



WV DOT Scanning Project

Operational Overview



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Overview of processing for plans.

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How the project is managed at the WVGISTC.

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Current statistics for the project.

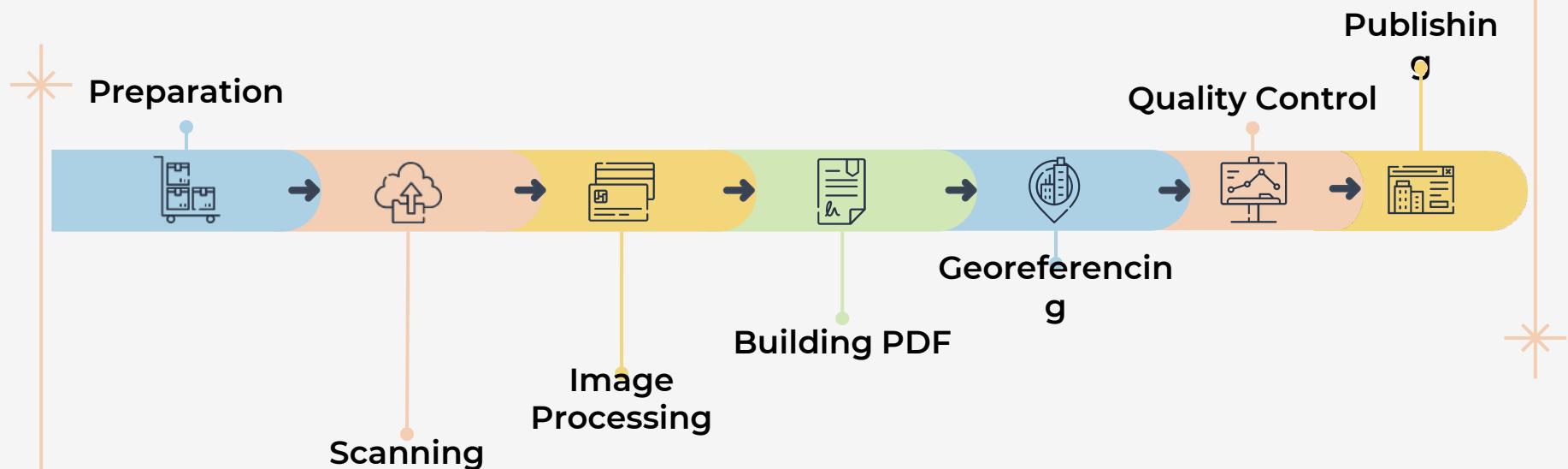


01

Project Overview



Operational Flow



Key Software



Adobe Photoshop



Adobe Acrobat



ArcGIS Pro



Network Drive



Script Based



Microsoft Access





Project Book Preparation



Unpacking

Plans given by the DOT are moved to the naming pile.



Sorting

Each folder is checked for organization and sorted.



File Naming

Plan information is entered into the Database.



