



Senior Agency Staff Group Meeting

Department of Community Services
Transportation Division

May 13, 2019

Agenda

1. Welcome, Introductions and Opening Remarks
2. Project Update
3. Diversity, Equity & Inclusion Focus Group
4. Constructability and Estimating
5. Construction Approach: Temporary Diversion Bridge
6. Upcoming Meetings & Closing Remarks



2. Project Update

Funding Opportunities

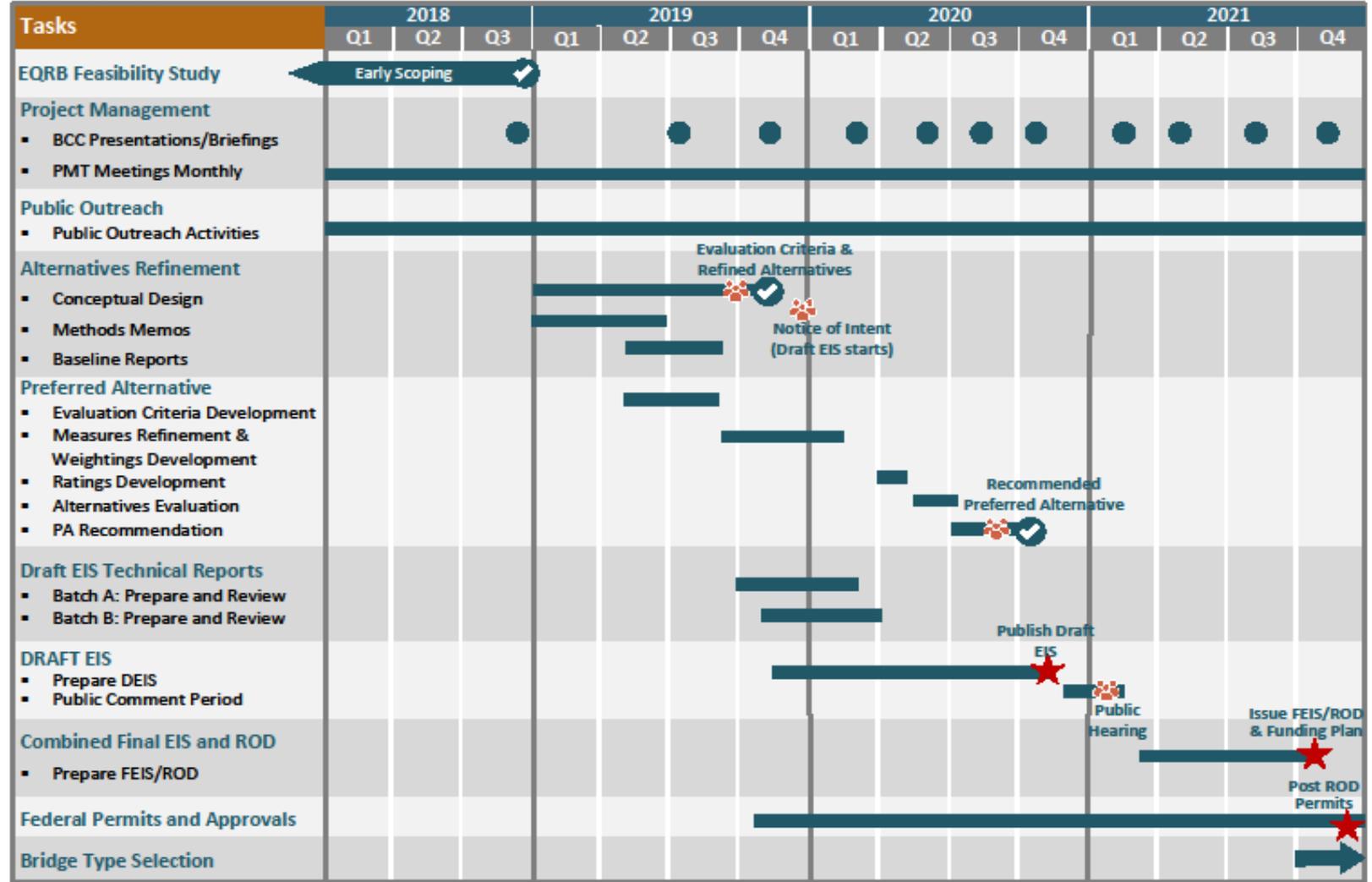


- Metro 2020 Transportation Ballot Initiative
- D.C. Visit
- Vehicle Registration Fee

2. Project Update



Earthquake Ready Burnside Bridge Key Milestones Schedule: Environmental Phase



Multnomah County Board of Commissioners Briefings & Presentations
 Public Outreach

 Policy Group Decision Point
 Key Project Milestone

2. Project Update

Deliverables Review



Earthquake Ready Burnside Bridge Better. Safer. Connected.



