



Public Meeting #2 January 9, 2019

Agenda

Introductions	Bob Townsend
Progress Report/How We Got Here	Marc Butorac
Refinements to Alternatives	Marc Butorac
Comparison of Refined System Alternatives	Marc Butorac
Recommended Preferred Plan	Marc Butorac
Next Steps	Marc Butorac
Feedback Session	Group



Progress Report

- Tech Memo #1-5 Previously Completed
- Concept Development Workshop Sept. 11th to 13th
- Neighborhood Alliance Meeting Nov. 7th
- Tech Memo #6: Alternatives Analysis Sept. 13th to Dec. 4th
- Advisory Committee Meeting #3 Dec. 4th
- Business and Property Meeting Dec. 18th
- Tech Memo #7: Identification of Preferred Alternative Dec. 4th to Jan. 8th
- Advisory Committee Meeting #4 Jan. 9th

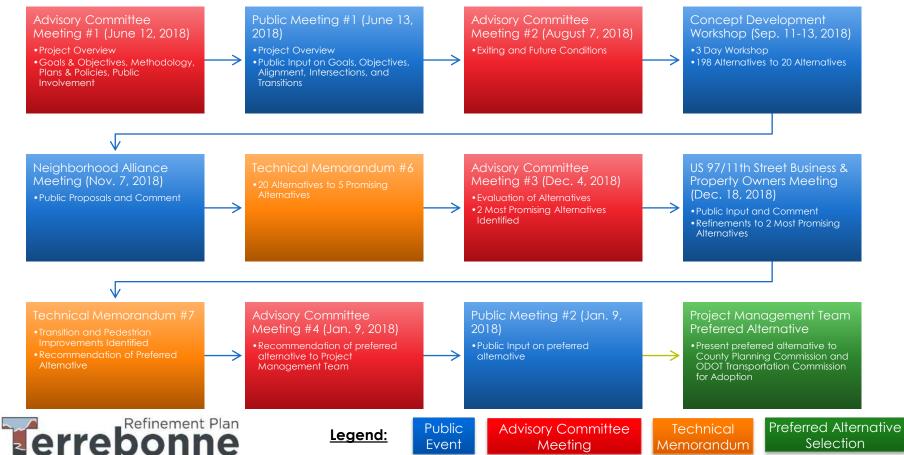


Schedule





How Did We Get Here?



Corridor Needs

- Highway demand will necessitate some form of 2 NB and 2 SB lanes
- Provide connectivity and access for all users in Terrebonne
- Address US 97/Lower Bridge Way Capacity/Safety
- Address US 97 / B Avenue Capacity
- US 97 is a key freight corridor



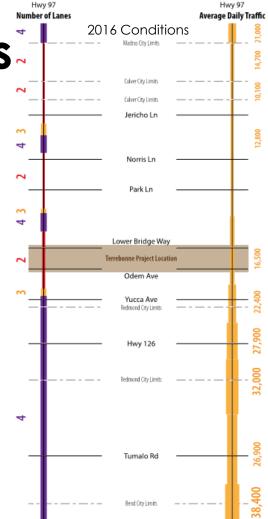




Context of Highway Volumes

- Average Daily Traffic (ADT) on US 97 through Terrebonne is anticipated to grow to 32,000 by 2040.
- This will meet or exceed the two-lane capacity of US 97 within Terrebonne.
- Truck traffic is also expected to remain high along the US 97 corridor.







Refinements to Alternatives



Couplet Refinements

- Southern U-turn Shift
 - Improved accessibility
 - Speed reduction
 - Reduced right-of-way impacts
- Local street enhancements
 - Provided a local street between 11th and 13th Streets near church
 - Provision for long-term 12th/13th north-south local parallel route
- SB Diamond to Parclo "B" Ramp Conversion
 - Reduce right-of-way Impacts (Reduced Cost)
 - Slow drivers by changing the high speed perspective
 - Created lateral shift for SB motorists



Couplet Refinements (cont.)

- Reduced sidewalk width (10 to 8 feet) and travel lane widths (12 to 11 feet) (Reduced Cost)
 - Reduce potential right of way impacts and cost
- Introduced rectangular rapid flash beacons and marked crossings at the B Avenue-Smith Way crossings of US 97 (existing) and 11th Street
- Added eastbound cycle track for the one-way portion of B Avenue between US 97 (existing) and 11th Street
- Improved access to businesses at the corner of US 97/11th Street including the post office.



