

NDOT Landscape and Aesthetics Program

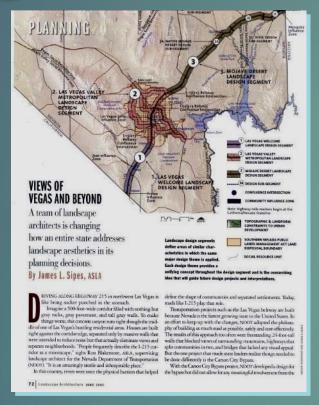


December 14, 2015





Landscape and Aesthetics Master Plan



The Nevada Transportation Board adopted the Master Plan in 2002

- Vision
- Policies
- Process
- Funding

Landscape Architecture Magazine

"Landscape and Aesthetics" involves the total visual impression of the highway, encompassing landform, structures, plants, colors, textures and art.

A Vision For the State Highway System







We envision a system of state highways that reflect the land and people of Nevada.

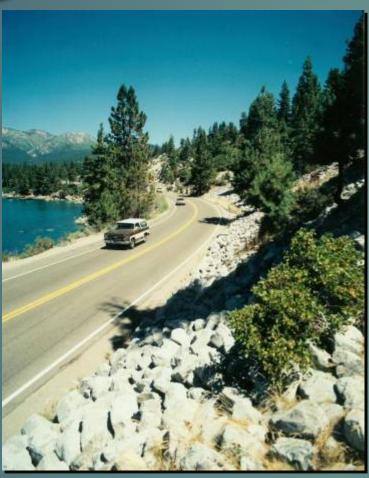
We believe that Nevada should have highways that are aesthetically pleasing, as well as safe and cost effective.

Therefore, no state highway is complete until landscape and aesthetics are considered and addressed.





Statewide Policies



Landscape and Aesthetics Policy

"...landscape and aesthetics will be considered along with all other design factors in all transportation projects throughout their life cycles."

Policy on Partnerships

"...principles of context-sensitive design guide the development of transportation projects."

Policy for the NDOT Landscape and Aesthetics Program

"...emphasize regionally appropriate materials and drought-resistant plants."

Policy on Funding

"...develop cooperative agreements for funding the design, construction, and maintenance of landscape and aesthetic improvements."





Process



- Master Planning sets statewide policy, and establishes broad guidelines and process.
- Corridor Planning provides a management tool for decision making.
- Project Design fixes the details of what actually gets built at a specific site.
- Construction, Operations, and Maintenance ensure that highways are managed in a manner consistent with the design intent.



Funding

Five types of activities have been funded to ensure a successful landscape and aesthetics program.

1.

PROGRAM MANAGEMENT

Costs of NDOT staff to oversee the program.

2.

CORRIDOR PLANNING

Costs associated with public involvement and planning consultants.

NFW CONSTRUCTION & CAPACITY IMPROVEMENTS

3.

Costs of landscape and aesthetic treatments included in the budget when a highway is first constructed or expanded.

RETROFITTING

Costs of landscape and aesthetic treatments added to existing highways through local partnering.

Up to \$2 M/yr in matching funds.

* \$5 M/yr in target allocation

5.

MAINTENANCE

Costs of long-term activities to protect the public's investment in landscape and aesthetic treatments such as pruning, replacing plants, painting, and irrigating.

