



Concept Development Workshop Wrap-up September 13, 2018

Concept Design Workshop Wrap-Up Agenda

Welcome & Agenda Overview	Gary Farnsworth
Workshop Overview Summary	Marc Butorac
Initial Alternative Assessments	Marc Butorac
Workbook Exercise Overview	Marc Butorac
Alignment Element Workstation (Gym)	Matt Kittelson
Intersection Element Workstation (Cafeteria)	Marc Butorac
Transition Element Workstation (Cafeteria)	Jacki Gulczynski

Three-Day Workshop Format





Workshop Participation

- Advisory Committee Members
- ODOT, Deschutes County, and Jefferson County
- 45 participants at Background Session (Tuesday)
- 49 participants at Workshop (Tuesday)
- 42 participants at Alternative Viewing Session (Wednesday)



Project Elements



Corridor Alignments

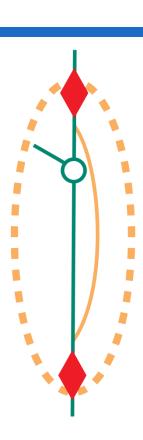


Intersections



Highway Transition





Recap of the 3-Day Workshop

Element	Corridor	Intersection	Transition
Concepts	64	102	32
Alternatives	14	19	15
Promising Alternatives	1	6	3



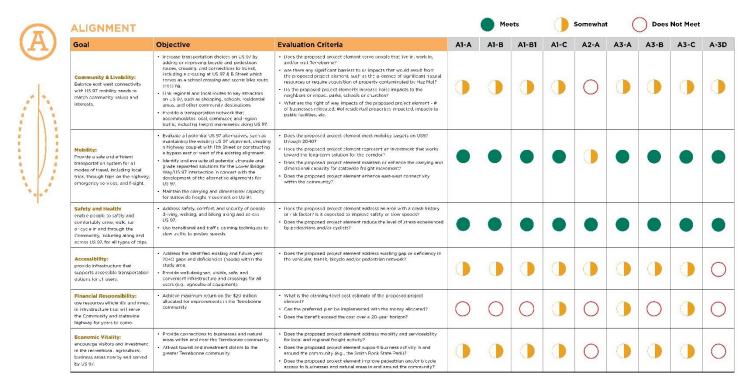
Goals, Objectives, & Evaluation Criteria

- Community & Livability
- Mobility
- Safety and Health
- Accessibility
- Financial Responsibility
- Economic Vitality

Objective	Evaluation Criteria
Increase transportation choices on US 97 by adding or improving bicycle and pedestrian routes, crossing, and connections to transit, including a crossing at US 97 & B Street which serves as a school crossing and scenic bike route crossing. Link regional and local routes to key attractors on US 97, such as shopping, schools, residential areas, and other community destinations. Provide a transportation network that accommodates local, commuter, and region traffic, including freight movements along US 97.	Does the proposed project element serve people that live in, work in, and/visit Terrebonne? Are there any significant barriers to or impacts that would result from the proposed project element, such as the presence of significant natural resources or require acquisition of property contaminated by Haz Mat? Do the proposed project elements increase noise impacts to the neighbors impact parks, schools or churches? What are the right of way impacts of the proposed project element - # of businesses relocated, # of residential properties impacted, impacts to public facilities, etc.
Evaluate all potential US 97 alternatives, such as maintaining the existing US 97 alignment, creating a highway couplet with 11th Street or constructing a bypass east or west of the existing alignment. Identify and evaluate all potential at-grade and grade separated solutions for the Lower Bridge Way/US 97 intersection in concert with the development of the alternative alignments for US 97. Maintain the carrying and dimensional capacity for statewide freight movement on US 97.	Does the proposed project element meet mobility targets on US97 through 2040? Does the proposed project element represent an investment that works toward the long-term solution for the corridor? Does the proposed project element maintain or enhance the carrying and dimensional capacity for statewide freight movement? Does the proposed project element enhance east-west connectivity within the community?
 Address safety, comfort, and security of people driving, walking, and biking along and across US 97. Use transitional and traffic calming techniques to slow traffic to posted speeds. 	Does the proposed project element address an area with a crash history or risk factor? Is it expected to improve safety or slow speeds? Does the proposed project element reduce the level of stress experienced pedestrians and/or cyclists?
 Address the identified existing and future year 2040 gaps and deficiencies (needs) within the study area. Provide well-designed, visible, safe, and convenient infrastructure and crossings for all users (e.g., agricultural equipment). 	Does the proposed project element address existing gap or deficiency in the vehicular, transit, bicycle and/or pedestrian network?
Achieve maximum return on the \$20 million allocated for improvements in the Terrebonne community	What is the planning-level cost estimate of the proposed project element? Can the preferred plan be implemented with the money allocated? Does the benefit exceed the cost over a 20-year horizon?
Provide connections to businesses and natural areas within and near the Terrebonne community. Attract tourist and investment dollars to the greater Terrebonne community.	Does the proposed project element address mobility and serviceability for local and regional freight activity? Does the proposed project element support business activity in and around the community (e.g., the Smith Rock State Park)? Does the proposed project element improve pedestrian and/or bicycle accepts to businesses and natural areas in and around the community?



