Cost Analysis and Implementation

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SECTION ONE: Cost Analysis

To understand the cost implications of the improvements proposed by this Corridor Plan, estimates on a cost per square foot (sf) and per acre (ac) basis have been prepared. At the planning budget level, these estimates can be applied to the Landscape Design Segments to produce an overall maximum cost for the right-of-way sections through undeveloped areas, communities, and individual interchange improvements. These estimates will inform NDOT in the decision-making process, and help influence budget allocations for the landscape and aesthetics highway improvements. Estimates within the Tahoe Basin may exceed these costs.

APPLICATION OF DESIGN GUIDELINES

The Design Guidelines included in this report describe the elements that compose a typical rightof-way section and interchange along elevated highways and bypasses. They also describe a base level of landscape and aesthetic quality that is used to predict costs. The intent of this section is to develop a definition of what is considered a "standard" treatment. As described in the Design Guidelines, within the Lake of the Sky Landscape Design Segment, an accentuated treatment level should be considered the "standard" treatment. Upon adoption of the Corridor Plan, NDOT should initiate internal reviews to determine implementation strategies. These reviews will include cost evaluation, priorities, scheduling, and visual preference evaluations to test each standard proposed by this section.

Funding for the landscape and aesthetics portion of a project should not be used to cover the ordinary construction costs. The landscape and aesthetics budget is available for softscape and hardscape treatments that exceed the ordinary construction costs.

The following summary describes components contained within an NDOT standard project that are not generally considered landscape and aesthetic costs:

Roadside Service Facilities

 Service area program as defined in the Design Synthesis report inclusive of program elements.

Non-motorized Transportation Systems

- Maintain existing sidewalk dimension of intersecting road across bridge overpass.
- Maintain existing bike lane dimension of intersecting road across bridge overpass.
- New bicycle paths and walkways that are part of an approved transportation plan.
- Six foot concrete sidewalk (community transition zones).
- Ten foot concrete sidewalk (community interface zones).
- Painted zebra pattern pedestrian crossing with pedestrian crossing sign.

Anti-graffiti Control and Removal

 Application of a long-term, non-sacrificial anti-graffiti treatment coating to all appropriate structures.

Bridge Structure

- Steel and concrete I-girders or steel and concrete box girder.
- Cast-in-place concrete with variable vertical ribbed design.
- Two color paint palette—base color with one accent color.

- Concrete barrier rail with acrylic stain base color application or steel rail with painted finish.
- Bridge/road name identification embossment.
- Pedestrian access across and under bridges used at interchanges and over topographic features.

Retaining Walls

- Cast-in-place or pre-cast concrete with fractured fin or similar pattern.
- Acrylic stain base color application.

Noise Walls

- Cast-in-place or pre-cast concrete with fractured fin or similar pattern.
- Acrylic stain base color application.
- Variation in sound wall geometry, material, color, texture, and pattern to eliminate monotonous, linear stretches of wall.

Concrete Barrier

- Cast-in-place concrete barrier.
- Acrylic stain base color application.

Guard Rail

• Galvanized steel thrie-beam guard rail.

Medians

- Revegetated median outside of community zones.
- Revegetated raised 6 inch median with curb within community zones.

Fencing

• Chain link fencing with color application—vinyl clad or painted finish with steel post supports where required (community zones).



How to Read Landscape and Aesthetics (L&A) Costs:

1) Determine the cost of the NDOT standard treatment for softscape and hardscape.

Softscape

(Native revegetation) – \$1.20 - \$1.40/sf Hardscape (Standard) – \$115 - \$120/sf

2) Determine the cost of the selected treatment type.

Softscape (Regionally adapted treatment type): \$2.40 - \$2.90/sf

Hardscape (Focal treatment type): \$180 - \$195/sf

3) Subtract the standard treatment cost for the cost of the selected treatment type.

Softscape:

\$2.40 (Regionally adapted treatment cost)

-\$1.20 (Standard treatment cost)

= \$1.20 (Landscape and aesthetics cost)

Hardscape:

\$180 (Focal treatment cost)

-\$115 (Standard treatment cost)

= \$65 (Landscape and aesthetics cost)

The portion of cost allocated as a landscape and aesthetics cost is the additional cost.



- Multi-strand wire fencing with painted steel post supports at right-of-way limits (rural areas).
- Fencing required to control access, grading, and drainage.

Grading

- Steepest desired slope of 3H:1V.
- Rounded slopes that blend into existing grade.
- See Project Design Development Manual (PDDM) 2.2.4.2 side slopes.

Rock Cuts

- Rock cuts that appear natural in form and blend with existing landforms.
- Staining of rock cut to provide weathered finish.
- Rock fall protection structures, if necessary.

Drainage

- Basic channel conveyance, culverts, and drainage structures.
- Erosion resistant channels.
- Water quality basins.
- Man-made or constructed wetlands fulfilling mitigation requirements.

Erosion Control

- Provision of temporary erosion control during construction.
- Permanent erosion control.
- Temporary and permanent erosion control best management practices.

Native Revegetation for All Disturbed Portions of Highway Construction

- Salvage and storage of topsoil (6 inch horizon minimum) with native plant fragments.
- Re-spreading of stockpiled topsoil and native plant fragments to minimum 6 inch depth (amend topsoil when necessary).

- Application of native plant revegetation seed mix in combination with scattered rock mulch.
- Supplemental irrigation to establish plantings when necessary (two year minimum by maintenance contract).
- Provide invasive and noxious weed control (two year minimum by maintenance contract).

Construction and Maintenance Management Practices

- Implementation of dust control practices.
- Construction fencing to preserve sensitive areas.
- Maintenance period to ensure establishment of native revegetation.
- Development of a native revegetation general maintenance program.

Project Components Required for Compliance

• All practices must be in compliance with applicable Federal and State regulations.

Roadway Lighting

- Thirty foot high pole with galvanized finish, concrete foundation, and high pressure sodium luminaire (rural areas).
- Thirty foot high pole with powder-coat finish, concrete foundation with acrylic powder-coated base color application, and high pressure sodium luminaire with shoe-box fixture (community zones).

Wildlife Crossing

- Under or overpass structures to allow maintenance of natural migration and animal travel patterns.
- Cast-in-place concrete bridges with textured finish and two-color paint palette.
- Wire mesh fencing with painted steel post supports.

PROCESS

Costs (in 2006 dollars) for individual hardscape and softscape treatments, such as pedestrian crosswalks, curb extensions, raised planters, concrete form liner imprints, retaining walls, and landscape irrigation, were gathered from several sources, including NDOT, local engineering and landscape architecture firms, contractors, and product manufacturers. This information was analyzed and compiled into a database that could be applied to several prototypical examples of landscape and aesthetic treatment levels. The softscape and hardscape costs presented here represent the capital costs of construction and do not include extended maintenance costs. The treatments correlate to those presented in the NDOT Landscape and Aesthetics Master Plan. A separate report prepared by UNLV, entitled Maintenance Cost Study for Corridor Planning, examines longterm maintenance costs such as graffiti removal, pruning, and irrigation.

Prototypical designs for each of the five softscape types and four hardscape treatments were created for sections of highway rights-of-way outside of communities, in developing commercial areas, and in downtown areas. Within communities, designs were created for two-lane, three-lane, and four-lane roadway conditions. The project area was then incorporated into the estimate to create the per square foot and per acre cost analysis.

Overall cost estimates for each level of treatment were developed from these and compared to the costs from actual projects for verification. A similar process was applied to these areas to create a per square foot and per acre cost for each hardscape and softscape type.

