Design and Environmental Study For







ARLINGTON AVENUE BRIDGES REPLACEMENT

Agency Kickoff Meeting Presentation | February 4, 2022

Purpose of This Presentation

- ✓ Project History and Background
- ✓ Schedule is our "Road Map"
- ✓ Project Team Roles / Responsibilities
- ✓ Communications and Project HUB
- ✓ Project Status Update
- ✓ PEL to NEPA Transition
- ✓ Share Ideas and Suggestions





Project History and Background



- Feasibility Study completed June 2021
 - ▶ Define scope, constraints, and cost
 - Extensive public engagement process
 - Started with 5 initial bridge alternatives
 - Identified bridge type and aesthetic package to carry forward into NEPA clearance and design



- Funding allocated
- ▶ NEPA/Design contract awarded to Jacobs December 2021

Honored to receive \$7 Million RAISE Grant for Construction Must be Obligated By September 2024!

Purpose and Need



Agreed upon with FHWA, NDOT, and City of Reno
Vetted with Reno City Council, TAC, SWG, and the Public during the Feasibility Study

- ► Address structurally deficient bridges
- ▶ Preserve the hydraulic capacity of the Truckee River
- Provide safe and ADA compliant multimodal improvements
- Respond to adopted regional and community plans







Project History and Background

Feasibility Study Results

- ► Single Pier for North Bridge
- Clear Span for South Bridge (match existing)
- Aesthetics Theme Modern Art Deco, a melding of old and new







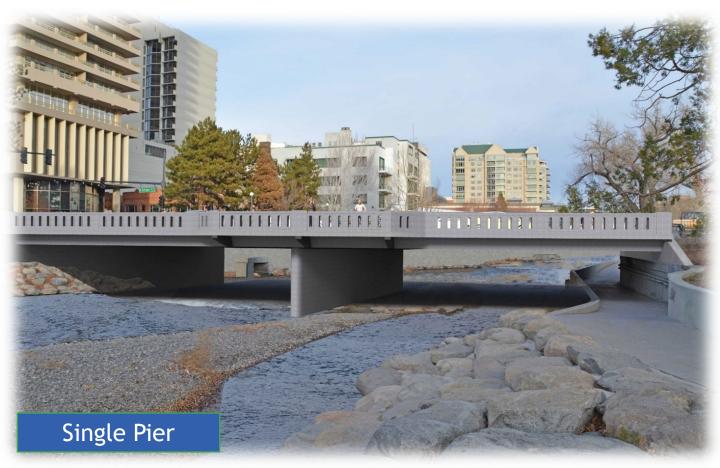






Project History and Background





Why Single Pier North Bridge?

- Reduced deck thickness
- Vertical clearance along path
- Opportunity for wider sidewalks along bridges
- Minor profile adjustments for hydraulic model clearance
- Similar look to existing (2-pier) bridge
- Maintenance access from bridge allows for debris removal prior to downstream narrowing of river
- Easier to construct
- Less expensive

Feasibility Study Results

Still Undetermined

- ► Cast-In-Place (CIP)
 - ► Falsework within the river for abutments and superstructure
 - Aesthetically more 'park' friendly look



- ► Falsework within the river for abutments; superstructure set in place
- Aesthetically more 'highway' type look



CIP - Box Girder From Veteran's Parkway (Reno)



Precast Girders - Project NEON (Las Vegas)





Project Timeline

NOVEMBER 13

RTC Board/ City Council Meeting

DECEMBER 12

Public Meeting #1 Feasibility Study

FEBRUARY

RTC Board/City Council Meeting

FIRST QUARTER

Public Meeting #2 Feasibility Study

SECOND QUARTER

Complete Feasibility Study

DECEMBER

Kick off NEPA/Design

JANUARY

60% Design Submittal

FEBRUARY

Public Meeting #3

JUNE

90% Design Submittal

JULY

Public Meeting #4

OCTOBER

100% Design Submittal

2020

2022

2024

2019

2021

2023

2025

FEBRUARY 6

SWG-1 Constraints/Criteria

JULY 15

TAC-1 Permitting & Regulatory

AUGUST 31

TAC-2 Bridge & Road Elements

NOVEMBER 5

SWG-2 Bridge Concepts

DECEMBER 15

SWG-3 Aesthetic Concepts

FEBRUARY

Aesthetic SWG Meeting #1 Public Meeting #1

MARCH

Aesthetic SWG Meeting #2

APRIL

Aesthetic SWG Meeting #3

JUNE

30% Design Submittal

JULY

Public Meeting #2

FIRST QUARTER

Finalize Permitting Advertise

SECOND QUARTER

Construction Starts



Rolls & Responsibilities



- RTC Management and Administration for NEPA/Design/Construction
- ► City of Reno Owner, Design Review
- ▶ NDOT LPA Agreement, Environmental Oversight and Review
- FHWA NEPA class of action determination, Environmental Oversight and Review
- ▶ **USACE** Section 408 Permit, Section 404 Permit
- CTWCD Local sponsor of USACE for Section 408 Permit
- Jacobs Prime Consultant, Survey, Bridge, Civil, Hydraulic
- ► **Stantec** Landscape & Aesthetics
- Civil FX/Parametrix Renderings
- CME Geotechnical
- ► PK Electrical Lighting and Electrical
- SJ Marketing Public Outreach with the RTC communications Team
- ▶ **PCSG** ICE, Constructability, Construction Schedule

