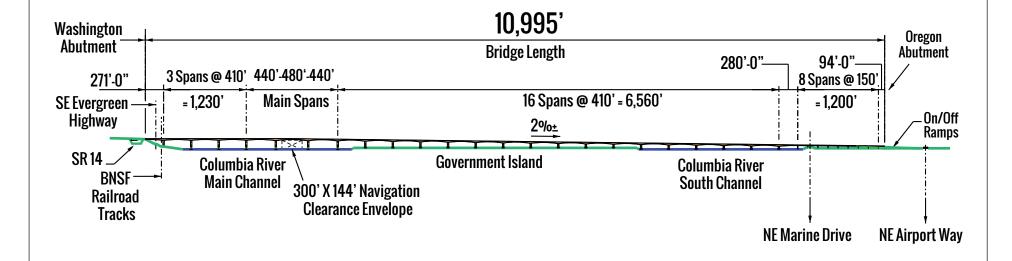




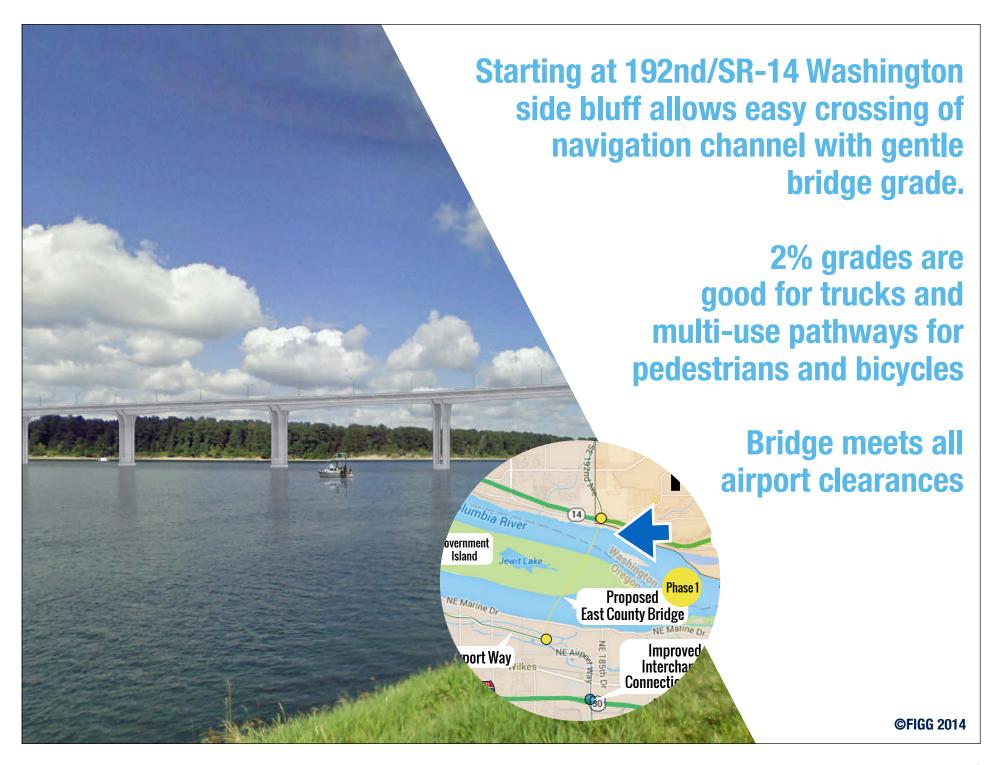
Overall Bridge Elevation



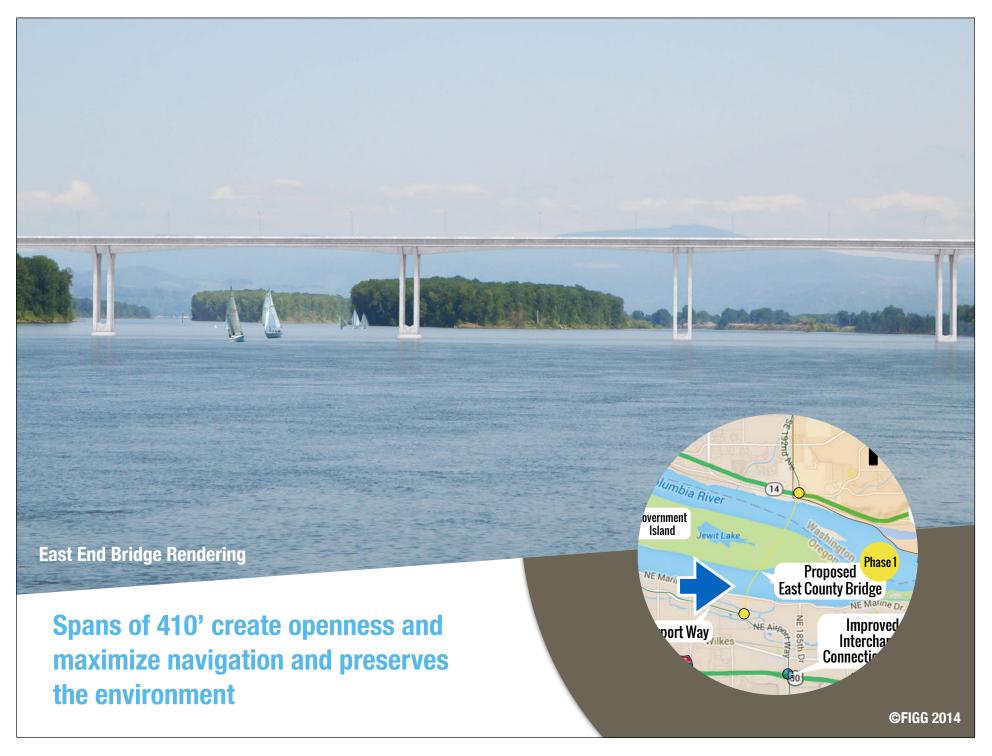
©FIGG 2014

Overall Bridge Layout

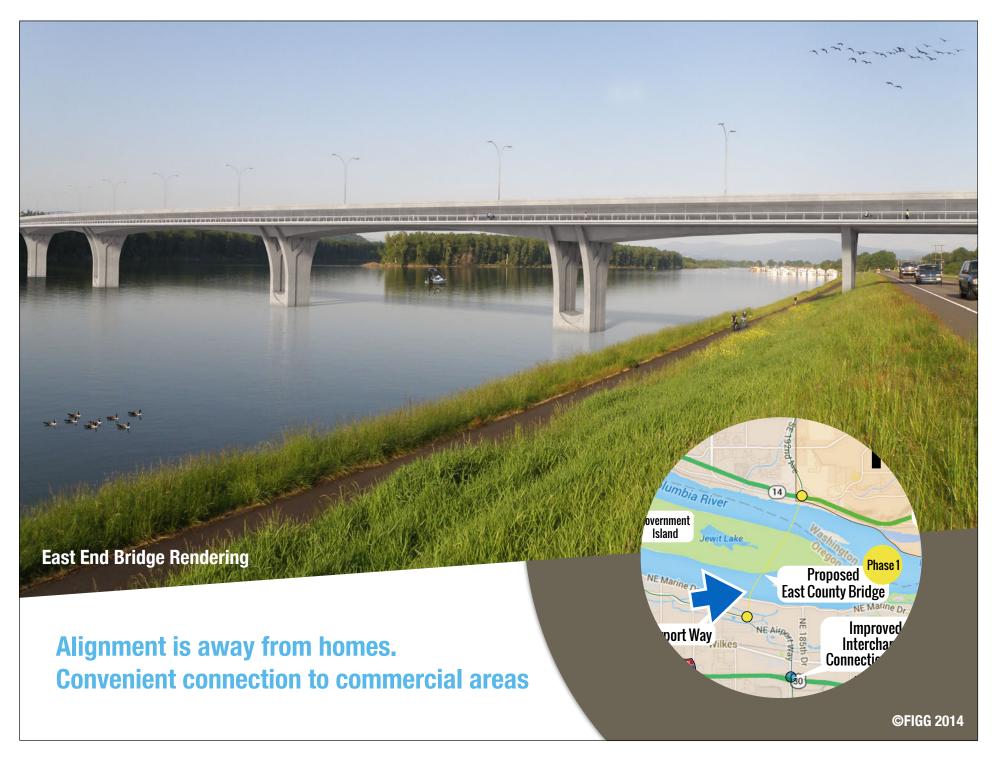