Methods Memos	Lead Author(s) Version 1	Internal QC Reviewer(s) Version 2	County Reviewer(s) Version 3	ODOT Reviewer(s) Version 3	FHWA Reviewer(s) Version 3	Start	Finish	Cooperating & Participating Agency Reviewers		Final Deliverable	Status Green = on schedule Red = behind		
								Version 4				Start	Finish
								Name of Reviewer - TBD	Name of Reviewer - TBD				
Land Use	Jen Hughes (PMX)	Shane Phelps (PMX)	Megan Neill (michael.carbone@multco.us, adam.l.barber@multco.us)	Tom McConnell	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Economics	Ewa Tomaszewska (HDR)	Chris Williges (HDR)	Megan Neill (eric.a.stellano@multco.us)	Tom McConnell	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Displacements and Relocations	Josh Ahmann (PMX)	Shane Phelps (PMX)	Megan Neill (michael.a.sublett@multco.us)	Kat Halpenny	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Neighborhoods and Social	Josh Channell (PMX)	Shane Phelps (PMX)	Megan Neill (katherine.mcquillan@multco.us)	Jeff Buckland	Emily Cline	4/16/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
EJ and Equity	Josh Carlton (MR)	Jeramie Shane (MR)	Megan Neill (benjamin.e.duncan@multco.us, joanna.valencia@multco.us)	Magnus Bernhardt Michael Holtzoff Bob Hadow Michael Hothoff Roy Waters Bob Hadow	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Visual Resources	Jen Hughes (PMX)	Suzanne Carey (DEA) Jeff Heilman (PMX)	Megan Neill (adam.l.barber@multco.us)	Jane Estes	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Parks and Recreation (6/1)	Dave Ellis (WCRA)	Paula Johnston (WCRA) Jeff Heilman (PMX)	Megan Neill (monte.reiser@multco.us, monika.johnson@multco.us)	Tom Bralish Charles Schwartz	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Cultural Resources	Jen Hughes (PMX) Tina Adams (CASSO)	Shane Phelps (PMX) Cory Burlingame (CASSO)	Megan Neill (adam.l.barber@multco.us)	Tom Bralish Charles Schwartz	Emily Cline	4/17/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Public Services and Utilities	Rick Wadsworth (PMX)	Josh Channell (PMX)	Megan Neill (adam.l.barber@multco.us)	Natalie Lijerwall	Emily Cline	4/17/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Hazardous Materials	Rick Wadsworth (PMX) Park Piao (SW)	Phil DeVita (HMMH)	Megan Neill (john.wasikynski@multco.us)	Daniel Burgin	Emily Cline	4/17/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Soils, Geology (integrated in DEIS with HazMat with separate Methods Memo)	Scott Noel (HMMH)	Chris Bajcik (HMMH) Joe Czech (HMMH)	Megan Neill (adam.l.barber@multco.us)	Ken Sargent	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Air Quality	Scott Noel (HMMH)	Carol Sneed (HDR)	Megan Neill (adam.l.barber@multco.us)	David McDonald	Emily Cline	4/17/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Noise and Vibration	Brian Bauman (HDR)	Bill Hall (PMX)	Megan Neill (rick.buen@multco.us)	Devin Simmons David McDonald	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Wetlands and Waters	Paul Fenst (PMX) Julie Brandt (PMX)	Christine Higgins (Casso)	Megan Neill (adam.l.barber@multco.us)	Devin Simmons	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Flooding and Hydraulics	Cory Gieseke (HDR)	Carol Sneed (HDR)	Megan Neill (adam.l.barber@multco.us, katherine.mcquillan@multco.us)	Bob Hadow Michael Hothoff Natalie Lijerwall	Emily Cline	4/11/2019	4/30/2019	Name of Reviewer - TBD	Name of Reviewer - TBD	5/20/2019	6/3/2019	7/14/2019	
Stormwater	Brian Bauman (HDR) Bill Hall (PMX)	Jeff Heilman (PMX)											
Vegetation, Wildlife and Aquatic Species	Jen Hughes (PMX)												
Section 4(f)													



