

PIN: 11350 | I-15 PAYSON MAIN STREET INTERCHANGE

LANDSCAPE & AESTHETICS BETTERMENT OPTIONS PACKAGE

JANUARY 2024

DRAFT

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TYPICAL PROJECT STANDARDS AND AESTHETICS POLICIES

BASELINE TREATMENTS/PROJECT STANDARDS

LANDSCAPE

- PARK STRIP TREATMENTS: STAMPED AND COLORED CONCRETE OR SEED MIX
- MEDIAN TREATMENTS: STAMPED AND COLORED CONCRETE OR SEED MIX
- CUT/FILL SLOPES: TOPSOIL, SEED MIX, AND HECP
- INTERCHANGE GORE AREAS: TOPSOIL, SEED MIX, AND HECP

LIGHTING, SIGNAGE, AND SIGNALIZATION

- UDOT STANDARD LIGHT POLES
- UDOT STANDARD SIGNAL POLES
- UDOT STANDARD SIGN POLES

INTERCHANGE AREAS

- STANDARD MSE PANELS TO MATCH CORRIDOR STANDARDS
- STANDARD COLORS TO MATCH CORRIDOR STANDARDS
- STANDARD PARAPET TEXTURE TO MATCH CORRIDOR STANDARDS
- STANDARD CHAINLINK FENCE ON STRUCTURES WITH PEDESTRIAN FACILITIES