NDOT Budget

NDOT Budget

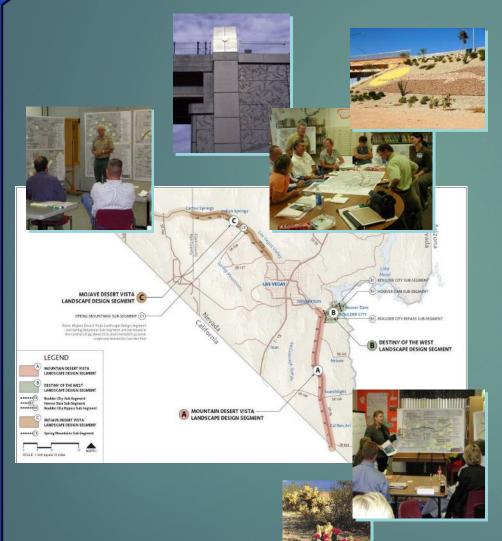
3% of Construction

Community Match - Target Allocation **NDOT & Local Funds**





Landscape and Aesthetics Corridor Plans



- Promote community involvement in decision making process
- Initiate intergovernmental cooperative planning and agreements
- Determine major design themes, levels of treatment, and cost goals for the corridor
- Prioritize landscape and aesthetic projects for future development, design and construction
- Estimate long-term maintenance costs and establish overall program budgets







/-80 landscape and aesthetics corridor plan



US 395, West US 50, SR 28, SR 207 and SR 431 landscape and aesthetics corridor plan



Central US 95, West US 6, and Central US 50 landscape and aesthetics corridor plan







1-15 landscape and aesthetics corridor plan



Southern US 95 and US 93 landscape and aesthetics corridor plan



















Levels of Landscape Treatment Softscape Treatment Types











Levels of Landscape Treatment

Hardscape Treatment Types



Standard



Accentuated



Focal



Landmark



Sustainability

Three Pillars of Sustainability

- Economic Prosperity
 - Completion of an NDOT Landscape and Aesthetics project can involve as many as 20 different professional disciplines in fields ranging from biology to welding.
- Environmental Protection
 - Practices include using drought tolerant vegetation, water harvesting, erosion control, revegetation including cactus salvage and replanting and protection and creation of wildlife habitat.
- Social Justice
 - Projects help communities maintain a sense of pride, improve property values, attract business and reduce graffiti.



Sustainable Applications

Cactus Salvage and Replanting

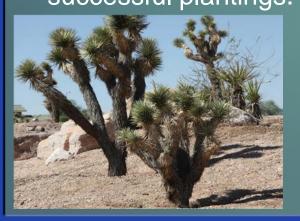
Salvaging native cacti protects endangered cactus, allows for replanting on projects

Native Seed Mixes/Native Plants

Require less water to germinate and thrive in Nevada's climates with little maintenance and no long term irrigation.

Soil Amendments

Helps with water retention at the plant's roots and supply nutrients for more successful plantings.









SUSTAINABLE APPLICATIONS:

Water Harvesting:

Reduces stormwater runoff volume from paved surfaces, reduces peak discharge rates, increases recharge through infiltration, and reduces pollutant transport through direct infiltration.

A 6,000-square-foot paved site in Northern Nevada produces more than 32,660 gallons of annual runoff.

Local Materials:

Require less energy to transport than those brought in from long distances and better suit the projects aesthetically.



Water harvesting basins, Meadowood Mall Way, Reno.





Vision to Reality I 15 Design Build /South



FEATURED RESIDENTS









- Setting 3: 1215/1215 Interchange These opcodumbs in this trisvolving celebrate the Desert Bighorn Sheep and wild horses that noise this area horse with somes of sheep overlooking custon "earth wall" and nock outcoppings and with formes in action.



THEMED METAL WORK AND HARDSCAPE













PROJECT

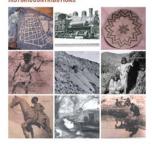
CONCEPT AND VISION

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Applying the design objectives, this concept uses landscape and aesthetic treatments ranging from re-establishing native conditions to artistic metal and concrete forms.

HISTORICCONTRIBUTIONS



ATKEY CORRIDOR LOCATIONS

- Setting 2s 300 SC to 1700 AD Warm Springs trapped Hypers there
 represents the early hobitation of the Anousci and Namigo Indians to the somodic
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 adjacent hits and indian images known for hunting small game with bows and
 consols for switching.
- common to across.