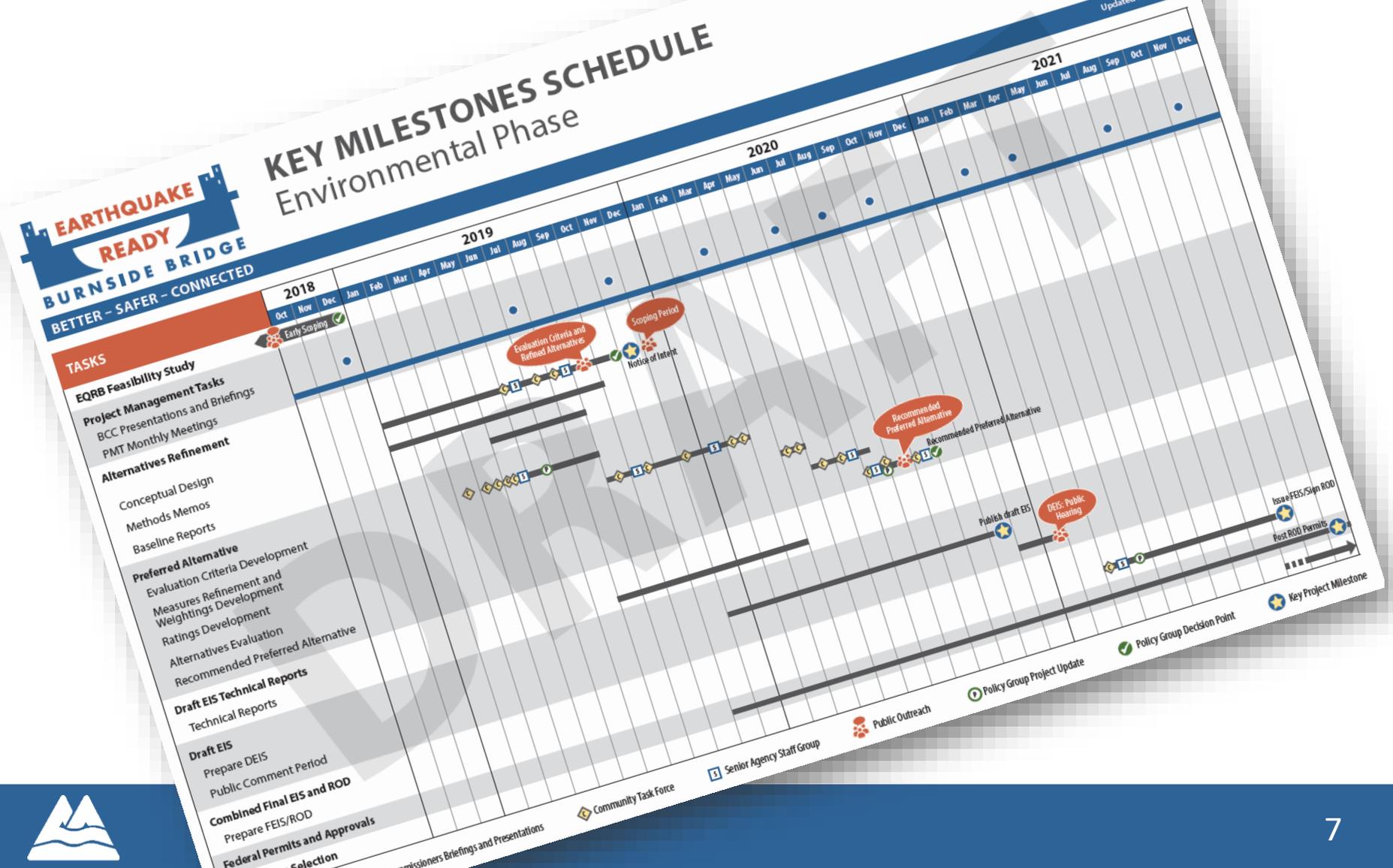
2. Project Update

Community Task Force



2. Project Update

Committees Work Plan



2. Project Update

Working/Focus Groups



Earthquake Ready Burnside Bridge

Better. Safer. Connected.



