

**COCHISE COUNTY**

# Engineering & Natural Resources

Board of Supervisors  
Work Session  
August 8, 2023



*Public Programs...Personal Service*

**COCHISE COUNTY**

# Engineering Division Updates



*Public Programs...Personal Service*

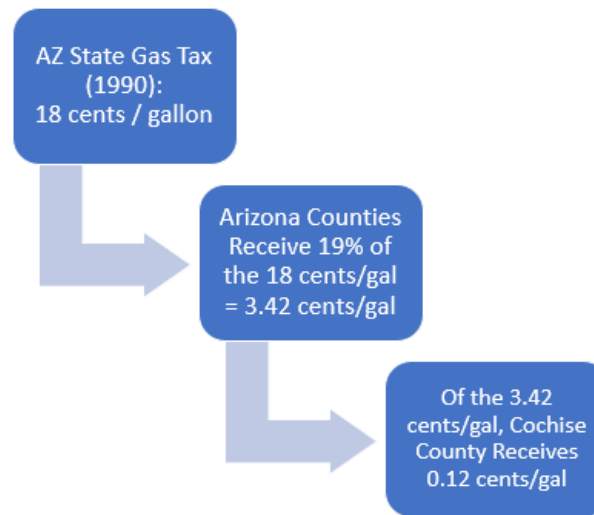
## Projects Completed – Past Quarter

- Special Event Permit is live on Citizenserve, for use by the public
- Geronimo Trail MP 8.5, Box Culvert
- Yearly Nighttime Sign Inspection
- Awarded Grants
- Survey Flights



# COCHISE COUNTY

## Highway User Revenue Funds (HURF) Distribution






















If a person drives 1,500 miles per month in a vehicle that gets 30 miles/gallon, they will purchase 50 gallons of gasoline in that timeframe.

50 gallons of gas at 18 cents/gallon is \$9 per month or \$108 per year in AZ State Gas Tax.

Cochise County receives 0.12 cents/gallon, equaling 6 cents per month or 72 cents per year.

