DRAFT MEMORANDUM

Date: June 12, 2012 Project #: 12221.0

To: Scott Edelman, City of Prineville

Devin Hearing, ODOT

Project Advisory Committee

Project: City of Prineville Transportation System Plan

Subject: Draft Technical Memorandum #2: Goals, Objectives and Evaluation Criteria

This memorandum presents goals, objectives and a draft set of evaluation criteria for the City of Prineville Transportation System Plan (TSP) update. The goals and objectives will help guide the TSP update process to ensure key issues are addressed within this process. The evaluation criteria will be used to set policies and identify "preferred alternatives", which will comprise the list of recommended projects and associated policy, code amendments, and funding actions in the TSP.

This document is organized as follows:

- Background: This section describes the changes in Prineville following adoption of the 2005 TSP.
- Goals: The goals are the desired project outcomes and needs that support the land use
 and growth vision for Prineville. The project goals were developed based on guidance
 from agency staff, review of the prior TSP, findings of the OR 126 Corridor Plan, the
 Transportation Growth Management (TGM) grant application submitted by the City of
 Prineville, and on conversations with City, County, and ODOT staff.
 - Objectives: The objectives expand on the project goals and outline the discrete elements that, taken as a whole, summarize the goal.
 - Evaluation Criteria: The evaluation criteria were developed to measure and respond to the objectives and ultimately to the project goals.
- Action Items: Specific items to be addressed within the TSP.

The purpose of this draft document is to outline the consultant understanding of these elements. This will be further discussed at the June 13, 2012 meeting, with meeting comments and subsequent comments received incorporated into a final draft that will be resent to the Project Advisory Committee and approved as part of our July meeting.

Background

The existing City of Prineville Transportation System Plan was adopted in 2005. Since that time, there have been significant changes in Prineville, as outlined below.

- The City of Prineville has approved several significant developments that have the potential to shape growth and transportation system needs in Prineville over the next 20 years. These planned developments are to be located in the southwest and northeast areas and were not contemplated as part of the growth assumptions in the prior TSP.
- The recently completed OR 126 Corridor Plan identifies system needs where OR 126 transitions down the grade and into downtown Prineville. This transition includes a change in State and City priorities for access and mobility and will have implications in the downtown area.
- Recent investments in the City's rail infrastructure have created new opportunities within
 the City for attracting specialized industries that rely on rail service. Within the TSP the
 City should consider how to leverage these prior investments and preserve, extend, and
 enhance its rail network and interactions with its streets.
- The City has seen a large interest in locating additional data centers in the Tom McCall
 area. Formalization of a transportation plan in that area will help foster and support this
 investment.
- The City wants to consider measures, such as development of mixed-use zoning, that will
 encourage travel modes other than single-occupant vehicle trips.
- The City of Prineville implemented a transportation system development charge (SDC), though no similar fee is required in Crook County.

Several general goals were established by the consultant team to help guide the development of the City of Prineville TSP update. These general goals are:

- 1. Ensure a safe and efficient transportation system for all users.
- 2. Improve access to the transportation system for all users, including low income and minority populations.
- 3. Integrate a multi-modal system including bicycle and pedestrian pathways, sidewalks, and bicycle lanes throughout the community, particularly to connect residential areas with schools, parks, and activity centers.
- 4. Improve the local circulation system to reduce the community's reliance on State Highways to travel to local destinations.
- 5. Build and maintain the transportation system to facilitate economic development in the region.

- 6. Improve system performance by balancing mobility, access, community growth, and Prineville's identity, particularly along main travel routes.
- 7. Minimize the impacts of transportation system development on the natural and built environment.

To more specifically address the changes and needs that have occurred or been identified since the 2005 plan, five specific action items are suggested.

- 1. Incorporate specific land use plans and zoning within Prineville to more accurately project and plan for long-term transportation system needs.
- 2. Review and revise or incorporate findings of the OR 126 Corridor Plan within City limits (Tom McCall to the "Y", and into downtown).
- 3. Integrate mixed-use zoning into the City's transportation plans.
- 4. Integrate the City's roadway and rail transportation planning.
- 5. Update the City's Transportation System Development Charge (SDC) based on the revised needs.

