## Appendices

## E. Project Evaluation Matrix

| US 2 Upper Wenatchee Valley Corridor Transportation Study Project Evaluation Criteria |  |  |  |
| :---: | :---: | :---: | :---: |
| Number | Guiding Principles | Metric Description | Ranking |
| 1 | Reliable. Locals, regional commuters, freight, and emergency responders have options to maintain a reliable travel time between key destinations. | 1.1: Improves corridor travel time under current or future conditions. | 8= Reduces difference in travel times experienced along corridor between summer weekends and event times and typical conditions for both summer weekends and events <br> 4= Reduces the difference in travel times between typical conditions and summer weekends or events (but not both) <br> $2=$ Minimal improvement expected as a result of a planning or programtic solution. <br> $0=$ Does not improve the difference in travel times on the corridor between summer/event times and typical conditions |
|  |  | 1.2: Creates more reliable transportation connections in the region. | 4= Major Connection (Serves large number of users or multiple modes) <br> $2=$ Minor Connection (Serves primarily local trips or only one mode of travel) $0=\mathrm{No}$ |
| 2 | Safe \& Complete. The corridor offers appropriate multimodal infrastructure to meet users' needs and enhance safety. | 2.1: Improves emergency response times and access to the corridor. | $\begin{aligned} & 6=\mathrm{Yes} \\ & 0=\mathrm{No} \end{aligned}$ |
|  |  | 2.2: Fixes a known sight distance issue or identified modal conflict point, including improving the frequency or comfort of pedestrian crossings, and access to more complete bicycle and pedestrian facilities along the corridor. | $\begin{aligned} & 6=\text { Yes } \\ & 0=\text { No } \end{aligned}$ |
| 3 | Vibrant. Study recommendations supporting the region's economy and growing seasonal usage of the corridor. | 3.1: Provides for a unique and welcoming travel experience. | $\begin{aligned} & \text { 6= Major amenity or enhancement } \\ & 3=\text { Minor amenity or enhancement } \\ & 0=\text { None } \end{aligned}$ |
|  |  | 3.2: Project encourages more efficient use of the corridor, in terms of the times when people travel, the modes they use, and how vehicles are stored. | 6= Project encourages shifting of trips by mode, to other peak times and improves parking management $0=\mathrm{No}$ |
| 4 | Realistic. Study recommendations are practical, fundable and implementable within a reasonable timeframe and include creative solutions to better manage traffic impacts from seasonal and special event travel. | 4.1: Project can be completed within available Right-of-Way. | 6= No Right of Way Aquistion Required <br> $3=$ Minimal Right of Way Aquistion Required <br> $0=$ Significnat Right of Way Aqusition Required |
|  |  | 4.2: Project costs are aligned with budget constraints. | $\begin{aligned} & 6=\text { Low Cost Improvement }(\$ 0-\$ 400,000) \\ & 3=\text { Moderate improvement cost }(\$ 400,000-\$ 3 \mathrm{M}) \\ & 0=\text { High cost }(\$ 3 \mathrm{M}+) \end{aligned}$ |
| 5 | Supported. Stakeholders and the community will be engaged to identify mutually beneficial solutions. | 5.1: Receives support from the community and stakeholders throughout this study. | $\begin{aligned} & \text { 12= High } \\ & 6=\text { Medium } \\ & 0=\text { Low } \end{aligned}$ |