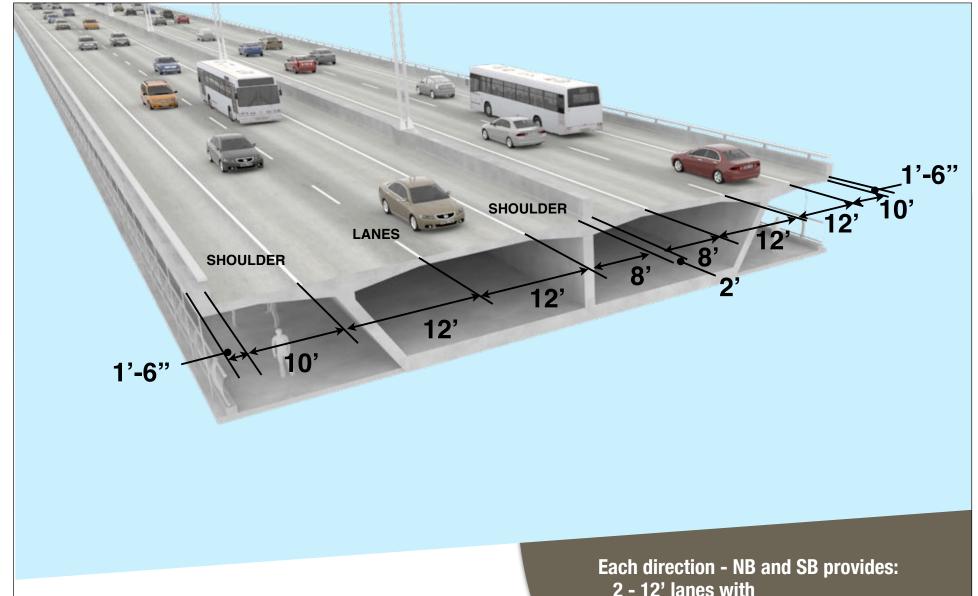










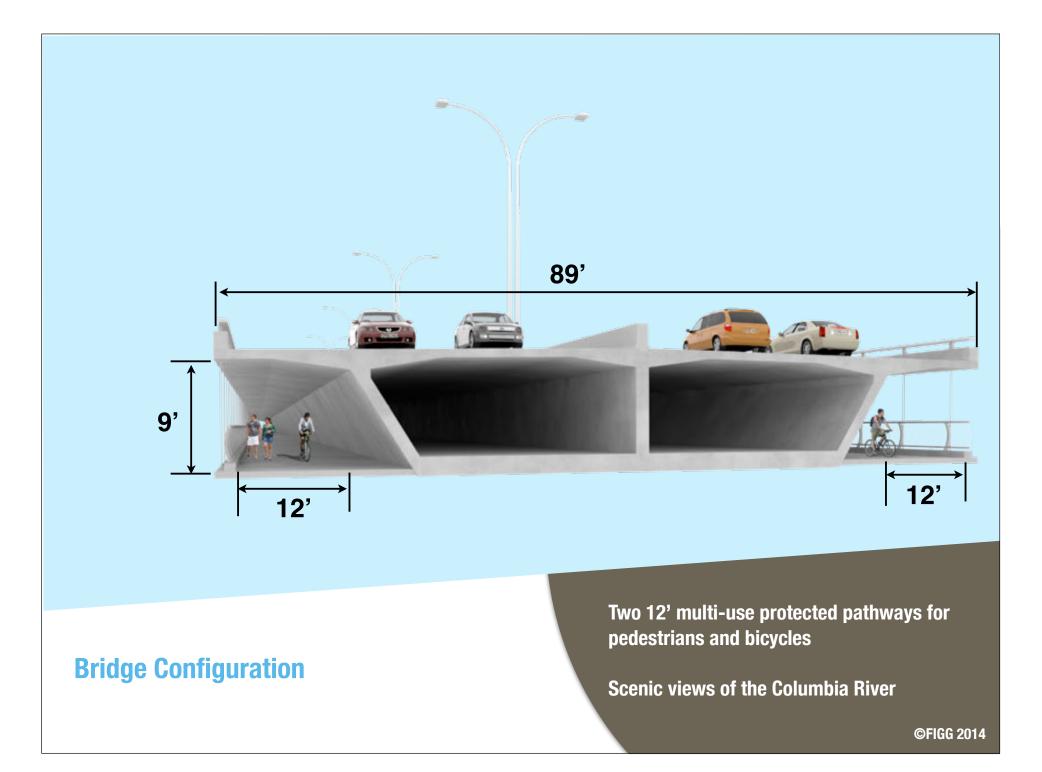


Bridge Configuration

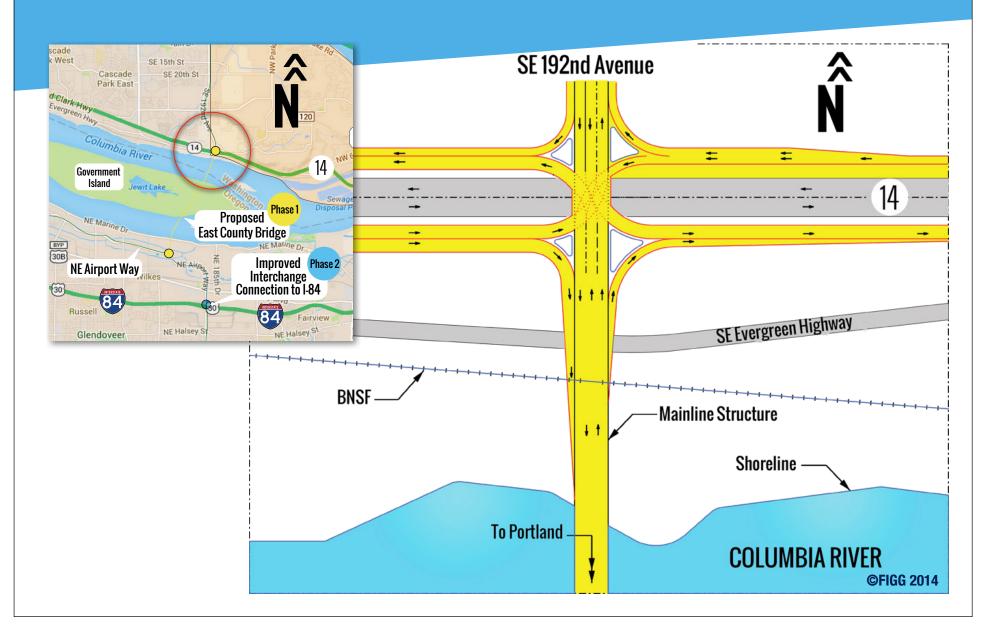
2 - 12' lanes with
10' outside & 8' inside shoulders