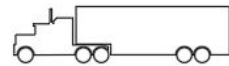


# Road Rehabilitation

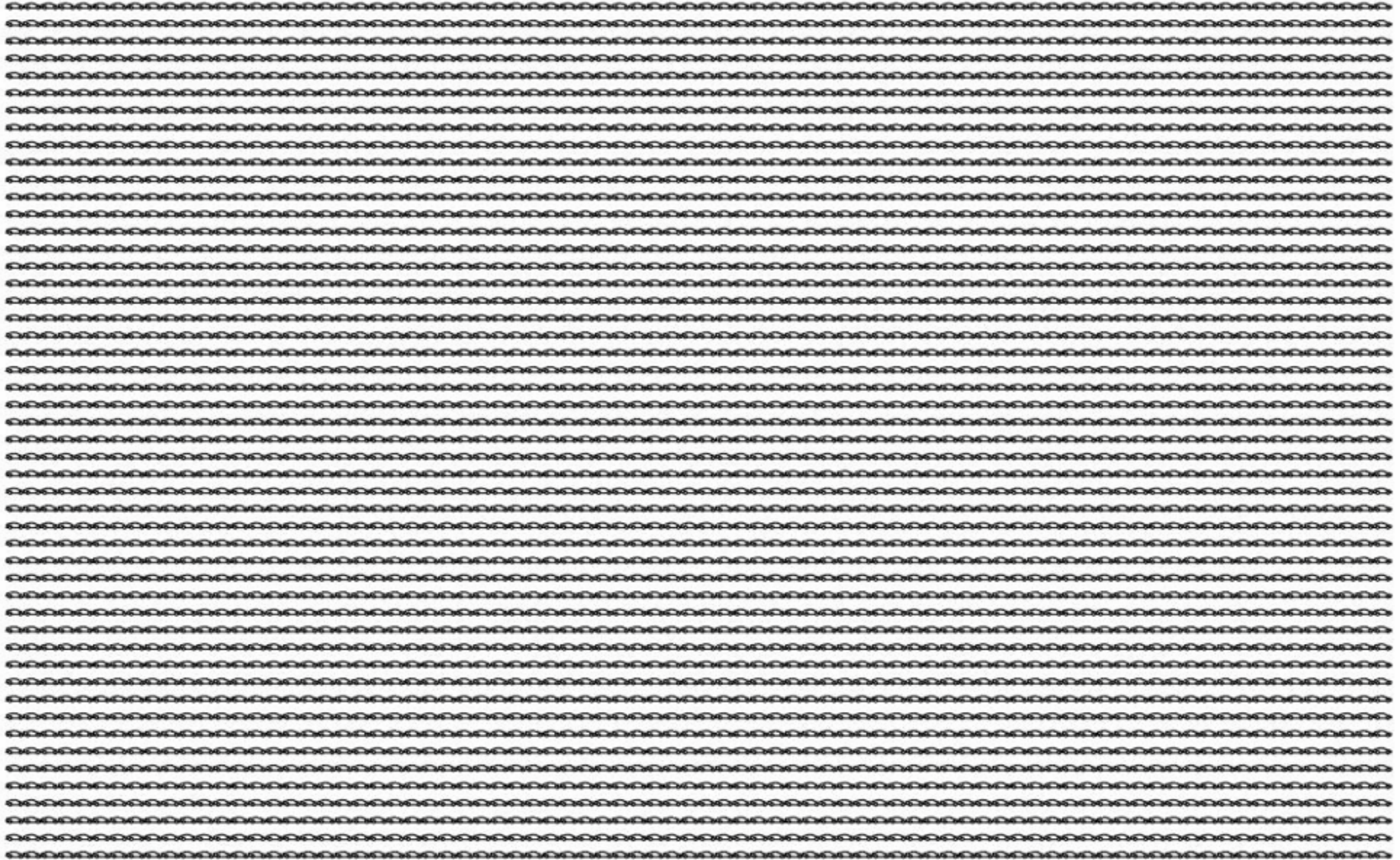
FHWA Vehicle Classifications			
<p><b>1. Motorcycles</b> 2 axes, 2 or 3 tires</p> 	<p><b>2. Passenger Cars</b> 2 axes, can have 1- or 2-axle trailers</p> 	<p><b>3. Pickups, Panels, Vans</b> 2 axes, 4-tire single units Can have 1 or 2 axle trailers</p> 	<p><b>4. Buses</b> 2 or 3 axes, full length</p> 
<p><b>5. Single Unit 2-Axle Trucks</b> 2 axes, 6 tires (dual rear tires), single-unit</p> 	<p><b>6. Single Unit 3-Axle Trucks</b> 3 axes, single unit</p> 	<p><b>7. Single Unit 4 or More-Axle Trucks</b> 4 or more axes, single unit</p> 	<p><b>8. Single Trailer 3- or 4-Axle Trucks</b> 3 or 4 axes, single trailer</p> 
<p><b>9. Single Trailer 5-Axle Trucks</b> 5 axes, single trailer</p>  	<p><b>10. Single Trailer 6 or More-Axle Trucks</b> 6 or more axes, single trailer</p>  	<p><b>8. Single Trailer 3- or 4-Axle Trucks</b> 3 or 4 axes, single trailer</p>   	
<p><b>11. Multi-Trailer 5 or Less-Axle Trucks</b> 5 or less axes, multiple trailers</p> 	<p><b>12. Multi-Trailer 6-Axle Trucks</b> 6 axes, multiple trailers</p>  		
<p><b>13. Multi-Trailer 7 or More-Axle Trucks</b> 7 or more axes, multiple trailers</p> 			



# COCHISE COUNTY



x4000



# Road Rehabilitation

Priority Major Roads (truck traffic)

- Davis Road
- Fort Grant Road
- Kansas Settlement Road
  - Shelton
  - Bell Ranch
- Dragoon Road
- Washington Avenue
- 7th Street



# Road Rehabilitation

Priority Major Roads

(light vehicles, over 1,000 vehicles / day)

- Moson Road
- Naco Highway
- Charleston Road
- Hereford Road
- Ocotillo Road
- Pomerene Road
- Double Adobe Road



## Neighborhood Traffic Management Program (NTMP)

- NTMP study on San Xavier (Sierra Vista). Traffic counts and a speed study has been completed.
- Updating the NTMP Policy & Procedures



# Moson Road Design

- \$1 Million for Design from SVMPO
- Moson Road ADOT
- Staff time
- ENR manage project and contract for consultant to design.
- ADOT NEPA



## Davis Road

- RAISE Grant awarded \$2,057,500
  - 22 miles from SR80 to Central Highway
  - Study and NEPA Clearance
- Davis Road Milepost 5 & 13 awarded \$2,893,000 through Senator Kelly's Discretionary Funds
  - ADOT oversight of construction
  - Wide loads
- Central Hwy to US191
  - Acquiring Right-of-Way
  - Completing 100% Design
  - Applying for construction grants



