **Needs Improvement**: The description is complete but is not well developed or is hard to follow; some factors are not explained or justified.
- **Poor**: The description is done without any explanation or justification; some factors may be missing.
- **Unacceptable**: The overall description is inadequate or missing entirely.

#### Calculation

- **Professional**: The calculation is well done and includes all requirements: 1) structural calculation for the lateral load analysis, 2) calculation for the overturning analysis, and 3) calculation for the connection design.
- **Adequate**: The calculation is complete but brief and may lack some detail.
- **Needs Improvement**: The calculation is complete but is not well developed or is hard to follow; some factors are not explained or justified.
- **Poor**: The calculation is done without any explanation or justification; some factors may be missing.
- **Unacceptable**: The overall calculation is inadequate or missing entirely.

#### Drawings

- **Professional**: The drawings are well done and include all requirements: 1) drawings for the selected lateral resisting system including elevations, structural element shapes and sizes, 2) drawings of details for the selected connection.
- **Adequate**: The drawings are complete but brief and may lack some detail.
- **Needs Improvement**: The drawings are complete but is not well developed or is hard to follow; some factors are not explained or justified.
- **Poor**: The drawings are done without any explanation or justification; some factors may be missing.
- **Unacceptable**: The drawings are inadequate or missing entirely.

### Comments

- **General**:
- **Description**:
- **Calculation**:
- **Drawings**

Template