Goal, Objective, & Evaluation Review





Initial Assessment Summary

- Reviewed # of Concept Submittals (Tuesday)
- Reviewed Community Priority Feedback (Wednesday)
- Assessed Alternatives against Goals, Objectives, and Evaluation Criteria
- Developed Relative Cost Magnitude Comparisons
- Recommended Each Alternative for:
 - Further Review
 - Under Consideration for No Further Review
 - No Further Review



Cooridor Alignment Element



Concept Main Street



Concept Couplets



Concept Bypasses





Concept Alignment Questions



Questions to Consider:

- Where does the community ultimately want the highway alignment?
- What form should highway take to address long-term capacity and community needs?
- How do these alternative alignments fit within existing right-of-way, address future traffic needs, and meet the identified goals, objectives, and evaluation criteria?



Corridor Alignment Summary

63 Concepts Submitted

14 Resulting Alternatives

Alternatives Recommended for Further Review:

A4-A - Couplet



Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
A4-A	

Yellow - Under consideration for NO FURTHER REVIEW

Our goal is to move all concepts in the yellow group to either red or green. Please indicate with a "X" which should move to the red and which should move to the green and why.

	Green - Further Analysis	Red - No Further Analysis	Comments
A1-C			
АЗ-А			
А3-С			
A4-B			
A4-C			
A3-A A3-C A4-B A4-C A5-A			

Red - Recommended for NO FURTHER REVIEW

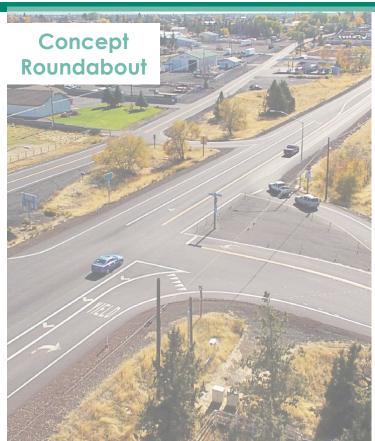
Are there any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
A1-A	
A1-B	
A1-B1	
A2-A	
А3-В	
A3-D	
А3-Е	

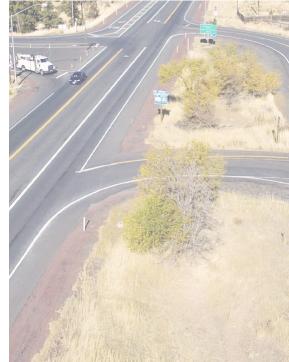


Intersection Element





Concept Alternative Intersections



Concept Intersection Questions

Questions to Consider:

- What could be a viable intersection improvement at Lower Bridge Way/US 97?
- What other intersections need to be enhanced and what improvements are reasonable?
- How should pedestrians and bicyclists be accommodated at intersections?



