

resampling process. The problem must be investigated and a solution determined. Final acceptance of the result will be approved by a shift supervisor, or senior technician.

4. The digital ortho mosaic will be checked for image quality. Seam line areas are checked for acceptable feathering among all individual ortho images. When seam line feathering does not pass the quality review, making the mosaic should be performed again with necessary adjustments applied. Seam lines should be placed in the least noticeable areas of image overlap.
5. The digital ortho mosaic will be checked for a uniform tonal look across the image. Image enhancement software will be used to improve the Digital Ortho Mosaic and the individual ortho images, if necessary.
6. Lastly, the digital ortho mosaic will be checked for geometric accuracy. Input control values should be checked against the corresponding positions on the ortho-rectified image. The ortho mosaic will also be checked against DTM data or other available map data for proper Geo-referencing within the coordinate plane. The scale across the image will be checked for accuracy by measuring between two known points and comparing that distance to the same measurement across the ortho images. The accuracy of the digital orthophoto must meet or exceed the project requirements and specifications.

Delivery

The following steps are to be used for appropriate notification and delivery of Photogrammetry products.

Upon completion of the quality review process for each Photogrammetric product (planimetric file, utility file, digital terrain model, orthophoto, etc.) the shift supervisor will copy the necessary files to the appropriate location on the survey server or other location as requested. The shift supervisor or unit manager will notify the respective central office survey coordinator, with a courtesy-copy to the appropriate district survey manager, stating that the work is complete and providing the location of the files. Such notification will be made by paper mail or email with a hardcopy maintained in the Photogrammetry unit's paper files.

Important note: As referenced in the VDOT Survey Manual (Chapter 12), VDOT requires that engineering design grade Photogrammetric Surveys be performed under direct supervision of a Land Surveyor or Surveyor Photogrammetrist, licensed in the Commonwealth of Virginia. VDOT also requires that the Photogrammetric master survey file be digitally sealed and signed by a Land Surveyor or Surveyor Photogrammetrist licensed in the Commonwealth of Virginia.

Sec. 5.15 Photogrammetry and Aerial Photography Products Delivery Schedule

The following schedules are to be observed for the various deliverables and procedures regarding consultant submittal of Photogrammetry data and aerial photography for all VDOT projects. This applies to all Photogrammetry and aerial photography work performed on any VDOT project regardless of the request origination.

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