| Project Evaluation Matrix |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10* | Project oescripion | Project trpe | Prority Mode | Goal 1.1 | Goal 1.2 | Goil 2.1 | Goil 2.2 | Goal 3.1 | Goal3.2 | Goil 4.1 | Coal4.2 | Goal 5 | $\begin{aligned} & \text { Total } \\ & \text { Score } \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Project } \\ \text { Ranking } \end{array}$ | $\begin{array}{\|c} \text { Project } \\ \text { Tier } \\ \text { The } \end{array}$ | $\begin{gathered} \text { Featal } \\ \text { flaw? } \end{gathered}$ | Fatal fluw Notes | Selected for <br> Evaluation | $\begin{aligned} & \text { Quick Wins \& } \\ & \text { Small Steps } \end{aligned}$ | Vsion Projects | $\begin{gathered} \text { Project Not } \\ \text { Advancing } \end{gathered}$ |
| 1 | Park \& Ride to Stevens Pass with interim stops for employees and skiers. | Planning/Parking | Trasit | 4 | 2 | 0 | - | 3 | 6 | 6 | 6 | 12 | 39 | 9 | 2 |  |  |  |  |  | $\times$ |
| 2 | Chumstick Highway is identified as an alternate route for emergency needs. Upgrade Chumstick to be a viable detour route for freight use | Design | Auto | 4 | 4 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 26 | 25 | 2 | ves | Identified as too costly ynd not supported. |  |  |  | $\times$ |
| 3 | Signage and wayfinding to designated areas for parking/crossing | Parking | Parking | 2 | 2 | 0 | 6 | 3 | 0 | ${ }^{6}$ | ${ }^{6}$ | - | 25 | ${ }^{31}$ | 2 |  |  |  | * |  |  |
| 4 | Upgrade existing pull-outs paired with enhanced pedestrian crossings. | ${ }^{\text {Design }}$ | Pedestrian | 0 | 2 | 0 | 6 | 3 | 0 | 6 | 6 | 0 | ${ }^{23}$ | 36 | 2 |  |  |  | x |  |  |
| 5 | Create new pull-outs with enhanced pedestrian crossings near known desire lines across US 2. | Design | Pedestrian | 0 | 2 | - | 6 | 3 | 0 | 0 | - | - | 11 | 73 | 3 |  |  |  |  |  | x |
| 6 | $6^{\prime \prime}$ fog lines or narrower lanes may be effective for speed control and/or increased shoulder size for bikes. | Design | Bicycle | 0 | 0 | 0 | 6 | 3 | 0 | 6 | 6 | 0 | ${ }^{21}$ | ${ }^{41}$ | 2 |  |  |  | x |  |  |
| 7 | Improve existing shoulders and add shoulders where none exist, such that bicycles could be accommodated on the shoulder as this is identified as a US bike route. | Design | Bicycle | 0 | 2 | 0 | 6 | 3 | 6 | 0 | 3 | 6 | 26 | 25 | 2 |  |  |  |  | x |  |
| 8 | Improve sight distance in areas where pedestrians are known to cross | Design | Pedestrian | 0 | 0 | 0 | 6 | - | - | 6 | 3 | 0 | 15 | 60 | 3 |  |  |  |  |  | x |
| 9 | No Parking Signs | Parking | Parking | 2 | 0 | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | ${ }^{6}$ | ${ }^{6}$ | 0 | 14 | ${ }^{62}$ | ${ }^{3}$ |  |  |  | $\times$ |  |  |
| 10 | No Pedestrian Crossing Signs | ${ }^{\text {Design }}$ | Saferv Improvement | 0 | 0 | 0 | 0 | 0 | 0 | ${ }^{6}$ | 6 | - | 12 | ${ }^{65}$ | ${ }^{3}$ |  |  |  | * |  |  |
| ${ }_{1} 1$ | Speed enforcement campaign - high taffic inpact timeframes | Programming | Sfaterl mprovement | - | - | 0 | - | - | - | 6 | 6 | 6 | 18 | 49 | 3 |  |  |  |  |  | $\times$ |
| 12 | High fricion Surface Treatments | Design | Saterl Improvement | 0 | 0 | 6 | 0 | - | - | 6 |  | 0 | 12 | ${ }^{65}$ | 3 |  |  |  | x |  |  |
