

Sound Transit and Design Build

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Utilizing Design Build at Sound Transit

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Design Build Project Experience

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Sound Transit Small & Disadvantaged Business Utilization

Leslie Jones

Questions

Presentation Overview





Current Service



Light rail

- University of Washington,
 Capitol Hill, Downtown Seattle,
 Sea-Tac Airport, Angle Lake
- Tacoma Dome to Theater District



Sounder rail

- Everett to Seattle
- Lakewood/Tacoma to Seattle



ST Express bus

• 28 regional bus routes



Alternative Delivery Opportunities



Light rail

- West Seattle to Ballard Ext.
- Everett Ext.
- Federal Way to Tacoma Ext.
- Issaquah to Kirkland Ext.



Bus

Bus Rapid Transit



Sounder

Sounder Capital Improvements



Operations & Maintenance Facility: East



Federal Way Link Extension



Downtown Redmond Link Extension



Puyallup /
Sumner
Station Access
Improvements



Sounder Maintenance Base

Over \$2 Billion in Approved Design-Build Projects

Design-Build Projects Since Certification



Contract Packaging Workshop

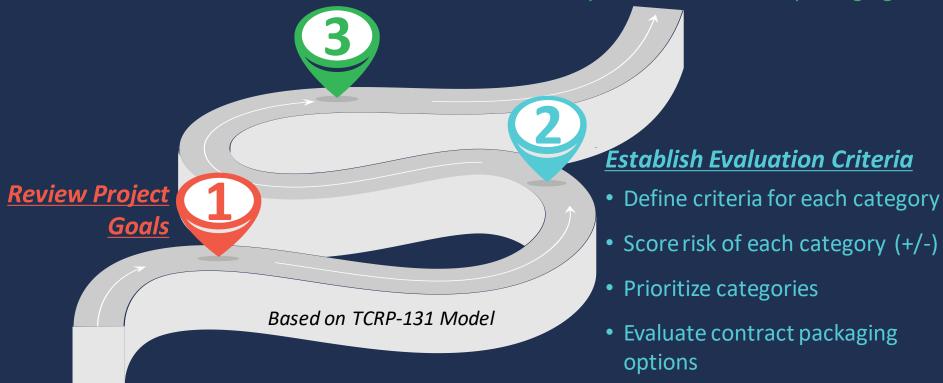
Recommend
Delivery Method

Phase Gate Review DB Project Review Request

Design-Build Delivery Selection Process

Evaluate Project

- Evaluate delivery methods against criteria and packages
- Determine best delivery method & contract packaging



Contract Packaging Workshop

Previous Phase Gate Process

- No Delivery Method Gate
- Not Built to Handle Alternative Delivery, including Design Build

Revised Phase Gate Process

- Added Gate 2 Select Delivery Method
- Occurs:
 - After Contract Packaging Workshop
 - Before Formal Approval of Delivery Method

Phase Gate Improvements

DBIA Certifications

• 30+ Certified Staff and Growing

Over 100
Staff with
Design-Build
Experience

Industry Trainings

- AGC Design-Build
- DBIA

Staff Training Design-Build Workgroup

Agency and Staff Experience

Preliminary Design Contracts

- Experience Writing Performance/Prescriptive Project Requirements
- Experience Assisting With DB Procurements

DB Project Management Consultants

- Design Build Experience
- Similar Complex Negotiating Experience
- Managing Integrated Teams

Supplemental Consultant Experience



3 Contracts, One Integrated Result







South 200th Link Extension

- \$176M Design-Build
- PCL/HDR
- Sept 2016

Angle Lake Parking Garage

- \$32.5M Design-Build
- HPG / Berger ABAM
- Sept. 2016

Roadworks

- \$12M Bid Build
- Johansen
- Sept 2016

South 200th Link Extension



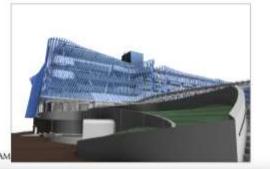




South 200th St Link Extension

- 1.6 miles elevated double track guideway includes train systems and elevated station (Angle Lake Station)
- Pre-cast segmental construction, including a 380-foot long span
- 1.5 year procurement, 4-years design & construction (2011-2016)
- LEED Gold Certified Station One of the first in the County
- 2018 ACEC National Honor Award Engineering Excellence







BergerABAN

Angle Lake Station Parking Garage

- 7-story 1,100 stall commuter parking garage first one associated with Link light rail.
- Cast in-place concrete moment frame parking garage with iconic façade of blue anodized aluminum planks on curved girt system
- 10,000 SF public plaza
- 50 KW photovoltaic array
- Created a 35,000 SF Transit Oriented Development parcel

Assisted In Delivering Project 4-years Earlier Than Planned

Total Project Completed \$40M Dollars Under Budget

Quicker Responses To Challenging or Changed Conditions

Low Change Orders & Claims

- S200th Station Contract
- Awarded At \$169M, Completed At \$176M (4.1% Change Orders)
- 3 Claims Filed 2 Denied & 1 Negotiated
- S200th Garage Contract
- Awarded At \$30M, Completed At \$32.5m (8.3% Change Orders)
- 2 Claims, Both Negotiated

Successful Design Build Management

Design Build Lessons Learned

- The Procurement Is The Critical Period To Capture Value – Design It Accordingly.
- Including Members Of The Jurisdiction In Developing Project Criteria And Selection, Benefits All Parties.
- Colocation & Collaboration With DB Team Is Critical.
- Allow For Innovation & Creativity In The Procurement.
- Clarify And Communicate Roles And Responsibilities For Construction Quality Program Between Entities.



OMF East Program Highlights

\$218 DB Contract – NTP issued June 2017

Facility to service, deploy and store 96 LRVs, supported by 250 FTE.

Vehicle maintenance shop with 14 service bays

Mainline track, systems & station maintenance functions (Maintenance of Way)

LRV parts storage and car wash

Includes all systems, equipment and furnishings – "turnkey" delivery

24/7, 365 day operations



Operational Fall 2020



OMF East - Overall Site Plan

Lessons Implemented

Integrated Jurisdiction Throughout Process

- Procurement Development And Selection
- Resulted In Advanced Permitting Timeline

Design Build Team Responsible For Land Use Permits

Extensive One-on-one Meetings

Pre-proposal Submittal With Written Feedback

Negotiation / Concept Validation Period

2-year Warranty w/ Energy & Water Performance Guarantee





Leslie Jones

Director, Small Business Development and Labor Compliance

"

 To influence stakeholders so that Sound Transit improves mobility for Central Puget Sound in ways that include the diverse people of the region."

Our Responsibilities:

- Disadvantaged Business Enterprise Program
 - Small Business Program
- Title VI Program
- Project Labor Agreement

Overall Agency Goal

- Agency Goal for FFY 2018 16.1%
- Estimated Attainment 19.8% (Finalized June 1st)

Program Overview

Project	Goal Type	Goal	Attainment	Project Status
S. 200 th Link	DBE	5%	10.1%	Complete
Extension	SBE	18%	19%	Complete
Angle Lake Garage	DBE	5%	6.8%	Complete
	SBE	16%	40.6%	
Maintenance of Way	DBE	4%	4.25%	Complete
	SBE	12.5%	13.4%	
Bel-Red to	DBE	6%	15.0%	27%
Overlake	SBE	22%	15.6%	
OMF: East	DBE	6%	6.0%	21%
	SBE	12%	17%	

Design Build S/DBE Utilization

Questions?