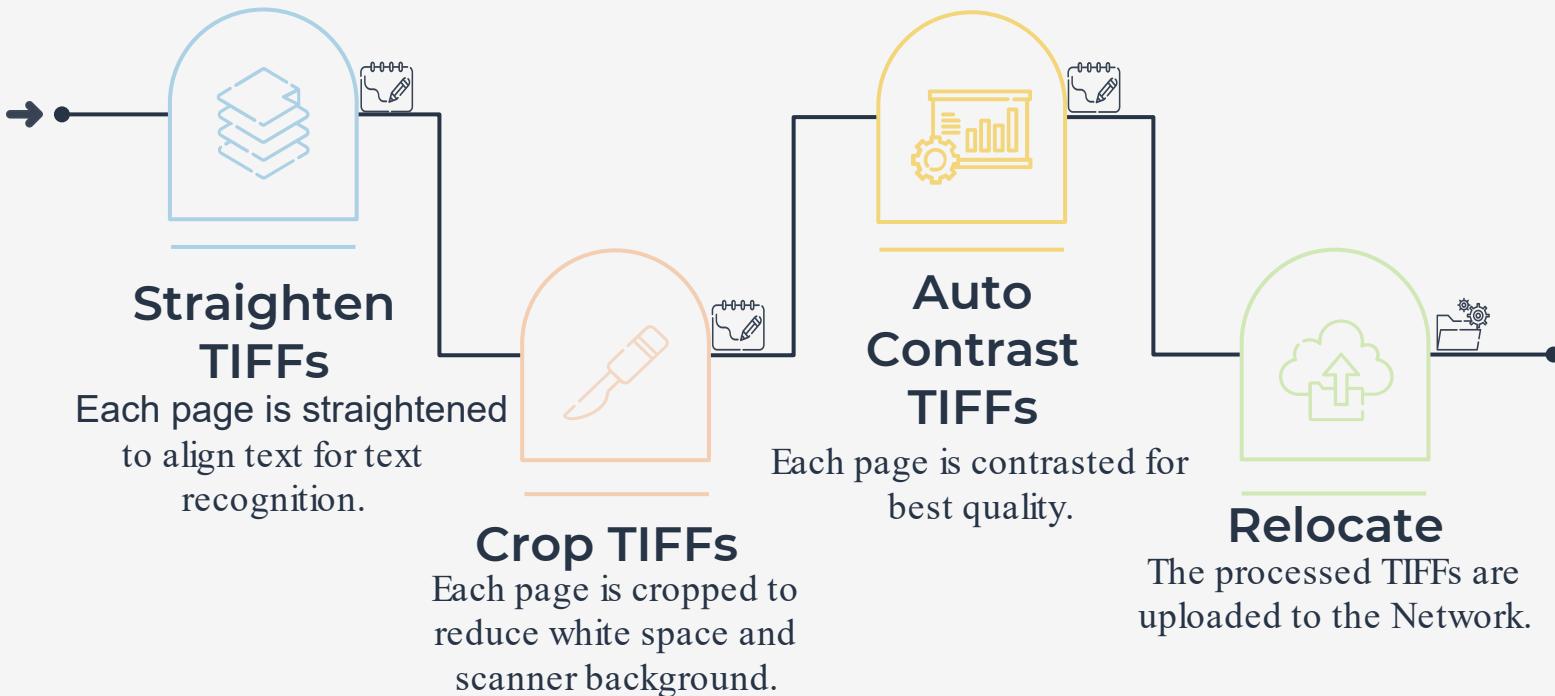
Project Book Scanning



The Tech Center's **Scanning Room**



Image Processing

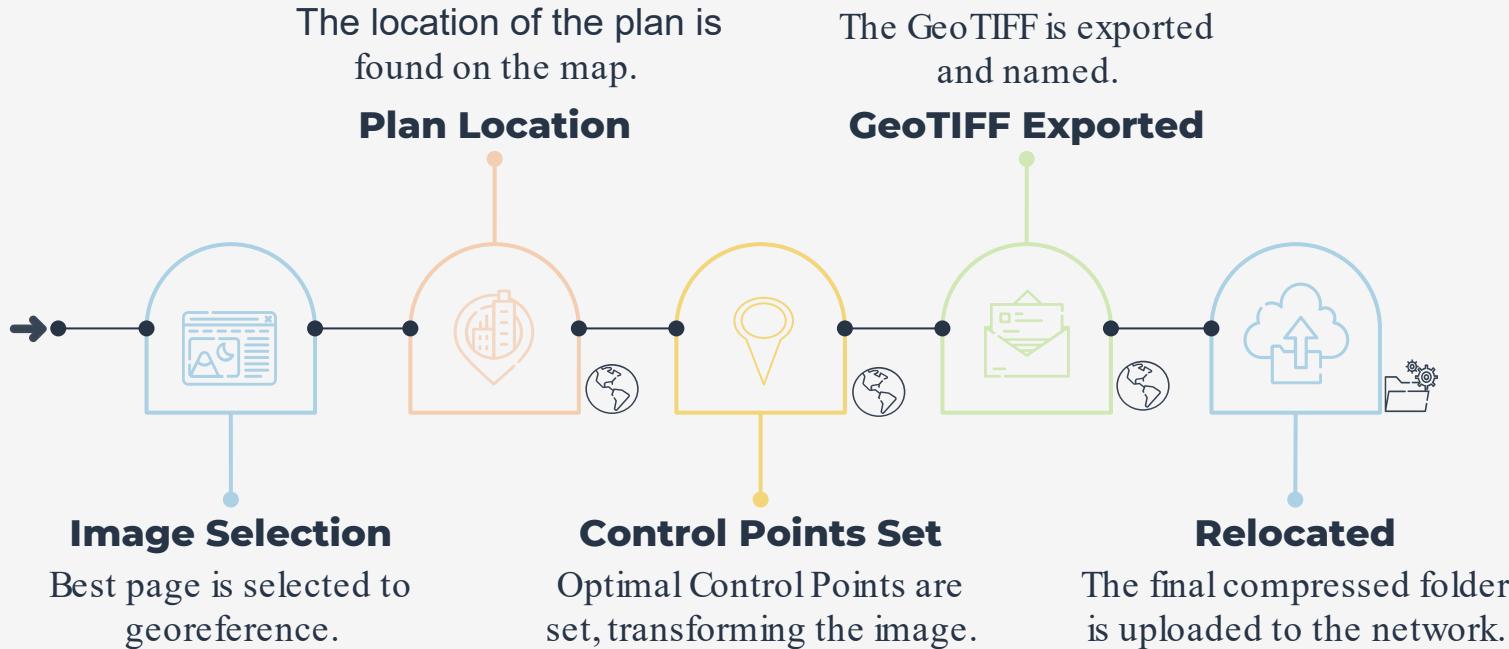


Building the PDF

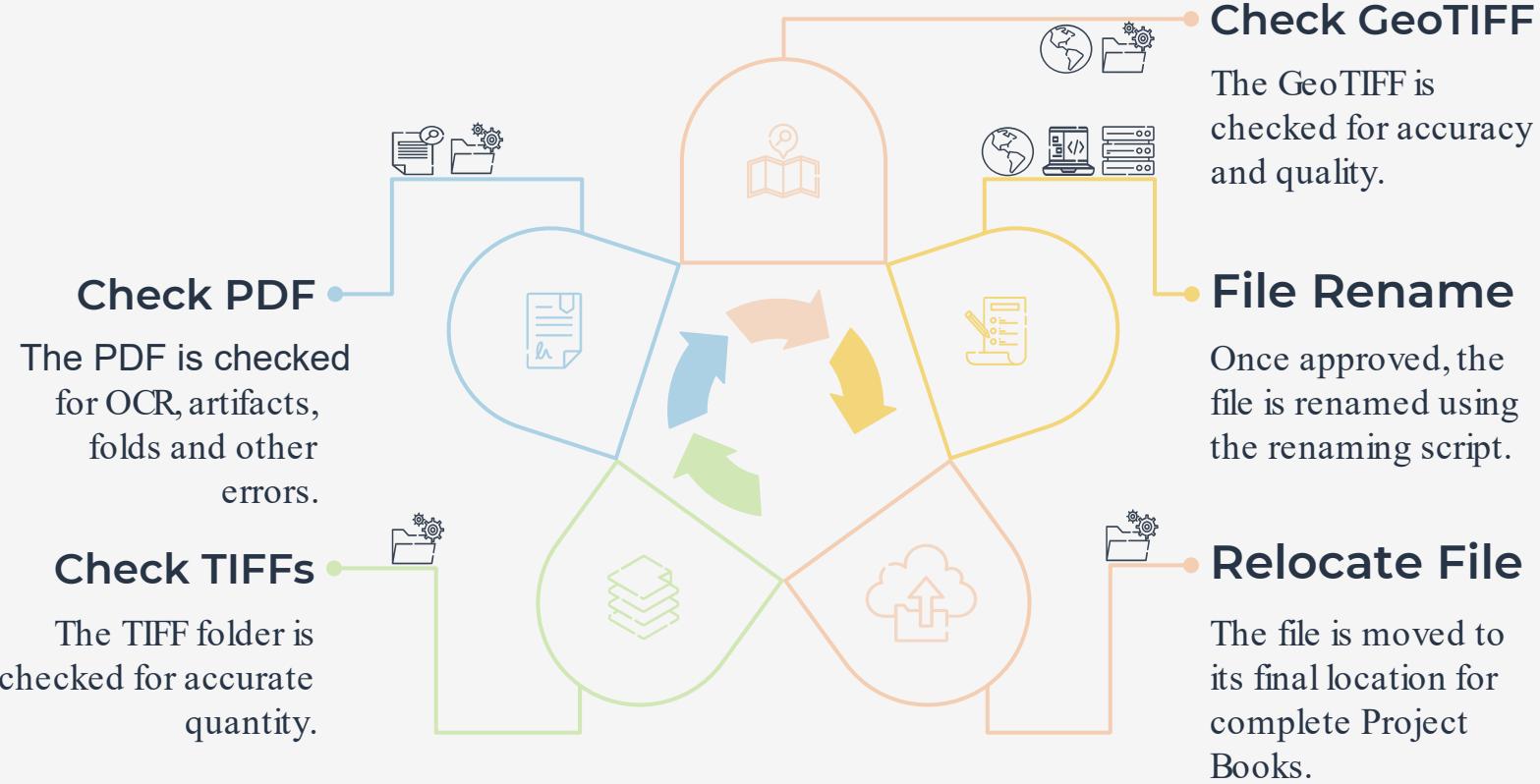




Georeferencing



Quality Control





Publishing

The extracted GeoTIFFs are added to the whole raster mosaic.

The new footprints coordinates are added to the database.

Add Rasters

Update Footprints



Publish GeoTIFFs

GeoTIFFs are extracted from their compressed folders.

Build Footprints

Using the added rasters, footprint symbology is built for each.

Publish to Website

Each plan is toggled to 'Published', allowing the website to display them.