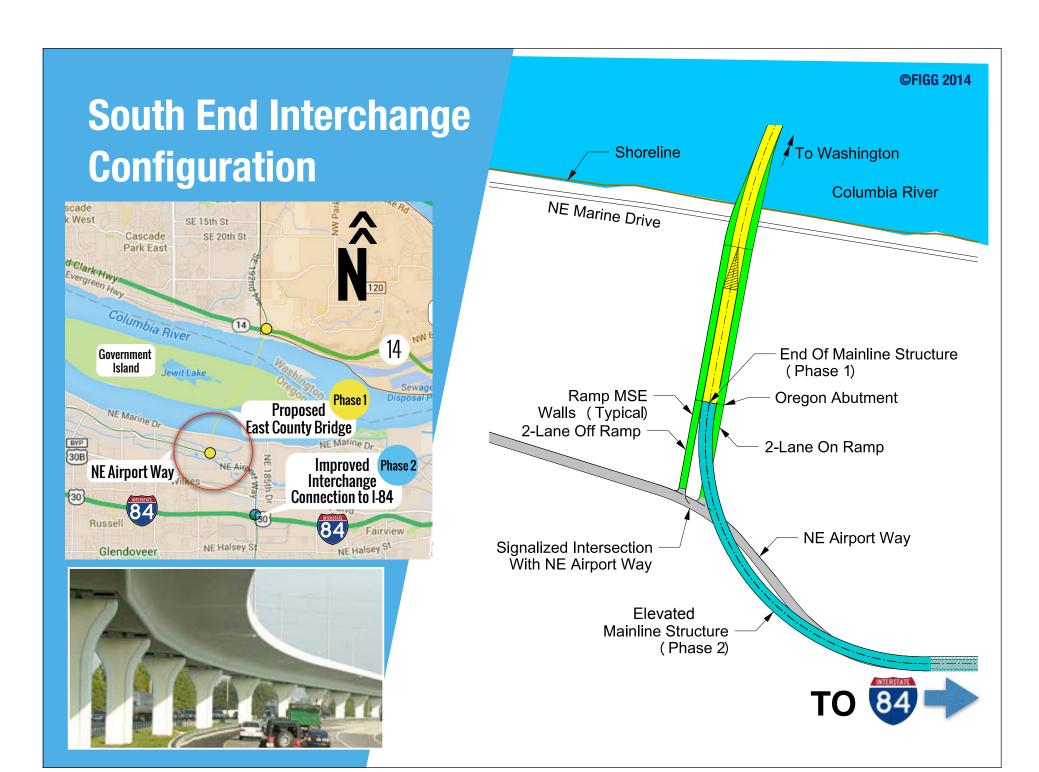
Provides for cars, trucks, buses, pedestrians and bicycles

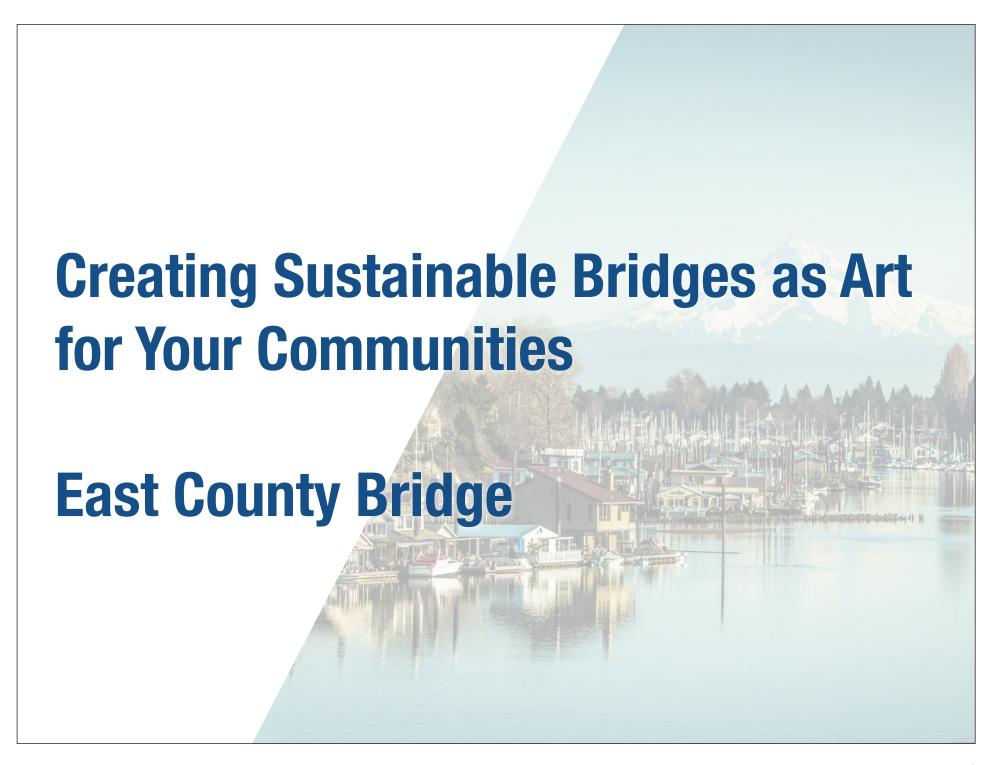
©FIGG 2014

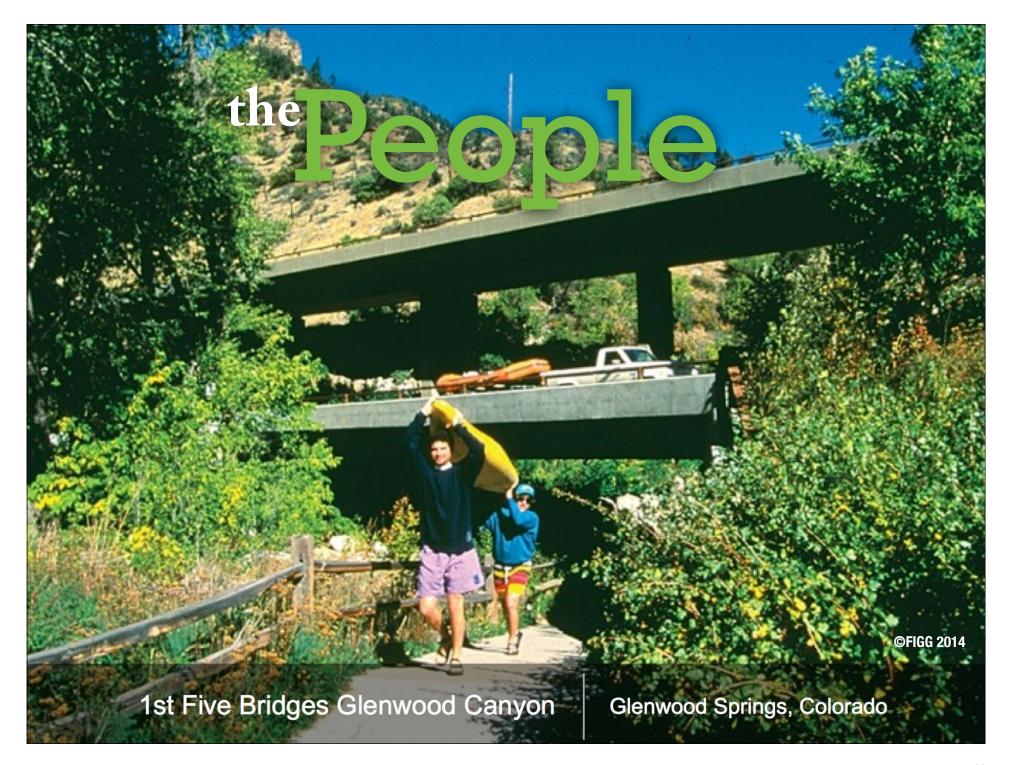


Single Point Urban Interchange (SPUI)