Refined Couplet System Alternative





Southern U-turn Shift (Couplet)



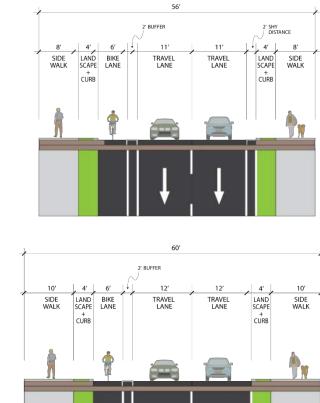


Local Street and LBW SB Ramp



Couplet Cross-Section

- Reduced sidewalk width (10 to 8 feet)
- Reduced travel lane widths (12 to 11 feet)

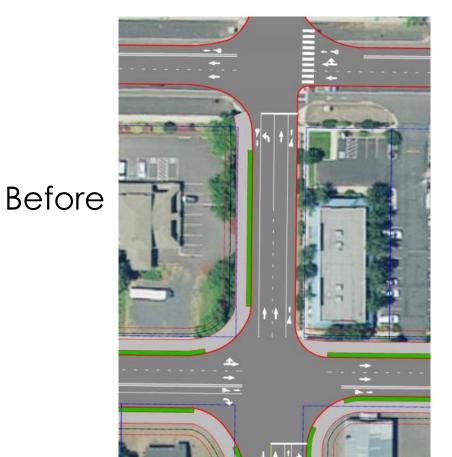


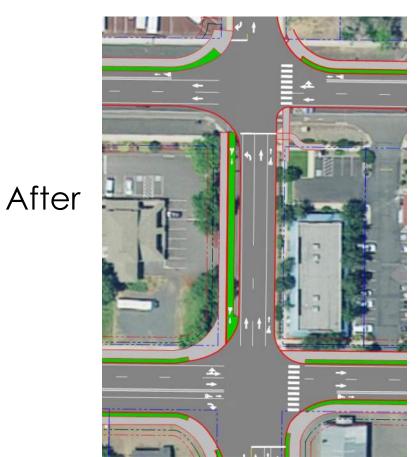
PREVIOUS

RECOMMENDED

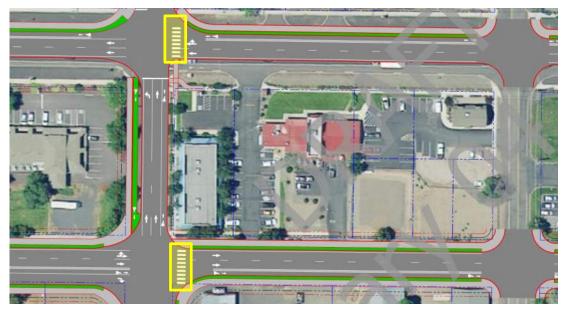


Cross Section – B Avenue





Cycle Track and RRFBs







Five Lane Refinements

- Reduced sidewalk width (10 to 8 feet) and travel lane widths (12 to 11 feet) (Reduced Cost)
 - Reduce potential right of way impacts and cost
 - Reduced the curb to curb exposure for ped/bike (78 to 74 feet)
- SB Diamond to Parclo "B" Ramp Conversion
 - Reduce right-of-way Impacts (Reduced Cost)
 - Slow drivers by changing the high speed perspective



Refined Five-Lane System Alternative

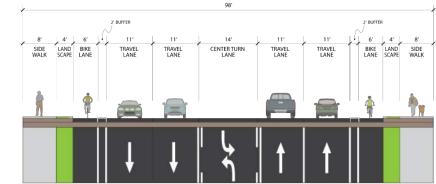


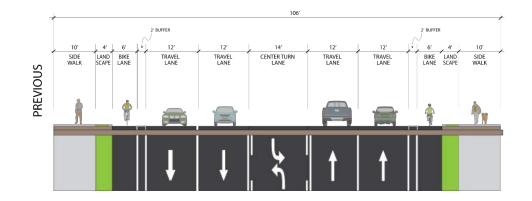


Five-Lane Cross-Section

RECOMMENDED

- Reduced sidewalk width (10 to 8 feet)
- Reduced travel lane widths (12 to 11 feet)







Gateway Treatments for Speed Control



Speed Feedback Sign





Curbed Roadway with Bike Lane and Sidewalk



Chicanes and Lateral shifts



Welcome Signs



Landscaping

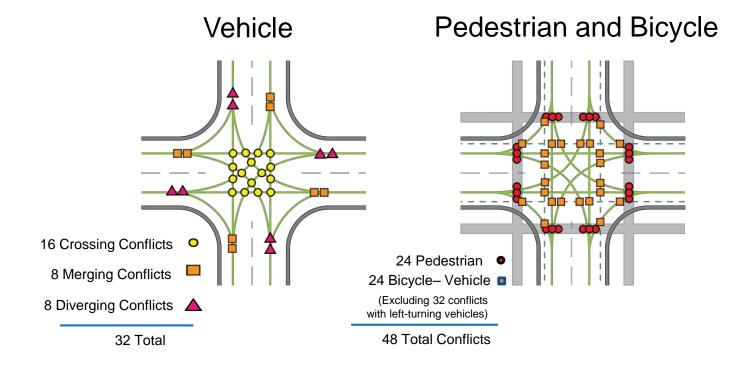
Comparison of Refined System Alternatives