| 13 | Create varable speed rea using is. | Design | Saferl mprovement | - | - | 0 | 0 | 0 | - | 6 | 3 | 0 | 9 | 74 | 3 |  |  |  | $\times$ |  |  |
| 14 | Create a cordon surrounding festival areas that autos are prohibited from entering | Progamming | Transit/Emergency/Bicycle /Pedestrian | 4 | 0 | 6 | 6 | 6 | 6 | 6 | 3 | 6 | ${ }^{43}$ | 2 | 1 | ves | Not supported on US 2 and already mplemented on some parallel routes |  |  |  | x |
| 15 | Temporary peak direction center-thru lane through Leavenworth on US 2, which could shift direction as needed | Desig/frogramming | Auto | 4 | 4 | 6 | 6 | 0 | 6 | 6 | 3 | 12 | 47 | 1 | 1 |  |  |  |  |  | x |
| 16 | Rechannelize US 2 to create a separated multi-use trail parallel to US 2. | ${ }^{\text {Design }}$ | Bicycle/edestrian | 0 | 4 | 0 | 6 | 6 | 6 | 6 | 3 | 12 | ${ }^{43}$ | 2 | 1 |  |  | $\times$ |  |  |  |
| 17 | Center running Transit/Emergency Only Lanes During Events/High Demand Periods | Programming | Trasit/Emergency | 4 | 2 | 6 | 0 | 3 | 6 | 6 | 3 | 0 | 30 | 16 | 2 |  |  |  |  |  | x |
| 18 | Grade Separated Pedestrian Crossings -3 bridges or a pedestrian underpass | ${ }^{\text {Design }}$ | Pedestrian | 4 | 2 | 6 | 6 | 6 | 6 | 0 | 0 | ${ }^{12}$ | ${ }^{42}$ | 4 | 1 |  |  | x |  |  |  |
| 19 | Construct a bridge over the Wenatchee River connecting Chumstick Highway to River Bend Road, creating a parallel route over the river in Leavenworth. | Design/Panning | Auto | 8 | 4 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 30 | 16 | 2 |  |  | x |  |  |  |
| 20 | Improve Icicle Road to provide better bicycle facilities as an alternate bicycle route - could include 6 " or narrower fog lines or advisory shoulders. | Design/Panning | Bicycle/edestrian | 8 | 4 | 6 | 6 | 6 | 0 | 0 | 0 | 12 | 42 | 4 | 1 | ves | Identified as too costly and not supported. |  |  |  | x |
| 21 | Create better parallel route capacity: Chumstick Hwy to train station (more complete facility) | Design/Planning | Biecre/Pededstrian | 8 | 4 | ${ }^{6}$ | ${ }^{6}$ | 6 | 0 | 0 | 0 | ${ }^{12}$ | ${ }^{42}$ | 4 | 1 | ves | Not a realistic option for bypassing the corridor. |  |  |  | x |
| 22 | Enhanced Modal Separation | ${ }^{\text {Design }}$ | Pedestrian | 0 | 2 | 0 | ${ }^{6}$ | ${ }^{6}$ | ${ }^{6}$ | ${ }^{6}$ | ${ }^{3}$ | ${ }^{12}$ | ${ }^{41}$ | 8 | 1 |  |  | $\times$ |  |  |  |
| ${ }^{23}$ | Flageer Traing | Programming | Auto | 4 | 0 | ${ }^{6}$ | ${ }^{6}$ | 0 | - | 6 | ${ }^{6}$ | 0 | ${ }^{28}$ | ${ }^{20}$ | 2 | yes | City has already hired traffic management firm. |  |  |  | x |



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|  |  |  |  |  |  |  |  |  | t Evalu | ion Ma |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{10}$ * | Project Descripition | Project Type | Prororit Mode | Goal 1.1 | Goal 1.2 | Goal 2.1 | Goal 2.2 | Goal 3.1 | Goal 3.2 | Goal 4.1 | Goal 4.2 | Goal 5 | Total | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Priject } \\ \text { Ranking } \end{array} \end{array}$ |  | $\substack{\text { fatal } \\ \text { faw? }}_{\substack{\text { a }}}$ | Fatal flaw Notes | Selected for |  <br> Small Steps | Vision Projects |  |
| 42 | Emergencr Routes/taging | Programming | Emergency | 0 | 0 | 6 | 0 | 0 | 0 | 6 | 6 | 0 | 18 | 49 | 3 | Yes | Alread hapening |  |  |  | $\times$ |
