### WV DOT Scanning Project

Presented By: WV GIS Technical Center November 20, 2024

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Overview of our system design and application.	How we process plans at the WVGISTC.	Current statistics for the project.				



# 01 Project Overview



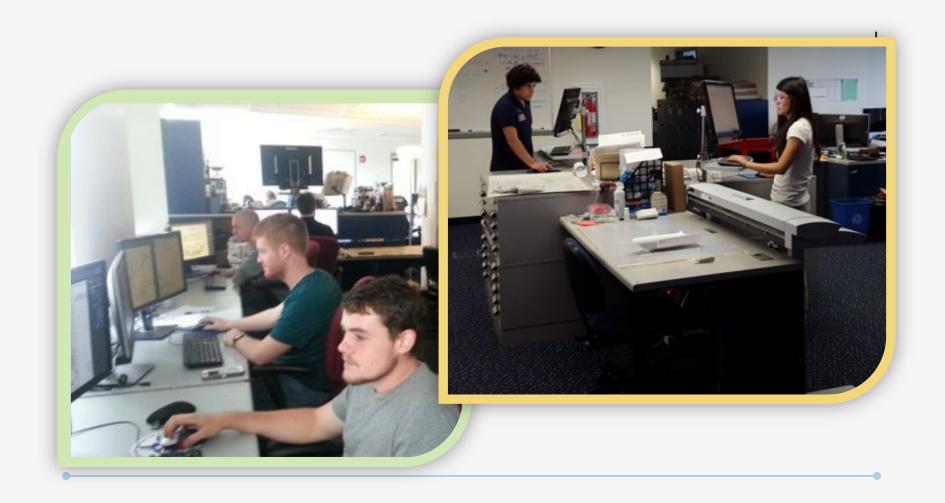
### Project Goals +

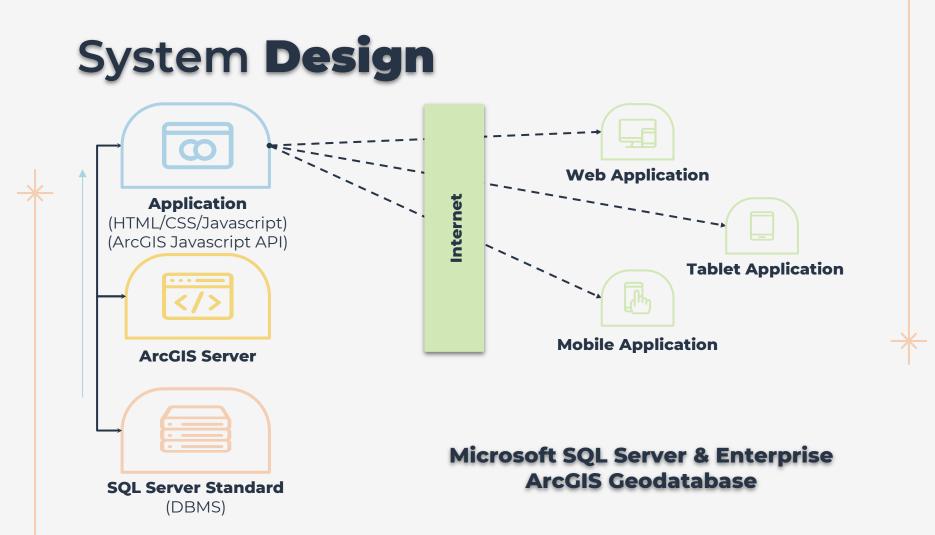
- Improved Management and Archival System
  - Electronic database manages plan sets and associated documents.
  - Eliminates lost drawings, misfiled drawings, and deterioration of drawings.
  - Consolidates record plan sets in one location in a digital database.

### Project Goals

- Faster and Easier Access to Drawings
  - Accessible by anyone, at any time, from anywhere.
  - Improved document accessibility for both internal and external users.







### **Online Highway Plan Locator**

	Department of Transportation	
Scan ID: Project Title: Federal Project: State Project: County: District: Plan Type:	6887 Bottom Creek to LandGraft to Eckman to Keystone 2948-8 McClowell 10 Construction Plan	
Sign System: Route:	U.S. Highway 52	
dile: Special ID: Sridges: Siscal Year: Supplemental Cod Project Status: Book Location: Scanning: 2DF: DF: SeoTIFF: Map: Comments:	Active 1930 Final Contrasting Tech Scan DD Solution Solutio	N A
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#### http://mapwv.gov/dotplans/