POTENTIAL BETTERMENTS/ENHANCEMENTS

LANDSCAPE

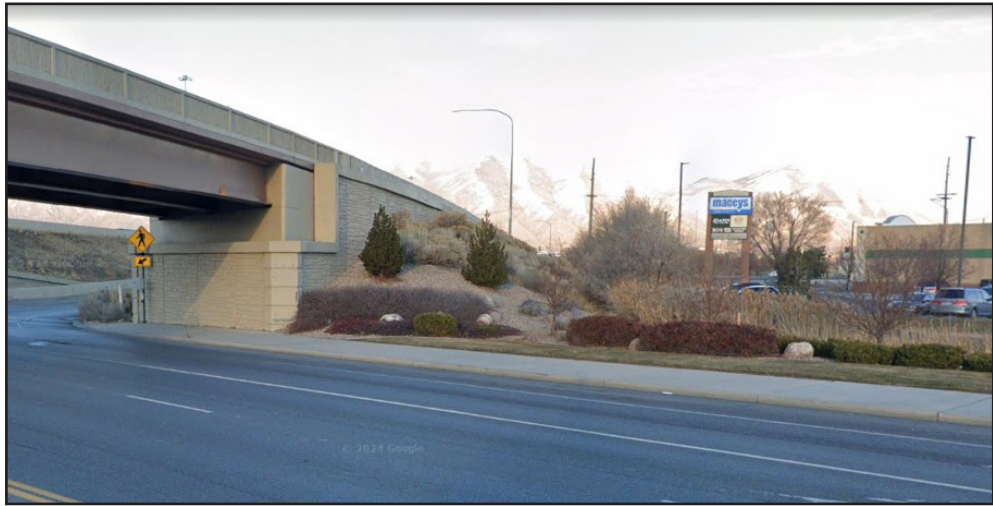
- TURF SOD
- IRRIGATION
- LANDSCAPE ROCK
- SHRUBS
- PERENNIALS
- TREES

LIGHTING, SIGNAGE, AND SIGNALIZATION

- POWDERCOATED LIGHT POLES
- DECORATIVE LIGHT POLES
- POWDERCOATED SIGNAL POLES
- POWDERCOATED SIGN POLES

INTERCHANGE AREAS

- LETTERING ON PARAPET
- DECORATIVE FENCE
- CITY MONUMENTS



GOOGLE EARTH IMAGE: LANDSCAPING AT I-15 SPANISH FORK MAIN INTERCHANGE



GOOGLE EARTH IMAGE: LANDSCAPING AT I-15 SPANISH FORK MAIN INTERCHANGE



GOOGLE EARTH IMAGE: LANDSCAPING AT I-15 SPANISH FORK MAIN INTERCHANGE



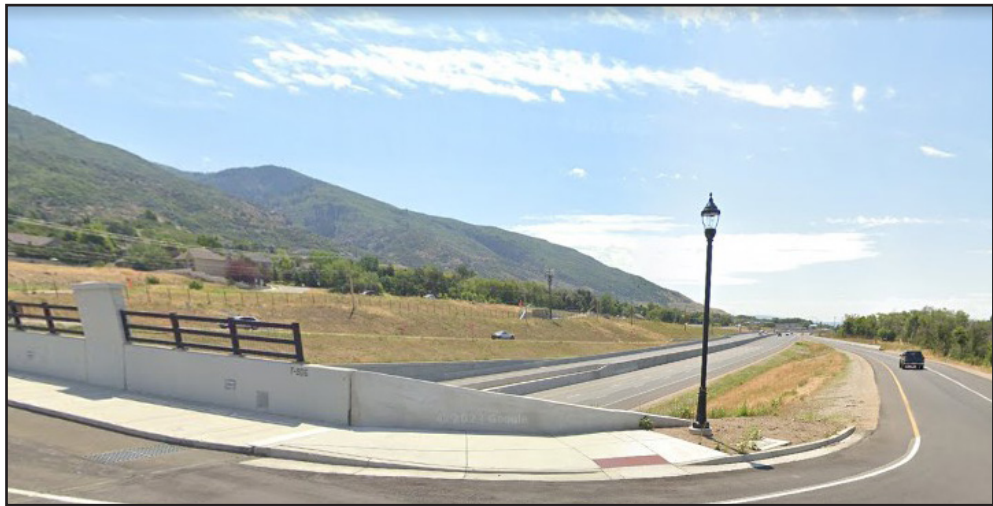
GOOGLE EARTH IMAGE: LETTERING ON PARAPET - BANGERTER HWY



GOOGLE EARTH IMAGE: DECORATIVE FENCE ON STRUCTURE - BANGERTER HWY



GOOGLE EARTH IMAGE: CITY LOGO ON STRUCTURE - BANGERTER HWY



GOOGLE EARTH IMAGE: DECORATIVE LIGHTING AT HWY 89 AND OAK HILLS DRIVE



GOOGLE EARTH IMAGE: MONUMENT SIGN AT I-15 SPANISH FORK MAIN INTERCHANGE



GOOGLE EARTH IMAGE: MONUMENT SIGN AT I-15 LAYTON CITY PARKWAY INTERCHANGE

THE IMAGES SHOWN ABOVE ARE BETTERMENT OPTIONS THAT HAVE BEEN INSTALLED IN VARIOUS LOCATIONS THROUGHOUT THE STATE.