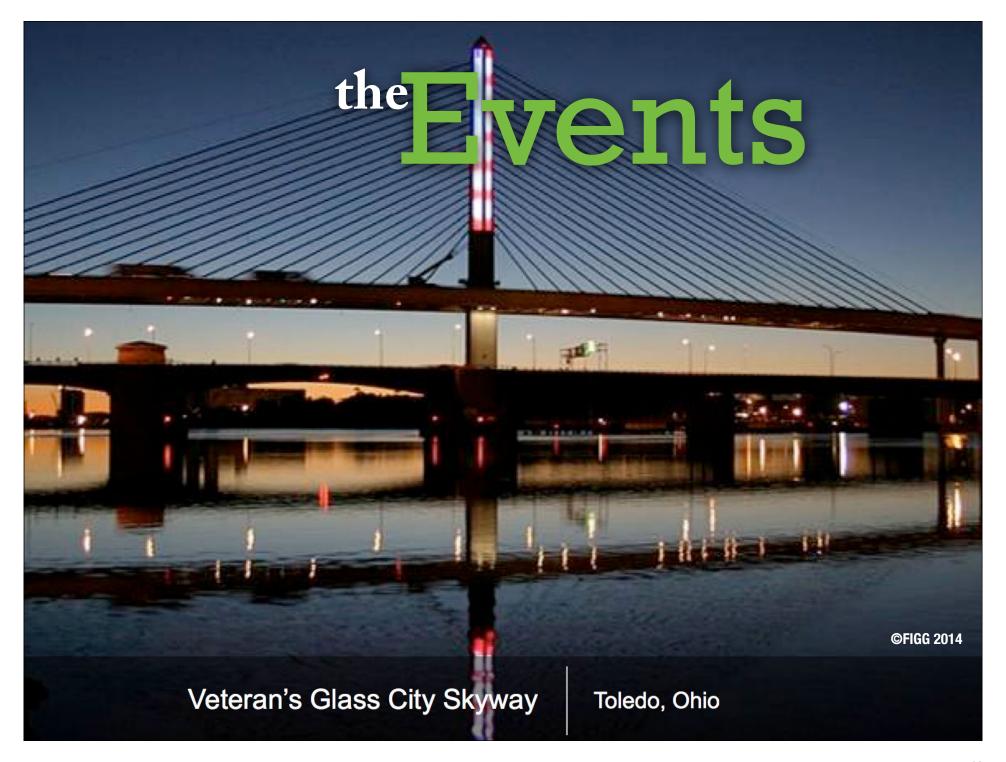


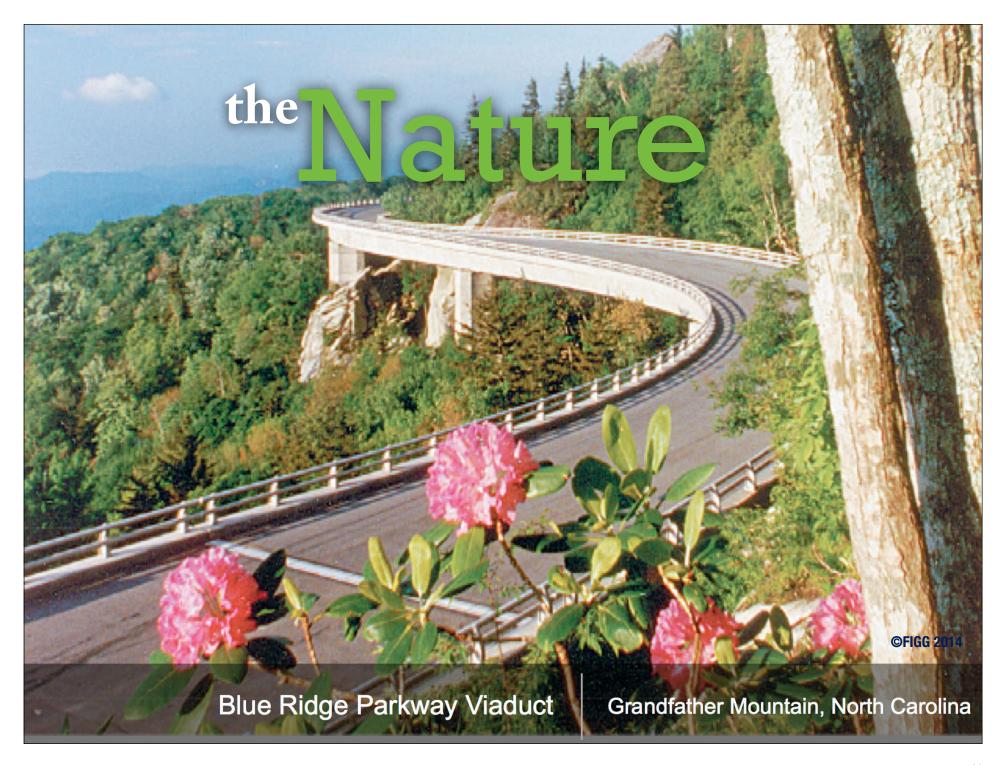


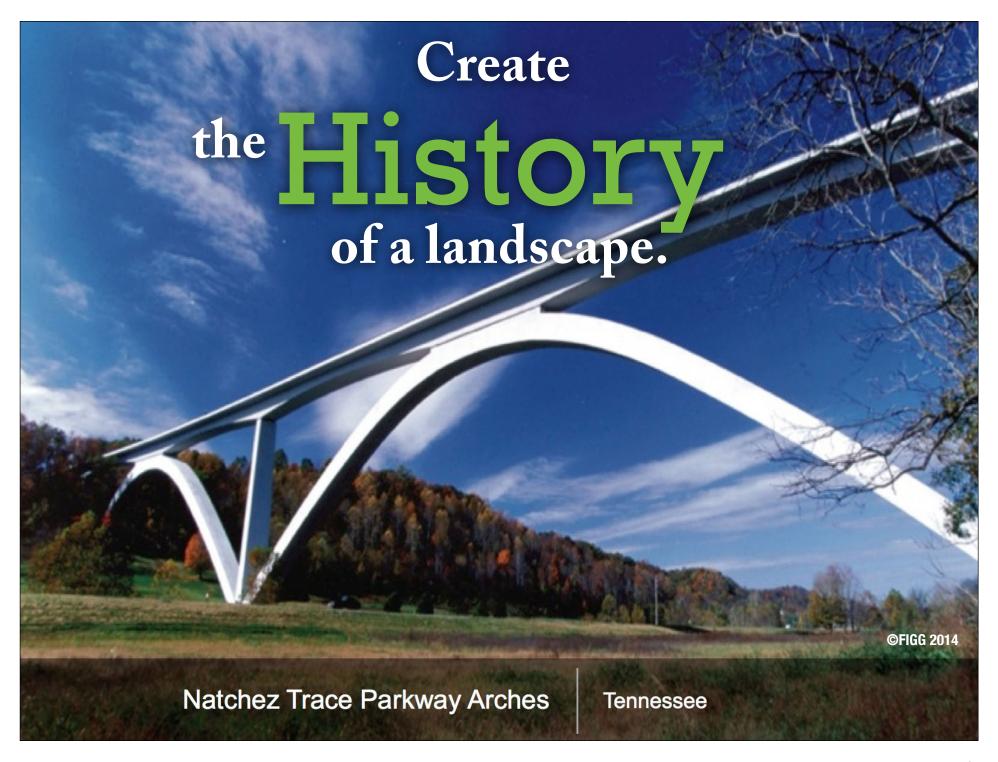


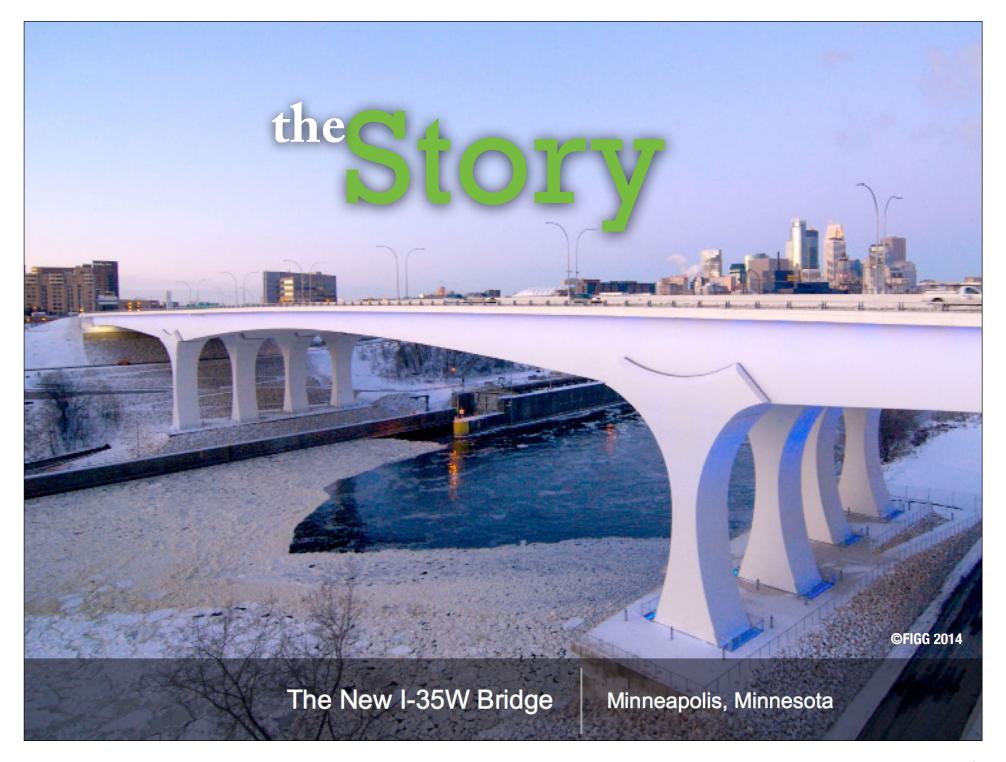


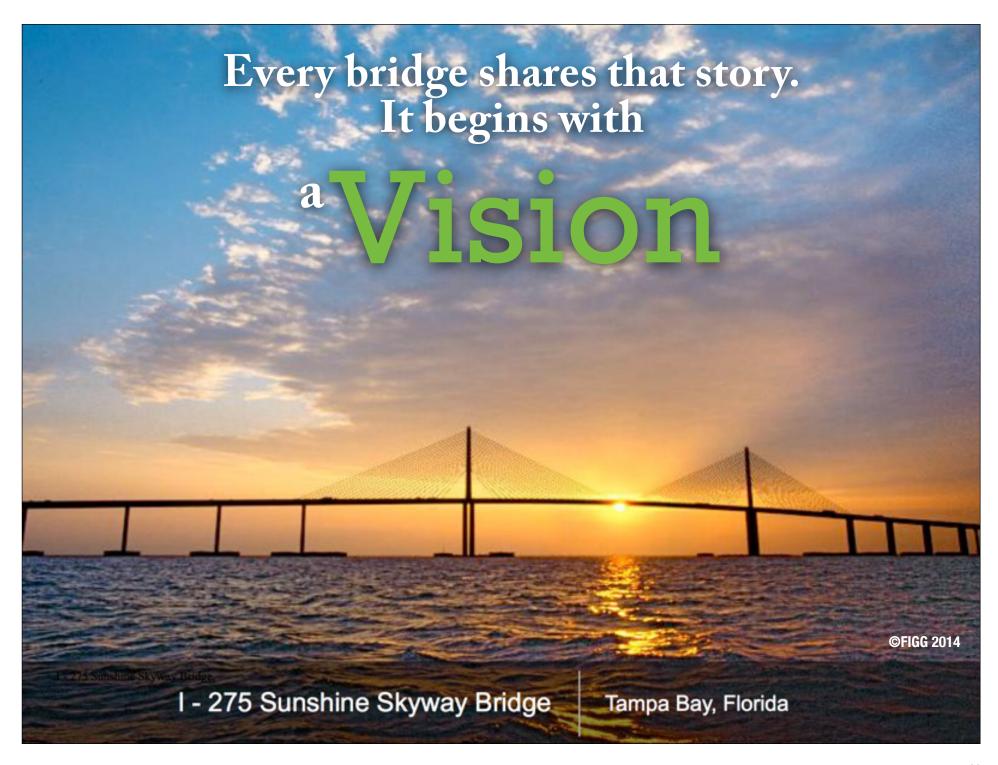






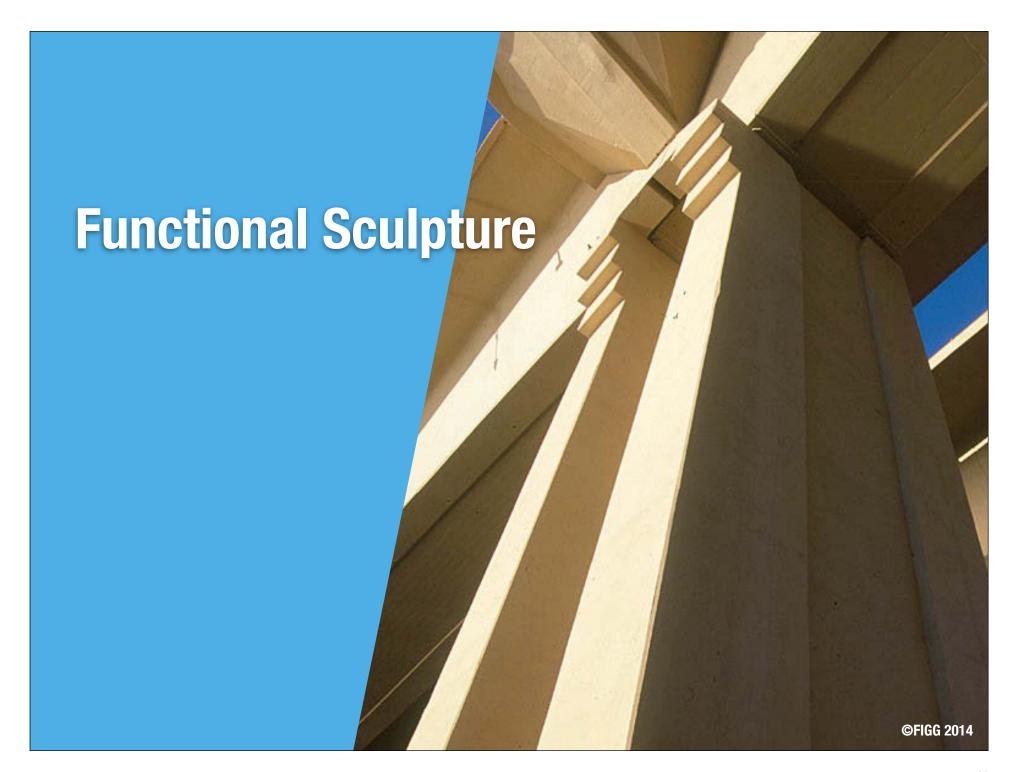




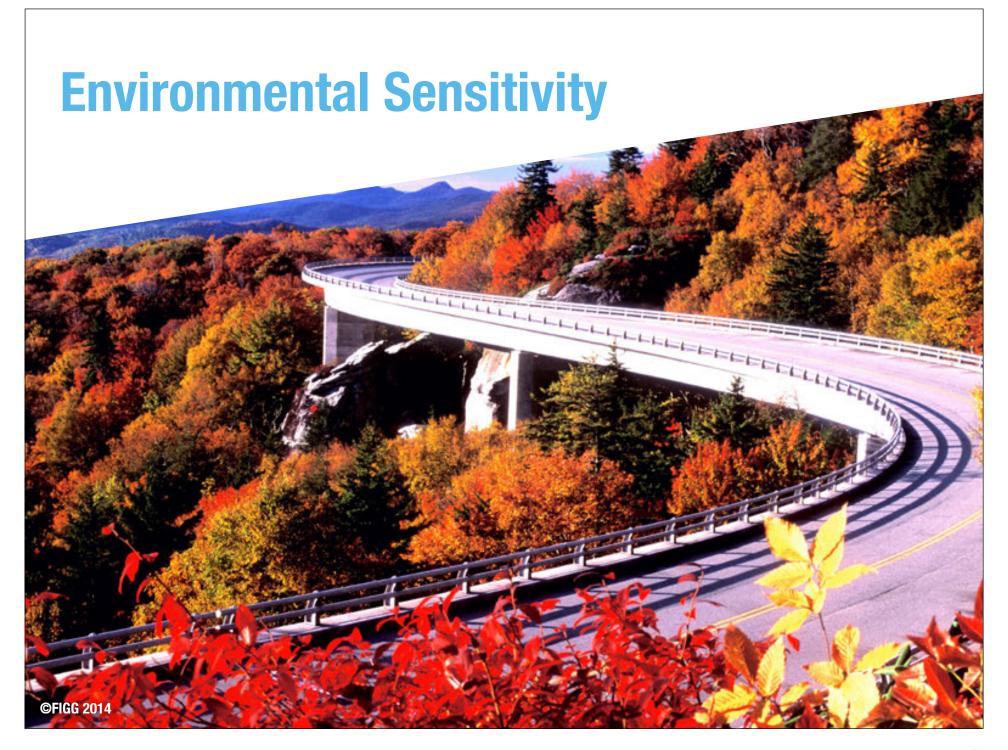


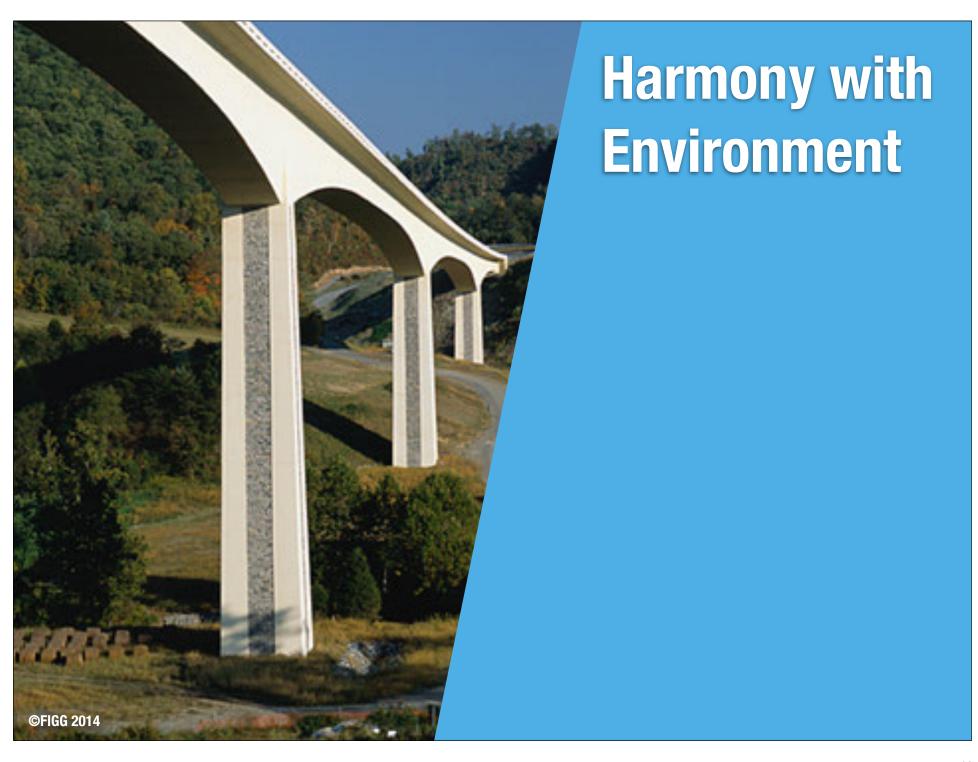








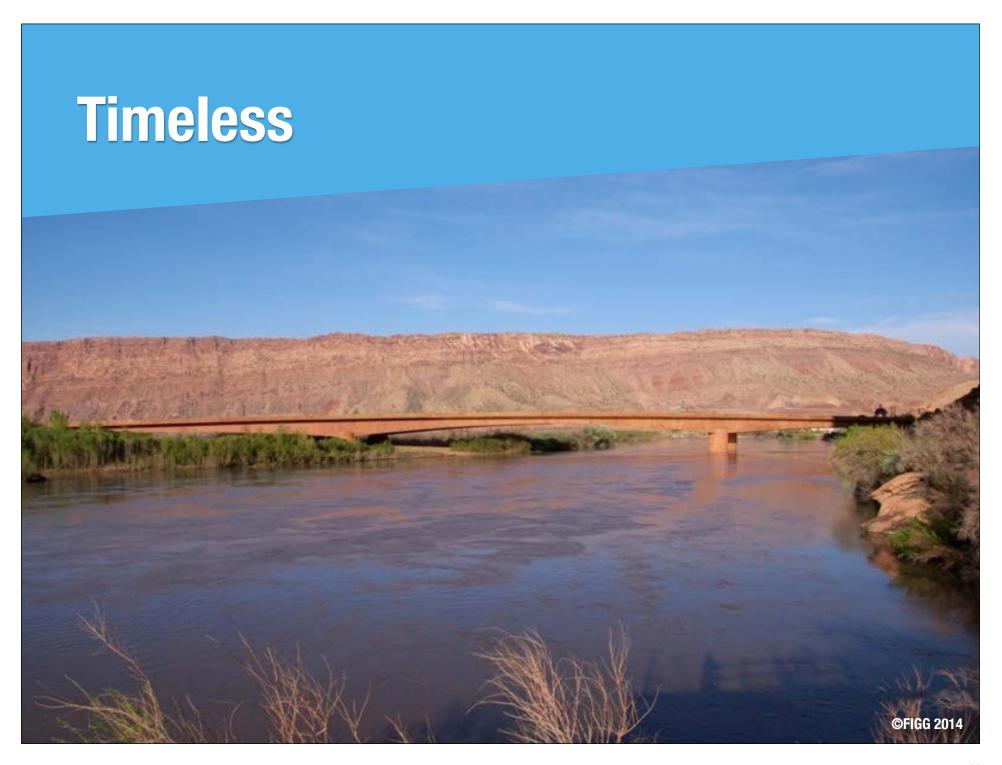