COST ESTIMATES

Cost information presented here is provided for the purpose of long-range planning and budgeting. It is not intended to substitute for a projectlevel detailed cost projection.

Softscape Treatments

Using the process described above, planning level construction cost estimates for the different softscape treatments were determined in 2006 dollars. They are as follows:

Softscape Type Cost Estimate (sf and acre) **Ground Treatment / Native Revegetation:**

\$1.20 - \$1.40/sf \$52,500 - \$61,950/acre L & A Cost \$0.00/sf L & A Cost So.oolacre

enhanced native:

\$1.50 - \$1.70/sf \$64,500 - \$74,000/acre L & A Cost \$0.30 - \$0.50/sf L & A Cost \$12,000 - \$21,500/acre

Regionally Adapted:

\$2.40 - \$2.90/sf \$105,000 - \$126,000/acre L & A Cost \$1.20 - \$1.70/sf L & A Cost \$52,500 - \$73,500/acre

Regional Ornamental:

\$3.70 - \$6.50/sf \$160,000 - \$280,000/acre L & A Cost \$2.50 - \$5.30/sf L & A Cost \$107,500 - \$227,500/acre The cost for ground treatment/native revegetation is covered under the general construction costs as part of the NDOT standard. The data shown for the different treatment levels represents a total cost. The landscape and aesthetics cost is the portion of the total cost that is above the NDOT standard.

For example, a regionally adapted softscape costs about \$1.20 more per square foot than the standard ground treatment / native revegetation level of treatment, for a total cost of \$2.40 per sf (\$1.20 + \$1.20 = \$2.40). The additional \$1.20 per sf is funded through the landscape and aesthetics 3% for new construction, or community partnerships because it is above and beyond the NDOT standard. The regional ornamental treatment exhibits the widest range of costs due to the highly customized nature of this type.

Structures and Hardscape Treatments

Within communities, the construction of curbs, sidewalks, and medians compose the majority of hardscape costs. Along elevated highways and bypasses, bridges and sound walls are the main hardscape cost components. For the purposes of cost estimation, the right-of-way conditions established for softscape costs were also used to determine hardscape costs. In addition, a 12,000 square foot (60 foot x 200 foot) bridge was assumed for elevated highways and bypasses. The estimate for the various hardscape levels is:

Hardscape Type Cost Estimate (sf and total) Standard:

\$115 - \$120/sf \$1,386,000-\$1,500,000 total L & A Cost So.oo/sf L & A Cost So.oo total

Accentuated:

\$132 - \$142/sf \$1,575,000 - \$1,700,000 total L & A Cost \$17 - \$27/sf L & A Cost \$189,000 - \$200,000/total

Focal:

\$180 - \$195/sf \$2,145,000 - \$2,335,000 total L & A Cost \$65 - \$80/sf L & A Cost \$759,000 - \$949,000 total

Landmark:

\$225 - \$270/sf \$2,646,000 - \$3,150,000 total L & A Cost \$110 - \$155/sf L & A Cost \$1,260,000 - \$1,764,000 total

The cost for the standard treatment would be covered by the general capital construction budget.

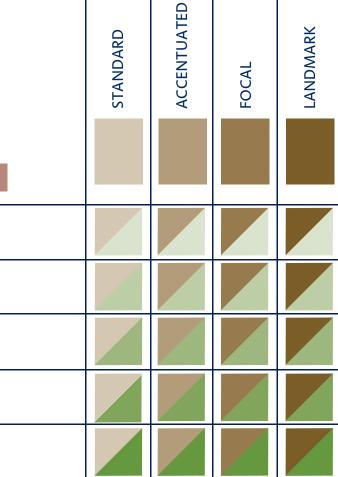
The treatment levels are represented as a total cost and the landscape and aesthetics cost represents the portion to be covered by the Landscape and Aesthetics 3% for new construction or com-

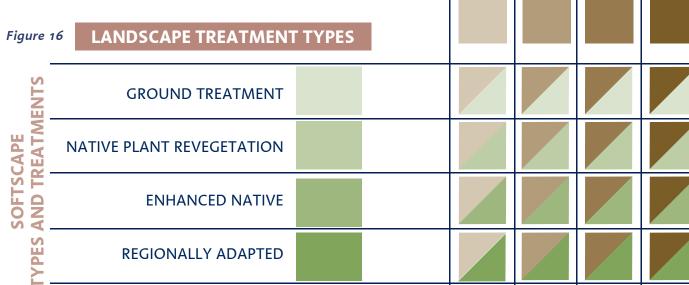
REGIONAL ORNAMENTAL

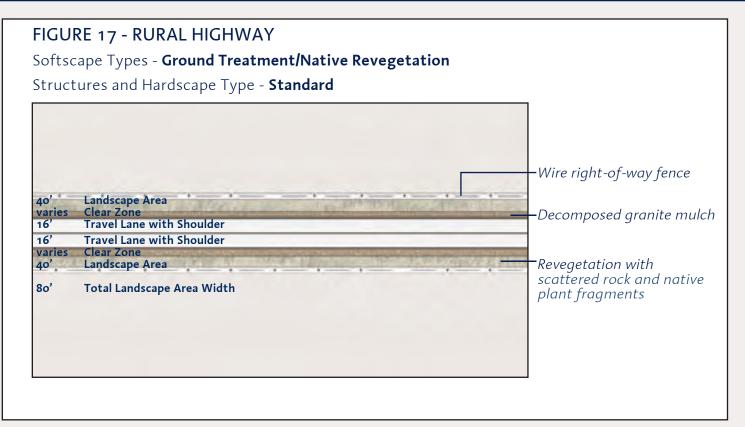
munity partnerships. The landmark level shows the widest range of cost because of the custom nature of many elements such as complex concrete form liners, custom railings, and transportation art that are included in this treatment.

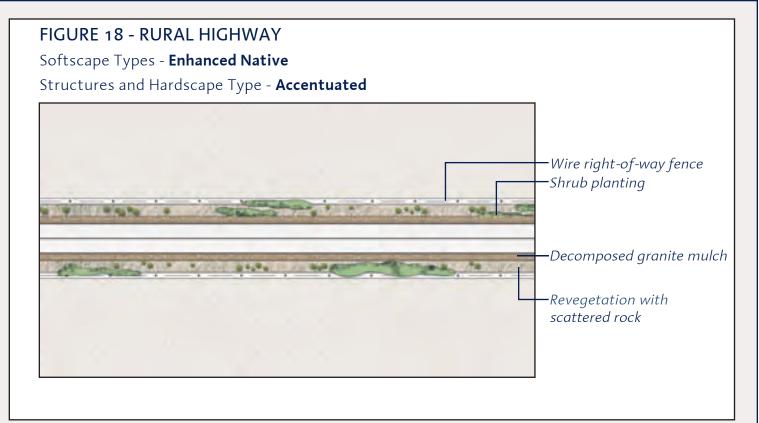
To place the estimates in the context of a highway corridor, an estimate was calculated for a one mile section of road. Typical sections of highway rightof-way for rural and community applications were developed. Two lane (50 foot ROW), three-lane (76 foot ROW), and four lane (102 foot ROW) examples for both suburban and downtown applications were used to determine this value (Figures 17 - 48, pages 4.4-4.11). The approximate softscape and hardscape costs to develop one mile of corridor right-of-way at each treatment level were estimated.