INTERCHANGE AREAS AESTHETIC BETTERMENT CONSIDERATIONS

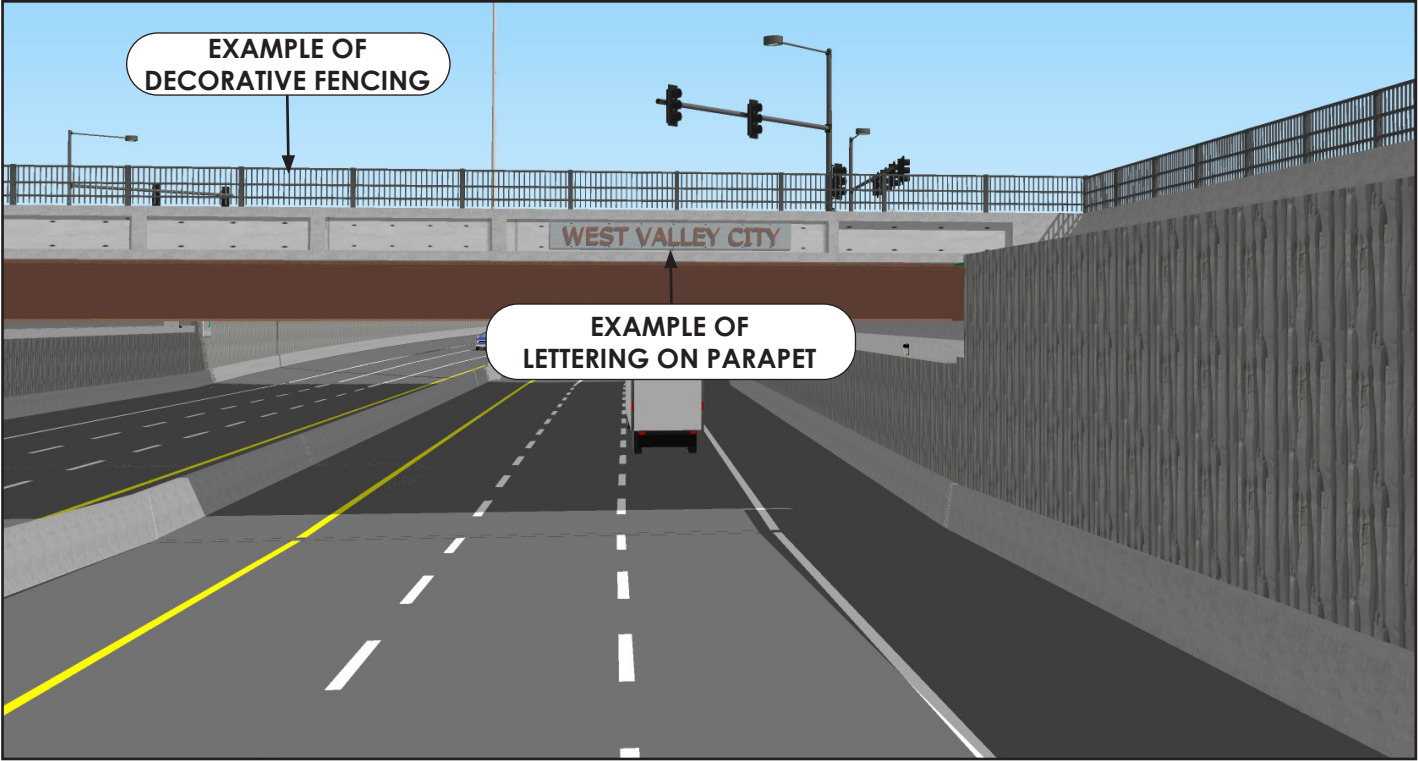
PROJECT MAP AND POTENTIAL BETTERMENT LOCATION



ESTIMATED COSTS

Interchange Aesthetics				
Misc (One Bridge Structure)				
Item	Unit	Unit Cost	Quantity	Overall Cost
Street Name in Parapet	EA	\$ 17,500.00	2	\$ 35,000.00
Decorative Fence	LF	\$ 300.00	500	\$ 150,000.00
Monument Sign	EA	\$ 35,000.00	2	\$ 70,000.00
Standard Fence	LF	\$ 80.00	500	\$ 40,000.00
Total Cost				\$ 255,000.00
Less Projected Baseline Costs				\$ 40,000.00
Total Aesthetic Betterment Cost				\$ 215,000.00

EXAMPLE PLAN



PLANS AND LAYOUTS ARE CONCEPTUAL FOR DISCUSSION PURPOSES AND DO NOT REFLECT EXACT LAYOUTS.

INTERCHANGE AREAS LANDSCAPE BETTERMENT CONSIDERATIONS

PROJECT MAP AND POTENTIAL BETTERMENT LOCATION



ESTIMATED COSTS















Interchange Landscaping (1 Interchange, 4 Gore Areas)				
Landscape Rock, Plantings, Irrigation, Curbing, Weed Barrier				






Item	Unit	Unit Cost	Quantity	Overall Cost
Irrigation	SF	\$ 2.50	160,000	\$ 400,000.00
5 Gallon Shrubs	EA	\$ 65.00	1000	\$ 65,000.00
1 Gallon Shrubs	EA	\$ 40.00	2000	\$ 80,000.00
2" Caliper Tree	EA	\$ 600.00	100	\$ 60,000.00
Landscape Rock	CY	\$ 140.00	3000	\$ 420,000.00
Weed Barrier	SF	\$ 1.00	160,000	\$ 160,000.00
Topsoil	CY	\$ 50.00	2000	\$ 100,000.00
Concrete Curbing	LF	\$ 10.00	2000	\$ 20,000.00
HECP	SF	\$ 0.50	160,000	\$ 80,000.00
Seed Mix	SF	\$ 0.50	160,000	\$ 80,000.00