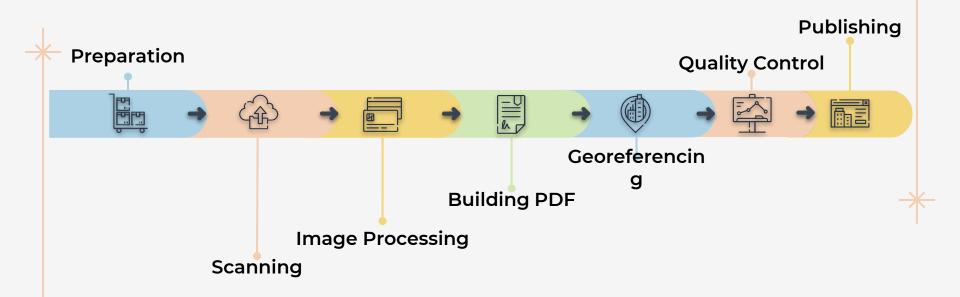
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County:	Any	V Sign System: An	y *	Federal Project	search federal projects for								
Route:		number ProjectWise:		State Project			-i						
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Iore than 1	00 matc	hes out of 10112 published scans	Project Title			Federal Project	State Project	County	Sign System	• Year 1	Route +	Mie +	Dridge
141			Raleigh Street Extension			ARRA-0956(005)	<ul> <li>State Project</li> <li>X302-9/56-0.00.03</li> </ul>	Courty Courty	County	2010	A HOUSE @	-	under
141 B			Rateigh Street Extension			TIP.0956(005)	X302-0456-0.00 03	Derkeley Resheley	County	2010	9	0	10044 10045
150			Tabler Station Connector			EB-0018 (004)	X302-010-0.00 02	Deckeley	State	2008	01	0	10630
217			Industrial Park Access Road			EB VETB (VVT)	U302-11/30-0.90	Deckniev	County	1995	11	1	
218			Industrial Park Access Road			FDA 01.01. 03414	X302.11/30.0.00	Eesheley	County	1996	11		
224			Industrial Park Access Road			2302.11/20.84		Beckeley	County	1996	11	0	
217			Hanesville & Besserver Bridges			NH-0011(000)	U302-81 17.90 00	Deckniev	Interstate	2001	01	10	10033 10034 0.02147 1.02148 1
373			Planesvie a Desserver Didges Relaxated Taxem Rd over CRX RB			TIP-00956(006)	X322,5/5,0 00 04	Sectories.	County	2001	9	0	10847.0
440 8			Relocated Taveni Rd over CSX RR Ld1 Beckeley			IR-0811(048)008	U302.81.8.05	Beckeley	Interstate	1991	81	8	
452			DuPONT interchange Bridge			0.000.100000000	E302-901-5.33	Deckniey	State	1991	901	*	02149.0
505			Paynes Ford Bridge				8322.19.4.04	Eestaley	State	1955	19	4	3767
695 B			Plan and Profile for Constru	ction of Markove Rela	scation		2171	Beckeley	U.S.	1950	11	0	
710 8			Melden - Tacy Road			\$562(1)		Barbour	County	1949	5	0	
730			Beinforced Cone, Box Cuba	ed.		BBF,0005(050)	8302.0.4.81	Eesteley	State	1990		4	3092
732			WV Route 9 over Back Cree			BRF.0009(355)	8302.0.4.91	Recheley	State	190.9		4	3892
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1225 0			Beington Bridge Co. Rie. 1			br-0011/36/E		Barbour	Other	1996	11	0	4119
1352			Fit 33 Barbour			CH8-0484(052)	X301-H-21.99-01	Barbour	NUA	1992	33	22	3196.0
1353	-		Tygart Valley River Bridge			CH8-0404(057)	X301-H-21.99-05	Barbour	NUA	1992	22	22	3196.0
1356			Fit 33 Barbour			CHHD-0484(053)	X301-H-21.99.06	Berbour	NA	1992	33	22	
1357			WWA 92 Bridge Over Telev	Creek		BHS-0092 (007) S	8301.92-19.14	Barbour	State	1906	92	19	1502.0
1441 8			Philippi Bridge and Approac			301-250-17.24		Earbour	U.S.	1970	250	17	
1773 8		H 01 4 0036 04 000 2003 501773	Carrollon Covered Bridge N	lo. 2013			5301-36-4.75	Berbour	County	2003	36	0	
1870 8		R 01 3 0250 00 000 1966 501370	Beaver Creek - Junior			F-117(10)		Barbour	State	1968	250	0	
2131 8			Raccoon Creek Bridge				\$301.92-19.42	Barbour	State	1985	92	19	
2297 8			WV Rie. 92 Over Sandy Cri	rek Near Dent		BR-0092(029)E	5301-92-26.93	Serbour	Stele	1994	92	26	4115
2423	-	H 01 4 0009 04 003 1997 502423	Upper Stellh Fork Bridge			TECO-0094(163) E	8304-9/4-3.95	Barbour	County	1997	9	3	4233
2643 8		H 01 4 0011 04 000 2003 502643	Falling Waters Mill Bridge				8302-11/4-0.00	Barbour	County	2003	11	0	10411
2706		P 01 2 0050 00 000 1945 502706	U.S. 50 Barbour County			AEPA 310 A(1)		Berbour	U.S.	1945	50	0	
2725	-	8 01 3 0092 00 019 1908 802725	WV 92 Over Teler Creek			BHS-0092(007)S	8 301-82-19.14	Barbour	State	1906	92	19	1502
2778		P 01 2 0250 00 000 1945 502778	Belington - Elkings Rd.			AEFA 310 A(1)		Barbour	U.S.	1945	250	0	
		P 01 4 0036 00 000 1961 502050	Carrollton Bridge & Approac			5.555(1)	5474	Berbour	County	1961	35	0	



## 02 Project **Operation**



### Operational **Flow**







### **Project Book Preparation**



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#### 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.