Sustainability Is The Capacity To Endure

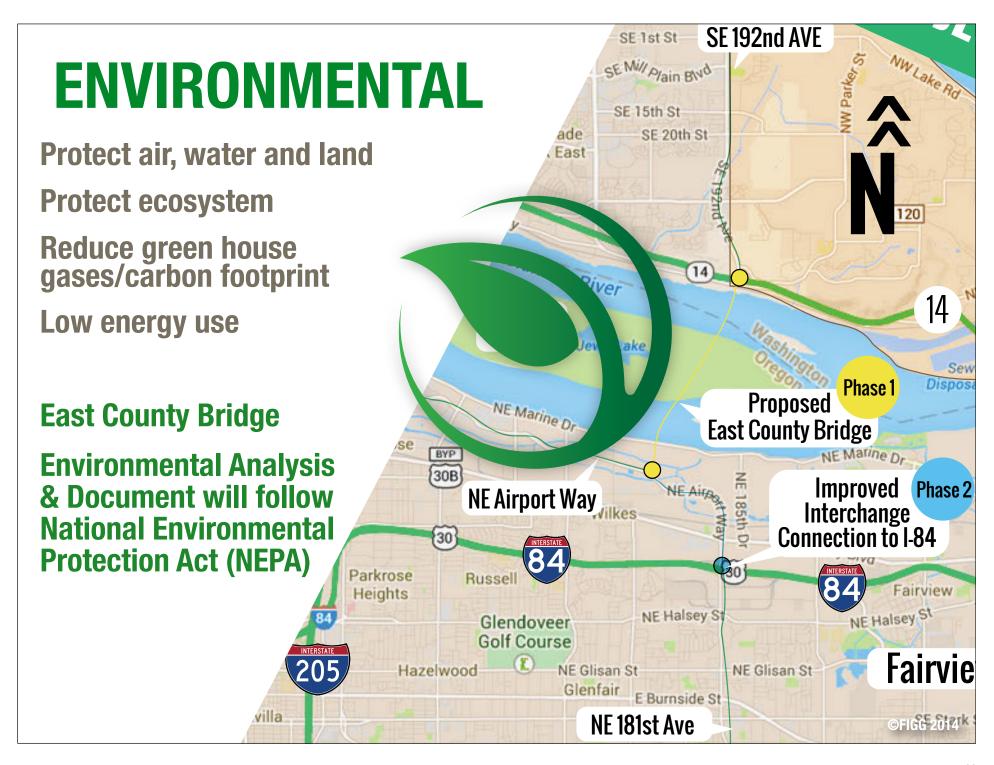
Context Sensitive Solutions (CSS)



©FIGG 2014

Concrete Segmental Bridges are a Sustainable Solution Precast factory-like quality and quick to assemble







Environmentally Friendly Concrete

Created better concrete durability through lower permeability

Fly ash (waste product from coal) replaces some cement for lower permeability

Saved 3.5 tons of CO2 per truckload