Intersection Summary (North)

102 Concepts Submitted

19 Resulting Alternatives

Alternatives Recommended for Further Review:

I-4B – Dual Lane Roundabout

1-5B – R-Cut

I-6A2 – SB Flyer Over

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
I-4B	
I-5B	
I-6A2	

Yellow - Under consideration for NO FURTHER REVIEW

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	Green - Further Analysis	Red - No Further Analysis	Comments
1-1A			
I-1B			
I-1C			
I-2B			
I-2C			
1-3A			
I-4A			
1-5A			
I-6A1			
1-7A			

Red - Recommended for NO FURTHER REVIEW

Are thEre any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
I-2A	



Intersection Summary (South)

Insert Worksheet Summary Sheet

Alternatives Recommended for Further Review:

SI-1A – Couplet U-turn

SI-1B - "B" Avenue One-way

SI-3A – Couplet Roundabout

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
SI-1A	
SI-1B	
SI-3A	

Yellow - Under consideration for NO FURTHER REVIEW

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	Green - Further Analysis	Red - No Further Analysis	Comments
SI-1C			

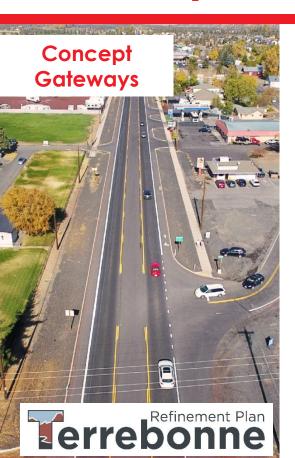
Red - Recommended for NO FURTHER REVIEW

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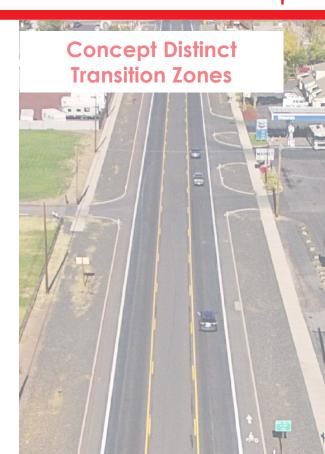
Move Up For Further Review	Comments
SI-2A	



Concept Highway Transition Element







Concept Highway Transition Questions

Questions to Consider:

- As a driver, what makes you change speeds when you are on a highway?
- What elements are effective in slowing down drivers?
- How can we improve pedestrian and bicycle crossings of US 97?
- What streetscape is most appropriate for Terrebonne?



Highway Transition Summary

32 Concepts Submitted

15 Resulting Alternatives

Alternatives Recommended for Further Review:

T1-A – 2-lane Couplet with Bike Lane and Parking
T1-C – 2-lane Couplet with Protected Bike Lane
T4-A – 5-lane Highway with



Protected Bike Lane

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
T1-A	
T1-C	
T4-A	

Yellow - Under consideration for NO FURTHER REVIEW

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	Green - Further Analysis	Red - No Further Analysis	Comments
T1-D			
T4-E			
T4-F			

Red - Recommended for NO FURTHER REVIEW

Are there any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
T1-B	
T2	
T3	
T4-B	
T4-C	
T4-D	
T5	
T6	
T7	

Workbook

Alternative Evaluation Workbook

The project team has taken feedback received from the Concept Development Workshop and consolidated the concepts developed into representative alternatives. These alternatives were then evaluated against the project goals to identify the most promising alternatives (see inside). Please use this workbook to review the Corridor, Intersection, and Transition alternatives and recommend which alternatives should move forward for further review.

Thank you for your help!



PREFERRED BUILD ALTERNATIVE OPEN HOUSE

SEPTEMBER 13TH, 6 - 8 PM

WELCOME!

Please review and comment on the most promising corridor Intersection, Transition, and alignment alternatives recommended for further review. We need your held to determine which alternatives should be reviewed further.

How we got here

Considering the project goals, objectives and evaluation criteria, the project team over the past three days has conducted initial evaluation of alternatives using the ideas and input gathered from community stakeholders, public workshop participants and agency staff. Based on the input, the initial concepts were grouped into specific alternatives and narrowed to the promising alternatives, presented in this workbook.

Tonight, please use the attached/enclosed "score card" to choose your preferred alternative. Leave this with us tonight, return to Jacqueline Gulczynski (information on scorecard) or complete online at the Virtual Workshop at www. TerrebonneRefinementPlan.com by September 27th.