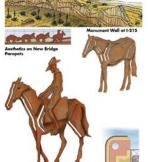
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- Setting 4: 1860 to 1873 Sunset bridge crossover there represents the beginnings of Nutroic lead are mining in the Polosi Mine in the Spring Mountain area and delivering it via burra to a smelter in Las Vegas.
- 5. Setting 5: 1905 The LIPRE creating arethetics play on the ratiood thems where a line from 50t fails City reduce it and coerection have in fail regions to a fail before for engine records and refusing the set of the setting for engine records and refusingly with wood and weet from the "Spring." This is the last havined fary time notice before fail "Rights Blooms with facility and later garning leading to the finest absolution.

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- 7. Setting 7: Hackenda Bridge crossover This bridge crossing has no walls as it reaches post the traffic laxes on each side to a further point. Assistance applied to the chain liek fencing provide consistency with the Russell Road structures.

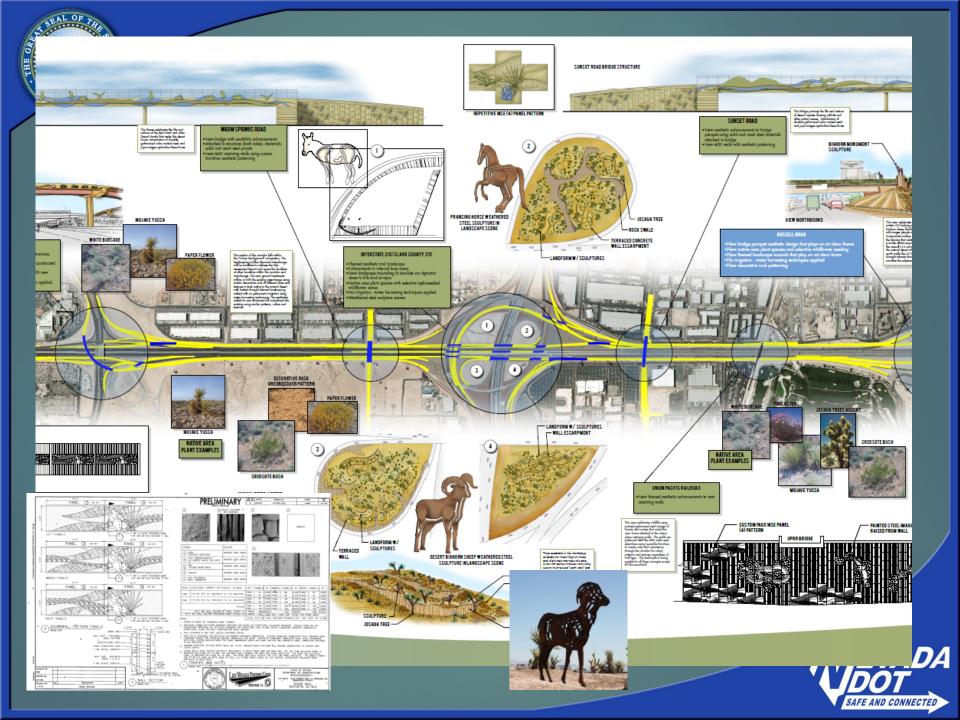
THEMED METAL WORK AND HARDSCAPE

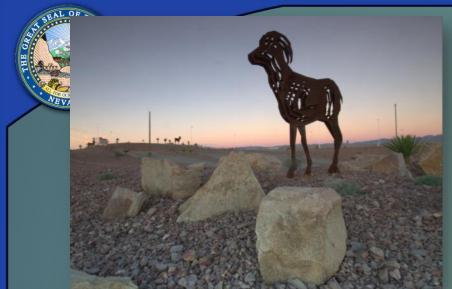
Hardscape treatments shape the aesthetic character with the old of accents and thisties. These treatments are applied throughout the project area with consistent of materials and textures that tie together with other areas of the consider.

