| 43 | Enforcement for pedestrian crossings - vehicles at crosswalks, and j-walking between crosswalks. | Programming | Satery | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 6 | 0 | 18 | 49 | 3 | ves | Resources for implementation are likely infeasible. |  |  |  | $\times$ |
| ${ }^{44}$ | Emplovee ToM strategies | Programming | ${ }^{\text {Programming }}$ | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 0 | 18 | ${ }^{49}$ | 3 |  |  |  | x |  |  |
| 45 | Delivery hour/ $/$ ermits | Planing | Progamming | 4 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 16 | 59 | 3 |  |  |  | $\times$ |  |  |
| ${ }^{46}$ |  | Parking | Parking/Trasit | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 6 | - | 15 | ${ }_{60}$ | 3 |  | Combined with Project t37. |  |  |  | $\times$ |
| 47 | 1 Improved paralle facilites for all modes | Planning/Design | Biccre/Pedestrian | 8 | 4 | 6 | 6 | 6 | 6 | 0 | 0 | 6 | 42 | 4 | 1 |  |  |  |  | x |  |
| 48 | Spot treatments at local aceess points | ${ }^{\text {Design }}$ | Auto | 4 | 2 | 0 | 6 | 3 | 0 | 6 | 6 | 0 | ${ }^{27}$ | ${ }^{22}$ | 2 |  |  |  |  | $\times$ |  |
| 49 | Adaptive management strategies, such as transit on shoulders paired with Park \& Ride at 97 interchange. | Planning | Transit | 4 | 2 | 6 | 0 | 6 | 6 | 0 | - | 0 | 24 | ${ }^{34}$ | 2 |  |  | x |  |  |  |
| ${ }^{50}$ | Park \& Ride e 97 7 interchange paried with sututle | Parking | Parking | 4 | 2 | 0 | 0 | 6 | 6 | 6 | 0 | 6 | 30 | 16 | 2 |  |  |  |  |  | x |
| ${ }^{51}$ | Pedestrian and dicycle improvements along U 52 based on land Use | ${ }^{\text {Design }}$ | Biecre/Pedesestrian | 0 | 2 | 0 | 6 | 6 | 6 | - | - | ${ }^{12}$ | 32 | ${ }^{13}$ | 2 |  |  |  |  | $\times$ |  |
| 52 | Improve Peshastin bridge to better accommodate bicycles and pedestrian connections from US 2 to Peshastin | Design | Biccre/Pedestrian | 0 | 4 | 6 | 6 | 3 | 0 | 0 | 0 | 0 | 19 | 48 | 3 |  |  | x |  |  |  |
| 53 | Snow removal for bus stops | Programming | Trasit | 0 | 2 | 0 | 0 | 3 | 0 | 6 | 6 | 0 | 17 | ${ }_{56}$ | 3 |  |  |  | $x$ |  |  |
| 54 | Aerial ramway | Pamang | Trasit | 。 | 2 | - | - | 6 | 6 | - | - | 0 | 14 | 62 | 3 |  | Length needed for tramway to reach potential parking areas in Segment 3 likely to make project infeasible. |  |  |  | x |
| 55 | Improvements for bus stops along US 2, keeping them on the highway and improving bicycle and pedestrian connections to stops | Planning | Transiticicre/efedestrian | 0 | 2 | 0 | 0 | 3 | 0 | 6 | 3 | 0 | 14 | 62 | 3 |  |  |  |  | x |  |
| $\begin{aligned} & 56 \\ & 57 \end{aligned}$ |  | (tagraming | Staty | : | : | \% | : | \% | \% | 6 6 6 | 6 6 6 | 0 6 0 | 12 18 18 18 | 65 49 49 | 3 3 3 3 |  |  |  | $\times$ |  | ${ }_{x}$ |
| 59 | Itinestin paraller routes foro bikes | Design/lanning |  | 0 | 2 | 0 | 6 | 6 | 6 | - | ${ }^{\circ}$ | 12 | 32 | 13 | ${ }_{2}$ |  |  |  |  | $\times$ |  |
| ${ }_{60}$ | Route 22 opportunties with w. Cashmere Bride Pe Prject | Planning | Transit | 0 | 2 | 0 | 0 | 3 | s | , | , | 0 | 17 | 56 | 3 |  |  |  |  | $\times$ |  |
| 61 | Improve safety around icy spots on the road (variable message signs? | Planning | Sfater Improvement | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 12 | 65 | 3 | ves | Project infeasible due to liability associated with project. |  |  |  | $\times$ |
| 62 | Speed feedback signs | Planning | Sfiety Improvement | 0 | 0 | 0 | 0 | 0 | - | 6 | 6 | - | 12 | 65 | 3 |  |  |  |  |  | x |