Identified Key Groups

Aesthetic Stakeholder Working Group (ASWG)

- Review, provide input, and decide on aesthetic concepts and final design
- 4 meetings February, March, April, August 2022

Design Review Committee (DRC)

- Technical review, identify/discuss major impacts of design decisions, discuss environmental impacts
- Monthly meetings through final design

Agency Involvement

- Provide update and opportunity for discussion on decisions made and permitting status
- Quarterly meetings as necessary



Utility Involvement

- Coordinate design, adjustment, relocation, and additional utilities
- Bi-monthly meetings as necessary with focused discussion at DRC meetings

Public

- Obtain feedback on bridge type, landscaping, and aesthetics
- Provide advance notification of what to expect during construction
- 4 public meetings anticipated

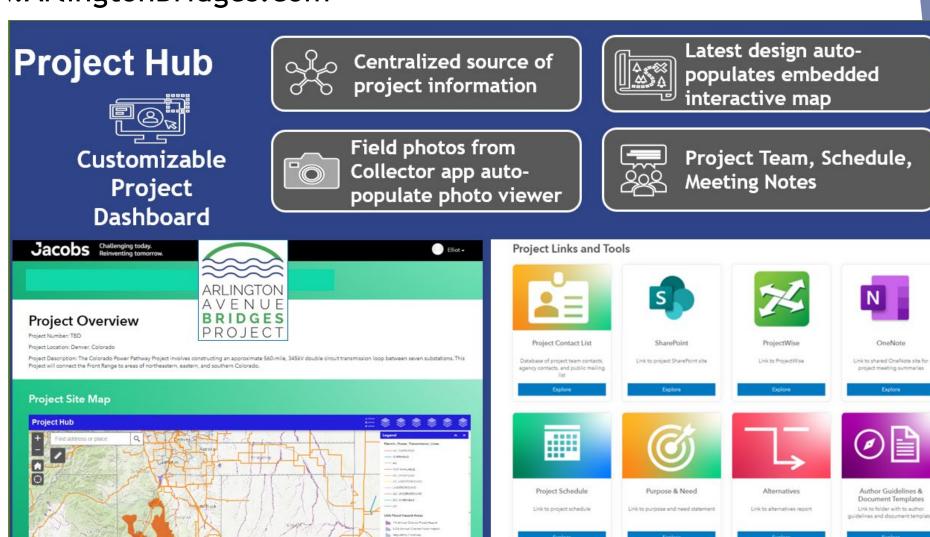
Communications

- Meetings We value our Team's time and input
- Website www.ArlingtonBridges.com



Project Hub







Project Status Update



- Topographic Survey and Utility Investigations
- Geotechnical Investigations
- Existing Hydraulic Model
- Section 408 Permit coordination with CTWCD
- ► PEL -> NEPA Transition for Environmental Study
- Design Criteria
- Public Meeting #1 March 2022 Pre-Recorded Presentation with Survey

PEL to NEPA Transition



Planning and Environmental Linkages (PEL) Process included planning products that can be carried forward into NEPA

- ► Purpose and Need
- ▶ Data Collection
- Alternatives Analysis/Preferred Alternative Identification
- ► Appropriate Public, Agency, TAC, SWG input

