# Leading Idaho Local Bridge Program

Local Highway Technical Assistance Council

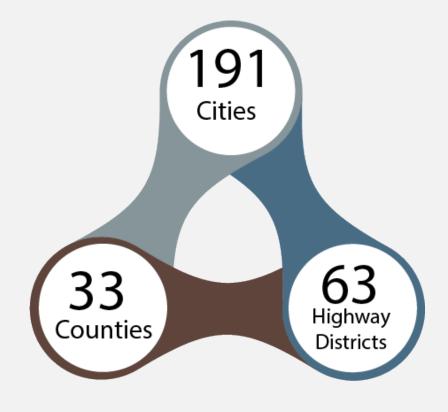
September 2023

Scott Wood, P.E. Federal-Aid Engineer



### LHTAC – Advocate. Support. Train.

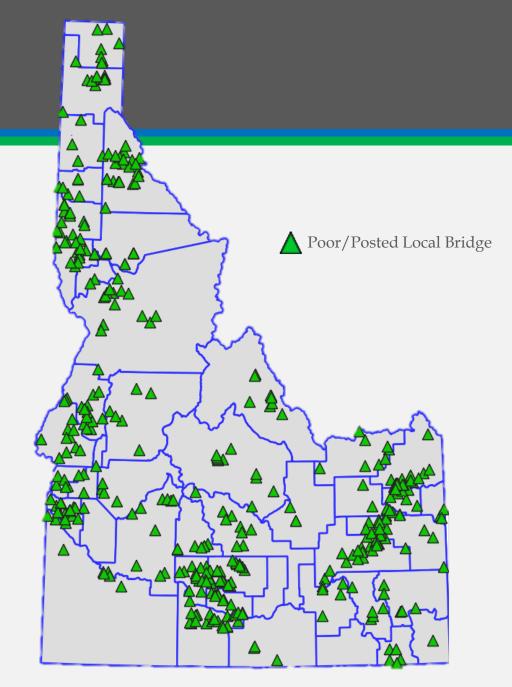
- Technical Assistance
- Training T2 Center
- Administer Transportation Programs
  - Federal-aid
    - Rural & Urban (Surface Transportation Block Grant)
    - Bridge (Local & Off-System)
    - Local Highway Safety Improvement Program (LHSIP)
    - Transportation Alternatives (TAP)
  - State Funded
    - Local Rural Highway Investment Program (LHRIP)
    - Leading Idaho Local Bridge (LILB)
    - Children Pedestrian Safety (CPS)





### Local Idaho Bridges

- 4,259 Bridges in Idaho
- 2,479 local bridges
- 150 in poor condition
- 359 posted for load restriction
- 1,039 over 50 years old
- 2018 ASCE Report Card Grade D
- 227 Local Highway Jurisdictions (City, County, Highway District)
- Currently about \$13M federal-aid per year for local bridges





### Program Creation

Idaho Senate Bill 1359 passed in March 2022 - \$200 Million in surplus funds:

- Establishes new state funded program
- To address 1/3 poor or posted local bridges
- There were 428 eligible bridges
- Fund bridges through 5 rounds of awards

Additional \$200M in 2023

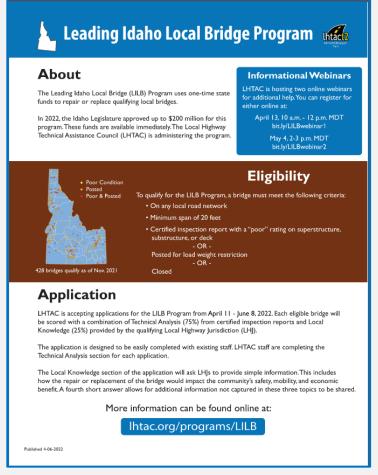
\$400M total so far



### Application Outreach

#### Extensive Local Outreach

- Post cards
- Emails
- Website
- Webinars
- Regional meetings
- Phone calls



### **Application Statistics**

- 428 Eligible bridges
- 404 In need of funding
- 221 Applications received
- 89 out of 93 jurisdictions applied