Agenda

6:00 - 6:15	Visit stations
6:15 - 6:45	Presentation
7:00 - 7:10	Corridor Alignment Alternative Review
	➤ Fill out scorecard
7:10 - 7:35	Intersection Alternative Review
7:35 - 8:00	Transition Alternative Review

scorecard online at www.TerrebonneRefinementPlan.com now through

Encourage your friends, neighbors and coworkers to complete the September 27th. THANK YOU!

Goal	Objective	Evaluation Criteria
Community & Livability: Palanac seaf-event connectivity with US 92 mobility receives for mature community values and interests.	- Indexes transportation of orders or USF 2 by addition or indexes on angular access references a magnitude access references to transft, that causing a convening till 8 of 8.5 trent of his provinces of the second as with a described to cause a single access to the second access of the second access to continue the second access to the	Does the proposal directed element principal products in the respect for all the receiver in another was product in the receiver in a more or as a second or
Mobility: Provice a safe and efficient paragraph of system for all modes of mackl, including local trips shrough most on	 Discusse all potential US 37 afternatives, such as maintaining the existing US 37 dignment, creating a highway couplet with the fixed or constructing a bypacs east or west of the existing all anment. 	Does the proposed project element meet mobility careers or USS7 through 70407 Does the proposed project element represent an investment that works trevers the and.
the highway, emergency sorvices and freight.	east or west of the ensuing argument. dentify and evaluate all potential of oracle and grace separates solutions for the Lower Bridge Way/18 97 intersection in concept with the development of the	term solution for the conidor? Does the proposed project element maintain or enhance the carrying one directional opposity or statement received movement?
	 Alomative alignments for US 97. Maintain the carrying and dimensional copacity for statewide freight movement on US 97. 	 Does the proposed project element enhance are excell connectivity within the community
Safety and Health; chable people to safely and comfortably prive, walk nur-	 Address safety, content, and security of people driving, walking, and biking along and across US 97. 	Does the proposed project element andress on area with a grash history or risk factor? is expected to improve safety or slow speeds?
or cycle in and through the Community, including clong and across US 87, for all types of trips.	Use transitional and traffic calming some base follows: affecting postes speeds.	 Does the proposed project element reduce the level of stress experiences by profestrion and/or cyclists?
Accessibility: provide infrest nature; the supports accessible transportation options for all users.	Address the identified existing and tuture year 2040 gaps and collectuates (hands) within the study area.	Does the proposed project element address this fing getter the futurity in the webstalar transit, bicycle and/or pedestrian networks.
options for all users.	 Provide well designed, visible, safe, and converiont infrastructure and crossings for all years (e.g., agricultural againment). 	
Financial Responsibility: use resources efficiently and	Addisser maximum relument the \$20 million allocated for improvements in the	 Who is the planning level are, estimate e* the proposed project element?
investin offer recision that will serve the Community and state wide highway for	Terrebenna community	Can the preferred plan be implemented with the money allocated?
years to come.		Code the pane's expansion or soul layer a 26- year horizon?
Economic Vitality: crossurage visitors and investment in the	Provide connections to businesses and not area arms: within and oper the Terrebonne community.	Does the proposed project element address mobility and screinbebbility for bootland regional freight activity?
recreational, agricultural, budgess areas rearrby and served by US 87.	Attract tourist and investment dollars to the greater Terrobonius community	Does the proposed project element support business activity in and around the community (e.g., the Smith Pock State fork);



Workbook



Corridor Alignment Concepts

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments	
A4-A		

Yellow - Under consideration for NO FURTHER REVIEW

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A1-C			
A3-A			
А3-С			
A4-B			
A4-C			
A5-A			

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Are thEre any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
A1-A	
A1-B A1-B1	
A1-B1	
A2-A	
A3-B	
A3-D	
A3-E	



Intersection Concepts - North (Lower Bridge Way)

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
I-4B	
1-5B	
I-6A2	

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1-1B			
1-1C			
1-2B			
1-2C			
1-3A		*	
1-4A			
1-5A			
I-6A1			
1-7A			

Red - Recommended for NO FURTHER REVIEW

Are there any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
2A	

Workbook (Completed Example)



Corridor Alignment Concepts

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

	Yes/No	Comments
A4-A	X	

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A1-C		X	
АЗ-А		X	
АЗ-С		X	
A4-B		X	
A4-C		X	
A5-A	X		

Red - Recommended for NO FURTHER REVIEW

Are thEre any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
A1-A	
A1-B X	
A1-B1	
A2-A	
АЗ-В	
A3-D	
А3-Е	



Intersection Concepts - North (Lower Bridge Way)

Green - Recommended for FURTHER REVIEW

Should these proceed for further analysis? Please mark "yes" or "no." If so, what do you like? If not, why not?