# COCHISE COUNTY

## Davis Road Oversize Load



20' wide, 17'8" high and 215'11" long  
601,250 lbs (300.6 tons), 20 axels



# Survey

- Sands Ranch
- Horseshoe Draw
- CORS Station



**COCHISE COUNTY**

# **Flood Control Division**



*Public Programs...Personal Service*

## Flood Control Division

- Citizen Concerns
- Floodplain Regulation Updates
- Commercial Reviews
- Project Updates



## Floodplain Regulations

- FCD Regulations out for Public Comments to assist with CRS rating through ADWR and FEMA
  - To be taken to the Board on September 12th
- Community Rating System (CRS)
  - Continue 5-yr cycle detailed CRS Reporting August



# Project Updates

- Revised FEMA Mapping, Final 2026

  - Bisbee (Preliminary Map)

  - St David (Preliminary Map)

  - Benson

  - Huachuca City

  - Sierra Vista

  - Hereford

- Watershed Studies

  - Willcox Basin \$250,000 (Pending BRIC Grant)

  - Corps of Engineers (Request submitted)

    - Rucker Canyon Watershed Study

    - St. David Alluvial Fan Flooding, West of San Pedro



# COCHISE COUNTY

## Municipal Separate Storm Sewer System (MS4)

- ADEQ Audit
  - New permit requirements
    - Sample and Testing
    - Public Education
      - Contaminants
      - Pamphlets
  - ADEQ Permit fee \$7,135



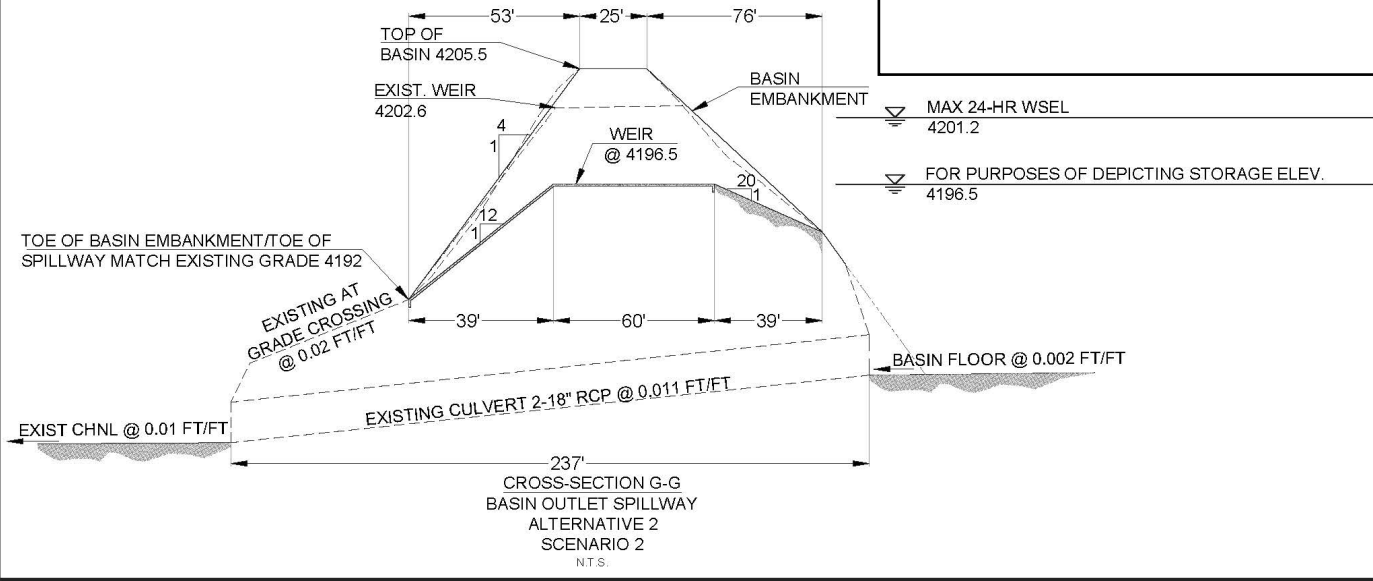
# COCHISE COUNTY Leslie Canyon Pond

PROPOSED WEIR/POND SUMMARY

STORM DURATION	MAX PONDING [ELEV.]	MAX FLOW DEPTH ABOVE WEIR [FT]	PEAK INFLOW [CFS]	PEAK WEIR OUTFLOW [CFS]	STORAGE BELOW WEIR CREST [AC-FT]
24-HR	4201.2	4.7	3023	2921	40.7
3-HR	4200.8	4.3	2901	2466	40.7
1-HR	4200.4	3.9	2746	2168	40.7