Total Cost	\$	1,305,000.00
Less Projected Baseline Costs	\$	260,000.00
Total Landscape Betterment Cost	\$	1,045,000.00

EXAMPLE PLAN



PLANT SCHEDULE				
	PINUS NIGRA 'OREGON GREEN'	B & B	6'-7' TALL	36
	OREGON GREEN AUSTRIAN PINE	B & B	2"	36
SHRUBS				
	TILIA CORDATA 'GREENSPIRE'	B & B	2"	36
	GREENSPIRE LITTLELEAF LINDEN	B & B	2"	36
	ANDROPOGON SCOPARIUS	1 GAL		141
	LITTLE BLUESTEM	1 GAL		63
	CALAMAGROSTIS X ACUTIFLORA	1 GAL		122
	FEATHER REED GRASS	1 GAL		105
	HELICTOTRICHON SEMPERVIRENS	5 GAL		63
	BLUE OAT GRASS	5 GAL		
	PRUNUS X CISTENA			
	PURPLE LEAF SAND CHERRY			
	RHUS AROMATICA 'GRO-LOW'			
	GRO-LOW FRAGRANT SUMAC			

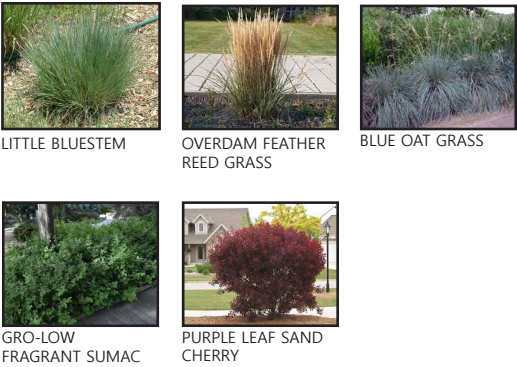
MATERIAL SCHEDULE		
	LANDSCAPE ROCK TYPE 1 (6" DEPTH)	1,776 CY
	LANDSCAPE ROCK TYPE 2 (6" DEPTH)	4,636 CY
	LANDSCAPE ROCK TYPE 3 (6" DEPTH)	1,597 CY
SYMBOL		
	WEED BARRIER UNDER ALL LANDSCAPE ROCK	432,297 SF
SYMBOL		
	3-5' DECORATIVE BOULDER	83

