

Johnson County



WYOMING'S TRANSPORTATION SYSTEM

Supporting the economy and connecting our communities.

STATE TRANSPORTATION IMPROVEMENT PROGRAM 2022-2028

[Scott Taylor](#)

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307-674-2300



District 4



Scott Taylor, PE
District Engineer



Susan Holmes
WYDOT
Transportation
Commissioner



Administrative Staff



Larry Konetzki
District Maintenance
Engineer



Tim Winslow
Equipment
Supervisor



Erik Brannigan
Safety Officer



Isaac Finkle
District Construction
Engineer



Laura Dalles
Public Involvement
Specialist



Michelle Edwards
District Traffic
Engineer



Jenny Sullivan
District Human
Resources



**Captain
Ben Schlosser**
WHP



Johnson County



Mick Brinkerhoff
Resident Engineer



Dustin Hockett
Area Maintenance
Supervisor



Tony Morris
Maintenance Foreman
Buffalo



Chuck Thompson
Maintenance Foreman
Pole Creek



Shawn Schoolcraft
Shop Supervisor



Lieutenant
Erik Jorgensen
WHP



FHWA Contacts

Monica Gourdine, *Federal Highway Administration Division - Acting Administrator*

307-771-2940 | monica.gourdine@gov.dot

Bob Bonds, *Federal Highway Administration - Area Engineer*

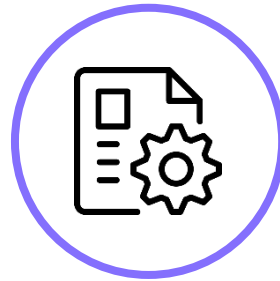
307-771-2951 | bob.bonds@gov.dot



Purpose



**Need public
input**



**Need to know what
local agencies are
working on**



Overview of WYDOT



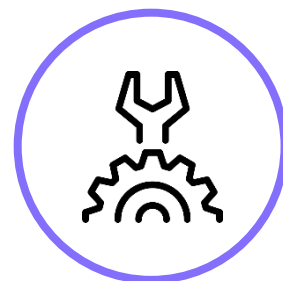
Road Map



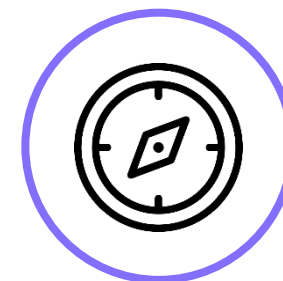
**WYDOT
Overview**



**STIP
Development
and Overview**



**District
Projects**



Next Steps



Purpose, Mission, Vision & Values

Purpose: Support Wyoming's economy while safely connecting communities and improving the quality of life.

Mission: Provide a safe and effective transportation system.

Vision: Excellence in Transportation

Values: Respect, Integrity, Dedication, Excellence, Safety (RIDES)





Our Goals

- Ensure a vibrant, safe and competent workforce
- Acquire and responsibly manage resources
- Provide safe, reliable and effective transportation systems
- Provide essential public safety services and effective communication systems
- Create and enhance partnerships with transportation stakeholders
- Encourage and support innovation
- Preserve our history and heritage





Guiding Principles

1. Align expenditures with available revenue amount and source
2. Focus on addressing identified critical life safety issues.
3. Prioritize WYDOT asset preservation based on condition of the asset to meet established goals (as appropriate)
4. Improve operational effectiveness and efficiency
5. Prioritize activities to minimize negative impacts to the public
6. Address mobility and capacity through system improvements and enhancements

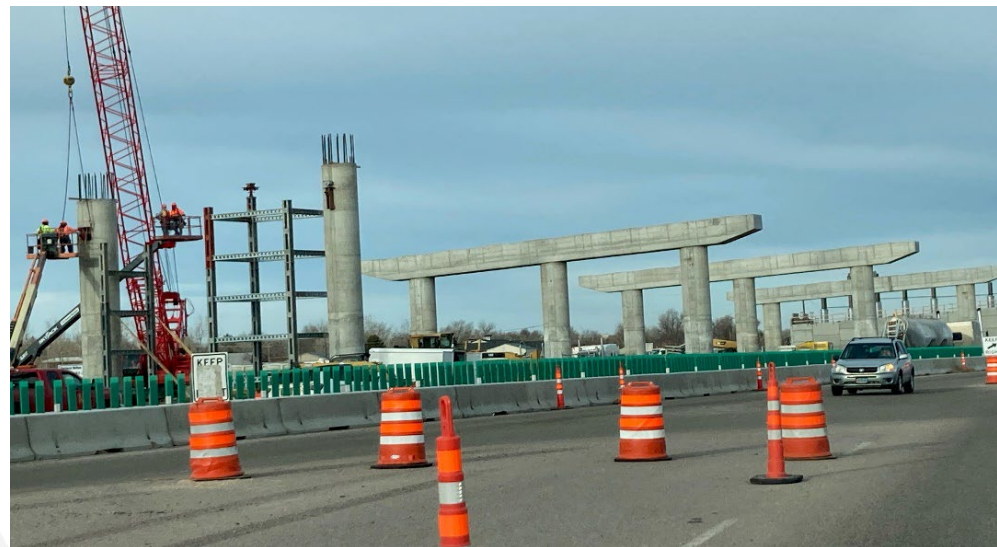




WYDOT Overview

- Highways

- 6,700 Miles of Roads
- 6000 Bridges/Structures
- 42,200 Culverts
- 800 miles of guardrail
- 80,000 signs
- 12,000 miles of fence





WYDOT Overview

- Engineering & Planning
- Construction
- Maintenance
- Equipment
- Facilities
- Traffic / ITS
- Emergency Communications (WyoLink)
- 24-hour Transportation Management Center (TMC)
- Road Condition Website
- Patrol
 - Troopers
 - Ports of Entry
 - Dispatch
 - Executive protection
- Aeronautics
 - Engineering & Construction
 - Planning
 - Air Service Development
 - Unmanned Aerial Systems (UAS)
- Driver's Services (License)
- Compliance & Investigation (motor vehicles and vehicle dealers)
- Motor Vehicles (titles, registration, license plates)
- Support programs
 - Financial services (budget, fuel tax admin, grants/contracts, procurement)
 - HR
 - Employee Safety
 - Public Affairs
 - Planning
 - Transit
 - Local Governments



Infrastructure Investment & Jobs Act (IIJA)

FY 2021 Surface Transportation funding = \$280,451,386

Federal vs State Funding

- National Average
 - 70% State
 - 30% federal
- Wyoming
 - 29% State
 - 71% Federal

FY	Surface Transportation (Construction)	Bridges	Electric Vehicles	Aeronautics	Total Federal
2022	\$339,391,760	\$45,000,000	\$3,900,000	\$50,000,000	\$438,291,760
2023	\$346,180,057	\$45,000,000	\$5,356,005	\$50,000,000	\$446,536,062
2024	\$353,104,119	\$45,000,000	\$5,356,005	\$50,000,000	\$453,460,124
2025	\$360,166,662	\$45,000,000	\$5,356,005	\$50,000,000	\$460,522,667
2026	\$367,370,456	\$45,000,000	\$5,356,005	\$50,000,000	\$467,726,461
Total	\$1,766,213,054	\$225,000,000	\$25,324,020	\$250,000,000	\$2,266,537,074