Design Consultant \$219,250

- Completed RAS 2D models for various storm durations on modified spillway
- Proposed design concept for spillway to meet dam safety requirements



# Bay Acres

- Design Consultant \$261,791
- Hydrologic analysis (42%)
- Hydraulic analysis (38%)
- Design (42%)



# COCHISE COUNTY

## Upper San Pedro Projects

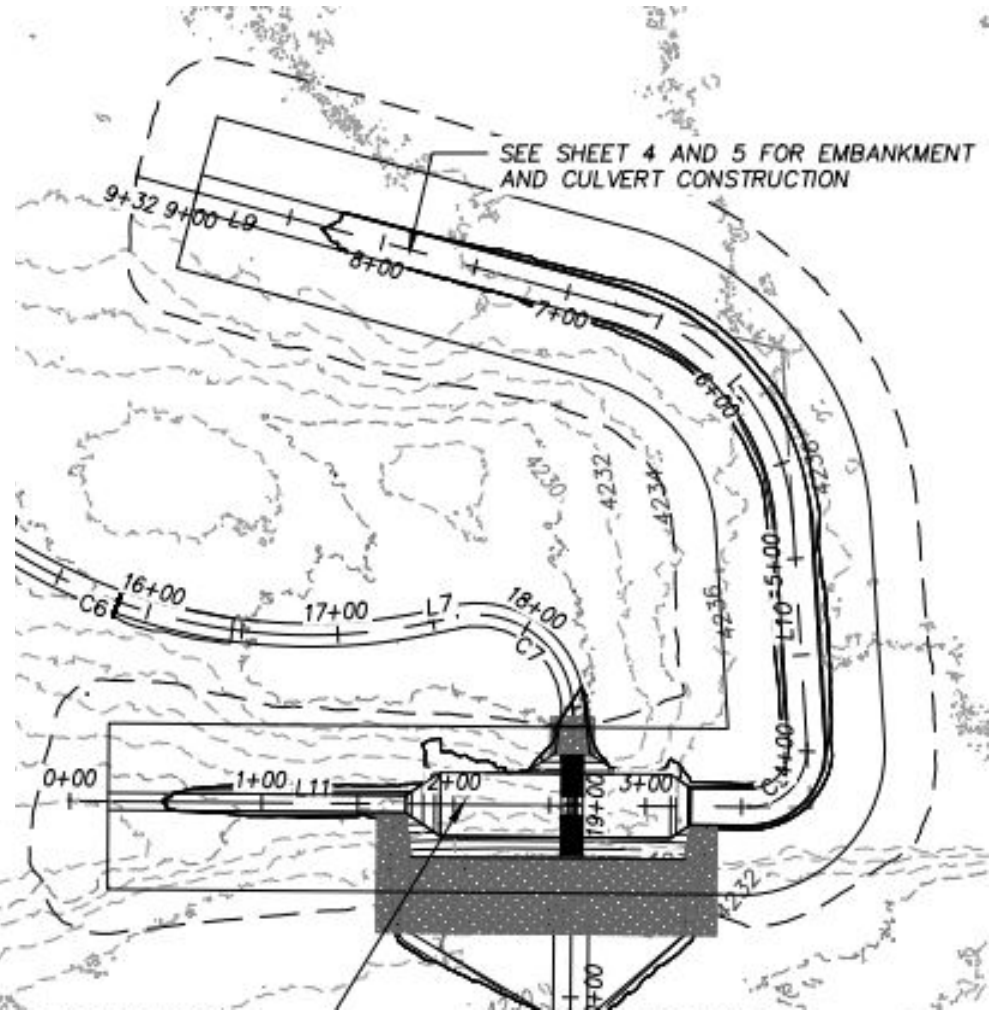
- Riverstone
  - Phase II Site Investigation Complete
  - REPI Grant \$900,000
    - Final Design & Permitting
- Horseshoe Draw
  - Armor around outlet pipes (Completed)
  - Inlet Repairs (Completed)
  - Design outlet fix
- Bisbee Effluent
  - Design Concept Report \$345,000
    - To be completed this fall



Design Consultant  
\$330,000

- Hydraulic modeling of detention basin completed
- Flood control structure
- NEPA Clearance ongoing

REPI Construction  
Grant \$1,500,000



# Questions ?