STRUCTURES AND HARDSCAPE **TYPES AND TREATMENTS**









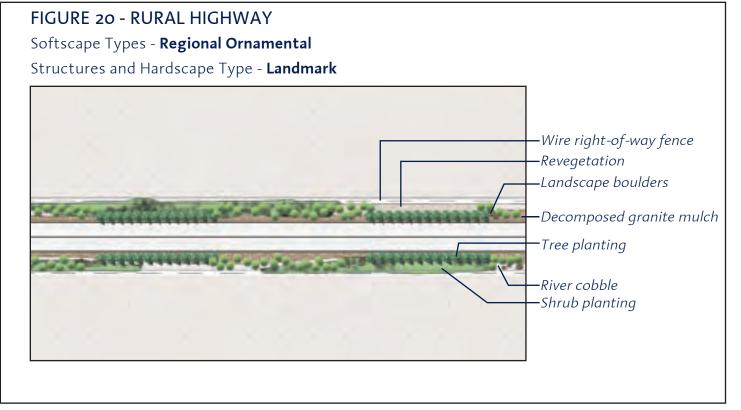
Total Cost: \$35,000 - \$42,000/acre of ROW area

Total Cost: \$69,000 - \$85,000/acre of ROW area

L&A Cost: \$o/acre

Total Cost: \$43,000 - \$50,000/acre of ROW area

FIGURE 19 - RURAL HIGHWAY Softscape Types - Regionally Adapted Structures and Hardscape Type - Focal Wire right-of-way fence Tree planting Decomposed granite mulch Revegetation with scattered rock Shrub planting Landscape boulders River cobble



L&A Cost: \$34,000 - \$50,000/acre Tot

Total Cost: \$107,000 - \$185,000/acre of ROW area

L&A Cost: \$72,000 - \$150,000/acre

L&A Cost: \$8,000 - \$14,000/acre

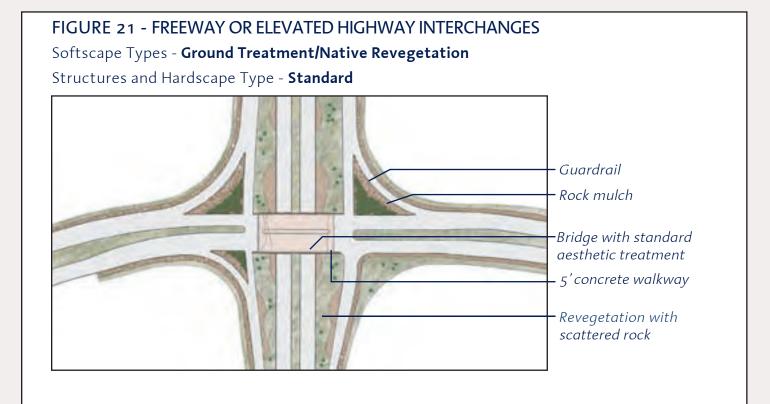
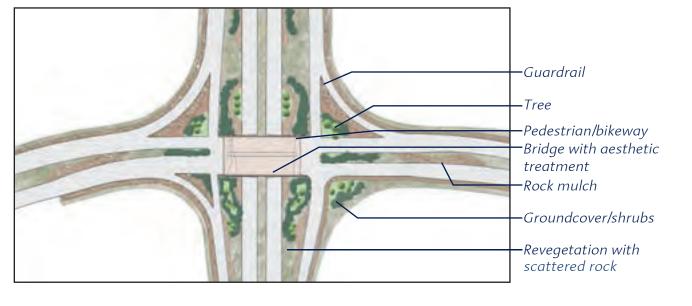


FIGURE 22 - FREEWAY OR ELEVATED HIGHWAY INTERCHANGES

Softscape Types - Enhanced Native

Structures and Hardscape Type - **Accentuated**



Total Cost: \$1,785,000 (infield landscape and bridge deck)

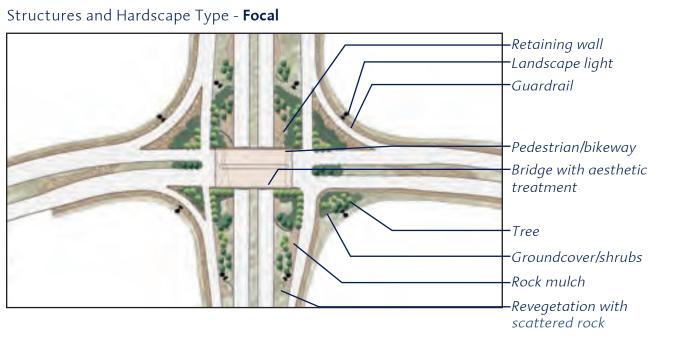
L&A Cost: \$0.00/acre

Total Cost: \$2,100,000 (infield landscape and bridge deck)

L&A Cost: \$315,000/acre

FIGURE 23 - FREEWAY OR ELEVATED HIGHWAY INTERCHANGES

Softscape Types - Regionally Adapted



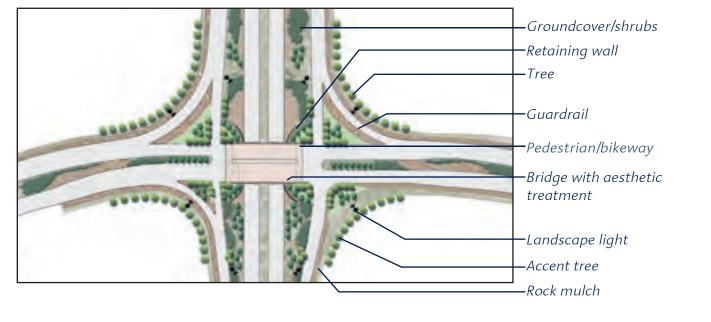
Total Cost: \$2,890,000 (infield landscape and bridge deck)

L&A Cost: \$1,105,000/acre

FIGURE 24 - FREEWAY OR ELEVATED HIGHWAY INTERCHANGES

Softscape Types - **Regional Ornamental**

Structures and Hardscape Type - ${\bf Landmark}$



Total Cost: \$4,200,000 (infield landscape and bridge deck)

L&A Cost: \$2,415,000/acre

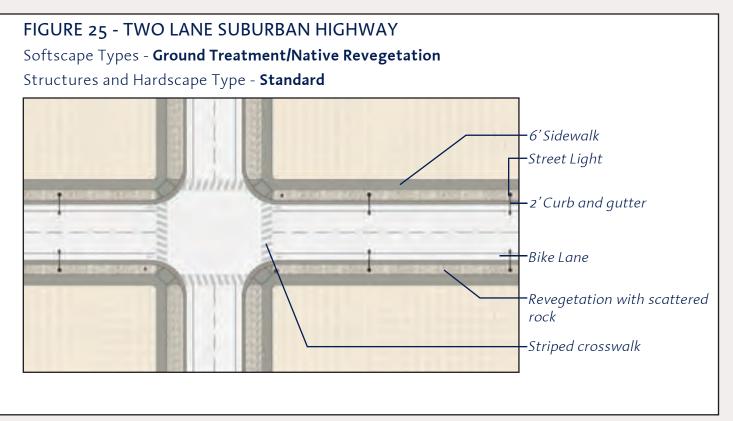


FIGURE 26 - TWO LANE SUBURBAN HIGHWAY

Softscape Types - Enhanced Native

Structures and Hardscape Type - Accentuated

6' Sidewalk

Street Light

2' Curb and gutter

Street trees

Shrubs and groundcovers

Bike Lane

Revegetation with scattered rock

Bus stop with bench (turn out lane recommended)

