Design Scoping Index

Attach the project location map to index to show the location of all design improvements.

|  |  |
| --- | --- |
| Today’s Date: |       |
| Status (Initial, Update): |       |

**General Information:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| District: | County: | Route: | Post Mile | Project Number |
|       |       |       |       |       |

|  |  |  |  |
| --- | --- | --- | --- |
| Project Manager |       | Phone # |       |
| Task Manager |       | Phone # |       |
| Project Engineer |       | Phone # |       |
| Design Functional Manager |       | Phone # |       |

|  |  |
| --- | --- |
| General Project Description: |       |
| Project Need: |       |
| Project Purpose: |       |

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Considerations | Yes/No/Specify | Comments (summarize pertinent information. assumptions and reference location of detailed information): |
| 1. Project Setting (refer to Planning Scoping Checklist) | Rural or Urban? |       |       |
| Current Land Uses: (e.g., industrial, light industry, commercial, agricultural residential etc). |       |       |
| Adjacent Land Uses: |       |       |
| Existing Landscaping: |       |       |
| Designated or Eligible Scenic Highway |       |       |

The following pages are to be used for each alternative provided that the scope is significantly different. If a route has been adopted as a freeway, a decision must be made as to whether or not the project will address improvements to the existing traversable highway or move to construction of a freeway facility.

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Considerations | Yes/No/Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Design Concept and Route Matters | 1. | Design Concept? |       |       |
| Freeway/Expressway/ Conventional Highway |       |       |
| Mixed highway and transit |       |       |
| Mixed highway and rail |       |       |
| Urban |       |       |
| Other |       |       |
| 2. | Existing Route Adoption Date |       |       |
| 3. | New Route Adoption Proposed? |       |       |
| 4. | Existing Freeway Agreement Date |       |       |
| 5. | New Freeway Agreement Proposed? |       |       |
| 6. | Public Road Connection Proposed? |       |       |
| Design Criteria | 1. | Design speed for highway facilities within the project limit |       |       |
| mi/hr? |       |       |
| 2. | Design Period: (10 yr/15 yr/20 yr) |       |       |
| Construction Year |       |       |
| Design Year |       |       |
| 3. | Design Capacity - Level of Service to be maintained over the design period: |       |       |
| Mainline |       |       |
| Ramp |       |       |
| Local Street |       |       |
| Weaving Sections |       |       |
| 4. | Design Vehicle Selection |       |       |
| STAA |       |       |
| California |       |       |
| Bus |       |       |

|  |  |
| --- | --- |
| Forecasted Average Daily Traffic volumes |       |
| Percent truck volume |      % |

Proposed Roadbed and Structure Widths

|  |  |  |
| --- | --- | --- |
|  | Roadbed Width | Structure Width |
| **State Highway** | Existing | Proposed | Standard | Existing | Proposed | Standard |
|  Lane widths/# |       |       |       |       |       |       |
|  Left Shoulder |       |       |       |       |       |       |
|  Right Shoulder |       |       |       |       |       |       |
|  Median Width |       |       |       |       |       |       |
|  Bicycle lane |       |       |       |       |       |       |
|  Sidewalk |       |       |       |       |       |       |
|  Planting strip |       |       |  |       |       |  |
|  |  |  |  |  |  |  |
| **Local Streets** |       |       |       |       |       |       |
|  Lane widths/# |       |       |       |       |       |       |
|  Left Shoulder |       |       |       |       |       |       |
|  Right Shoulder |       |       |       |       |       |       |
|  Median Width |       |       |       |       |       |       |
|  Bicycle lane |       |       |       |       |       |       |
|  Sidewalk |       |       |       |       |       |       |
|  Planting strip |       |       |  |       |       |  |