An underlying objective of the TSP update process is to satisfy the requirements of the Transportation Planning Rule (TPR, Oregon Administrative Rule 660-012) for a TSP update. This includes compliance with Title VI (civil rights) requirements and collaborating with plan area residents and transportation users through the City and County Planning Commissions, City Council, County Court, public open houses, key participant workshops, and the public website. It also includes ensuring compliance with the TSP content requirements of the TPR and consistency with the Oregon Transportation Plan (OTP), Oregon Highway Plan (OHP), adopted local, regional and state plans, and ODOT's TSP guidelines.

Goals and Objectives

Based on the goals for the TSP update, we developed draft objectives and evaluation criteria to assess the progress towards each goal. The goals and the corresponding objectives and evaluation criteria are below.

Goal #1: Ensure a safe and efficient transportation system for all users

Objectives

1A. Coordinate with existing safe routes to school (SRTS) plans and identify potential engineering components for future SRTS plans for local schools.

- 1B. Strategically plan for safety and operational improvements for bicyclists and pedestrians.
- 1C. Incorporate the Highway Safety Manual (HSM) into development review and capital project evaluation processes.
- 1D. Consider strategies to reduce crashes throughout the study area, particularly higher severity injury and fatal crashes, and those involving more vulnerable roadway users such as pedestrians and bicyclists.
- 1E. Meet applicable City, County, and/or State operational performance measures or identify alternative measures as appropriate in balancing other City goals and needs.

Goal #2: Provide access to the transportation system for all users, including low income and minority populations

Objectives

- 2A. Provide transportation mode choices to all users of the transportation system.
- 2B. Consider impacts to low income or minority populations when assessing the impacts of transportation infrastructure projects.

Goal #3: Integrate bicycle and pedestrian pathways, sidewalks, and bicycle lanes through the community, particularly to connect residential areas with schools and activity centers

Objectives

- 3A. Incorporate safe and convenient connections between travel modes.
- 3B. Identify ways to improve street connectivity (or route connectivity) to provide additional travel routes for bicyclists, pedestrians, and autos.
- 3C. Prioritize projects that improve pedestrian and bicycle system connectivity in areas near schools or other areas of high activity.
- 3D. Provide signing and pavement markings to identify bicycle and pedestrian networks through the City and to help bicycle and pedestrians reach their destinations via the network.

Goal #4: Improve the local circulation system to reduce the community's reliance on State Highways to travel to local destinations

Objectives

4A. Provide alternative routes to the state highways and improve the attractiveness, user awareness, and capacity of parallel routes.

4B. Develop local circulation plans identifying valuable new local circulation routes and connections.

Goal #5: Build and maintain the transportation system to facilitate economic development in the region

Objectives

- 5A. Improve the movement of goods and delivery of services throughout the region using a variety of travel modes.
- 5B. Ensure adequate capacity for future travel demand and multiple modes on collector and arterial streets and on the local highways to enable economic development in the community.
- 5C. Identify lower cost alternatives or provide funding mechanisms for transportation improvements necessary for development to occur.
- 5D. Program transportation improvements to facilitate the development of desired land uses.
- 5E. Provide adequate capacity at rail crossings to meet demand.

Goal #6: Improve system performance by balancing mobility and access, particularly along main travel routes

Objectives

- 6A. Develop an access management plan or policies that reflect desired character and operations of roadways and is feasible in terms of adoption and enforcement.
- 6B. Incorporate the Highway Safety Manual (predictive safety) analysis into corridor planning, operations and design activities to help guide safety investments.
- 6C. Incorporate multimodal level-of-service (MMLOS) analysis from the Highway Capacity Manual (HCM) 2010 to inform cross-sectional design trade-offs.

Goal #7: Minimize the impacts of transportation system development on the natural and built environment.

Objectives

- 7A. Reduce vehicle miles traveled (VMT) to reduce emissions.
- 7B. Improve travel options throughout the City and connecting Prineville to Central Oregon.

- 7C. Provide flexibility within City design standards to reduce water run-off and street maintenance costs.
- 7D. Use technology to improve efficiency and safety of the transportation system.
- 7E. Promote transportation demand management strategies (carpooling, flexible work hours, telecommuting, etc.) to reduce VMT on the transportation system.