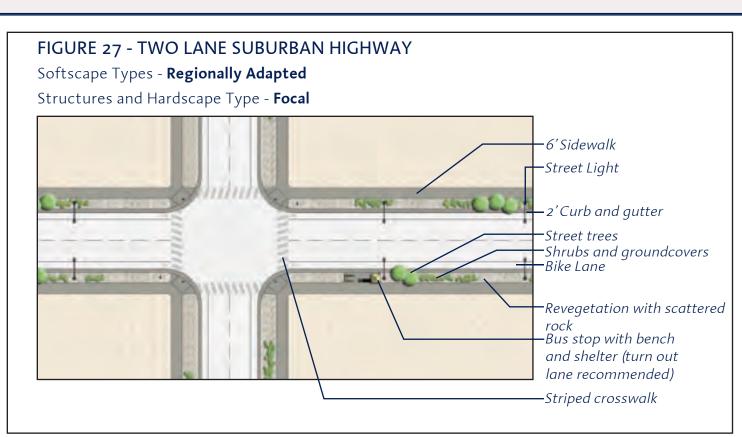
Striped crosswalk

Total Cost: \$1,627,000 - \$1,908,000/mile of ROW

L&A Cost: \$0.00 per mile

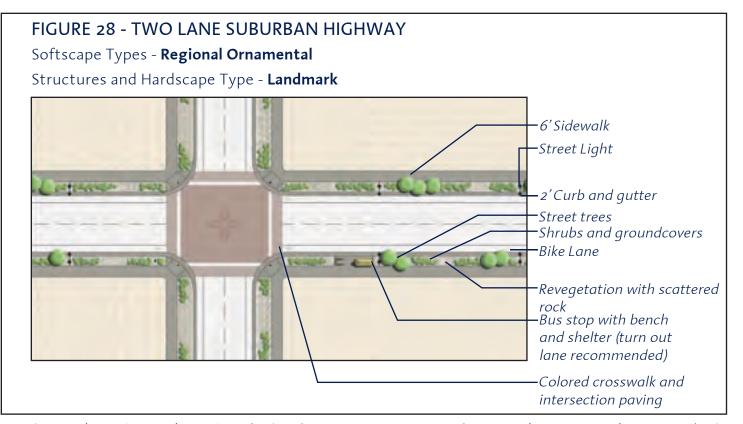
Total Cost: \$1,696,000 - \$2,025,000/mile of ROW

L&A Cost: \$69,000 - \$117,000/mile



Total Cost: \$2,128,000 - \$2,509,000/mile of ROW

L&A Cost: \$501,000 - \$601,000 per mile



Total Cost: \$2,846,000 - \$4,336,000/mile of ROW

L&A Cost: \$1,219,000 - \$2,428,000/mile

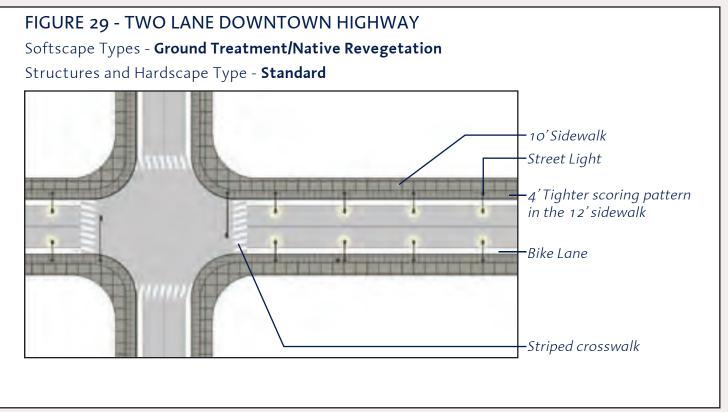


FIGURE 30 - TWO LANE DOWNTOWN HIGHWAY Softscape Types - **Enhanced Native** Structures and Hardscape Type - Accentuated 10'Sidewalk -Street Light 4'Tighter scoring pattern in the 12' sidewalk Bike Lane -Bench and pedestrian amenities -Street Tree -Striped crosswalk

Total Cost: \$3,148,000 - \$3,644,000/mile of ROW

L&A Cost: \$0.00/mile Total Cost: \$3,419,000 - \$3,973,000/mile of ROW

L&A Cost: \$271,000 - \$329,000/mile

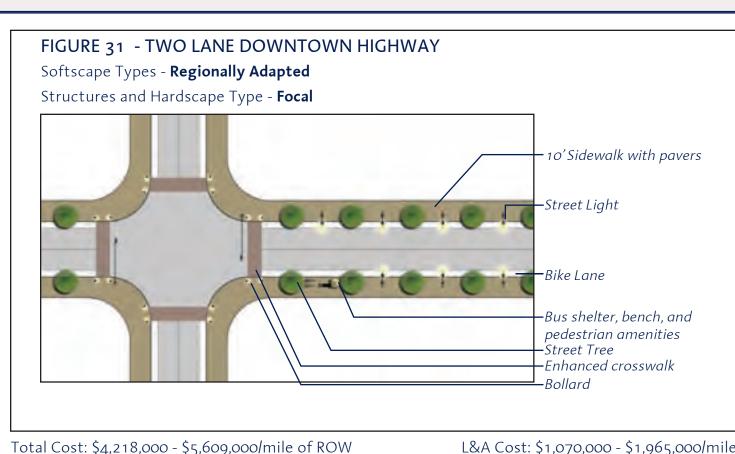


FIGURE 32 - TWO LANE DOWNTOWN HIGHWAY Softscape Types - Regional Ornamental Structures and Hardscape Type - Landmark 10' Sidewalk with pavers and stone -Street Light -Street Tree Bike Lane -Bus shelter, bench, and pedestrian amenities -Enhanced crosswalk and intersection paving -Bollard

L&A Cost: \$1,070,000 - \$1,965,000/mile

Total Cost: \$5,579,000 - \$8,089,000/mile of ROW

L&A Cost: \$2,431,000 - \$4,445,000/mile

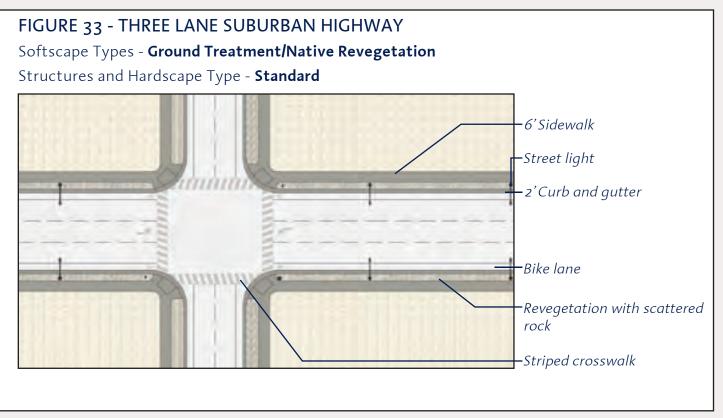


FIGURE 34 - THREE LANE SUBURBAN HIGHWAY
Softscape Types - Enhanced Native
Structures and Hardscape Type - Accentuated