EORB Working Group / Focus Group Schedule

NAME	OBJECTIVE	WHO	WHAT / AGENDA TOPICS	WHEN	STATUS	NOTES
Roadway / Transit (Motorized)	To provide early technical input on motorized design standards and preferences.	<ul style="list-style-type: none"> City of Portland (PBOT): Teresa Boyle, Jamie Jeffrey, Ningsheng Zhou ODOT (David Warrick, Doug Stanley (alternate)) Portland Streetcar (Andrew Plambeck) TriMet (John Griffiths) Multnomah County (Megan Neill) Consultant (Heather Catron, Steve Drahota, Steve Katko, Paul Leitman); Portland Freight Omar Jaff, Mark Dorn, Christina Tomaselli) CTF: Laurelhurst NA (Fred Cooper); Gresham Area Chamber of Commerce (Neil Jensen) Advisory Committee (Bill BURGEL) 	<ol style="list-style-type: none"> Project / WG Introduction; Roadway / transit design standards and criteria; Preliminary Geometrics Specific motorized design details (if required) 	2/25/2019 Jul-19	Complete	Preliminary design criteria distributed and awaiting responses from participants.
Multi-Modal	To provide technical input on the bridge uses, typical sections, and connections to the existing multi-modal networks.	<ul style="list-style-type: none"> City of Portland (PBOT): Teresa Boyle, Jamie Jeffrey, Ningsheng Zhou, Roger Geller, Michelle Marx, Matt Kelly, Parks: Tate White) Portland Streetcar (Andrew Plambeck) Metro (Anthony Buczek, Alex Oreschak (alternate)) TriMet (John Griffiths) ODOT (Basil Christopher) Multnomah County (Megan Neill, Kate McQuillan) Consultant (Heather Catron, Steve Drahota, Steve Katko, Adrian Witte, Christina Tomaselli, Sumi Malik, Omar Jaff, Rebecca Bautista (Opt.)) Additional Community Invites: <ul style="list-style-type: none"> Street Trust (Jillian Detweiler) Lyft (Dorothy Mitchell) Oregon Walks (Paul Leitman - CTF) Disability Rights Oregon (Matt Hoffman - CTF) MultCo BPAC (Art Graves - CTF) AAA (Marie Dodds - CTF) AAA (Marie Dodds - CTF) Portland Freight Advisory Committee (Bill BURGEL - CTF) Bus Lane Project (TBD) Oregon Trucking Administration (TBD) Gresham Area Chamber of Commerce (Neil Jensen - CTF) 	<ol style="list-style-type: none"> WG Introduction; Multi-modal design criteria; Refined roadway and bike/ped geometrics Bridge width options and cross-section option; Park Accesses and Impacts Refined bridge width options and cross-section options Construction staging options and impacts Alternatives Design Concepts Review TBD (if required) 	5/7/2019 Jun-19 Jul-19 Aug-19 Sep-19	Complete	Added Street Trust and Lyft to the WHO. Malik forwarded the Outlook invitation. Inviting additional modal community organizations. Updated Vision Zero Rep to Matt Kelly in the WHO.
Constructability / Estimating	To provide technical input on construction approach and cost estimates.	<ul style="list-style-type: none"> City of Portland (PBOT): Teresa Boyle, Cameron Glasgow) ODOT (David Warrick, Maggie Bartley, Doug Stanley, Katie Bell, Shaneka Owens (FHWA), Zachary Horowitz (Opt.), Jennifer Mora (Opt.)) Multnomah County (Megan Neill, Ian Cannon, Emily Milefich) Consultant (Heather Catron, Steve Drahota, Steve Katko, Mark Libby, Jason Ruth, Brett Schneider, Kevin Parrish, Christina Tomaselli) Brett Schneider, Kevin Parrish, Christina Tomaselli) CTF: Gresham Coalition of Neighborhoods (Stella Funk-Butler); Portland Freight Advisory Committee (Bill BURGEL); Community Member at-Large (Ed Wortman) 	<ol style="list-style-type: none"> Project / WG Introduction; Construction Methods; Estimating Approach Construction Methods and Impacts Estimating Parameters Estimate Review 	4/26/2019 May-19 Jul-19 Aug-19	Complete	Scheduled
Transportation	To provide technical input on traffic analysis and planning.	<ul style="list-style-type: none"> City of Portland (PBOT): Teresa Boyle, Jamie Jeffrey, Ningsheng Zhou, Clay Veka, Matthew Kelly (Femis-Smith), Katherine Levine, Jennifer Mora (Opt.) Metro (Anthony Buczek) Portland Streetcar (Andrew Plambeck) Portland Streetcar (Andrew Horowitz (alternate)) ODOT (Katie Bell, Zachary Horowitz) FHWA (Shaneka Owens) Multnomah County (Megan Neill, Brendon Haggerty) Consultant (Heather Catron, Steve Drahota, Steve Katko, Sumi Malik, Christina 	<ol style="list-style-type: none"> Project / WG Introduction; Transportation Methodology Memo Feedback Traffic analysis approach (if required) Traffic analysis approach Construction Staging 	2/15/2019 5/2/2019 TBD June-19	Complete	Scheduled



3. Diversity, Equity and Inclusion

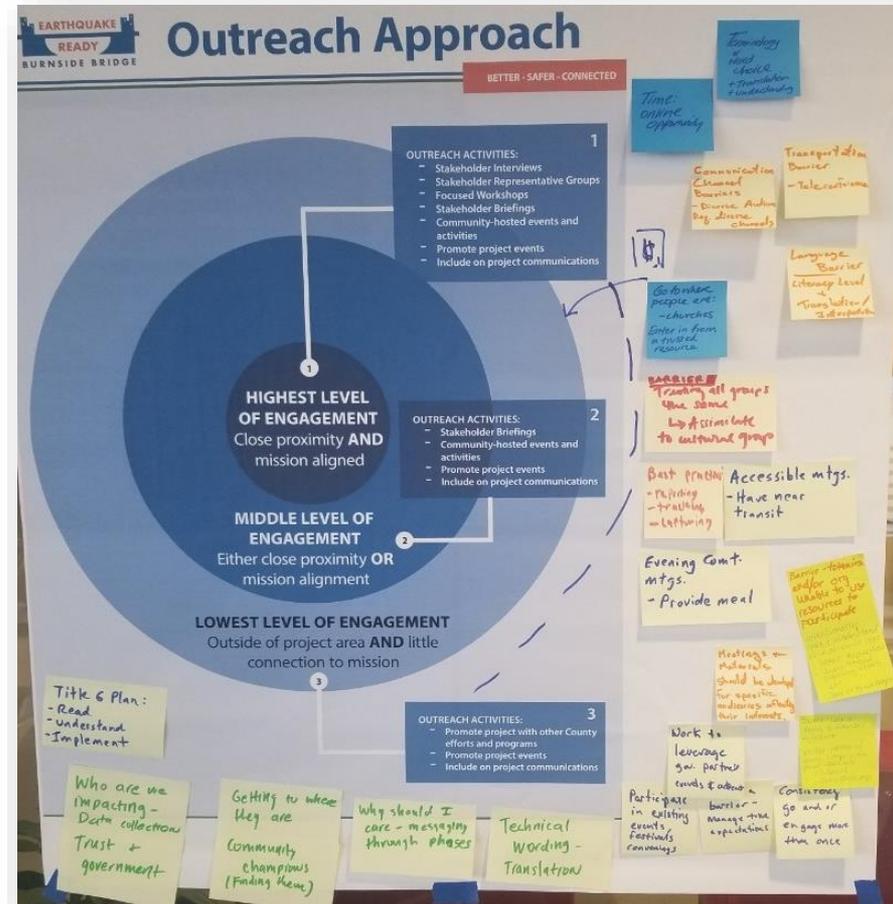
Early Engagement and Assessment

- Community Task Force (CTF) Recruitment
- Demographics Assessment
- Community Engagement Liaisons (CEL) Program
- Environmental Justice / Equity Interviews
- Diversity, Equity and Inclusion Focus Group