## Application Scoring

#### **Technical Analysis - 75%**

- Inspection reports
  - Condition
  - Load rating
- Existing conditions
  - Environmental risk
  - Highway use
- Constructability
  - Bridge length
  - Detour length
- Scored by LHTAC staff

#### Local Knowledge - 25%

- Right-of-way ownership
- Four open Questions (100 words max)
  - Safety
  - Mobility
  - Economic benefit
  - Additional information
- Scored by Council



## Technical Scoring

### **Technical Analysis 75%**

• Condition 15 <sup>o</sup>
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- Scour 6%
- Posting Level 10%
- ADT/Detour 9%
- Bridge Length 10%
- Estimated Cost 5%
- Environmental 10%

CONDITION	<u>POINTS</u>
9 Excellent	0
8 Very Good	0
7 Good	0
6 Satisfactory	0
5 Fair	2
4 Poor	3
3 Serious Condition	4
2 Critical Condition	5
1 Imminent Failure	5
0 Failed	5

			ADT				
			0 - 50	51 - 100	101-500	501 - 1000	>1000
	Detour Length (miles)	2	3	4	5	5	5
		5	2	3	4	5	5
		100	1	2	3	4	5



## Application

### **Application Scoring 25%**

- 4 Questions
- 100 words max
- Online, email, hardcopy
- Take application over the phone
- ROW Ownership 5%

#### LILB

#### 4. Short Answer

Please provide four short answers that demonstrate the importance of this bridge. There are three specific areas of focus: safety, mobility, and economic benefit. A fourth short answer section may include additional information not captured in the first three answers. Each answer is limited to 100 words.

Examples: Specific business, services, annual events, seasonal access, neighborhood connectivity, safety benefits, fiscal impact, or other activity that is vital to your jurisdiction.

#### Each answer is worth up to 5% of the total application score:

- 0-1: Blank, irrelevant, or non-impactful information
- 2-3: Demonstrates minor importance of the bridge
- 4-5: Demonstrates the significant importance of the bridge

Short Answer #1:	Safety			
Short Answer #2:	Mobility			
Short Answer #3	conomic Benefit			
Snort Answer #4:	Additional information you we	ould like to include		

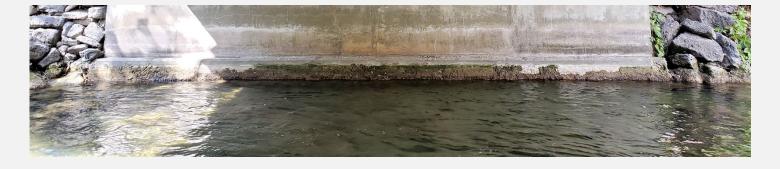




### Program Categories

- 221 bridges in the program
- 5 Groups
  - Construction Ready
  - Greater than 50% design
  - Repairs
  - Testing and Analysis
  - Replacements/Removals

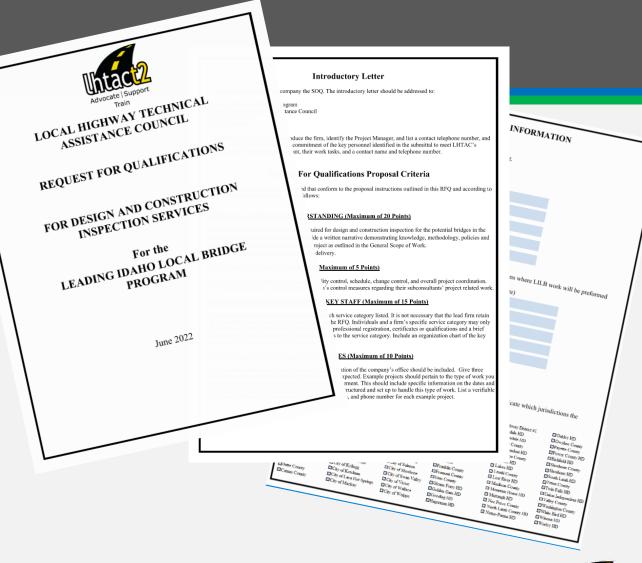






### Consultant Selection

- Consultant outreach
- Request for qualifications
- Pre-qualified list (term agreement)
- Design and CE&I
  - Unique teams
- Geotechnical engineering
- Environmental services