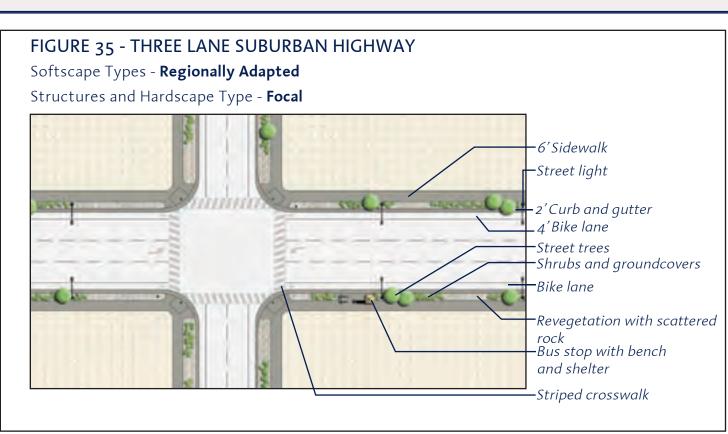
6' Sidewalk
Street light
-2' Curb and gutter
-4' Bike lane
-Street trees
-Shrubs and groundcovers
-Bike lane
-Revegetation with scattered rock
-Bus stop with bench
-Striped crosswalk

Total Cost: \$1,647,000 - \$1,934,000/mile of ROW

L&A Cost: \$0.00/mile

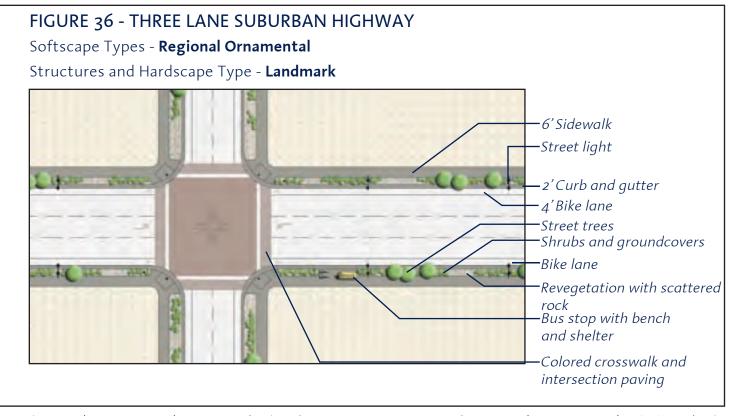
Total Cost: \$1,706,000 - \$2,033,000/mile of ROW

L&A Cost: \$59,000 - \$99,000/mile



Total Cost: \$2,150,000 - \$2,535,000/mile of ROW

L&A Cost: \$503,000 - \$601,000/mile



Total Cost: \$2,982,000 - \$4,550,000/mile of ROW

L&A Cost: \$1,335,000 - \$2,616,000/mile

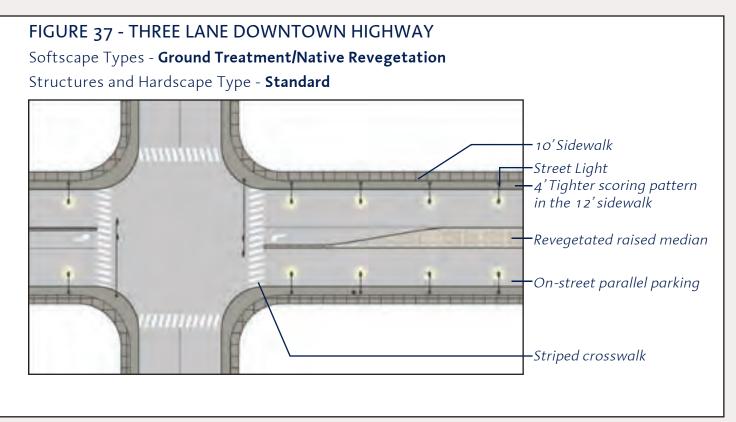


FIGURE 38 - THREE LANE DOWNTOWN HIGHWAY

Softscape Types - Enhanced Native

Structures and Hardscape Type - Accentuated

10' Sidewalk

Street Light

4' Accentuated paving area in the 12' sidewalk

Raised median and enhanced native planting

On-street parallel parking

Bench and pedestrian amenities

Street Tree

Striped crosswalk

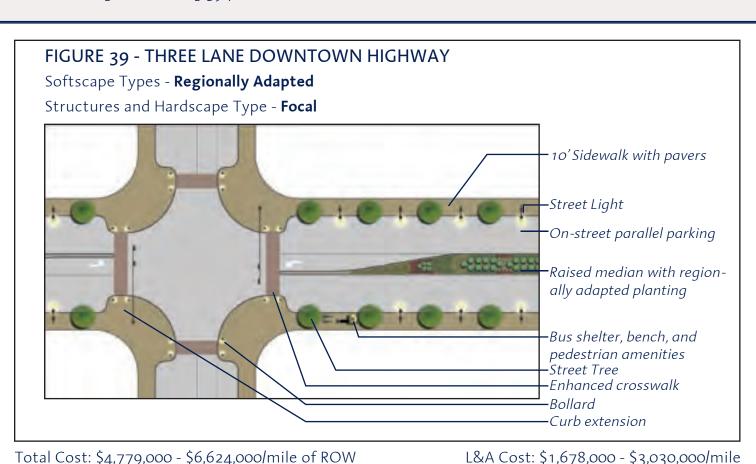
Curb extension

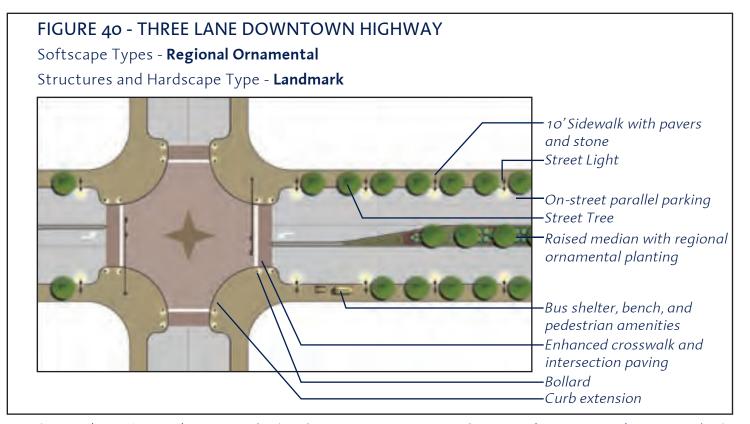
Total Cost: \$3,101,000 - \$3,594,000/mile of ROW