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| Item | Considerations | Yes/No/Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Roadway Design Scoping | 1. Mainline Operations | Main lane highway widening? |       |       |
|  |  | Existing pavement to be rehabilitated with Asphalt Concrete/Rubberized AC/PCC? |       |       |
| Widen existing facility from \_\_ lanes to \_\_lanes. |       |       |
| Local street structures to span \_\_\_ lanes. |       |       |
| Curb extensions |       |       |
| Shoulder improvements |       |       |
| Bicycle lanes |       |       |
| Pedestrian refuge islands |       |       |
| Sidewalks |       |       |
| Right of Way acquisition required for \_\_\_ lanes. |       |       |
| Upgrade existing facility to: Expressway/Freeway/ Controlled Access Highway/ Traversable Highway Standards? |       |       |
| Improve Vertical Clearance |       |       |
| Adequate Falsework Clearance |       |       |
| Traffic calming features |       |       |

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| Item | Considerations | Yes/No/ Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Roadway Design Scoping | 2. Ramp/Street Intersection Improvements | New Signals? |       |       |
| Modify Existing Signals? |       |       |
| Right Turn Lanes |       |       |
| Widening for Localized Through lanes? |       |       |
| Merging Lanes? |       |       |
| Deceleration/ Acceleration lanes? |       |       |
| Left Turn Lanes? |       |       |
| >300 VPH Left Turn (Requires Double Left Turn Lane) |       |       |
| Interchange Spacing? |       |       |
| Ramps Intersect Local Street < 4% grade? |       |       |
| Intersection Spacing? |       |       |
| Exit Ramps >1,500 VPH (Requires two lane exit)  |       |       |
| Single lane ramps exceeding 1000’ widened to Two lanes |       |       |
| Curb Ramps? |       |       |
| Pedestrian Facilities? |       |       |
| Other? |       |       |
| Operational Improvements | Truck Climbing Lane | Sustained Grade exceeding 2% and Total Rise Exceeds 50’? |       |       |
| Other? |       |       |
| Auxiliary Lanes | 2000’ between Successive On-Ramps? |       |       |
| Two lane Exit Ramps have 1300’ Auxiliary Lane? |       |       |
| Weaving < 2000’ between off-ramp and on-ramp? |       |       |
| Other? |       |       |

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| Item | Considerations | Yes/No/ Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Right of Way Access Control | Existing access control extends at least 50 ft beyond end of curb return, radius or taper? |  |  |
| New construction access control extends at least 100’ (urban areas) or 300’ (rural areas) beyond end of curb returns, radius or taper? |  |  |
| Other? |  |  |
| Highway Planting and Irrigation | Clearing and Grubbing? |  |  |
| Relocate Existing Irrigation Facilities? Highway Planting and Irrigation (including median and roadside) |  |  |
| Roadside Management | Vegetation control treatments (road edge, guardrails, signs, drainage facilities, miscellaneous pavement narrow areas, etc.) |       |       |
| Modernization and clustering of facilities and hardware (removing and replacing other items), gore area pavement |       |       |
| Rehabilitate gore area pavement and pavement beyond gore areas (remove and replace miscellaneous pavement and curbs |       |       |
| Contour grading, slope rounding, stepped slopes and topsoil reapplication |       |       |
| Side slopes/embankment slope |       |       |
| Safety | Off-Freeway Access (gate, access road, and stairways) |       |       |
| Maintenance Vehicle Pull-Out |       |       |
| Adequate safety working conditions |       |       |
| Relocate roadside facilities/features (cabinets, poles, pull boxes and vaults) away from traffic |       |       |
| Hydraulics/ Stormwater (Refer to the Stormwater data sheet) | Erosion Control? |       |       |
| Drainage? |       |       |
| Slope Design? |       |       |
| Structures (Refer to Structures Scoping Checklist or APS) | New Bridge? Providing public access for recreational purposes must be fully considered for new bridges over navigable rivers. |       |       |
| Bridge Rehabilitation? |       |       |
| Retaining Wall |       |       |
| Bicycle or Pedestrian Overcrossing/Undercrossing |       |       |
| Other |       |       |
| On STRAIN list for: |       |       |
| Other | Class I Bikeway (bicycle path) |       |       |