Bridge Formula Program - Local Projects

- Bridge Formula Program (BFP)
 - WYDOT receives \$45M per year
 - At least 15% of funds need to go to address poor condition bridges
 - Identified 44 bridge replacement or bridge rehabilitation projects within 29 agencies
 - Projects will be let in FY25-FY29
 - As letters of concurrence come in from the local governments, projects will be added to the STIP
 - WYDOT looking at a consultant to manage and design the projects





WYDOT Unfunded Operating Needs

Estimated Unfunded Annual Needs (in millions)	Annual Amount	Additional IJJA Provided Amount	Updated Annual Unfunded Need
Surface Transportation	\$196.20	\$72.28	\$123.92
-Construction for Preservation (Roads & Bridges)	\$103.70	\$67.80	\$35.90
-Maintenance (e.g. Surface Patching)	\$9.90	\$0.00	\$9.90
-Traffic (e.g. VSL's, Signals, Striping, Signing)	\$5.70	\$0.00	\$5.70
-Safety (e.g. Shoulders, Guardrail)	\$0.90	\$0.00	\$0.90
-Delayed STIP Projects * (Capacity & Mobility)	\$43.60	\$0.00	\$43.60
-Identified Non-STIP Capacity & Mobility Projects *	\$10.00	\$0.00	\$10.00
-Wildlife Crossings (WWRIIT Identified) *	\$22.40	\$4.48 (1)	\$17.92
Computer Systems	\$6.60	\$0.00	\$6.60
Communications	\$0.80	\$0.00	\$0.80
-Telecommunications Equipment	\$0.80	\$0.00	\$0.80
Highway Patrol	\$17.10	\$0.00	\$17.10
Motor Vehicle Services	\$9.10	\$0.00	\$9.10
-Revenue Information System (RIS)	\$8.00	\$0.00	\$8.00
-Non-RIS	\$1.10	\$0.00	\$1.10
Aeronautics	\$44.70	\$15.00	\$29.70
Fleet / Equipment	\$34.00	\$0.00	\$34.00
Buildings / Facilities	\$43.70	\$0.00	\$43.70
Design and Construction Survey Equipment	\$2.10	\$0.00	\$2.10
Electrical Vehicles Funding	\$0.00	\$3.96 (2)	\$0.00
Total	\$354.30	\$91.24	\$267.02

Unfunded Operating Needs: Financial need that exceeds current revenues. The result being a decreased ability to maintain mission, operating demands, unit needs, and assets in their current condition.

* Delayed surface transportation projects per year over ten years based on total need.
 (1) Estimated one project in five years of \$22.4 million.
 (2) Not included in the calculation as Electrical Vehicles were not part of the Dye Management study.

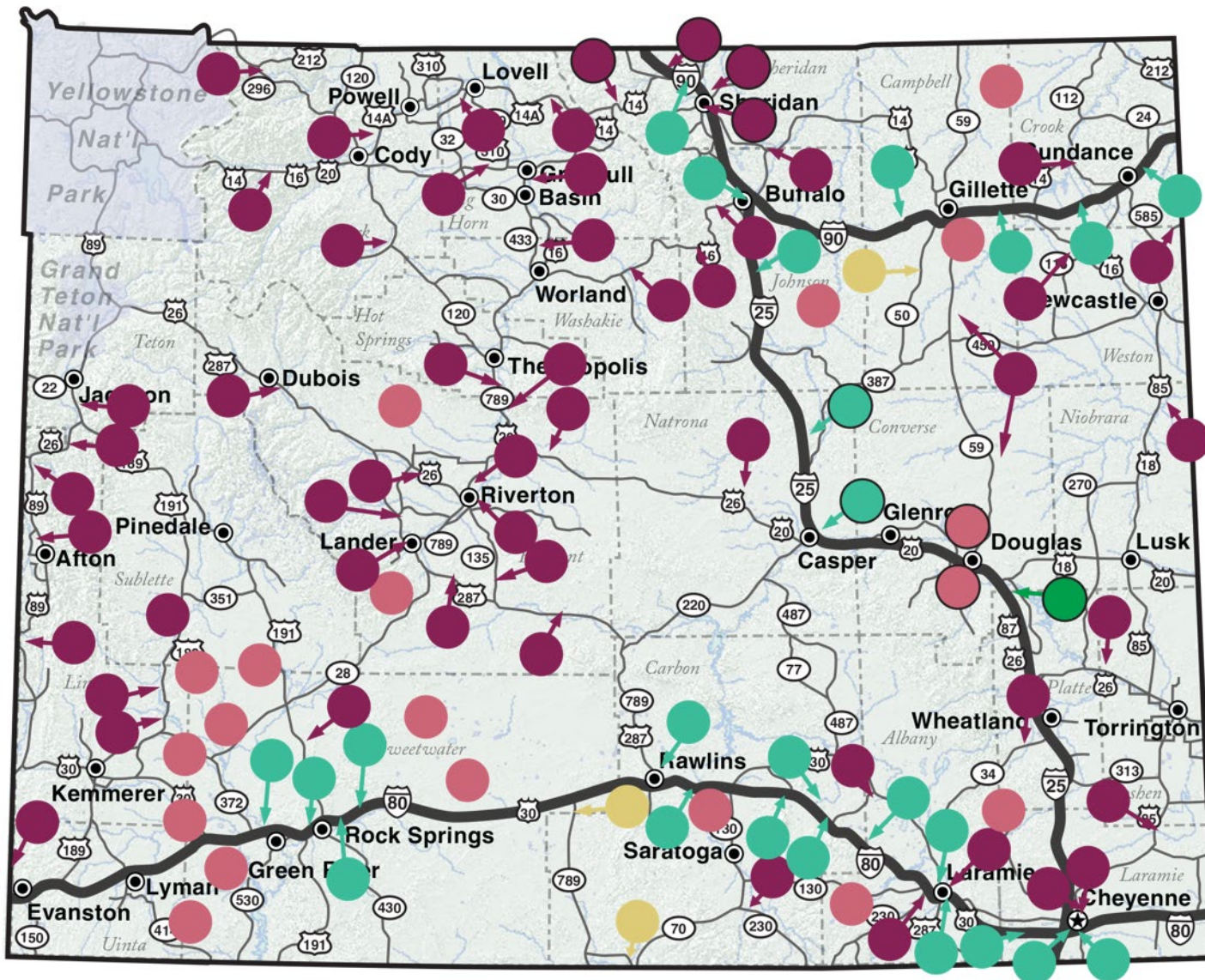


WYDOT Delayed Construction Projects

Project Number	Description	Cost	Notes
I806212	I-80 / I-25 Interchange	\$310,000,000	Reconstruction
N432057	Wright to Gillette / WY 59	\$20,834,031	Widen to 5-Lanes and overlay
U212019	Cheyenne / College Drive / S Greeley to Fox Farm	\$18,684,126	Widen to 5-Lanes and overlay
I252171	I-25 / Wheatland to Glendo	\$7,386,482	Reconstruction
P242015	Shirley Rim to Casper / WY 487	\$15,157,455	Reconstruction
N342047	Waltman to Shoshoni / US 20/26	\$7,523,112	Passing Lane
N342048	Shoshoni to Thermopolis / US20 / WY 789	\$3,632,196	Passing Lane
1708012	Sheridan / Coffeen Ave	\$18,702,499	Widen to 5-Lanes and overlay



2022 Major Construction Projects



Legend

- I Interstate highway work zones:**
Generally, there are no delays or detours. Travel may be narrowed to one lane (on pavement) each way and involve a reduced speed limit.
 - P Two-lane road projects:** Motorists may be required to stop and wait to follow pilot cars. Usually, any delays are limited to 20 minutes or less and travel is on pavement.
 - R Two-lane road projects:** At times, motorists may have to drive on gravel or another temporary surface, typically for two miles or less. Delays are limited, there are no detours unless specifically noted but there may be a pilot car.
 - D District-wide projects:** Various locations, may involve reduced speeds.
- Not every project is listed**
- Due to the unpredictable nature of the construction process, not all projects are active all the time. In addition, some short-term projects and smaller projects which disrupt traffic to a lesser degree are not listed. Completion dates are approximate.