### Unique Consultant Teams

### Design and CE&I

- Same PM/team for design and CE&I
- Assigned 1 to 8 bridges
- Awarded contracts to top scoring teams and in their preferred geographic area
- Large projects by themselves, phased contracts
- Award to all qualified firms through the life of the program
- Lump sum agreements for design
- Invoiced on milestone submittals and percent complete

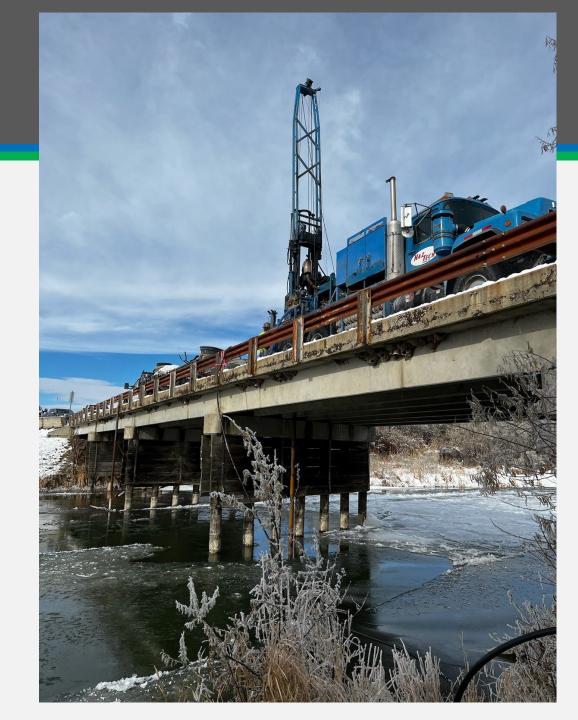




### Consultant Unique Teams

### Separate geotechnical agreements

- Assigned 7 to 19 bridges by region
- Lump sum agreements + direct expenses for drilling and traffic control
- Coordination with design teams



### **Environmental Consultants**

### 5 Environmental Categories

- Aquatic resources
- Biological resources
- Archaeological resources
- Architectural history
- NEPA documentation









### Consultant Teams

	Conceptual Consultant Selection						
Bridge #	Design	Geotechnical	Environmental				
1					\ auatic/	Diological	
2	Firm A		Historical	Archaeological	Aquatic/Biological Firm		
3		Firms 1					
4		Firm 1	Firm	Firm			
5	Firm B				Agustia	Dielesieel	
6					Aquatic	Biological	
7	Firm C		Cult	tural Firm	Firm	Firm	
8	Firm C	F: 2					
9	F' D	Firm 2	_	n in a non a netal Finn	a All Camila		
10	Firm D		Environmental Firm All Services			25	

- 17 Design & CE&I teams
  - 9 Geotechnical firms
- 11 Environmental firms



### Streamlining Environmental Process

### Programmatic Biological Assessment

- Statewide
- Extend to local usage

State Historic Preservation Office Programmatic Agreement

- Direct coordination
- Mitigation process

#### Permit Efficiencies

- Pre-coordination (USACE, IDWR, DEQ)
- Non-reporting permits (automatic 404)





### What is Funded?

- 32 Design Agreements
- 26 Environmental Contracts
- 16 Geotech Agreements
- 4 in bidding
- 6 in construction
- Projected 35+ bridges under construction in 2023