3. Diversity, Equity and Inclusion

Focus Group



3. Diversity, Equity and Inclusion

What We've Heard



Work with established community liaisons. Access key communities of interest through the Community Engagement Liaisons Program.



Engage early and ahead of key milestones to allow time for input and influence in decision making.



Make information accessible.



Be where communities are.



Incentive participation.



Use time wisely.



Tailor engagement activities.



Use an intentional engagement approach to reach key audiences.



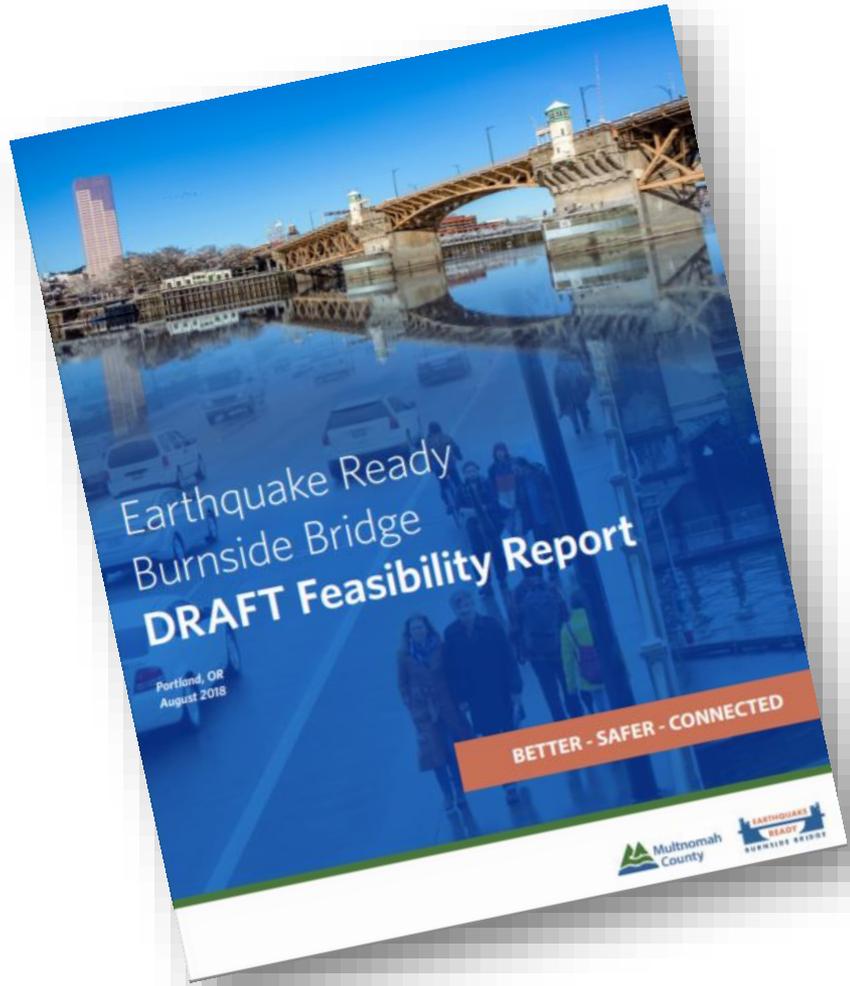
4. Constructability and Estimating



BURNSIDE BRIDGE FEASIBILITY-LEVEL COST ESTIMATE WORKSHEET (1)							FDR	
Movable Bridge Replacement - Existing Alignment (Traffic Detoured) 3a.1a								
BRIDGE NUMBER		00511.00511A.00511B		COUNTY			Multnomah	
BRIDGE NAME		Burnside Bridge		STATE HIGHWAY NUMBER		ROUTE NUMBER	N/A	
Mile Post		SCOPE		REFERENCE NAME/PHONE		Date Entered:	Date Checked:	
		Movable Bridge Replacement - Existing Alignment (Traffic Detoured) 3a.1a		Steve Drahotka / (503) 423-3712		3/19/2018		
No.	ITEM	UNIT	QUANTITY	UNIT COST	SUB TOTAL	Section Totals	Notes	
Preparation							\$ 39,706,800	
	Mobilization	10.0%	LS 1	\$ 13,651,100	\$ 13,651,100			
	Temp Erosion & Sediment Control	1.0%	LS 1	\$ 1,365,100	\$ 1,365,100			
	Temp. Protection and Direction of Traffic	4.0%	LS 1	\$ 5,460,400	\$ 5,460,400			
	Removal of Existing Structure and Obstruction		LS 1	\$ 16,500,000	\$ 16,500,000			
	Site Preparation	2.0%	LS 1	\$ 2,730,200	\$ 2,730,200			
Civil/Roadwork							\$ 10,723,221	
	Roadway Surface		SY 3,000	\$ 100	\$ 300,000			
	Traffic Signals	0.50%	LS 1	\$ 628,938	\$ 628,938			
	Illumination	1.00%	LS 1	\$ 1,257,876	\$ 1,257,876			
	Earthwork	1.20%	LS 1	\$ 1,509,451	\$ 1,509,451			
	Storm Water & Drainage	2.00%	LS 1	\$ 2,515,752	\$ 2,515,752			
	Erosion Control & Planting	1.20%	LS 1	\$ 1,509,451	\$ 1,509,451			
	Retaining Walls		SF 5,400	\$ 90	\$ 486,000			
	Utilities	2.00%	LS 1	\$ 2,515,752	\$ 2,515,752			
Bridge Structure							\$ 125,787,605	
	West Approach		LS 1	\$ 18,679,076	\$ 18,679,076			
	Main River Span		LS 1	\$ 71,783,246	\$ 71,783,246			
	East Approach		LS 1	\$ 25,325,283	\$ 25,325,283			
	Vessel Collision Protection		LS 1	\$ 10,000,000	\$ 10,000,000			
Temporary Construction							\$ -	
	Temporary Diversion Bridge		LS 0	\$ 50,227,380	\$ -			
	Staged Construction Premium		LS 0	\$ 3,000,000	\$ -			
Geotechnical Hazard Mitigation							\$ 48,330,578	
	East Approach		LS 1	\$ 35,200,000	\$ 35,200,000			
	West Approach		LS 1	\$ 13,130,578	\$ 13,130,578			
Other Related Items							\$ 36,868,141	
	Aesthetics Premium	15%	LS 1	\$ 18,868,141	\$ 18,868,141			
	Willamette River Mitigation		LS 1	\$ 3,000,000	\$ 3,000,000			
	Contractor Access Premium		LS 1	\$ 15,000,000	\$ 15,000,000			
Construction Total with Contingency							\$ 328,780,845	
	Subtotal (wo Other Related Items)			\$ 224,548,204	\$ 224,548,204			
	Contingencies	30%		\$ 67,364,500	\$ 67,364,500			
	Other Related Items			\$ 36,868,141	\$ 36,868,141			
Right of Way							\$ 45,000,000	
Engineering & Project Delivery							\$ 132,073,296	
	NEPA Phase			\$ 17,000,000.00	\$ 17,000,000.00			
	PE (Incl. Design, PI, ROW Acquisition)	(PE)	15%	\$ 49,317,126.69	\$ 49,317,126.69			
	County Admin. (Oversight, Permits, etc)			\$ -	\$ -			
	Construction Engineering	(CEI)	20%	\$ 65,756,168.91	\$ 65,756,168.91			
Total Project Cost before Inflation (2017 \$)							\$ 505,854,140	
Const + Design Cumulative Inflation (annual rate)		3.0%	years 9	30.5%	\$ 140,456,000		(2)	
ROW Cumulative Inflation (annual rate)		5.0%	years 6	19.4%	\$ 8,732,400		(2)	
Total Project Programmatic Cost (2027 \$)							\$ 655,042,540	

Page 1

- Notes:
- (1) This cost sheet only includes roadway improvement costs associated with the scope of work.
 - (2) Assumes construction mid-point in 2027
 - (3) Assumes ROW is acquired before construction phase