EV Charging Stations

- State's Role
 - Ensure the infrastructure exists to support whatever type of vehicle you want to drive.
 - Form a team(s) of (state/federal/local) entities to ensure a coordinated approach.
 - Assist communities in finding available funds to meet community goals.
 - State assets will not be used to install, own or operate ZEV infrastructure
 - Funding is up to 80% federal / 20% matching
- Corridors – Designated state alternative fuel corridors (I-80, I-25, I-90)
 - WYDOT will issue separate RFPs for each (corridor) interstate build out
- Milestones
 - May – June: Complete NEVI funding plan
 - June: Post NEVI Plan for public comment
 - July: Submit to the Joint USDOT / USDOE Office for review
 - August: Make changes to NEVI plan if required, and resubmit to Joint Office for Review
 - August: Post Request for Proposal for consultant to manage and provide technical oversight for NEVI funded station installations and select
 - September: Receive approval of NEVI plan from the Joint Office; Select NEVI consultant
 - TBD: Publish three Requests for Proposal, one for each Interstate Corridor build out





Grant Opportunities



WYDOT web page – Transportation Grant opportunities
(https://www.dot.state.wy.us/home/business_with_wydot/grants.html)



Contains information on grants that can be applied for by local governments

- Competitive federal grants
 - Includes guidance documentation
- Zero emission vehicles
- Highway safety behavioral
- Aeronautics
- Local government transportation programs



Links to additional resources and guidebook on the new infrastructure law.



Grant Opportunities

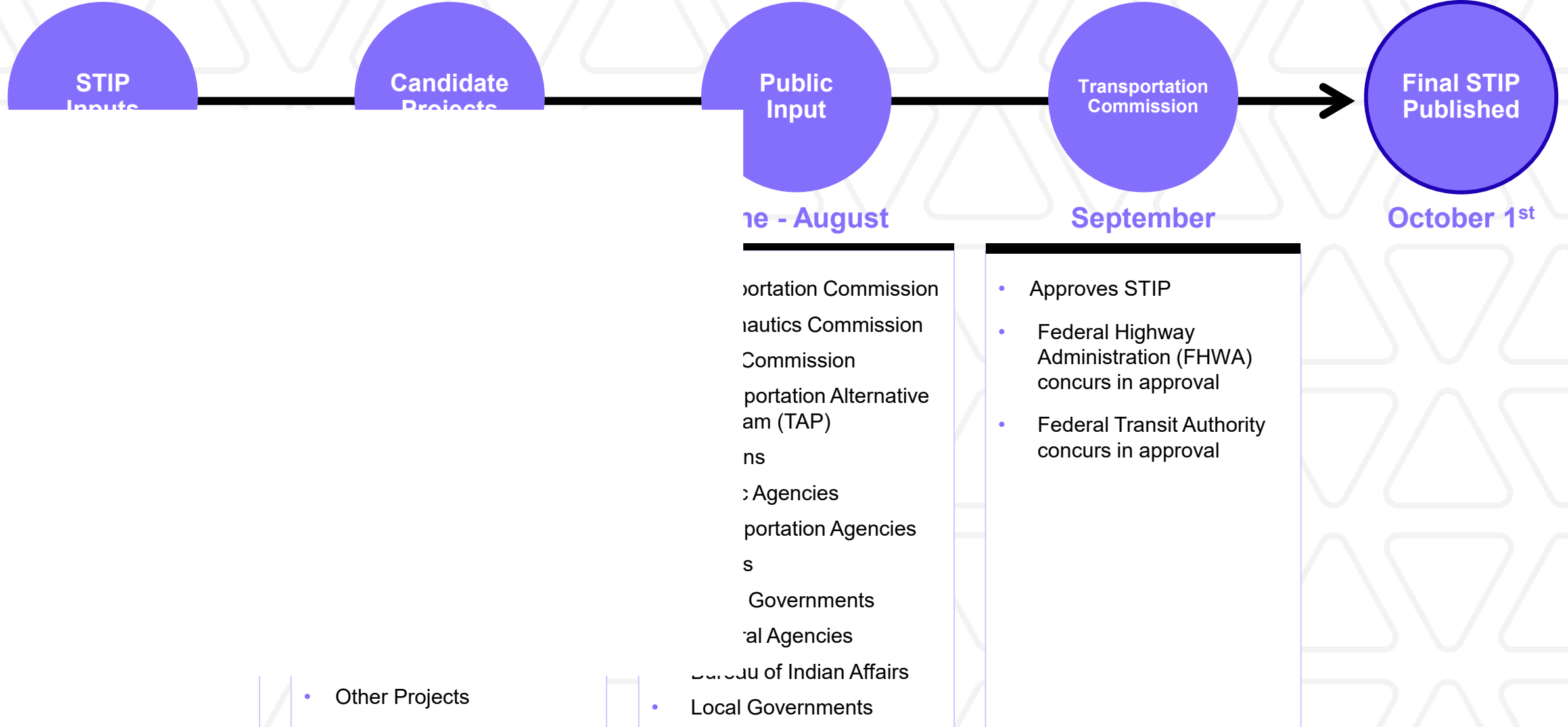
Federal Discretionary/Competitive Grants for Local Governments

- **Roads and Bridges**
 - Bridge Investment Program*
 - Local and Regional Project Assistance Grants (RAISE)
 - National Culvert Removal, Replacement, & Restoration Grant*
 - National Infrastructure Project Assistance (Megaprojects)*
 - Reconnecting Communities Pilot Program*
 - Rural surface Transportation Grant Program*
 - National Significant Multimodal Freight & Highway Projects (INFRA)
- **Safety**
 - Railroad Crossing Elimination Grants*
 - Safe Streets and Roads for All*
 - Wildlife Crossings Pilot Program*
- **Passenger Rail**
 - Federal-State Partnership for Intercity Passenger Rail Grants
 - Railroad Crossing Elimination Program*
 - Restoration & Enhancement Grant Program
- **Public Transportation**
 - All Stations Accessibility Program
 - Bus and Bus Facilities Competitive Grants
 - Capital Investment Grants
 - Pilot Program for Enhanced Mobility
 - Strengthening Mobility and Revolutionizing Transportation (SMART) Grants*
- **Airports & Aviation**
 - Airport Infrastructure Grants*
 - Airport Terminal Program*
- **Electric Vehicles**
 - Charging Fueling Infrastructure Grants (Corridor Charging)*
 - Charging and Fueling Infrastructure Grants (Community Charging)*
 - Low or No Emission (Bus) Grants
 - Low or No Emission (Bus) Grants