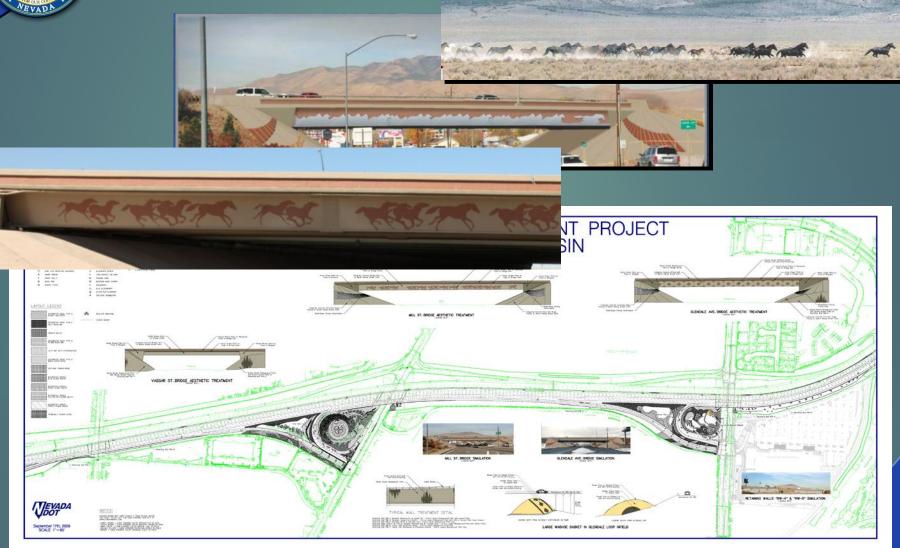








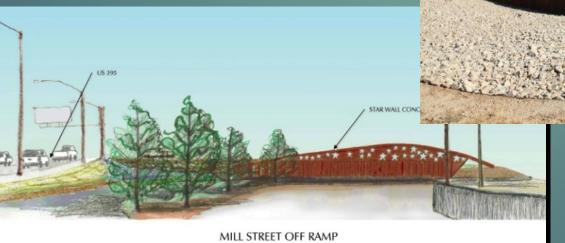
Visions to Reality US 395 Widening





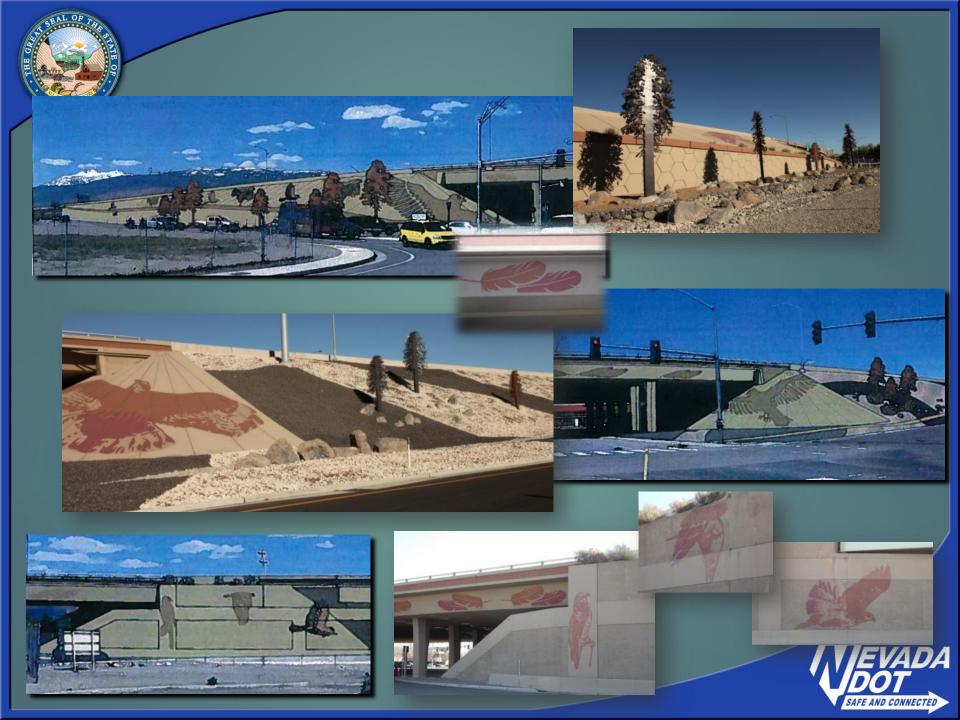






FACING NORTH





























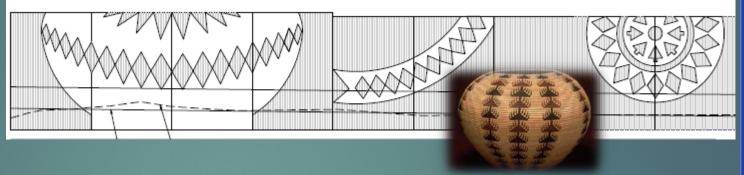


Rural Nevada

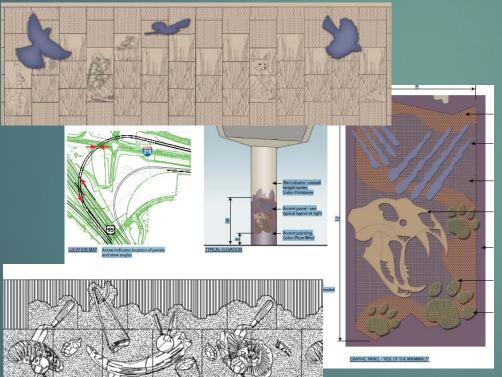




Upcoming Projects



NEON



US 95/CC 215 Interchange I 580 Carson



US 95 Package 2A







Benefits

Beautiful, site-appropriate highways contribute to Nevada's economic vitality and enhance the quality of life of its residents.

- Employs local professionals and firms, from landscape architects and engineers, biologists to artists
- Employs individuals and companies in multiple and varied construction and fabrication fields
- Reduced graffiti
- Provides site stabilization for water quality and air quality; reduces soil erosion
- Restores native vegetation and protects wildlife habitat
- Provides welcoming environment to our tourist-driven economy
- Provides improved quality of life for locals
- Provides "curb appeal" for attracting new businesses and residents, for a diversified economic base

Acknowledgements



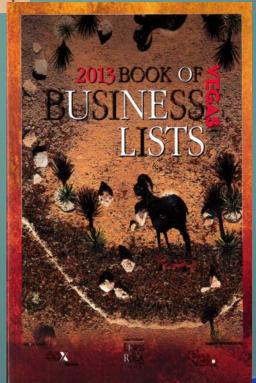
"Another part of all these projects might be a bit more subtle but also is important. That's the effort - and money -- that NDOT and other agencies have committed to public art to go along with the road improvements. It's a recognition that road building doesn't have to create a blight on the landscape but can instead beautify the community visually, too.

They've succeeded."

RGJ editorial