Action Items

Action items provide a summary of some of the key elements of this TSP update process.

Action Item #1: Incorporate specific land use plans and zoning within Prineville to more accurately project and plan for long-term transportation system needs.

Objectives:

- 1A. Improve the integration of the City's land use projections and transportation system planning efforts.
- 1B. Consider the regional inputs to the City's growth, such as Juniper Canyon, destination resorts, and other inputs that are external to Prineville.
- 1C. Consider land use changes that can retain workers within Prineville.

Action Item #2: Review and revise/incorporate findings of the OR 126 Corridor Plan within City limits (Tom McCall to the "Y", and into downtown).

Objectives:

- 2A. Develop a consistent planning vision for OR 126, including a refined vision for the transition to the downtown and roadway junctions throughout Prineville City limits.
- 2B. Understand the travel demands for travel to urban areas west of Prineville and identify what types of land use, infrastructure, management, or policy elements could be applied to accommodate this travel.
- 2C. Provide a public process to develop and refine alternatives and allow an informed decision-making process.

Action Item #3: Integrate mixed-use zoning into the City's transportation plans.

Objectives:

- 3A. Provide a legislative zone change and plan amendment process to support adoption of mixed-use zoning within the City of Prineville within the TSP process.
- 3B. Identify transportation infrastructure and connection needs to support development of mixed-use centers and provide additional certainty to future development applications.

Action Item #4: Improve the integration of the City's roadway and rail transportation planning.

Objectives:

- 4A. Separately understand the characteristics of the rail and roadway system serving Prineville and how they interact.
- 4B. Provide the City's rail system the ability to expand to respond to opportunities through the planning horizon.

Action Item #5: Develop a realistic and achievable funding plan that can be implemented incrementally over time.

Objectives:

- 5A. Recognizing that transportation infrastructure project costs will exceed projected revenue, rank and prioritize improvements and develop projects that will incrementally build toward ultimate solutions.
- 5B. Develop a flexible system that can adjust and shift priorities based on the locations and types of growth that occur.

Evaluation Process

A qualitative process using the criteria above will be used to evaluate the policies and alternatives developed through the TSP update. The rating method used to evaluate the alternatives is described below.

- Most Desirable: The concept addresses the criterion and/or makes substantial improvements in the criteria category. (●)
- Moderately Desirable: The concept partially addresses the criterion and/or makes some improvements in the criteria category. (◀)

- No Effect: The criterion does not apply to the concept or the concept has no influence on the criteria. (Ø)
- Least Desirable: The concept does not support the intent of and/or negatively impacts the criteria category. (•)

At this level of screening, the criteria will not be weighted; the ratings will be used to inform discussions about the benefits and tradeoffs of each alternative.

EVALUATION CRITERIA

Table 1 presents the evaluation matrix that will be used to qualitatively evaluate the policies and alternatives developed through the TSP update.