* *New Grant Program*

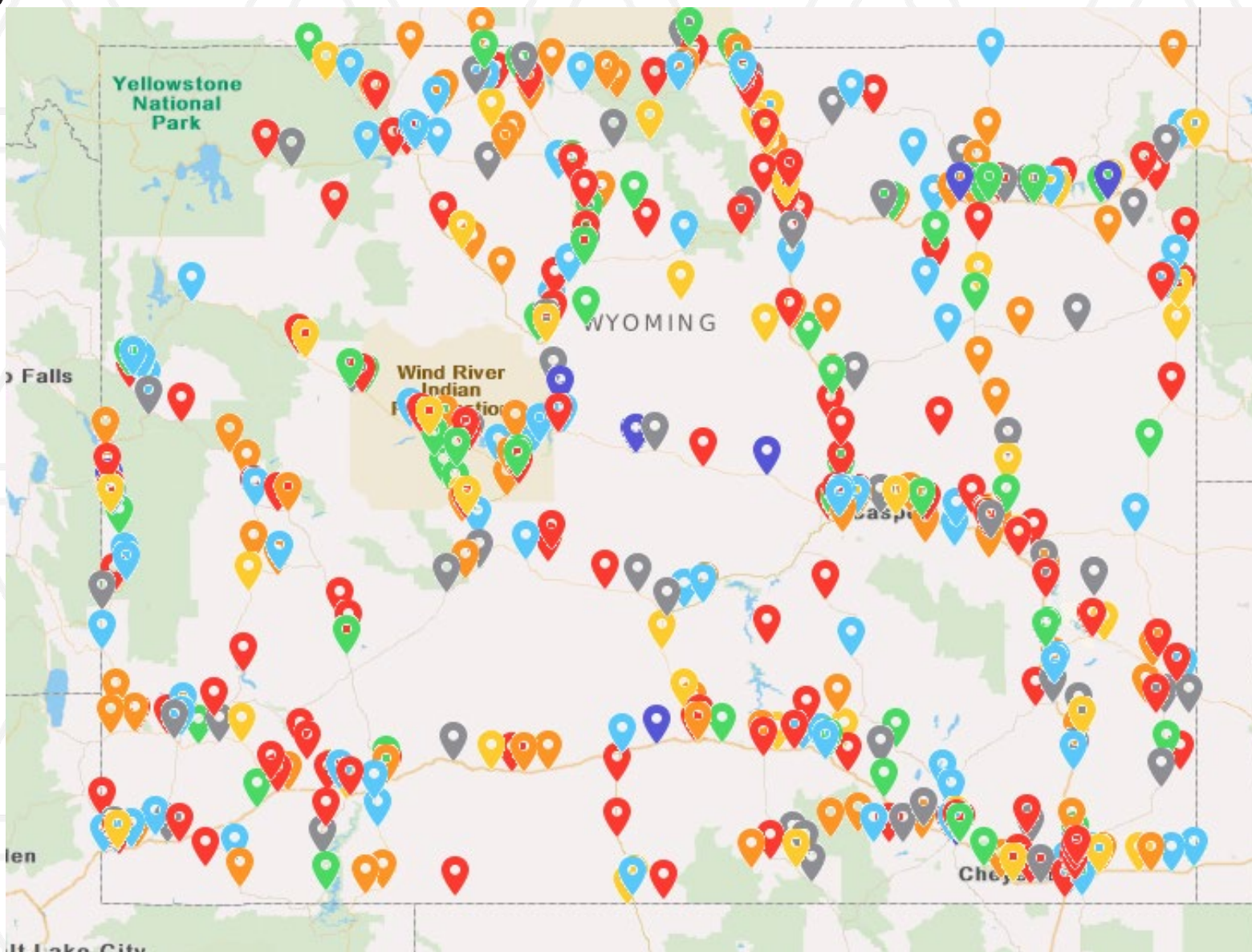


STIP Process Overview





STIP Project Map



Legend

- 2022
- 2023
- 2024
- 2025
- 2026
- 2027
- 2028



Highway Project Process



Planning Phase

- STIP Development
- Reconnaissance
- Survey Phase
- Public Input



Design Phase

- Issuance of design plans
- Engineering Studies
- Final plans and specifications
- Public Meetings as appropriate



Contract Phase

- Advertisement
- Public Bidding
- Award
- Construction
- Public Meetings as appropriate



STIP - What is in the document?

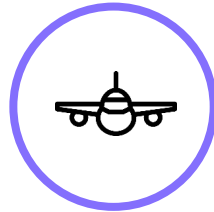
Single source of the Department's projects.



**Highway
Projects – 6
Year Plan**



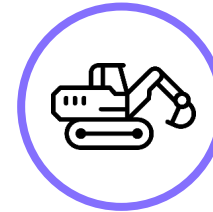
**Transit Projects
– 1 year plan**



**Aeronautic
Projects – 5 year
plan**



**Public Safety
Communication
s Commission
(PSCC) Projects
– 1 year plan**



**Capital
Improvement
Projects – 1 year
plan**



STIP - What is in the document?

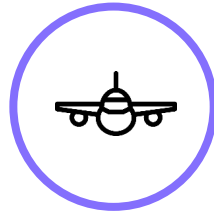
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**Highway
Projects – 6
Year Plan**



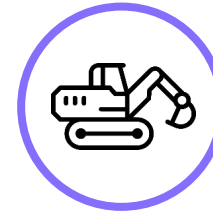
**Transit Projects
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**Capital
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Projects – 1 year
plan**



What is in the document?



Wyoming Department of Transportation
5300 Bishop Blvd
Cheyenne, WY 82009

STATE TRANSPORTATION IMPROVEMENT PROJECTS ENGINEERING & CONSTRUCTION

Johnson County

Transportation Projects

Fiscal Year: 2022

Trans Comm Dist	Project		General Location Detail Location	Begin RM	End RM	Length	Character of Work	Cost \$1,000						
								PE FY	PE	CE & CON	TOTAL	FED	ST	OTH
4	CM	CM21408	JOHNSON COUNTY VAROUS COUNTY ROADS LPA-JOHNSON COUNTY	8.00	15.00	7.00	ENVIRONMENTAL		0	533	533	427	0	107
4	NHPP1	I255120	KAYCEE TO BUFFALO TRABING ROAD SECTION/I-25 STRUCTURE NO. ALI, ALJ, ALK	289.53	293.83	4.30	PAVEMENT REHABILITATION	2020	372	4,171	4,543	4,215	329	0
4	NHPP	N362039	TEN SLEEP TO BUFFALO US 16	63.35	68.98	5.63	PAVEMENT REHABILITATION	2020	322	3,863	4,185	3,787	398	0
4	NHPP	N362041	TEN SLEEP TO BUFFALO US 16	85.40	85.40	0.00	SAFETY IMPROVEMENTS		50	578	628	568	60	0
4	SCP	WL22102	KAYCEE TO BUFFALO WILDLIFE FENCING	253.87	271.88	18.21	FENCING	2020	220	0	220	0	220	0
FY TOTAL:				35.14					\$964	\$9,145	\$10,109	\$8,997	\$1,007	\$107