L&A Cost: \$0.00/mile

Total Cost: \$4,385,000 - \$4,990,00/mile of ROW

L&A Cost: \$1,284,000 - \$1,396,000/mile





Total Cost: \$5,926,000 - \$7,411,000/mile of ROW

L&A Cost: \$2,825,000 - \$3,817,000/mile

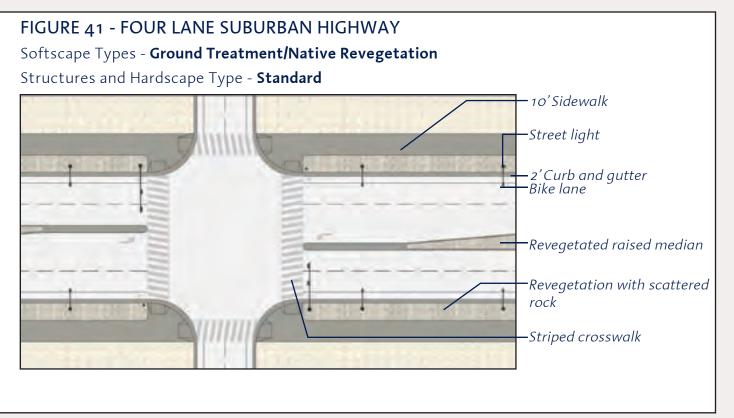


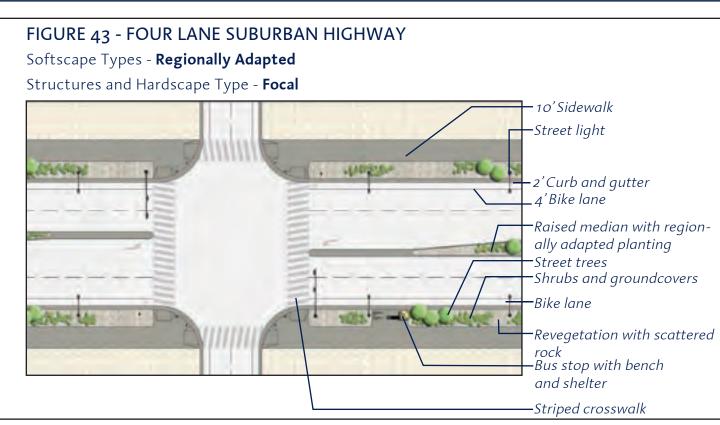
FIGURE 42 - FOUR LANE SUBURBAN HIGHWAY Softscape Types - **Enhanced Native** Structures and Hardscape Type - **Accentuated** · 10' Sidewalk -Street light 3970 – 2' Curb and gutter -4'Bike lane -Raised median with enhanced native planting -Street trees *Shrubs and groundcovers* Bike lane Revegetation with scattered -Bus stop with bench -Striped crosswalk

Total Cost: \$2,479,000 - \$2,916,000/mile of ROW

L&A Cost: \$0.00/mile

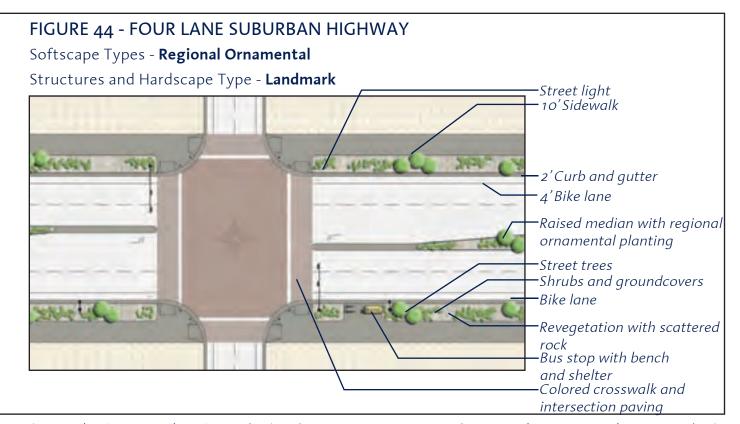
Total Cost: \$2,621,000 - \$3,113,000/mile of ROW

L&A Cost: \$142,000 - \$197,000/mile



Total Cost: \$3,465,000 - \$4,038,000/mile of ROW

L&A Cost: \$986,000 - \$1,122,000/mile



Total Cost: \$4,619,000 - \$7,165,000/mile of ROW

L&A Cost: \$2,140,000 - \$4,249,000/mile

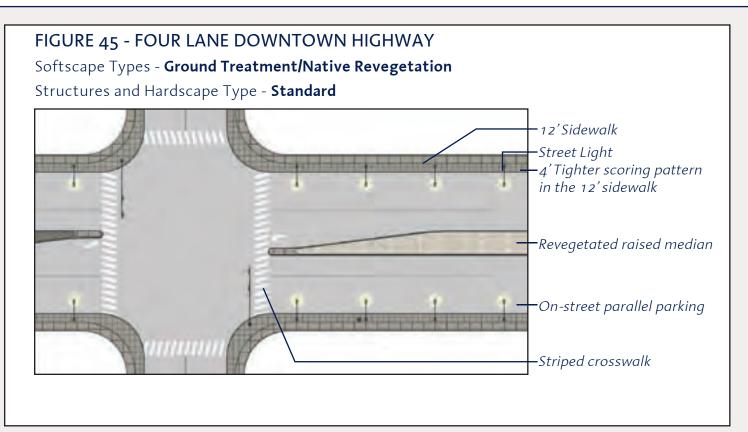


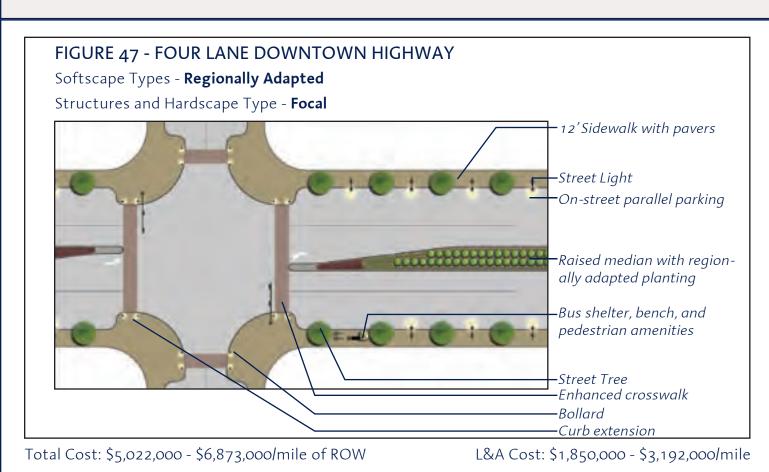
FIGURE 46 - FOUR LANE DOWNTOWN HIGHWAY Softscape Types - **Enhanced Native** Structures and Hardscape Type - Accentuated - 12' Sidewalk -Street Light 4'Accentuated paving area in the 12' sidewalk -Raised median and enhanced native planting On-street parallel parking Bench and pedestrian amenities -Street Tree -Striped crosswalk -Curb extension

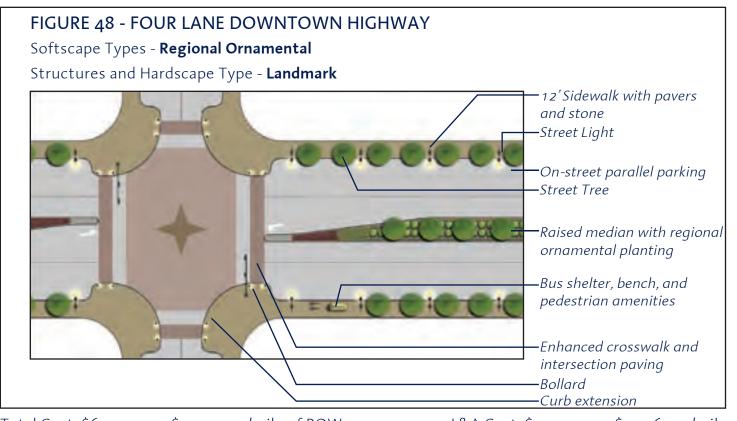
Total Cost: \$3,172,000 - \$3,681,000/mile of ROW