| ${ }^{63}$ | Enforcement campaign for speed | Programming | Saferty Improvement | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | ${ }^{12}$ | ${ }^{65}$ | 3 |  |  |  |  |  | x |
| ${ }^{64}$ | Additional red lightwarning signs | ${ }^{\text {Design }}$ | Sfater Improvement | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | ${ }^{12}$ | ${ }^{65}$ | 3 |  |  |  |  |  | $\times$ |
| 65 | High fricioio Surace Treatments | Design | Sfatey mprovement | 0 | 0 | 6 | 0 | 0 | 0 | 6 |  | 0 | 12 | ${ }^{65}$ | 3 |  |  |  | $\times$ |  |  |
| 66 | Shoulder Treatments to better accommodate bicyclists on US 2 (Edge line rumble strips, striping etc.) | Design | Bieccle | - | 2 | - | ${ }^{6}$ | ${ }^{3}$ | 6 | 6 | 3 | 6 | 32 | ${ }^{13}$ | 2 |  |  |  | x |  |  |
| 67 | Shoulder reatments to befterarecocommodate bicy cisist on US 2 | Design/Panning | Bicycle | 0 | 2 | 0 | 6 | 3 | 6 | - | 3 | - | 26 | 25 | 2 |  |  |  | $\times$ |  |  |
| 68 | Improve bicrcie and pedestrian comection to trasit tsops | Design/Panning | Trasit/Eicrcte/edestrian | 2 | 4 | 0 | 6 | 3 | ${ }^{6}$ | 0 | 3 | 0 | 24 | ${ }^{34}$ | 2 |  |  |  |  | $\times$ |  |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10* | Proiect Descripion | Project Type | Priorit Mode | Goal 1.1 | Goal 1.2 | Goal 2.1 | 6oil 2.2 | Goal 3.1 | Goal3.2 | Gool 4.1 | Goal 4.2 | Goal 5 | $\begin{gathered} \text { Total } \\ \text { Score } \end{gathered}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { Priject } \\ \text { Ranking } \end{array} \\ \hline \end{array}$ | $\begin{gathered} \text { Projectect } \\ \text { TTer } \end{gathered}$ | $\substack{\text { Fratal } \\ \text { flaw? }}$ | Fratal flaw Notes | Selected for | $\begin{aligned} & \text { Quick Wins \& } \\ & \text { Small Steps } \end{aligned}$ | Vsion Projects | $\begin{aligned} & \text { Project Not } \\ & \text { Advancing } \end{aligned}$ |
| 100 | Measures to prevent vehicles occupying motorcycle parking locations. | Parking | Parking | 0 | 2 | 0 | 0 | 3 | 0 | 6 | 6 | 0 | ${ }^{17}$ | ${ }^{56}$ | 3 |  |  |  |  |  | x |
| 101 | Leveneworth A-Grade Sypass | Design | Auto | 8 | 2 | 6 | 0 | 6 | 0 | 0 | 0 | 6 | 28 | 20 | 2 | Yes | Limited access concepts tested, result in significant impacts to local residents |  |  |  | $\times$ |
| 102 | Add an additional lane to US-2in both directions | Design | Auto | 8 | 4 | 6 | 0 | 6 | 0 | 0 | 0 | 6 | ${ }^{30}$ | 16 | 2 | ves | Cost due to ROW do not align with project Guiding Principles. |  |  |  | $\times$ |
| 103 | Instal additional croswalks/pedestrian signge | ${ }^{\text {Design }}$ | Pedestrian | 0 | 2 | 0 | ${ }^{6}$ | ${ }^{3}$ | 0 | ${ }^{3}$ | ${ }^{3}$ | ${ }^{6}$ | ${ }^{23}$ | ${ }^{36}$ | 2 |  |  |  | $\times$ |  |  |
| 104 | Remove parking spaces between 13t and 14th on fron stto alow | Design | Auto | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | ${ }^{20}$ | ${ }^{44}$ | 3 |  |  |  |  |  | x |
| 105 | Roundabut tat intersection of US-2/SR-207 | Design/Pananing | Auto | - | 2 | $\bigcirc$ | 6 | 3 | 0 | ${ }^{3}$ | ${ }^{3}$ | ${ }^{6}$ | ${ }^{23}$ | ${ }^{36}$ | 2 |  |  |  |  | x |  |
| 108 | Sign visibilite enhancements | Design | Auto | 0 | 0 | 0 | 6 | 0 | 0 | ${ }^{6}$ | ${ }^{6}$ | 0 | ${ }^{18}$ | 49 | 3 |  |  |  |  |  | * |

