

Annotation Guidelines

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- **Notes:** Initial submission of guidelines

Note:

- When annotating far-away objects, they must be discernable. One way to make sure that they are is by viewing the bounding boxes in the target resolution. While an object in an image that is 1000x1600 may be easily noticed, it may be far from noticeable after resizing the image to something a model can train on, like 300x300.
- To CITE this annotation guideline please use the reference of the journal article titled *“Development of Open-source Collaborative Structural Inspection Datasets”*.

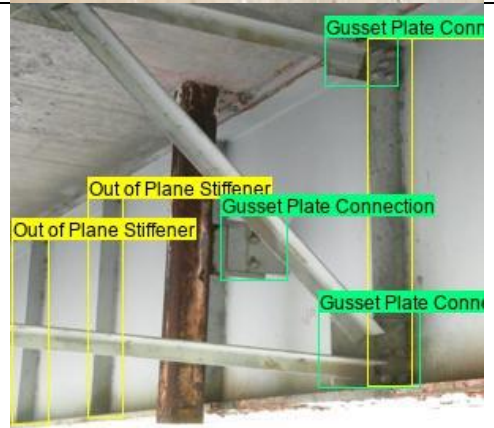
Large Occlusion:

Example of large occlusion that break up an out of plane stiffener.



Slight Occlusion:

Example of keeping the out of plane stiffeners bounding box continuous when there is slight occlusion.



Repeating Pattern:

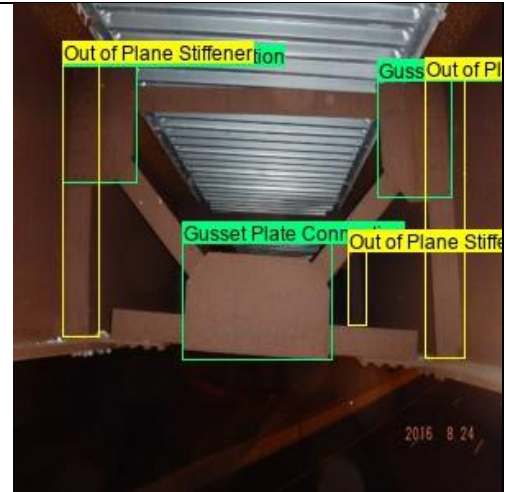
Example of a repeating pattern of out of plane stiffeners.

All objects were easily distinguished from one another. When they become blurred, or indistinguishable from one another is when labels are no longer appropriate.



Detail Overlap:

Out of plane stiffeners overlap onto the gusset plate connections when the gusset plate is connected to the out of plane stiffener.



Tab Connection:

Example of tab connection not labeled as an out of plane stiffener with diaphragm connection.

(Bearings have been annotated in the background on the pier)



Cover Plate

Termination:

Example of a cover plate termination annotation, and out of plane stiffener annotations.



Typical Detail:

A typical detail example of capturing an out of plane stiffener above a bearing.



Far-away:

Example of distant bearings annotated. If distant objects can be easily distinguished and separated, especially in a repeating pattern (like on piers), then labels are appropriate.



Object Crowding:

Example of multiple bounding boxes for two details close to one another. If multiple objects can be clearly distinguished, then multiple labels are appropriate.



Typical Detail:

Typical detail of a diaphragm with gusset plate connections.



Typical Detail:

Example of diaphragm without gusset plate connections.