JOHNSON COUNTY STIP TOTAL



Wyoming Department of Transportation
5300 Bishop Blvd
Cheyenne, WY 82009

STATE TRANSPORTATION IMPROVEMENT PROJECTS COUNTY TOTAL

County		Transportation Projects	Capital Improvement Projects	Communications Projects	Transit Projects	Aeronautics Projects	Total
Johnson	2022	\$10,109,000	\$0	\$0	\$150,000	\$0	\$10,259,000
	2023	\$8,729,000	\$0	\$0	\$0	\$0	\$8,729,000
	2024	\$20,447,000	\$0	\$0	\$0	\$1,253,000	\$21,700,000
	2025	\$15,476,000	\$0	\$0	\$0	\$1,458,000	\$16,934,000
	2026	\$13,451,000	\$0	\$0	\$0	\$0	\$13,451,000
	2027	\$32,611,000	\$0	\$0	\$0	\$333,000	\$32,944,000
	Total	\$100,823,000	\$0	\$0	\$150,000	\$3,044,000	\$104,017,000



District 4 STIP 2022-2028

Isaac Finkle, District Construction Engineer



CURRENT STIP Projects Total 2022-2028

\$66,569,773

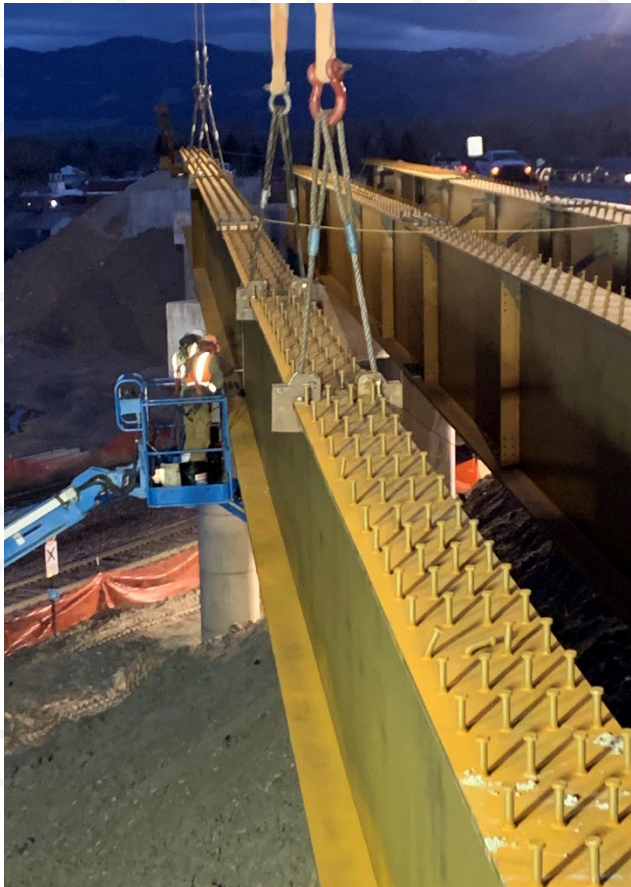
JOHNSON COUNTY PROJECTS 2022-2028								
		ML	BRM	ERM	Miles	Project Type		Cost
2022								
I255120	KAYC-BUFF/TRABING RD SEC NBL & SBL	I25	289.53	293.83	4.30	MILL & OVERLAY (ALI, ALJ, ALK)		\$5,925,394
DR43858	I-90/STRUCTURE BDJ	I25/I90	58.65	58.65		STR REPAIRS & GIRDER REHAB (BDJ)		\$872,002
N362041	TENS-BUFF/CATCHNET	US 16 West	85.40	85.40		UPGRADE VEHICLE CATCHNET SYSTEM		\$577,500
N362039	TENS-BUFF	US 16 West	63.35	68.98	5.63	MILL & OVERLAY		\$4,738,531
							Total	\$12,113,427
2023								
I255117	KAYC-BUFF/DIST BNDRY NORTH	I25	272.11	279.79	15.36	PROFILE MILL AND OVERLAY (AKW, AKX, AKY, ALA, ALB)		\$7,908,391
							Total	\$7,908,391
2024								
P591008	BUFF/MAIN ST/I-25, I-90 INT/JCT WY196, US	Main Street	298.02	301.34	3.32	REHAB (AXY, BMQ)		\$6,408,368
							Total	\$6,408,368
2025								
1004010	BUFFALO-UCROSS	US16 East	2.12	7.40	5.28	MILL & OVERLAY		\$2,606,396
							Total	\$2,606,396
2026								
N362040	BUFF-TENS	US 16 West	68.96	80.09	11.13	MILL LEVEL AND OVERLAY		\$8,939,931
							Total	\$8,939,931
2027								
I255121	KAYC-BUFF/MDLE FRK SECT (NBL & SBL)	I25	279.71	289.58	19.74	MICRO SURFACE		\$2,466,705
I902126	SHER/BUFF WEST/EBL & WBL	I90	50.75	56.40	11.30	MILL & OVERLAY		\$14,146,822
COMB	STRUCTURES BDB & BDC	I90	55.02	55.02		STRUCTURE REPLACEMENTS (BDB, BDC)		\$1,319,999
COMB	STRUCTURES BCX, BCY, BCZ & CTS	I90				STRUCTURE REPLACEMENTS		\$10,659,734
							Total	\$28,593,260
2028								
NO PROJECTS SCHEDULED								
		Total Miles	76.06			Six Year Total		\$66,569,773



District Wide Bridge Rehabilitation

50 bridges are scheduled to be rehabilitated over the next six years throughout District 4.

FUN FACT: There are 518 bridges in D4



Total Estimated Cost: \$44,725,326

District 4 Bridge Projects - 2022-2028

	Project Location	# of Structures	Project Estimate
2022	Rehabilitation	9	\$ 2,834,665
2023	Rehabilitation	6	\$ 6,255,000
2024	Rehabilitation	5	\$ 5,944,990
2025	Rehabilitation Replacement	12 2	\$ 6,510,000
2026	Rehabilitation Replacement	7 3	\$ 5,020,000
2027	Replacement	5	\$ 13,131,734
2028	Replacement	1	\$ 5,028,937
		50	\$ 44,725,326



District Wide Contract Maintenance Projects

Contract Maintenance Projects include:

- Chip Seals
- Crack Seals
- Rumble Strips
- Culvert Lining
- Epoxy Striping
- Sign Upgrades



Total Estimated Cost: \$24,054,510

**District 4 Contract
Maintenance Projects
2022-2028**

Year	Project Estimate
2022	\$4,136,655
2023	\$2,460,000
2024	\$5,837,855
2025	\$1,770,000
2026	\$3,600,000
2027	\$1,500,000
2028	\$4,750,000
TOTAL	\$24,054,510



2021 Carry Over Project Status

- US 14/16 Ucross – Completed
- Dynamic Message Boards on
US 14 Dayton RM 82.59 US
16 Buffalo RM 88.56