Table 1 Evaluation Matrix

Criteria Reference Number	Evaluation Criteria	Evaluation Measures	
	Goal 1: Ensure a safe a	and efficient transportation system for all users	
1C1	Project includes pedestrian and bicycle improvements located within existing or potential SRTS plan areas.	Does the proposed project include pedestrian and bicycle improvements located within a SRTS plan area?	
101		Measured as providing no, moderate or significant enhancements for student travel.	
1C2	Influence of proposed project on developing new SRTS plans and/or enhancing existing SRTS plans.	To what extent does the alternative facilitate new SRTS plans being developed?	
102		Measured by the potential for students to walk or ride a bike to school due to the proposed project.	
1C3	Number of conflict points between all modes of travel including crossing points for pedestrians and bicyclists along major arterials.	To what extent does the alternative increase safety by reducing vehicle to vehicle, vehicle to pedestrian/bicycle, or pedestrian/bicycle to pedestrian/bicycle conflict points?	
		Measured as relative impact between alternatives in regards to the number of conflict between modes and speed differential.	
1C4	Miles of designated facilities (on-street and off-street) for bicyclists and pedestrians provided.	To what extent does the alternative increase the number of miles of pedestrian and bicycle facilities?	
104		Measured by potential expansions of the pedestrian and bicycle systems.	
1C5	Intersection visibility and sight distances available to motorists, pedestrians, and bicyclists at	To what extent does the alternative improve sight distance for all system users, allowing each adequate time to identify and react to conflicts?	
	intersections and key decision points.	Measured as relative impact between alternatives for providing adequate sight distance based on desired operating speeds.	
1C6	Estimated number of fatal or serious injury crashes.	To what extent does the alternative reduce the estimated frequency of fatal and serious injury crashes?	
100		Whenever possible, measured using procedures in the HSM for estimating and predicting crash frequency.	
1C7	Estimated number of bicycle and pedestrian related crashes.	To what extent does the alternative reduce the estimated frequency of pedestrian and bicycle related crashes?	
		Whenever possible, measured using procedures in the HSM for estimating and predicting crash frequency.	
1C8	Percent of facilities meeting applicable operational performance measure.	To what extent are operational performance measures met for the alternative?	
		Measured by the percent of facilities where operational performance measures are met.	
Goal 2: Provide access to the transportation system for all users, including low income and minority populations			
2C1	Impact of transportation project on low income and minority populations.	To what extent does the alternative affect low income and minority populations?	
		Measured as relative ability of each alternative to spread the impacts of the transportation system evenly between all users.	
2C2	ADA Compliance.	To what extent does the alternative provide opportunities to upgrade pedestrian facilities to ADA standards?	
		Measured by percent of pedestrian facilities meeting ADA standards.	

2C3	Viability of non-auto travel.	To what degree are transportation facilities (transit service, sidewalks, bicycle lanes, separated mixed-use paths, parks) for non-auto travelers integrated into the alternative?				
		Measured relative to facilities and integration present in Baseline.				
2C4	Incorporation of safe, convenient, and comfortable multimodal facilities.	To what degree does the alternative further multimodal transportation?				
		Measured by degree to which alternatives provides for robust facilities and network connectivity.				
	Goal 3: Ensure integration of adequate bicycle and pedestrian pathways, sidewalks, and bicycle lanes through the community, particularly to connect residential areas with schools and activity centers.					
201	Potential impact on bicycle and pedestrian volumes.	To what degree does the alternative increase pedestrian and bicyclist travel?				
3C1		Measured by potential increase in pedestrian and bicyclist volume relative to Baseline.				
3C2	Impact on connectivity of bicycle and pedestrian systems.	To what extent does the alternative improve the connectivity of the existing and proposed pedestrian and bicycle systems?				
3C2		Measured by the extent to which each alternative increases connectivity of pedestrian and bicycle facilities.				
202	Average trip length for bicyclists from residential areas to activity centers via the bicycle/pedestrian networks.	To what degree does the alternative provide opportunities for bicycle trips from residential areas to activity centers?				
3C3		Measured by the potential increase in average bicycle trip length relative to Baseline.				
3C4	Average trip length for pedestrians from residential areas to activity centers via the bicycle/pedestrian networks.	To what degree does the alternative provide opportunities for pedestrian trips from residential areas to activity centers? Measured by the potential increase in average pedestrian trip length relative to Baseline.				
3C5	Incorporation of wayfinding signs and pavement markings for pedestrian and bicyclists.	To what extent does the alternative provide for the increase in wayfinding sings for pedestrians and bicyclists? Measured by the increase in wayfinding signs relative to Baseline.				
3C6	Number of uncontrolled crossing conflict points between vehicles and pedestrians/bicyclists on the bicyclist/pedestrian	To what extent does the alternative reduce the number of uncontrolled crossing conflict points between vehicles, pedestrians, and bicycles? Measured by the number of uncontrolled crossing conflict points				
Cool 4: Too	network.	relative to Baseline.				
Goal 4: 1m		ystem to reduce the community's reliance on State Highways to ravel to local destinations.				
4C1	Average trip length.	To what degree are land use types dense and well mixed such that average trip lengths for plan area residents are reduced?				
		Measured relative to Baseline average trip length.				
4C2	Percent of capacity on regional facilities used for reaching local destinations.	To what extent does each alternative provide viable travel route options for local travelers that are not on regional facilities?				
402		Measured by percent of capacity on regional facilities used for reaching local destinations.				
4C3	Volume-to-capacity (V/C) ratios on parallel routes to highways.	To what extent do viable local road alternatives to state highways provide sufficient mobility? Measured by relative number of facilities providing sufficient mobility				
		compared to Baseline.				