5. Construction Approach

Temporary Diversion Bridge



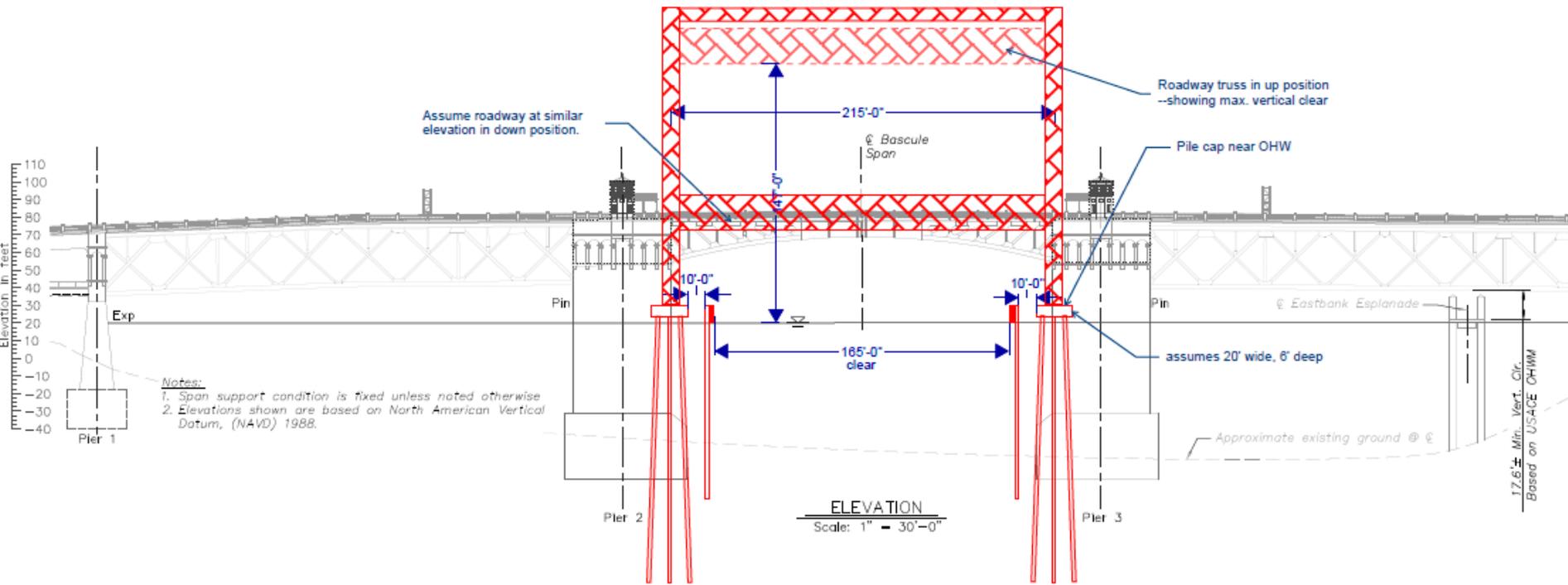
Fore Rvr Bridge Data:

- Each bridge = 30 feet wide
- Main spans = 210 feet
- 215 ft clearance from water
- Lift duration = 5 minutes
- Design life = 15 years