Local Materials + Local Labor = Energy Efficiency









Applying FIGG Archetypal Design Principles to Achieve Holistic Design

Establish a Theme

Blend Shapes

Create Shadows

Select Appropriate Textures

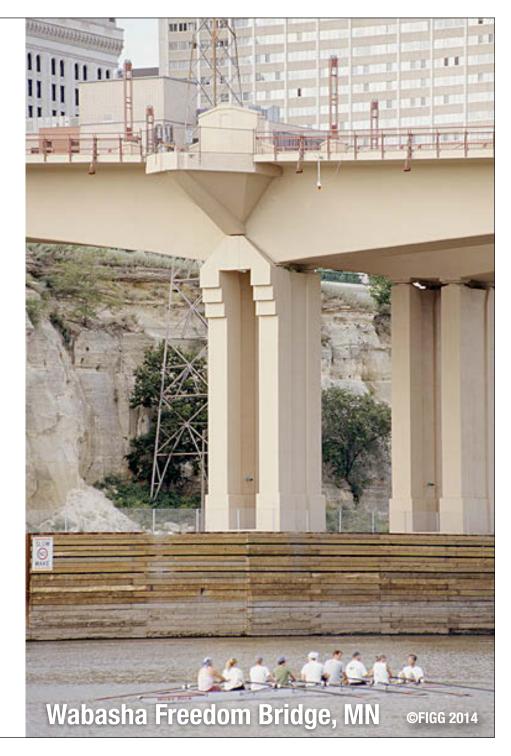
Choose Pleasing Colors

Open New Vistas

Use Native Materials

Create Feature Lighting

Incorporate Landscaping





FIGG Bridge Design Charettes™
Community Involvement to Select
World Class Bridge Aesthetics

Design Charettes will be held with community to select bridge features

FIGG Bridge Design Charettes will be held with community

to select bridge aesthetic

features

Items such as:

Bridge Theme

Pier shapes

Bridge Treatments

Railings

Lighting

Landscaping



Creating Functional Bridge Sculpture Means Examining Pier Shapes that are Context Sensitive to a Communities Sense of Place