"When you see public art instead of a bunch of weeds, it shows we're trying to present ourselves in a certain way, that we take your business seriously and we take this community seriously. Public art elevates and challenges people. It soothes and encourages."

Reno artist Paolo Cividino RGJ Reno Rebirth







"It is so lovely to see the painted concrete decorations, the magnificent statuary and the beauty created with just rock and gravel. Thank you so much for cleaning up the trash and weeds and making our roads something to be proud of and appreciated. It shows we care about our city and how we appear to ourselves and others."

Public Approval

"...how pleased we are with the facelifts and improvements you have given the freeways."

"The overpasses and wall artwork and standards/monuments are so appealing. ... you have found a way to make the byways attractive and reflect the spirit of the West."



"Great job on the I-15 south project. I drove to the south valley yesterday to get a look at it and it's impressive ..."

"you are doing a great job in improving the freeways in the Las Vegas valley." "We would sometimes cringe at the arid open areas by the freeways and the graffiti covered overpasses. But with the new designs for the signage and the adornment you have incorporated, it really is a sight for tired eyes!!! And what an impact all of this must make on visitors to our area...it shows local pride."



"...landscape and aesthetics components to leave a good impression for our visitors and residents."

"I want Texas to look like Texas, and Vermont to look like Vermont," she once said. "I just hate to see the land homogenized."