Yes/No	Comments
I-4B	
I-5B	
I-6A2	

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1-1B			
1-1C			
1-2B			
1-2C			
1-3A			
1-4A			
1-5A			
I-6A1			
1-7A			U

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Are there any that should be moved up for further review? If so, why?

Move Up For Further Review	Comments
I-2A	

Workbook (Completed Example)

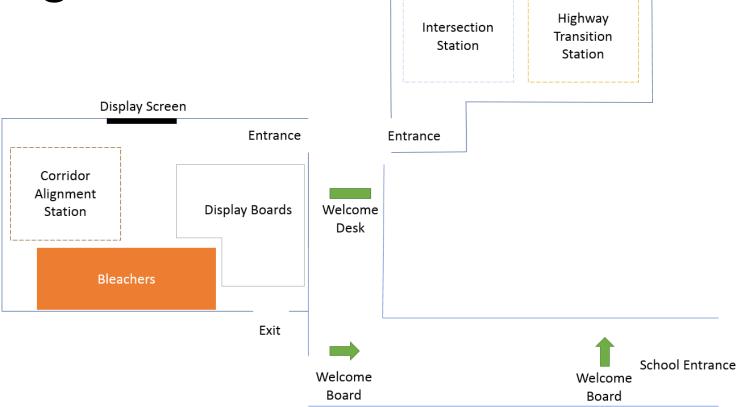
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A1-C		X	
АЗ-А		X	
АЗ-С		X	
A4-B		Ŷ	
A4-C		X	
A5-A	X		

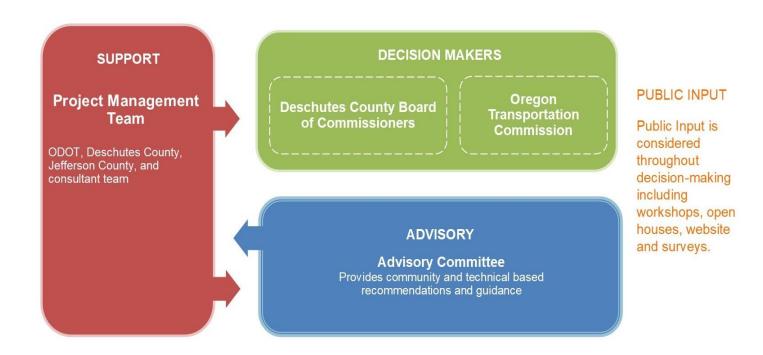


Viewing Stations





Decision-making process





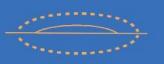
Potential Adoption Process Outcomes

Path 1



A Refinemnet Plan requires **Deschutes County Board of Commissioners** to amend the County's Transportation System Plan.

Path 2



If alignment improvements occur off of US 97, such as a couplet or bypass, a Facility Plan is required. The Deschutes County Board of Commissioners will amend its TSP and the Oregon Transportation Commission will amend the Oregon Highway Plan.

Path 3



If an interchange is developed at the US 97/Lower Bridge Way intersection, an Interchange Area Management Plan is required. The Deschutes County Board of Commissioners will amend its TSP and the Oregon Transportation will amend the Oregon Highway Plan.



Schedule

PHASE 1
Refinement Planning
through 30% Design Work

*A construction schedule will be finalized once the Refinement Plan is complete.

SCHEDULED MEETINGS

Jun





Sep

Nov

Jan (TBD)

Public Meeting



Next Steps & Upcoming Meetings

- September 27th Deadline
 - Additional Concepts
 - Completed Workbooks
 - Additional Comments
- Advisory Committee will review assessment of Most Promising Alternatives – November 2018
- Public Open House #2 Overview of Draft Preferred Corridor Refinement Plan – January 2019



THANK YOU!