2022

US 16 – Tensleep to Buffalo

5.63 Mile Mill and Overlay

RM 63.35 to 68.96

Est. Cost - \$4.7M

Spring 2023





2022

I-25 Trabing Section North & Southbound Lanes

8.46 Mile Mill and Overlay
RM 289.58 to 293.81
Est. Cost - \$5.9M
Completion June 30,
2023





2022

I-90/US 16 Bridge Repair

Structure and Girder Repair

Est. Cost - \$872,002





2023

US CatchNET Upgrade

RM 85.40

Est. Cost - \$577,500

December Letting





2023

I-25 Kaycee to Buffalo North and Southbound Lanes

15.36 Mile Mill and Overlay w/ Bridge

Rehabilitation

RM 272.11 to 279.79

Est. Cost - \$7.9M



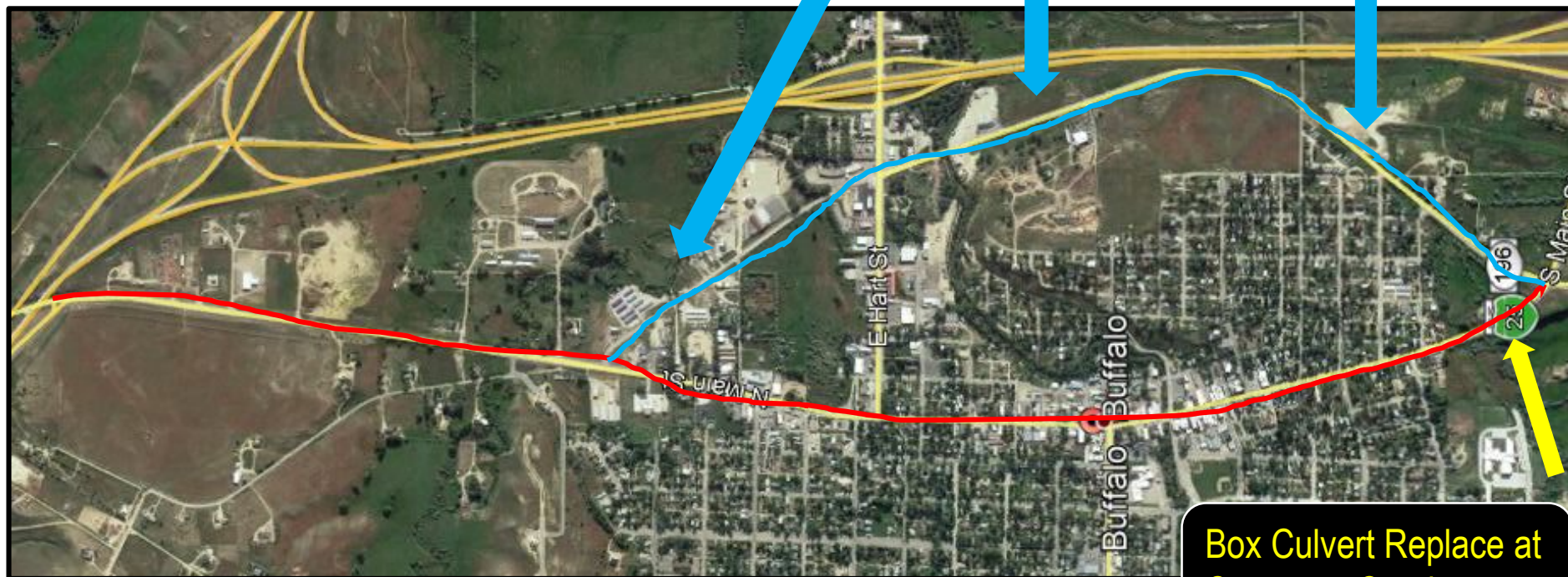


2024

Buffalo Main Street

3.32 Mile Rehabilitation
RM 298.02 to 301.34
Est. Cost - \$6.4M

Johnson County R&B and the City of Buffalo have an
ARS to complete additional work.