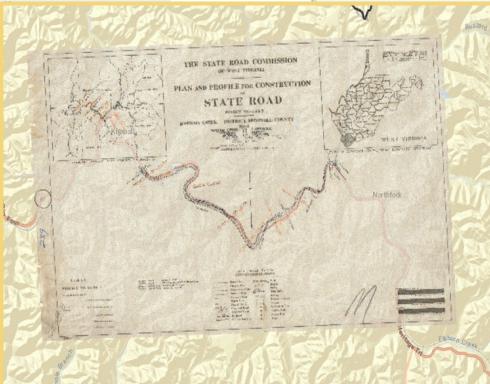
Online Highway Plan Locator

https://www.mapwv.gov/dotplans/ProjectDetails.php?scanID=6887

West Virginia
Department of Transportation

Project: P_24_2_0052_00_000_1930_S06887

Scan ID: 6887
Project Title: Bottom Creek to LandGraft to Eckman to Keystone
Federal Project: 2048-B
State Project: 10
County: McDowell
District: 10
Plan Type: Construction Plan
Sign System: U.S. Highway
Route: 52
Mile: 0
Special ID: Archived Set
Bridges:
Fiscal Year: 1930
Supplemental Codes: ()
Project Status: Final Design
Book Location: Tech Center
Scanning: Scanned, Sheets, 11 Scans
PDF: PDF
GeoTIFF: GeoTIF
Map: Show
Comments: ProjectWise:
Query URL: <https://www.mapwv.gov/dotplans/ProjectDetails.php?scanID=6887>
Email Address:
Close



mapwv.gov/dotplans/index.php

Highway Plans Locator

Search and View Scanned Highway Plans

Enter one or more search criteria

For Plan Year: Any Sign System: Any
County: Any Project ID:
Route: route number:
Mile Marker: mile marker:
Fiscal Year: ending year:
Ending: beginning year:
Search: Reset Form: Show first 100 matches only

County URL: <https://www.mapwv.gov/dotplans/index.php?county=West+Virginia&state=West+Virginia&fiscalYear=1930&beginYear=1930&endYear=1930>

View Results in Map Viewer: <https://www.mapwv.gov/dotplans/index.php?view=map&county=West+Virginia&state=West+Virginia&fiscalYear=1930&beginYear=1930&endYear=1930>