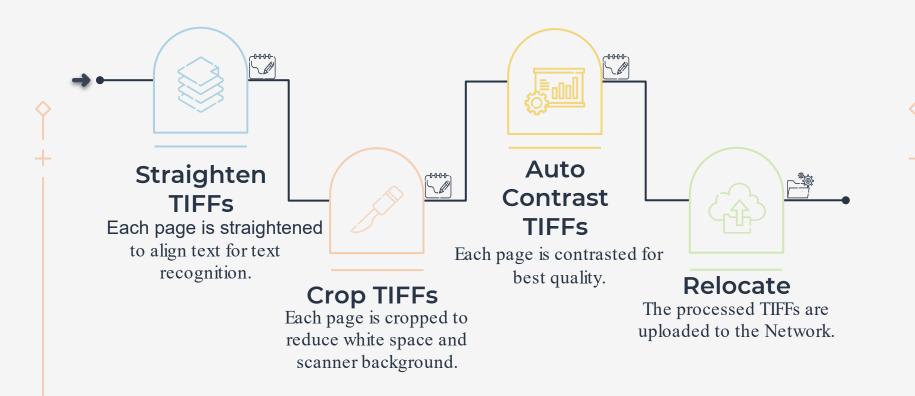
### Project Book Scanning



#### The Tech Center's Scanning Room



#### Image Processing



### Building the **PDF**

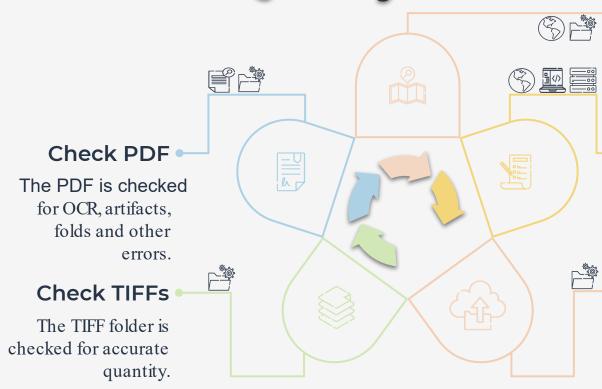


#### Georeferencing





### **Quality Control**



#### **Check GeoTIFF**

The GeoTIFF is checked for accuracy and quality.

#### File Rename

Once approved, the file is renamed using the renaming script.

#### Relocate File

The file is moved to its final location for complete Project Books.

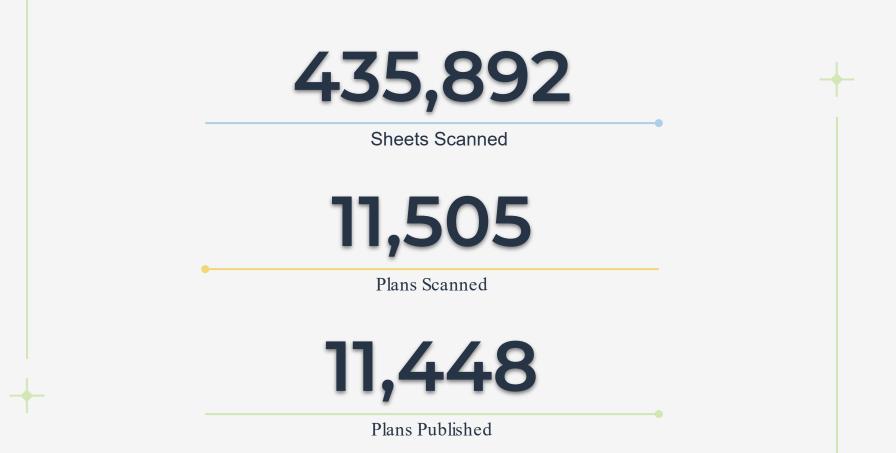




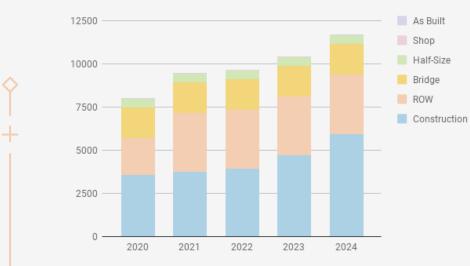
## 03 Project Statistics



Estimated sum of PhaseIII deliverables. An estimated **27,405** sheets remain till reaching the projected end of Phase III.



### 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**

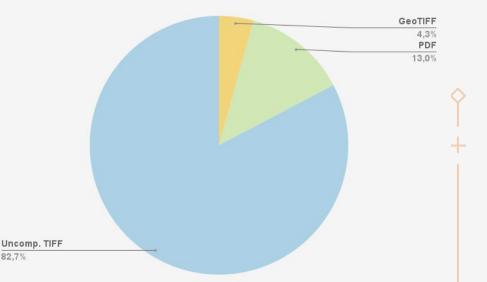
Loose, processed scan files. Does not include the original scans but does include the unzipped GeoTIFF files.

#### **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.