L&A Cost: \$0.00/mile

Total Cost: \$4,495,000 - \$5,124,000/mile of ROW

L&A Cost: \$1,323,000 - \$1,443,000/mile



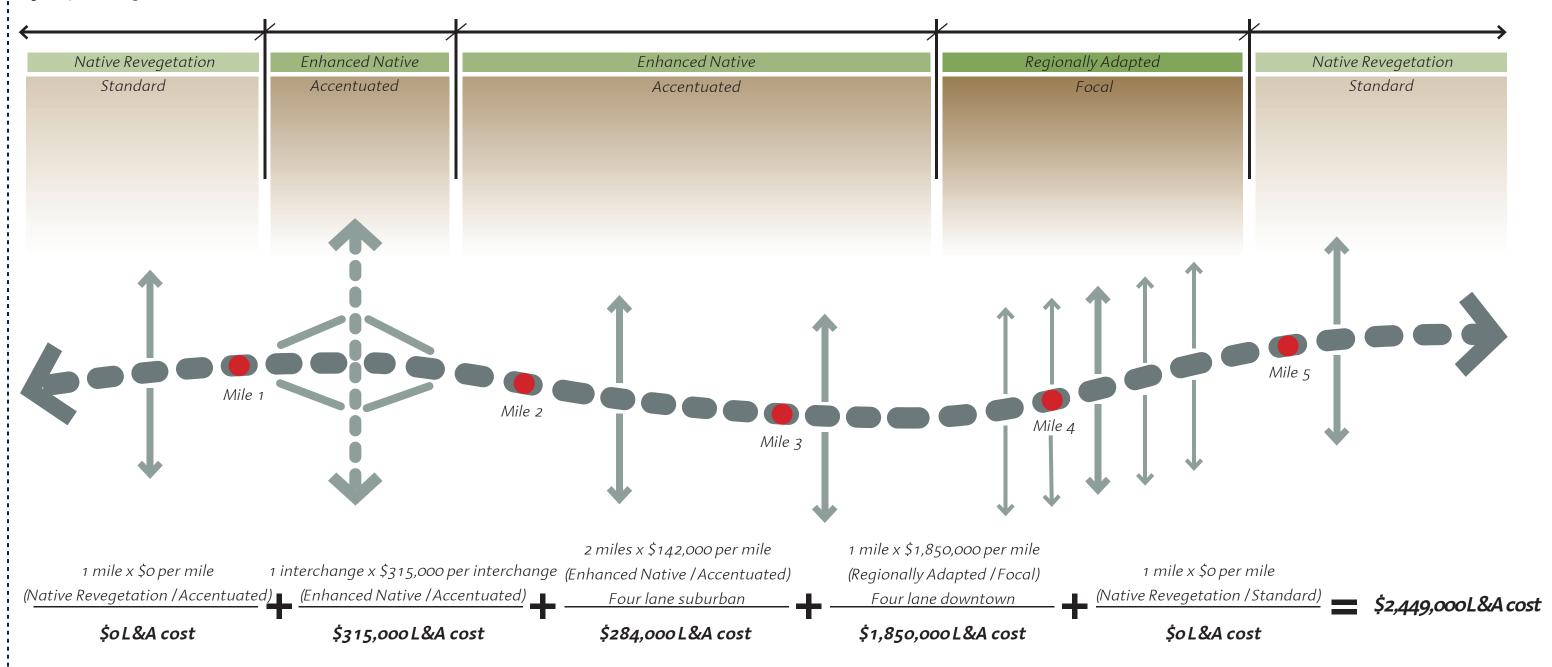


Total Cost: \$6,319,000 - \$9,437,000/mile of ROW

L&A Cost: \$3,147,000 - \$5,756,000/mile

The diagram below shows how the cost estimate information can be used to determine a planning level estimate of the landscape and aesthetics costs for this hypothetical seven mile section of highway corridor. The costs shown are for landscape and aesthetic enhancements that are above the defined NDOT standard.

Figure 49 - Planning Level Cost Estimate



MAINTENANCE COSTS

The Corridor Plan identifies the level of landscape and aesthetic treatment, and the maintenance investment. Therefore, it is important that maintenance cost data be incorporated in the Corridor Plan. Furthermore, local public agencies and others will be interested in maintenance expenses to help navigate the long-term maintenance implications of retrofit projects.

In collaboration with the Corridor Plan, long-term maintenance costs have been researched by UNLV and compiled as the *Maintenance Cost Study for Corridor Planning*. Figure 50 diagrams how total life-cycle maintenance costs were developed for the different landscape and aesthetic treatments. Figure 51 shows the maintenance costs that were determined for the various combinations of soft-scape and hardscape types. Current estimates exhibit relatively wide variations in cost due to the limited amount of data available, however, further research and tracking of projects will result in more clearly defined maintenance cost estimates.

Figure 50 - Total Life Cycle Maintenance Costs

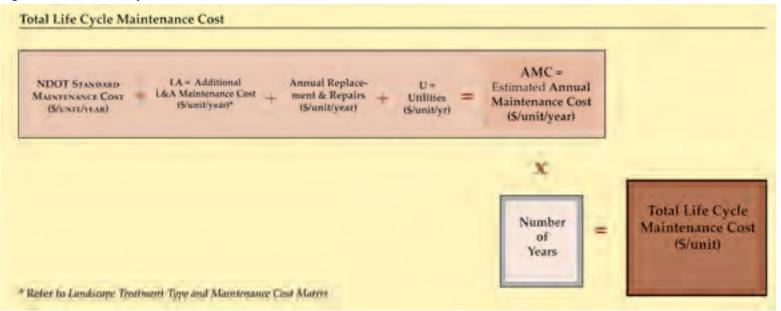


Figure 51 - Maintenance Costs for Landscape Treatment Types

| Treatment Type | | Hardscape | | | |
|-------------------|--|--|--|--|---|
| | | Standard | Accentuated | Focal | Landmark. |
| | Ground Treatment | High: \$4,655.11 Median: \$655.70 Low: \$520.00 | High: \$2,383.19 Low: \$1,524.00 | \$588.00 (based on one project, Cedar City) | Not Available |
| | Native Plant Revegetation | \$720.00* | 51,676,40* | \$650,00* | Not Available* |
| Softscape | Enhanced Native | \$1,201.12 (based on one project only) | 51,089.87 (based on one project only) | Entire Rest Area: High: \$\$49,200.00 Luw: \$29,374.00 | Welcome Center Memorial Pt. Cost not available |
| Soft | Regionally Adapted | High: \$15,840.00 Median: \$3,116.88 Low: \$673.02 | High: \$15,242,45 Median: \$5,445.00 Low: \$1,448.67 | \$3,054.55 (based on one project only) | Not Available |
| | Regional Ornamental | High: 511,775.11 Median: 57,200.00 Low: 5433,33 | High: \$8,500.00 Median: \$3,425.74 Low: \$2,279.59 | \$3,005.00 (based on one project only) | 5197,846.36 (based on one project only) |
| | Turt | High: \$12,325.46 Median: \$6,057.00 Low: \$1,529.79 | \$13,178.57 (based on one project only) | High: \$10,363,13 Low: \$3,135,00 (based on two projects, only) | High: \$9,214.70 Median: \$8,391.49 Low: \$3,325.82 |
| edian | ingle project with high Distribution of proje ngle project with lowe | cis between high and low on | ii. * Natural i | es are per acre annual costs a Revegetation costs are assumed to categories costs. | Marie Marie Company |

All entries are planning level estimates based on limited available data.

NOTE: Utilities and Repair & Replacement are not included in number



^{*} Prepared by UNLV Landscape Architecture and Planning Research Office



(1) Partnerships with agencies such as the BLM and USFS, as well as local communities and governing agencies enhance the ability to manage the corridor's scenic quality and maintain the open character along a highway.