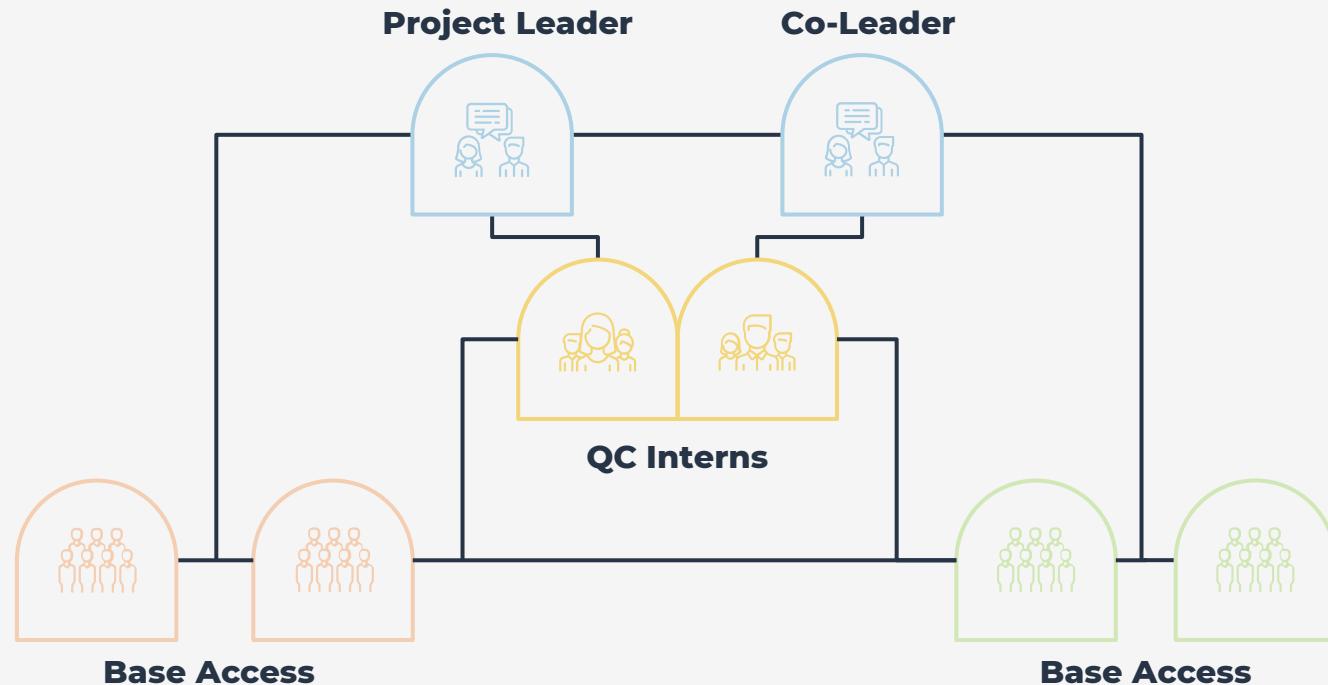
More than 100 matches out of 10112 published scans