Pedestrian and Bicycle Exposure

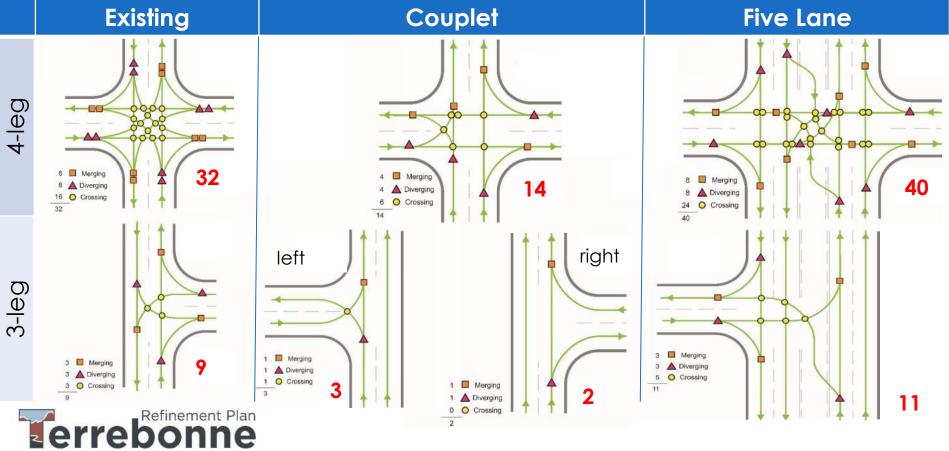
Alternative	Traffic Flow	Number of Lanes	Exposure
Couplet	One-Way	4 [2 lanes (US 97) + 2 lanes(11 th)]	64' (32' widest)
Five Lane	Two-Way	7 [5 lanes (US 97) + 2 lanes(11 th)]	86' (54' widest)
B' 4' 6' ' 1' 1' 1' SIDE LANG BIKE LANE LANE LANE LANE LANE	- 4' 8' SCAPE VALK CURB		
		6 4 8' BIKE LAND SIDE LANE SCAPE WALK	

Conflicts and Accessibility





Conflicts and Accessibility



Conflicts and Accessibility (cont.)

- Couplet reduces all conflicts by 60%
- Couplet has 63% less conflicts than 5-lane
- 5-lane *increases* crossing conflicts by 19%
- Couplet reduces crossing conflicts by 64%

Condition	Merging	Diverging	Crossing	Total
Existing	185	185	289	659
Couplet	79	79	105	263
Five Lane	185	185	343	713



Updated Cost Estimate

Couplet and 5-Lane

Intersection Elements	Preliminary Cost Estimate
Couplet	\$22.5M
South of Central Avenue (B Avenue Configuration)	\$6.9M
North of Central Avenue (Fly-under)	\$15.6M
Five-Lane	\$25.9M
South of Central Avenue (Traffic Signal)	\$5.4M
North of Central Avenue (Fly-under)	\$20.5M



Evaluation Results

Goal	Couplet	Five-Lane
Community & Livability		
Mobility		
Safety & Health		
Accessibility		
Financial Responsibility		
Economic Vitality	Ŏ	
Total		

Project Team Recommendation

- The **Couplet** best meets the Corridor needs
 - Meets forecasted highway demand and provides 2 NB and 2 SB travel lanes
 - Provides connectivity and access for all users in Terrebonne
 - Addresses US 97/Lower Bridge Way Capacity/Safety
 - Addresses US 97/"B" Avenue Capacity
 - Maintains US 97 as a key freight corridor



We need your feedback

Advisory Committee Meeting January 9th, 2019

Thank you for your input and recommendations that have helped shape the Terrebonne Refinement Plan to date. Based on our analysis, AC and community feedback, we have identified a Preferred Alternative. We now need the AC to weigh in on the evaluation results. Your feedback will be reviewed by the project management team and be used with the development of the final recommended plan. The final recommended plan will be reviewed and approved by the Deschutes County Board of Commissioners and the Oregon Transportation Committee (OTC).

Please review the evaluation criteria matrix results and provide your feedback to the questions below.

www.TerrebonneRefinementPlan.com

After reviewing the alternatives evaluation results, is there anything else the team should consider to make the Couplet alternative successful?

Overall, do you support the Couplet Alternative (Preferred Alternative)?



Please explain your answer:

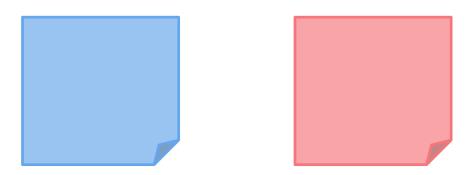
Is there anything else you would like to share?



Feedback Session – Floor Mat Exercise

Concerns

Questions





Next Steps

- Final Comments on Technical Memorandum #7 due Monday, January 21st
- Project Management Team Recommendation
 - Deschutes County Board of Commissioners
 - Oregon Transportation Commission
- Public Hearings on Terrebonne Refinement Plan
 - Deschutes County Planning Commission
 - Deschutes County Board of Commissioners
 - Oregon Transportation Commission



THANK YOU!