Goal 5: Bu	ild and maintain the transpo	ortation system to facilitate economic development in the region
5C1	Roadway geometry accommodates freight movement where it is needed.	To what extent does the alternative accommodate the design vehicle for designated freight routes?
		Measured by whether or not an alternative is able to accommodate the design vehicle.
5C2	Traffic operations performance on	To what extent does the alternative provide acceptable performance along designated freight routes?
	designated freight routes.	Measured by operational performance along freight routes.
5C3	Potential increased attraction to desired	To what extent does the alternative eliminate roadblocks to development caused by the transportation system?
303	businesses and developers.	Measured by the critical transportation improvements funded relative to Baseline.
Goal 6: Im	nprove system performance	by balancing mobility and access, particularly along main travel routes.
6C1	Number of access points for motorists based on street classification and	To what degree does the alternative provide connectivity that enable the street to better reflect reasonable access spacing given it classification and desired operations?
	desired street character.	Measured relative to existing access conditions.
	Estimated number of	To what degree does the alternative reduce the occurrence of crashes along key roadway corridors?
6C2	future crashes along the corridor.	Measured by the expected number of crashes along key corridors relative to Baseline.
6C3	Estimated MMLOS performance along the corridor.	To what extent does the alternative improve MMLOS performance along key corridors?
003		Measured by the MMLOS performance along key corridors relative to Baseline.
6C4	Access provided for freight, bicyclists, and	To what extent does the alternative provide access for freight, bicyclists, and pedestrians while balancing mobility?
001	pedestrians.	Measured by the access and mobility balance provided for all modes of travel relative to Baseline.
Goal	7: Minimize the impacts of t	ransportation system development on the natural and built environment.
7C1	City-wide VMT and vehicle hours traveled.	To what extent does the alternative provide for alternative modes, enhanced connectivity, and improved land-use integration thereby reducing vehicle miles traveled?
		Measured by potential VMT reduction relative to Baseline.
7C2	Prevailing (i.e., 85 th percentile) corridor travel speed on major thoroughfares compared to the desired operating speeds given roadway function, class, and desired character.	To what extent are prevailing corridor travel speeds consistent with desired travel speed?
-		Measured by the degree to which prevailing corridor travel speeds ar consistent with desired travel speeds.
7C3	Travel mode split.	To what extent does the alternative reduce the reliance on auto trips. Measured by area-wide travel mode split.
	Effectiveness of City	
7C4	Effectiveness of City design standards to limit the environmental impact of the transportation	To what extent do City design standards encourage designs that reduce the environmental impact of the transportation system?
	system.	Measured relative to Baseline design standards.

7C5	Vehicle occupancy along commuting corridors during the peak periods.	To what extent does the alternative create opportunities for travelers to participate in rideshare programs and thereby increase vehicle occupancy? Measured by potential vehicle occupancy during the peak periods.
7C6	Installation of ITS devices.	To what extent are ITS devices being utilized for system
		improvements?
		Measured by the use of ITS devices relative to Baseline.
7C7	Compatibility of the transportation system and adjacent land use.	To what extent does the transportation system support the existing or desired land use mix in the area?
		Measured by the design speed, roadway cross-section, and modal facilities available relative to adjacent land use.
7C8	Compatibility of planned future improvements and available funding.	To what extent do the planned improvements for the alternative match the expected available funding?
		Measured by expected available funds for improvements compared to expected costs of planned improvements.

We look forward to discussing the draft goals, objectives and evaluation criteria presented above with you in more detail. Further discussion will occur at our June 13, 2012 Project Advisory Committee/Technical Advisory Committee meeting to introduce these materials. Comments can be provided at the meeting or following the discussion. Please provide all comments to Scott Edelman for collection and compilation at City Hall or via email (sedelman@cityofprineville.com). Commenting is also available on the project website (http://sites.kittelson.com/PrinevilleTSP/Forums). Based on the comments received, we will revise the goals, objectives, and evaluation criteria to produce a final set that will be applied as the Prineville TSP update moves forward.