Environmental data collection to support NEPA underway





Project Schedule

Arlir	ngton .	Avenue	Bridg	ges Prelimina	ry Des	ign / N	EPA / Fir	nal Desig	n										
	12/12/2021		Get CTWC	D Model & Datum									•					•	
Week#	12/17/2021							408 Permit	404 Permit	NDEP/NDSL Permits	Design Review Committee	Aesthethic Stakeholder Working Group	Agency Coord. Mtgs	RTC Board	WC Board	Reno City Council			
1	12/20/2021											DRC	ASWG					Public Meeting Member	
2	12/27/2021	New Year								Coordinate with		Member List	Member list					List	
3	1/3/2022		×	Review CTWCD model			ProjectWise Setup		Coordinate with										
4	1/10/2022		Survey, dtms				Setup		CTWCD to discuss project	USACE discuss submittal regs.									
5	1/17/2022	MLK	ic Si d dt		it.	Exist ROW - WC GIS		PEL to NEPA	discuss project	submittai reqs.		0	0						
6	1/24/2022		de .		Sep	WC GIS		Trans. Memo	Dealin Casanasia al			Contact Members	Contact Members						
7	1/31/2022		vey, Topographic (Existing Ground o	Existing Utilities & As-Builts Research	chnical Invest & Draft Report; Traffic Analysis			Trans. Welle	Prelim Categroical Permissions w/ Exhibits to Kayla D.					KickOff Mtg				Public Mtg Notices and Postcards	
8	2/7/2022		netric Surve		al Invest raffic An				Kayla mtg w/ USACE									Presentation Preparation	
9	2/14/2022		etric ne F		nica Tr														•
10	2/21/2022		Bathom	Update Existing Hydraulic	Geotech	Design Criteria							ASWG #1 - Review of Modern Art Deco Consensus -All Ideas w/in theme		Memo			Record	
11	2/28/2022			Model				Mtg; PEL-										Public Mtg #1	PEL -> NEPA, Project Kickoff, Aesthetic Choices Intro
12	3/7/2022				Review Geotech Report	Alignments & Typ Section						DRC Mtg - Review Design Criteria; Existing Hydro Model Results							
13	3/14/2022						Sheet Layout											30-Day Public Presentation Open For	
14	3/21/2022		ort.			Bridge /			Coordinate with	Coordinate with USACE discuss			ASWG #2 - Ideas and Discussion					Comments	
15	3/28/2022		Repo	Proposed Hydraulic Model		Roadway			discuss project	submittal regs.									
16	4/4/2022		ion F	Results		Profile Coordination				Submitted requ.				MEETING					
17	4/11/2022		rpe Select			Coordination			oj. Conds., ct Analysis , 11. Riv nent and			DRC Mtg - Maintenance Access To River; South Under Bridge							
18	4/18/2022		sign e T)					mpar nce,						Memo	Memo	Memo			
19	4/25/2022		30% Design pts, Bridge Type \$			Onsite Drain,			Areas, 4. Pre-Proj. Hydraulic Impact / vaVDistrubance, 13. Env. Documen	1 1			ASWG #3 - Finalize 3 choices for 30% Plans						
20	5/2/2022		30 epts			Elect, Utilities,			Hydra 13. E									Venue Reservation	RTC remodel will be complete
21	5/9/2022		etice Cono			Etc.			ments Proj. / ech, 8. Remor			DRC Mtg - All Discipline Discussion							
22	5/16/2022		theti						s, 3. Seote Ition Sche										
23	5/23/2022		Aes		Drainage	Quantities,	Plan Sheet		Attacher Uses, 3. 7. Geote										
24	5/30/2022	Memorial	ć.			Cost Estimate	Drafting	Design Impacts to NEPA team	repar Land Plans, 10. V.									Public Mtg Notices	
25	6/6/2022			Submittal Draft					9 5 6 6	Coordinate with					ļ	ļ			
26	6/13/2022				PCSG Review			SHPO	p, 2 . 6. . Aethi	USACE discuss submittal regs.		DRC Mtg				ļ			
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31	7/18/2022		ency Re	Constructability, Risk, Value					Submit 408 Permit										Selection Results;
32	7/25/2022		Age	Eng. Workshop					- Jan. 100 1 01111									30-Day Public	
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34	8/8/2022			30% Comment Review Meeting										DRC Mtg							For Comments	
35	8/15/2022			Heview Meeting																		
36	8/22/2022															ASWG #4 - Fina Decisions to Design to 60%		Memo				
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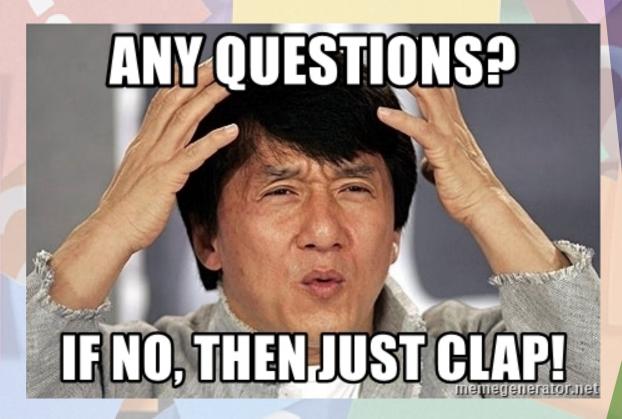
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81	7/3/2023	4th July	Review												MEETING				Public Mtg #4	"Final Design" Layout - Constructability /
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Questions / Discussion







Thank You for Your Role In This Great Project!













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