# Total Obligated ~ \$200M



#### Mormon Rd. over West Fork Solider Creek

**Camas County** 

Project Estimate: \$700,000

Final Cost: \$440,720







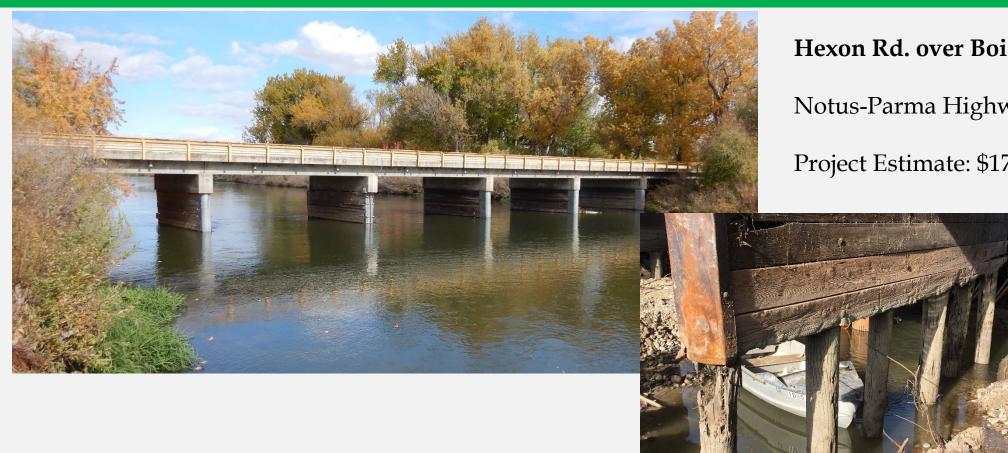
After



#### **Northwest Passage**









Notus-Parma Highway District

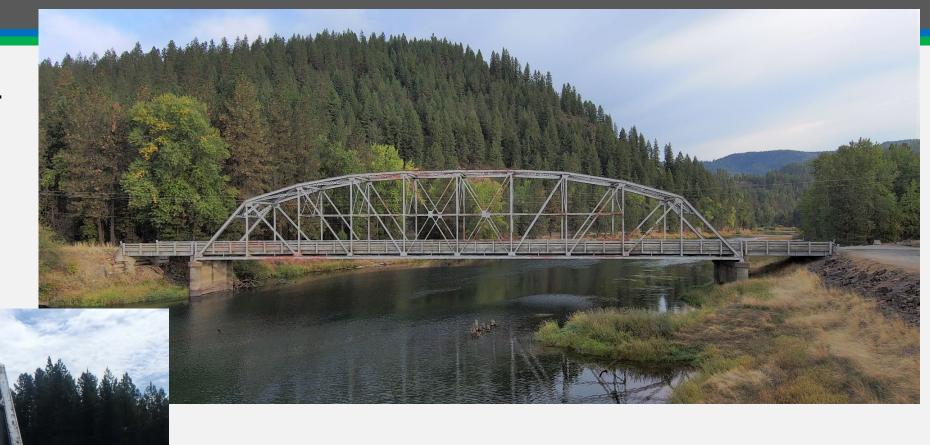
Project Estimate: \$17,100,000 - \$22,000,000



#### Canyon Road over Cd'A River

Eastside Highway District

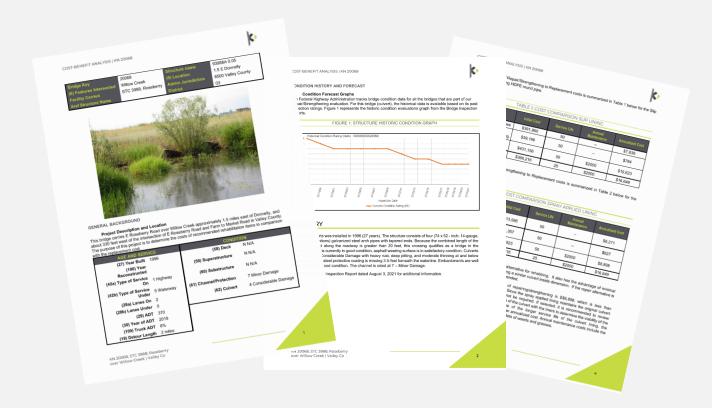
Project Estimate: \$15,000,000





## Repair / Review / Test Bridges

- Document review
- Load rating review
- Material testing
- Repair vs Replace
  - Fair Condition or better
  - Less than 50 years old
  - Cost Benefit Analysis





### Potential Challenges & Adaptability

- Contractor availability
- Material availability
- Timing with weather, permitting restrictions, mitigation
- Project bundling
- Local construction





# Questions?