Project Key	Project Title	Federal Project	State Project	County	Sign System	Year	Route	Mile	Bridge	
141	P_21_4_2009_34_30_2019_500245 (PH)	A090-0556055	X30-0556-00-03	Berkeley	County	2010	9	0	—	
148	P_21_4_2009_34_30_2019_500246 (PH)	TOP-0999-A00	X30-0556-00-02	Berkeley	County	2010	9	0	1004419845	
149	P_21_4_2011_30_00_1960_500247	TOP-0999-A00	X30-0556-00-01	Berkeley	County	2010	9	0	10400	
217	P_21_4_2011_30_00_1960_500247	Industrial Park Access Road	EDS-01-001	Berkeley	County	1998	11	1	—	
218	P_21_4_2011_30_00_1960_500248	Industrial Park Access Road	EDS-01-001	Berkeley	County	1998	11	1	—	
204	P_21_4_2011_30_00_1960_500249	Industrial Park Access Road	EDS-01-001	Berkeley	County	1998	11	1	—	
237	P_21_4_2011_30_00_1960_500251	Industrial Park Access Road	EDS-01-001	Berkeley	County	1998	11	1	—	
373	P_21_4_2009_34_30_2011_500257	Relocated Trestle Rd over CSX RR	TOP-0999006	X30-0556-00-04	Berkeley	County	2001	11	13	100023934.032475.032446.1
449	P_21_1_0001_24_20_1961_500260	L-EI Berkeley	TOP-0999008	X30-0556-01-05	Berkeley	County	1991	11	0	10477.0
453	P_21_2_0001_24_20_1961_500261	Elk Creek Exchange Bridge	TOP-0999009	X30-0556-01-03	Berkeley	County	1991	11	5	10144.0
505	P_21_2_0010_34_30_1960_500262	Payne Point Bridge	TOP-0999010	X30-0556-10-04	Berkeley	County	1998	10	4	3762
695	P_21_2_0011_30_00_1960_500263	Plan and Profile for Construction of Monroe Residential	TOP-0999011	X30-0556-10-05	Berkeley	County	1998	10	0	—
718	P_21_2_0001_24_20_1960_500270	Reinforced Concrete Box Culvert	TOP-0999012	X30-0556-10-06	Berkeley	County	1991	11	0	—
730	P_21_2_0009_34_30_1960_500272	WV Route 9 over Back Creek	TOP-0999013	X30-0556-10-07	Berkeley	County	1998	9	4	3052
732	P_21_2_0008_34_30_1960_500272	WV Route 9 over Back Creek	TOP-0999014	X30-0556-10-08	Berkeley	County	1998	9	4	3882
1194	P_21_3_0001_30_00_1960_501223	Tugger Valley River	TOP-0999015	X30-0556-10-09	Berke	County	1991	9	0	244.0
1220	P_21_3_0001_30_00_1960_501223	Tugger Valley River	TOP-0999016	X30-0556-10-10	Berke	County	1991	9	0	4119
1382	P_21_3_0013_30_00_1960_501382	TOP 33 Exchange	TOP-0999017	X30-0556-10-11	Berke	County	1992	33	22	3166.0
1383	P_21_3_0013_30_00_1960_501382	TOP 33 Exchange	TOP-0999018	X30-0556-10-12	Berke	County	1992	33	22	3166.0
1385	P_21_3_0001_30_00_1960_501385	Tugger Valley River Bridge	TOP-0999019	X30-0556-10-13	Berke	County	1991	9	0	—
1441	P_21_3_0306_00_00_1960_502141	Philippe Bridge and Approaches	TOP-0999020	X30-0556-10-14	Berke	County	1998	9	0	—
1773	P_21_3_0001_30_00_1960_502153	Commissioner Creek Road Re-2015	TOP-0999021	X30-0556-10-15	Berke	County	1991	9	0	—
1870	P_21_3_0306_00_00_1960_502170	Beaver Creek, Juniper	TOP-0999022	X30-0556-10-16	Berke	County	1998	9	0	—
2315	P_21_3_0002_30_00_1960_502131	Ridgeway Creek Bridge	TOP-0999023	X30-0556-10-17	Berke	County	1998	9	0	—
2397	P_21_3_0008_34_30_1960_502241	TOP 52 Exchange	TOP-0999024	X30-0556-10-18	Berke	County	1991	9	26	4115
2423	P_21_3_0008_34_30_1960_502241	Upper 52 Exchange Creek Head	TOP-0999025	X30-0556-10-19	Berke	County	1991	9	3	4255
2463	P_21_3_0011_30_00_1960_502243	Faling Intress Mill Bridge	TOP-0999026	X30-0556-10-20	Berke	County	1993	11	0	10411
2796	P_21_2_0002_30_00_1960_502705	U.S. 50 Barbours County	TOP-0999027	X30-0556-10-21	Berke	County	1945	50	0	—
2797	P_21_2_0002_30_00_1960_502705	U.S. 50 Barbours County	TOP-0999028	X30-0556-10-22	Berke	County	1945	50	19	1042
2778	P_21_2_0306_00_00_1960_502770	Belington - Elkins Rd	TOP-0999029	X30-0556-10-23	Berke	County	1994	269	0	—
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2779	P_21_2_0306_									

02

Project Management

Organizational Chart





Documentation

Three different documents are used for tracking progress:

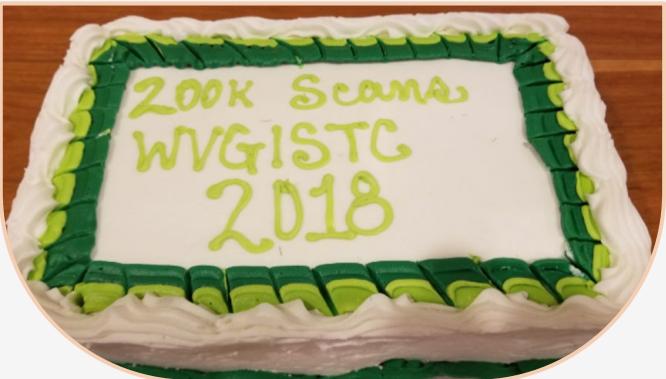
- DOT_Operator Access Database
- DOT Performance Tracker Google Sheet
- Web QC Status Google Sheet

Each serves a specific goal. The Access database is for statistics, the Performance Tracker for monitoring the stages of processing, and the Web QC Status for assuring plans on the website function correctly.