US280 Birmingham, AL



Wekiva River for NPS



Dresbach Bridge, MN



4th Street Pueblo, CO



SR 204 Savannah, GA



I-91 Brattleboro, VT



Example Theme of Nature inspired by Washington and Oregon Trees

Quaking Aspen



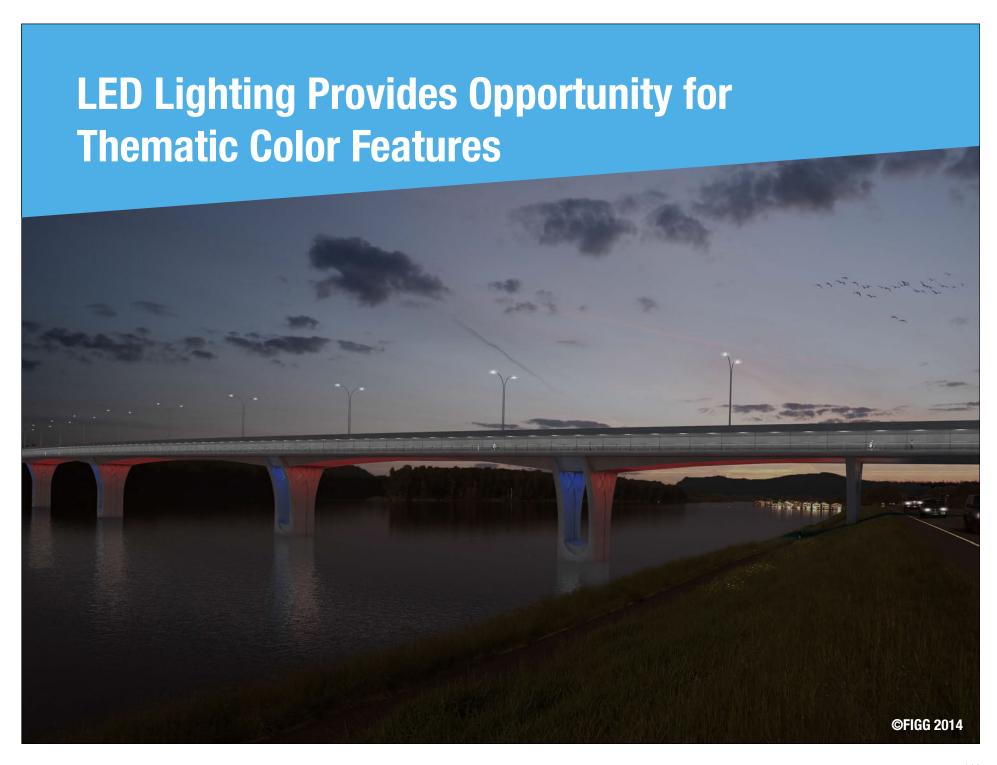
Ponderosa Pine



Sitka Spruce

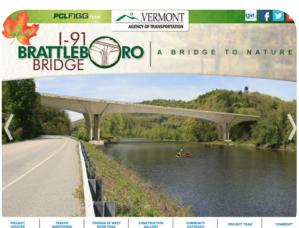






Involving the Community Builds Excitement, Trust and Ownership

Website and Live Construction Cam



Newsletters







Sidewalk

Sign the Bridge



Bridge Box for Teachers



Educational Outreach

Teachers Bridge Box Basics Kit for the classroom customized for East County Bridge FIGG developed with National Building Museum in Washington D.C.



Example: I-35W Bridge, Minnesota

Approach to Community Involvement

Design Charettes
To select bridge aesthetics
with community

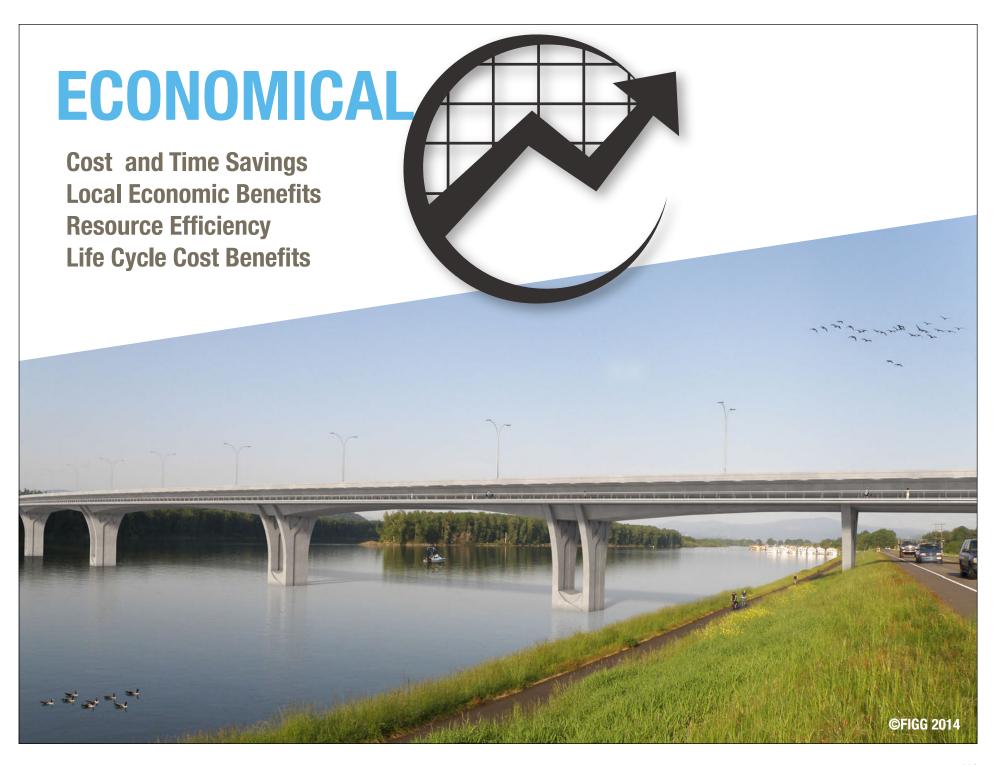
Open Houses
To share designs with community

Educational Outreach
To involve local schools
and universities in building
the bridge









Long variable depth spans and compact sections with twin wall piers create efficiency and economy 410' 280 410'

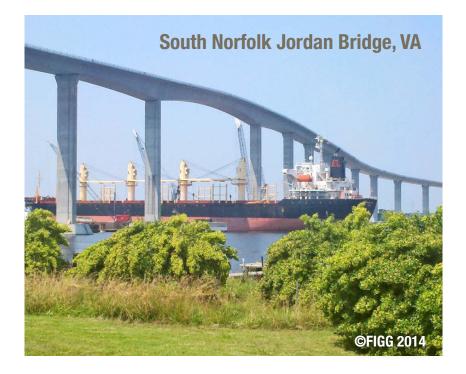
Low Maintenance / Long Term Durability Concrete Bridge Features

Owners Manual for Care of East County Bridge Ease of Inspection & Maintenance

Inspection Workshop and Joint First Inspection with the Bridge Owner

We Know "Low Maintenance" FIGG Bridge Managers is Maintenance Operator





East County Bridge Project Schedule Open in 5 years from Notice to Proceed

	2 Years		3 Years		
	Environmental, permitting, right-of-way, pre-construction engineering		Design and Construction		
	YEAR1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
ENVIRONMENTAL ANALYSIS AND DOCUMENT *	24 mo.				
FINAL PERMITTING		12 mo.			
BRIDGE/ROADWAY ENGINEERING (FOR ROW and PERMITTING)	9 m	0.			
RIGHT OF WAY ACQUISITION		12 mo.			
PRE-CONSTRUCTION BRIDGE AND ROADWAY ENGINEERING		12 mo.			
DESIGN/BUILD				36 mo.	

^{*} Involves full cooperation with all local, state and federal agencies

East County Bridge Project Costs Turnkey Design/Build Proposal

COSTS

Design/Build Project

\$830 Million

Further defined in first year of project development: Right-of-way, mitigation, geotechnical conditions

\$30 Million

Less than

\$860 Million

Multi-year financing can be provided by this team so that public funds can achieve this bridge over time



Design and build 4-Lane East County Bridge with shoulders and 2 - 12' multi-use pathways: cars, trucks, buses, pedestrians, & bicyclists

Connects 192nd/SR-14 in Washington and NE Airport Way in Oregon with plans for future direct connection and interchange enhancements with I-84

Meet navigational channel clearances like I-205 - 300' horizontal, 144' vertical over shipping channel - alignment perpendicular to channel for added safety

Bridge over Government Island to preserve environment





Built using local labor, local materials and providing local economic stimulus

Alignment is away from homes. Convenient connection to commercial areas

Sustainable, eco-friendly, high strength, redundant and safe bridge

Low maintenance concrete bridge with LED roadway and aesthetic lighting

Community involvement in selecting bridge aesthetic features for a functional bridge sculpture that captures a sense of place





Environmental analysis and document following NEPA - 2 Years

Design and build bridge in 3 years following permits and right-of-way

Complete new bridge in 5 years from Notice to Proceed

Total project costs under \$860 Million





Achieve Washington and Oregon DOT standards

Meet Local, State and Federal Requirements

Owners manual for care of your new bridge

Over 100 year life