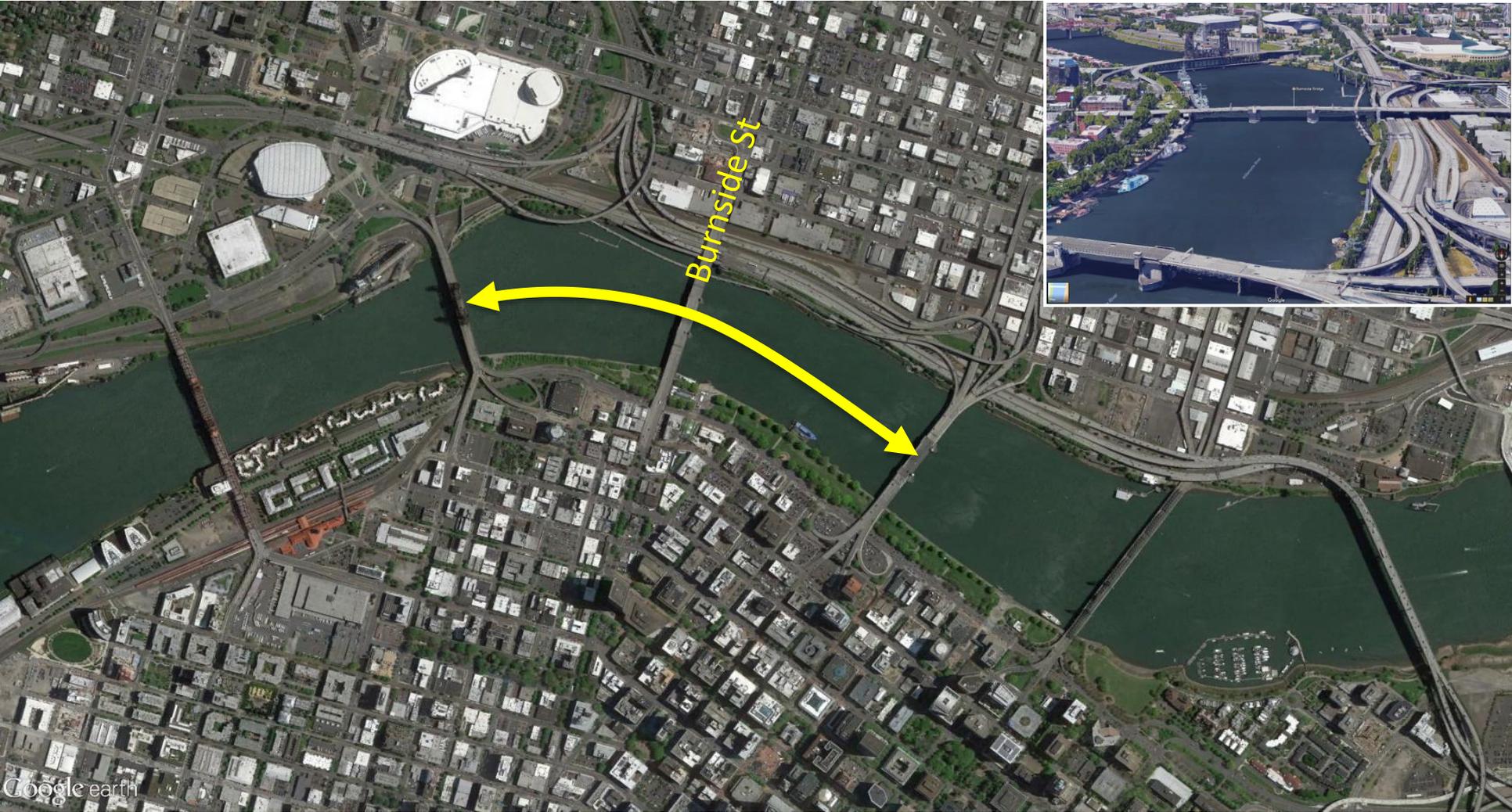
5. Construction Approach

Temporary Diversion Bridge



5. Construction Approach

Navigational Clearances

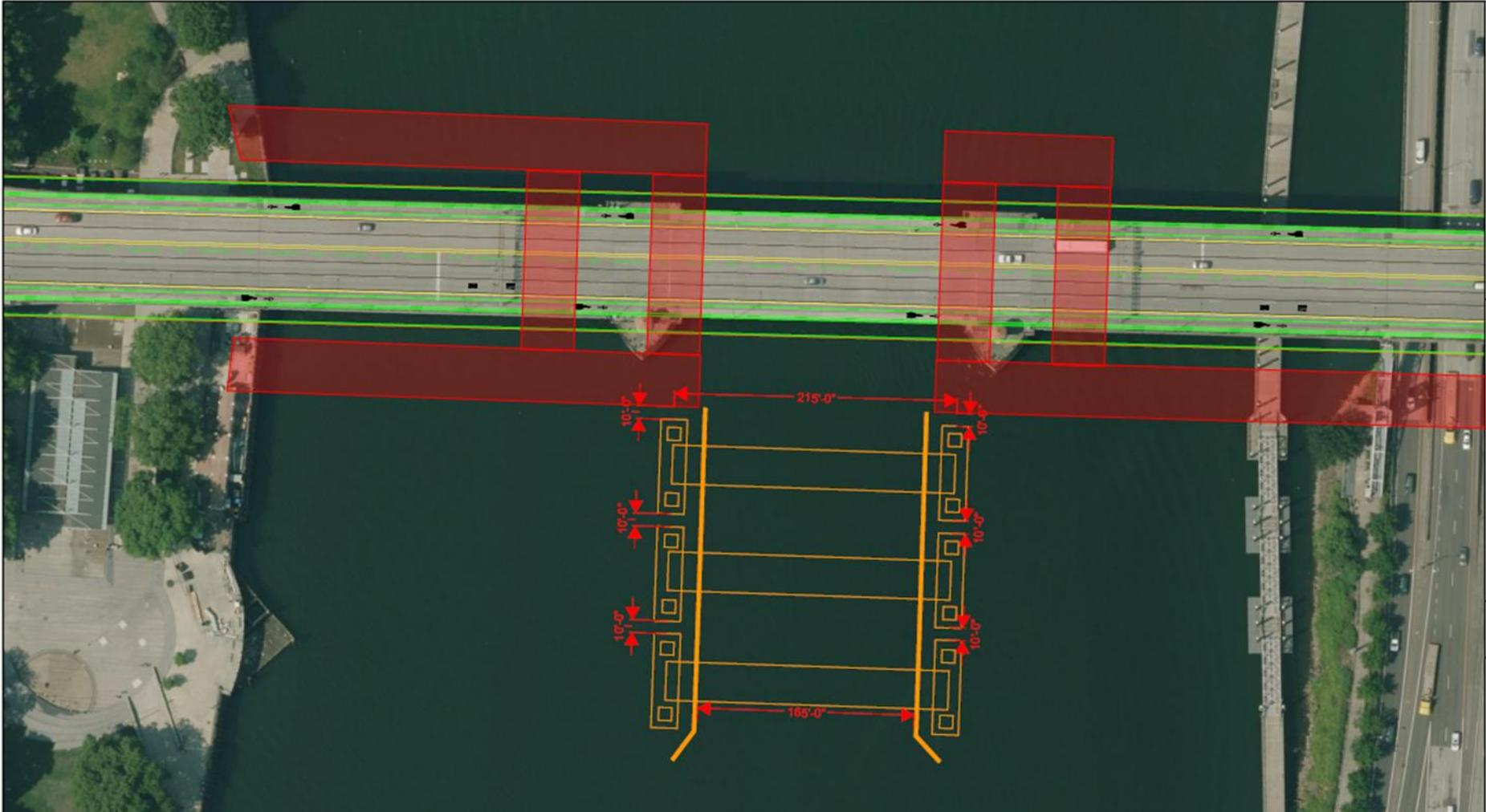


© Google earth



5. Construction Approach

Navigational Clearances



6. Upcoming Meetings

Community Task Force:

- May 20
- June 3
- July 15

Environmental Streamlining Committee: June 18

Policy Group: June 21

City Technical Advisory Committee: June – TBD

Board of County Commissioners: July 11

Senior Agency Staff Group: August - TBD



6. Closing Remarks

Thank you!