Box Culvert Replace at
Cemetery Creek



2025

US 16 East Buffalo to Ucross

5.28 Mile Mill and Overlay

RM 2.12 to 7.40

Est. Cost - \$2.6M





2026

US 16 Buffalo West

11.13 Mile Mill and Overlay

RM 68.96 to 80.09

Est. Cost: \$8.9M





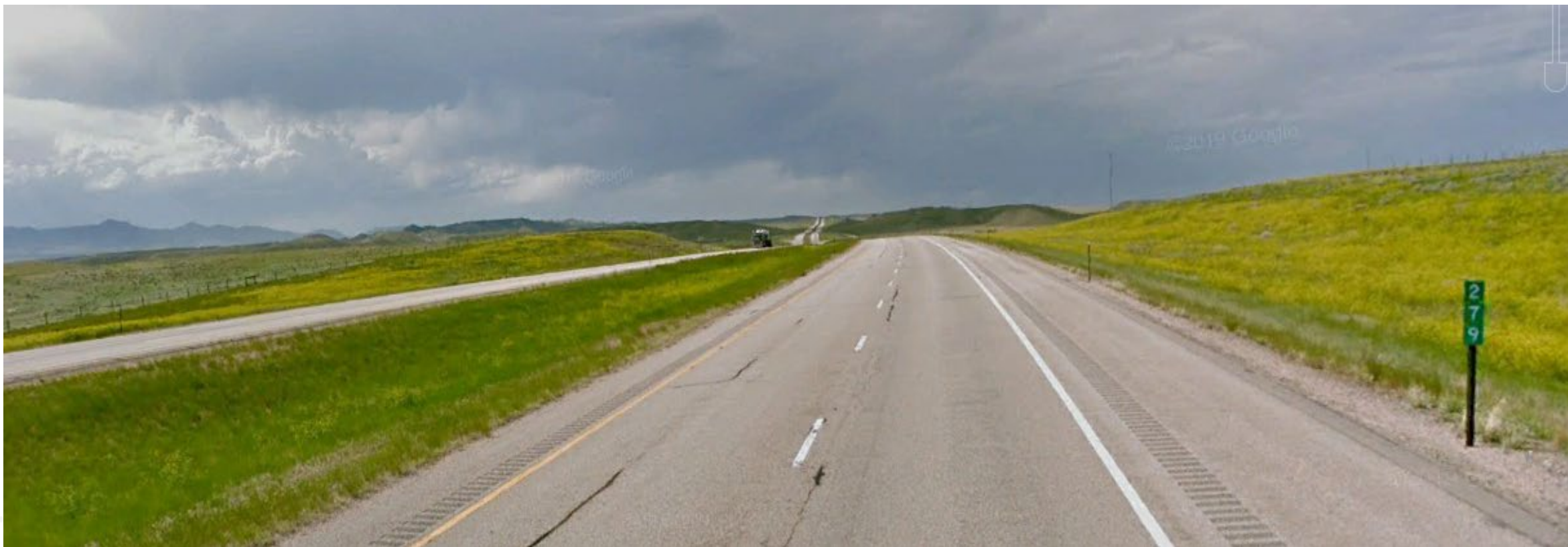
2027

I-25 Buffalo South - Middle Fork Section

19.74 Mile Micro Surface

RM 279.71 to 289.58 NBL/SBL

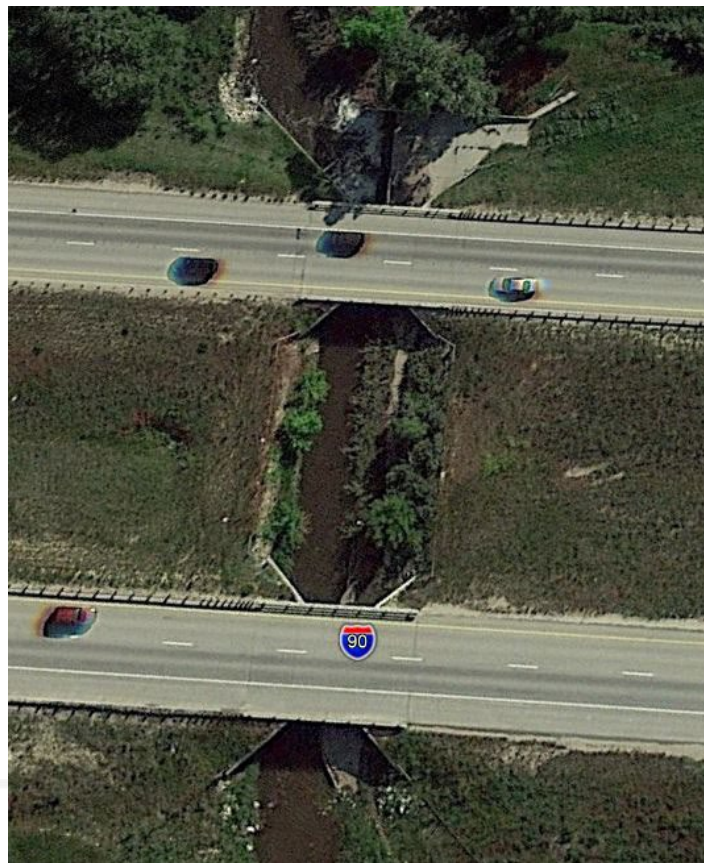
Est. Cost: \$2.5M



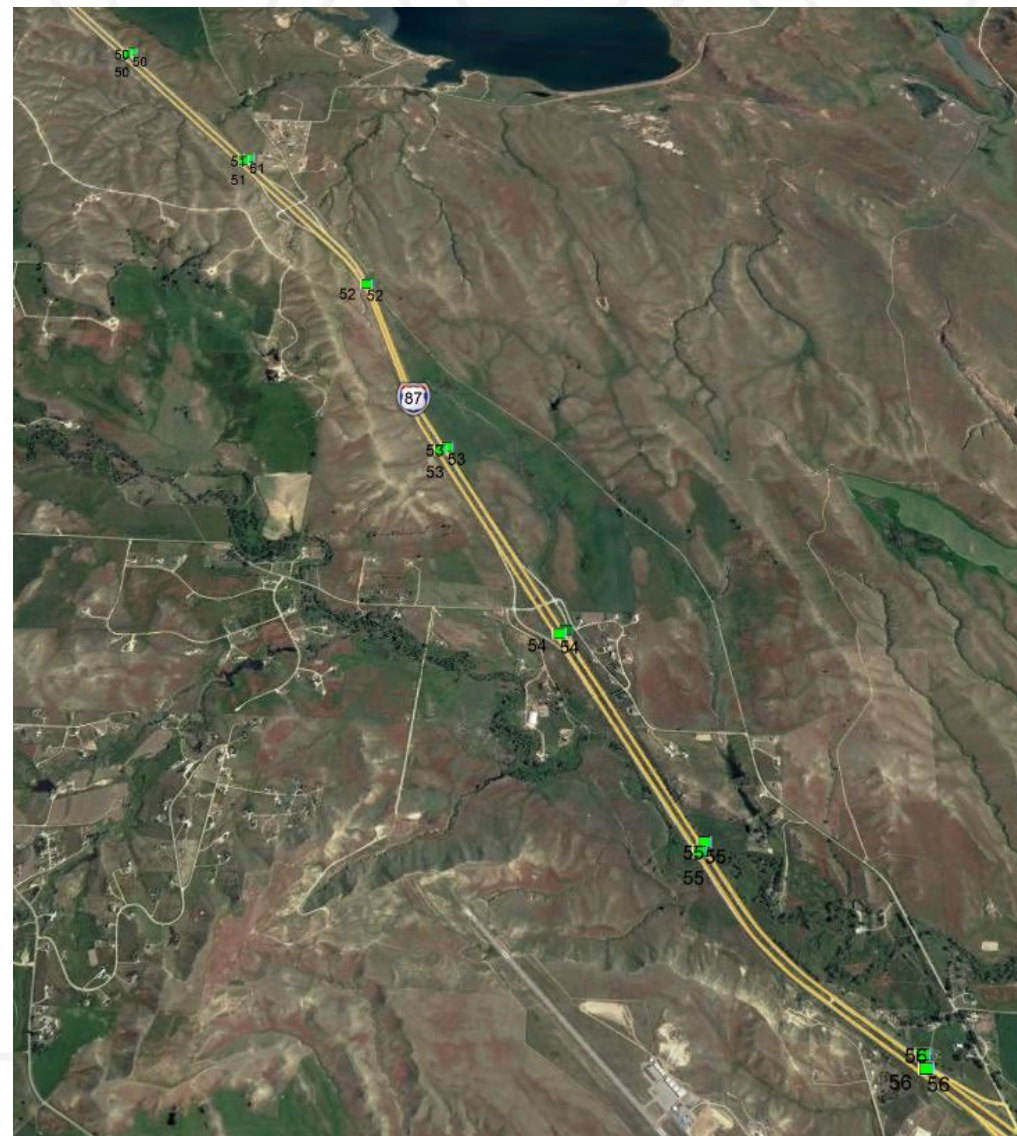


2027

11.30 Mile Mill & Overlay w/ bridge replacement
RM 50.75 to 56.40
Est. Cost: \$14.8M



I-90 Buffalo West EBL/WBL





2028

No Scheduled Projects





TRAFFIC PROGRAM



Traffic by the Numbers

Snapshot of District 4 Traffic assets to maintain:

- 11,000+ signs
- 145+ crosswalks
- 120+ stop bars
- 55 traffic signals
- 58 high mast light towers





Striping Operations

Striping Fun Facts:

- Striping trucks can only travel at a maximum of 8-12 mph while striping
- All interstate lines and yellow centerlines on 2-lane roadways are re-painted each year
- 71,000 gallons of paint
- 536,000 pounds of glass reflective beads





Access Permits

- District Traffic staff manages all approaches to highways in District 4
- Any new approach, modification to an existing approach, or change in land use at an approach requires WYDOT approval (i.e. subdivisions)