Our Milestones

Currently working through Phase III of the project. Our next milestone is at 500,000 pages scanned. Approximately 20,000 to go!



03

Project Statistics



As of March 2nd, 2023



500,000

Sum of Phase-III deliverables. An estimated **27,405** sheets remain till reaching the projected end of Phase III.

435,892

Sheets Scanned

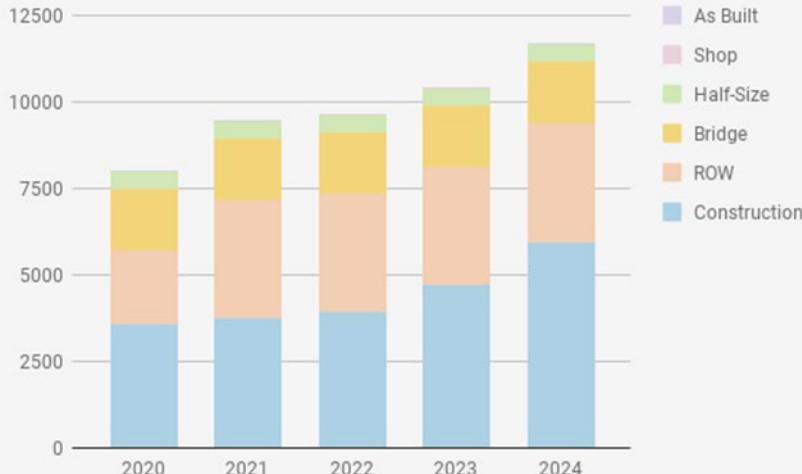
11,505

Plans Scanned

11,448

Plans Published

Plan Type Breakdown



Total Plans as of October 2024:

11,505

Construction Design

Total: 5,907

Right of Way

Total: 3,427

Bridge

Total: 1,787

Half-Size

Total: 497

Shop Drawing

Total: 22

As Built

Total: 17

File Size Breakdown

Uncompressed TIFF Files

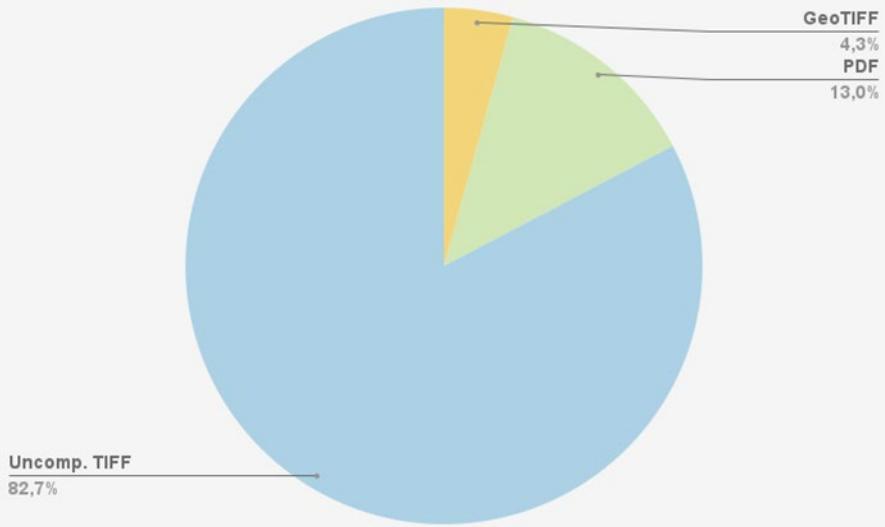
Loose, processed scan files. Does not include the original scans but does include the unzipped GeoTIFF files.

PDF Files

The PDF's consist of all the individual pages which make up a project book. Needed for the website.

Compressed GeoTIFF Files

This is the amount of storage the compressed GeoTIFF folders make up. This is needed for publishing.



Our main folder currently holds approximately 7TB of data.