SECTION TWO: Implementation

POTENTIAL FUNDING OPPORTUNITIES

Many opportunities exist to provide funding for the implementation of the corridor projects. Features described as standard will be undertaken by NDOT as new construction, capacity improvements, and replacement of facilities occurs. Upgrades to the standard landscape and aesthetic features will be considered as new highway construction occurs. Funding for new landscape and aesthetic projects associated with the state's highway program will be provided by State and Federal sources. Up to 3% of the total project construction cost may be allocated for landscape and aesthetic improvements associated with all new construction and capacity improvements.

When a landscape and aesthetics project can significantly influence an adjacent community or area, the community may choose to be involved in the process, and participate. The matching funds program provides matching funds up to 50% of the cost for specific community projects. In-kind services, State, and Federal monies may be used for the community match.

Additionally, communities may request enhanced levels of landscape and aesthetic treatments. Capital cost and maintenance cost-sharing agreements with NDOT are required. Communities may also require that developers with properties located directly adjacent to the NDOT right-of-way follow the Corridor Plan recommendations to improve their areas.

Banking landscape and aesthetic project funds is encouraged. In so doing, NDOT can shift landscape and aesthetics money to priority areas needing landscape and aesthetic treatment. The capacity to re-allocate funds allows NDOT to broadly manage landscape and aesthetics on a corridor-wide basis.

Facilities such as rest area and view pull-offs will require NDOT funding. However, funding partnerships with other agencies and organizations are encouraged. Other partnership opportunities include the development of the Statewide Place Name Sign Program and Audio Interpretation Program. With these two programs promoting statewide tourism, a partnership between NDOT and Nevada Commission on Tourism (NCOT) could succeed. Private sector partners, including the Nevada Mining Association and the Nevada Ranchers Association. could also be enlisted.

A Main Street Program in Nevada could assist numerous communities in downtown beautification and economic development efforts. This program could be anchored at the state level, with an organization such as the Nevada Commission on Economic Development. Funding could be provided by community chambers of commerce or other direct sources.

Project and programs described in the Corridor Plan are outlined in figure 52 along with opportunities for potential partnerships, suggested lead agency, and potential funding sources. Counties, cities, agencies, and other organizations should be familiar with the Corridor Plan and coordinate community plans, master plans, and other governing documents in order to provide an integrated approach towards achieving the vision and goals set forth. Active participation and review of the Corridor Plan, coordinated with a review of other community documents, will increase the potential for action and success.



Figure 52 - Potential Funding Opportunities

| Projects and Programs | Lead Agency | Coordinating Agency | Possible Funding Sources |
|--|--|---|---|
| Community Gateways | Community | NDOT | Enhancement Fund, Community Match |
| Upgrade Downtown Streetscape | Community | NDOT | Enhancement Fund, Community Match, Landscape and Aesthetics up to 3% for new construction |
| Upgrade Suburban Streetscape | C o m m u n i t y (with Developer support) | | Enhancement Fund, Community Match, Landscape and Aesthetics up to 3% for new construction |
| Upgrade Rural Streetscape | C o m m u n i t y (with Developer support) | | Enhancement Fund, Community Match, Landscape and Aesthetics up to 3% for new construction |
| Pedestrian Crossings | NDOT | Community | Enhancement Fund, Community Match, Landscape and Aesthetics up to 3% for new construction, Developers building adjacent the ROW |
| Standard Sidewalk | NDOT | Community | NDOT funding |
| Enhanced Sidewalk | Community | NDOT | Enhancement Fund, Community Match, Landscape and Aesthetics up to 3% for new construction, Developers building adjacent the ROW |
| Street Trees and Planting Strips | Community | NDOT, NDF | Enhancement Fund, Community Match, Developers building adjacent the ROW, NDF plant supply |
| Community Lighting | Community | NDOT | Enhancement Fund, Community Match, Developers building adjacent the ROW |
| Community Rest Areas | Community | NDOT | Enhancement Fund, Community Match |
| Community Environmental Graphics | Community | NCOT | Enhancement Fund, Community Match |
| Statewide Gateways | NDOT | County and Communities | Enhancement Fund, NDOT funding sources |
| Roadside Services | NDOT | NDSP | NDOT funding sources |
| Statewide Place Recognition Sign Program | NDOT | NCOT | NDOT funding sources, NCOT grant |
| Audio Interpretation Program | NDOT | NCOT | NDOT funding sources, NCOT grant |
| Transportation Art | Community | NDOT | Enhancement Fund |
| Color Palette Retrofit of Existing Facilities | NDOT | Community | Enhancement Fund, Community Match |
| Non-Motorized Transportation Systems | Community | NDOT | Landscape and Aesthetics up to 3% for new construction, SAFETEA-LU |
| Standard Highway Facilities | NDOT | | Landscape and Aesthetics up to 3% for new construction |
| Enhancements to Highway Facilities above what the 3% would Achieve | NDOT | Community | Enhancement Fund, Community Match, Developers building adjacent the ROW |
| Wildlife Crossings and Protection | NDOT | NDW | Landscape and Aesthetics up to 3% for new construction, NDW grant |
| Main Street Approach | Community | NDOT, Nevada Com- mission on Economic Development | |
| Native Wildflower Program | NDOT | | Surface Transportation and Uniform Relocation Assistance Act, Landscape and Aesthetics up to 3% for new construction |
| Anti-littering Campaign | NDOT | Communities | NDOT funding |
| Scenic Highway Designation | NDOT | | NDOT funding |
| Rest Area and Shuttle System in the Tahoe Basin | NDOT | NDSP, USFS, TRPA | Southern Nevada Land Planning Management Act |
| | l . | 1 | I. |

NDF – Nevada Division of Forestry NDSP – Nevada Division of State Parks NDW – Nevada Division of Wildlife USFS – United States Forest Service

NCOT – Nevada Commission on Tourism

TRPA – Tahoe Regional Planning Agency

SECTION THREE: Priorities

This section describes priority levels for projects within the landscape design segments. The priority levels are based on current capital improvements, as well as landscape and aesthetics planning. They are intended to act as a guide and represent those projects the Corridor Planning team recommends as having the greatest potential impact on the aesthetics of the entire corridor. The priorities identified in this chapter are subject to change according to the availability of funds for individual project improvements. Capital projects are significantly influenced by the availability of funding.

First priority is given to highly visible and identifiable projects and sections of road, areas of significant and immediate quality, and projects that are currently in progress. Second priority applies to projects that will provide additional benefits and aesthetics as part of the long range plan. Third priority is given to areas that currently display a reasonable level of aesthetic quality and, upon enhancement, will complete the landscape and aesthetics program for their particular Landscape Design Segment. General comments received from the public and TRC members influenced the designation of priorities.

The following activities have been selected as high priorities because of the immediate and significant impact they will have on the overall aesthetics and sense of place for the entire corridor.

- Enhancing the community and highway compatibility.
- Providing flexibility for streetscape improvements within urban areas.
- Retrofitting existing structures and hardscape elements through painting/ staining. Creating a unified highway system using color and other features represents a major step towards place-making.
- Improving the roadway features in the Lake of the Sky Design Segment. The roadways within, and entries into, the Tahoe Basin represent areas of elevated visibility and importance.

Wildlife movement corridors are an important component of the corridor environment. Recommendations to analyze wildlife corridor movement and provide improved crossing structures are listed as medium priority due to the large capital cost. However, a few specific crossing areas are designated as first priority due to current crossing use and the importance of providing wildlife with safe and contiguous habitat connections. Community gateway establishment is noted as a second priority unless a project is underway because many communities have existing entry signage.