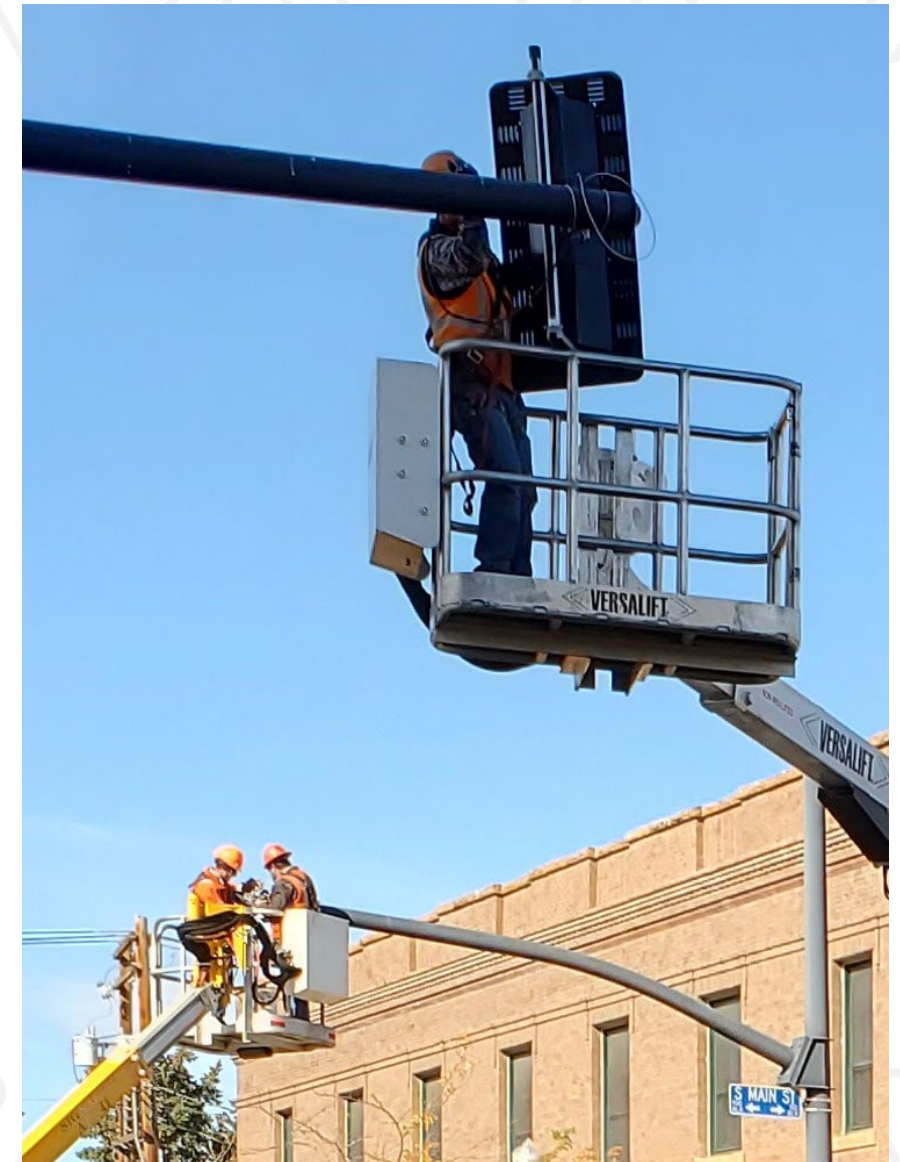
District 4 Access Permits					
	Campbell	Crook	Johnson	Sheridan	Weston
Access permits in progress (not yet issued)	6	3	4	30	5
Access permits being built (issued permit)	14	11	3	26	1
Accesses denied in the last year	2	0	0	3	0



Traffic Signals

Common issues for traveling public

- Flashing yellow arrow or light:
 - Proceed with caution
 - Yield to others in intersection
- Solid yellow arrow or light:
 - Warning that red light is about to appear
 - Stop if you can do so safely
 - Not “speed up and get through the intersection.”





District 4 Fatalities

Five Year

2018 18

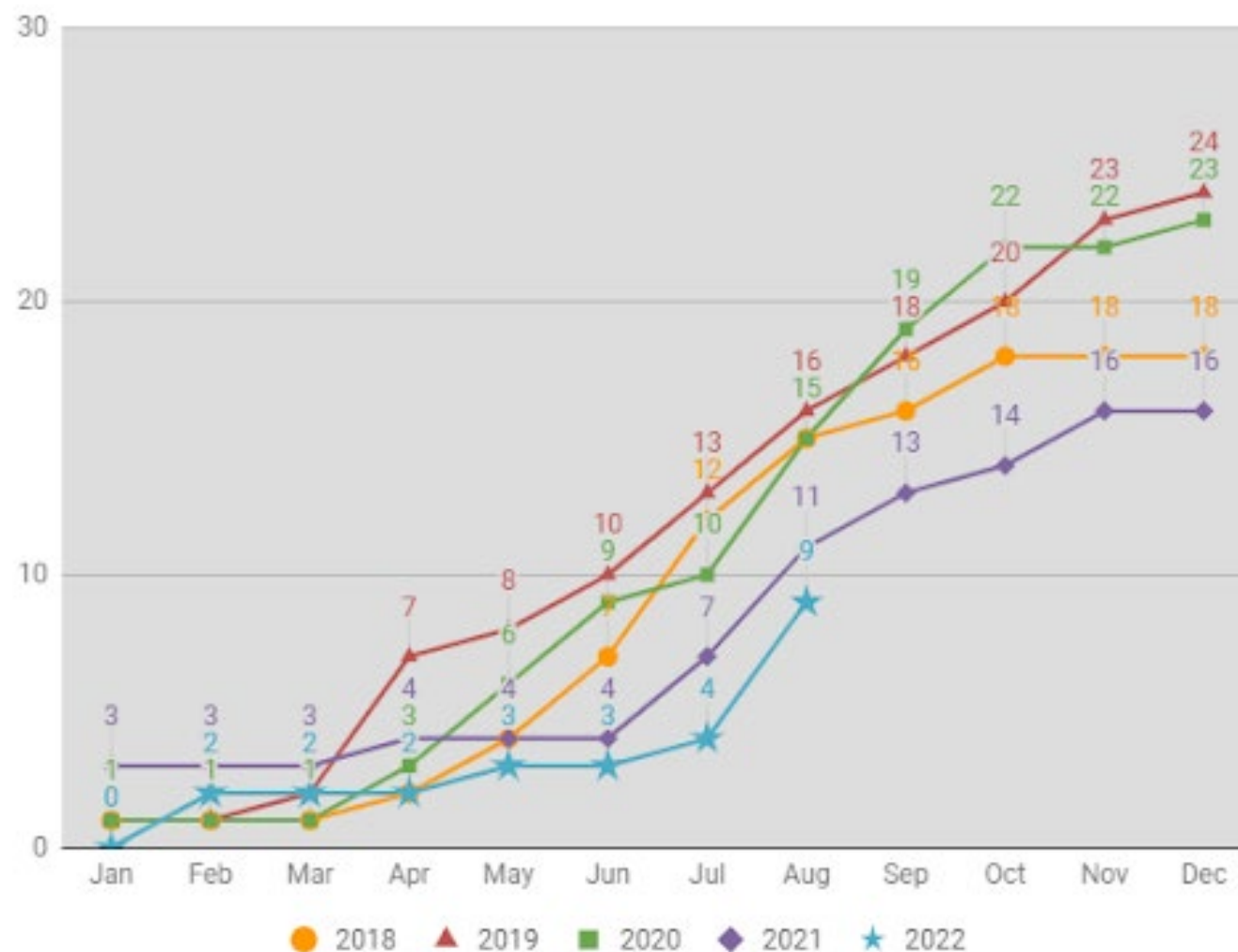
2019 24

2020 23

2021 16

2022 9*

2018 to 2022 Cumulative Fatalities, District 4





Next Steps

Local Governments



Contact WYDOT to learn about opportunities for:

- Funding
- Construction partnerships
- Supply purchases



Attend online STIP meeting starting July 26



Provide feedback

- Upcoming projects
- Developments

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Online STIP Meetings

Starting July 26



Attend online STIP meetings



Provide feedback

- On current and upcoming projects
- What are we missing - Safety, mobility, congestion, etc.
- What would you like to see in the STIP document?
- What is the best way to present information?

WYDOT is hosting a self-guided online public meeting for the Statewide Transportation Improvement Program (STIP)

The public can participate in the online meeting at their convenience

The online meeting can be accessed at
www.wydotSTIPmeeting.com



WYOMING'S TRANSPORTATION SYSTEM

Supporting the economy and connecting our communities.

STATE TRANSPORTATION IMPROVEMENT PROGRAM 2022-2028

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