TREES



OREGON GREEN AUSTRIAN PINE GREENSPIRE LITTLELEAF LINDEN

SHRUBS

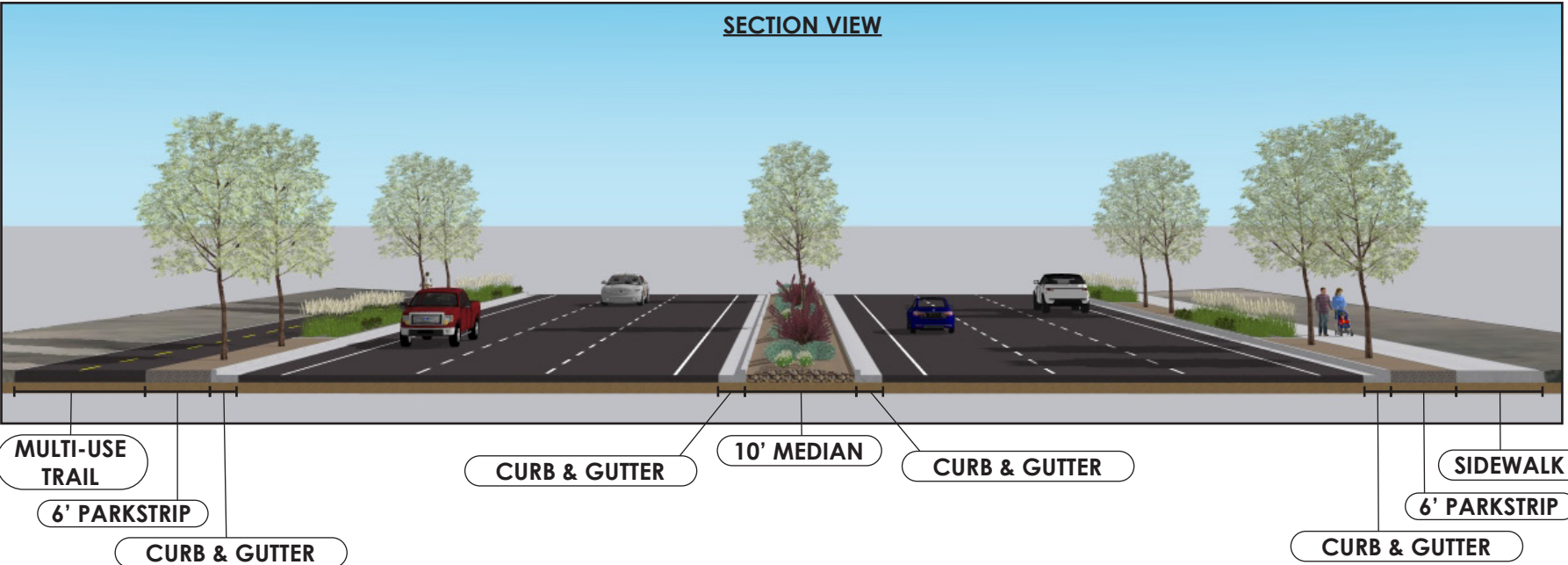


LITTLE BLUESTEM OVERDAM FEATHER REED GRASS BLUE OAT GRASS
GRO-LOW FRAGRANT SUMAC PURPLE LEAF SAND CHERRY

PLANS AND LAYOUTS ARE CONCEPTUAL FOR DISCUSSION PURPOSES AND DO NOT REFLECT EXACT LAYOUTS.

NEBO BELTWAY LANDSCAPE BETTERMENT CONSIDERATIONS

PROJECT MAP AND POTENTIAL BETTERMENT LOCATION



ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN

ESTIMATED COSTS

LANDSCAPED PARKWAY - OPTION 1								
6' PARK STRIPS, 10' MEDIAN, LANDSCAPE ROCK WITH PLANTS								
Item	Unit	Unit Cost	Quantity	Overall Cost		Quantity Needed Per LF of Roadway	Cost Per LF of Roadway	Roadway LF to Receive Betterment
Irrigation	SF	\$ 2.50	138600	\$ 346,500.00		22	\$ 55.00	6300
5 Gallon Shrubs	EA	\$ 65.00	2910.6	\$ 189,189.00		0.385	\$ 25.03	7560
1 Gallon Shrubs	EA	\$ 40.00	16632	\$ 665,280.00		2.2	\$ 88.00	7560
2" Caliper Tree	EA	\$ 600.00	504	\$ 302,400.00		0.06	\$ 36.00	8400
Landscape Rock	CY	\$ 140.00	3422	\$ 479,111.11		0.41	\$ 57.04	8400
Weed Barrier	SF	\$ 1.00	184800	\$ 184,800.00		22	\$ 22.00	8400
Topsoil	CY	\$ 50.00	2259	\$ 112,933.33		0.27	\$ 13.44	8400
Concrete Curbing	LF	\$ 10.00	3300	\$ 33,000.00		0.39	\$ 3.93	8400
HECP	SF	\$ 0.50	184800	\$ 92,400.00		22	\$ 11.00	8400
Seed Mix	SF	\$ 0.50	184800	\$ 92,400.00		22	\$ 11.00	8400

Total Cost \$ 2,313,213.44
Less Projected Baseline Costs \$ 297,733.33 Includes cost of topsoil, seed and hecp
Total Landscape Betterment Cost \$ 2,015,480.11

ROADWAY LENGTH	PARK STRIP WIDTH	MEDIAN WIDTH	PLANT DENSITY	ROCK DEPTH	TOPSOIL DEPTH	CURBING INTERVAL
8400'	6'	10'	70%	.50'	.33'	150'

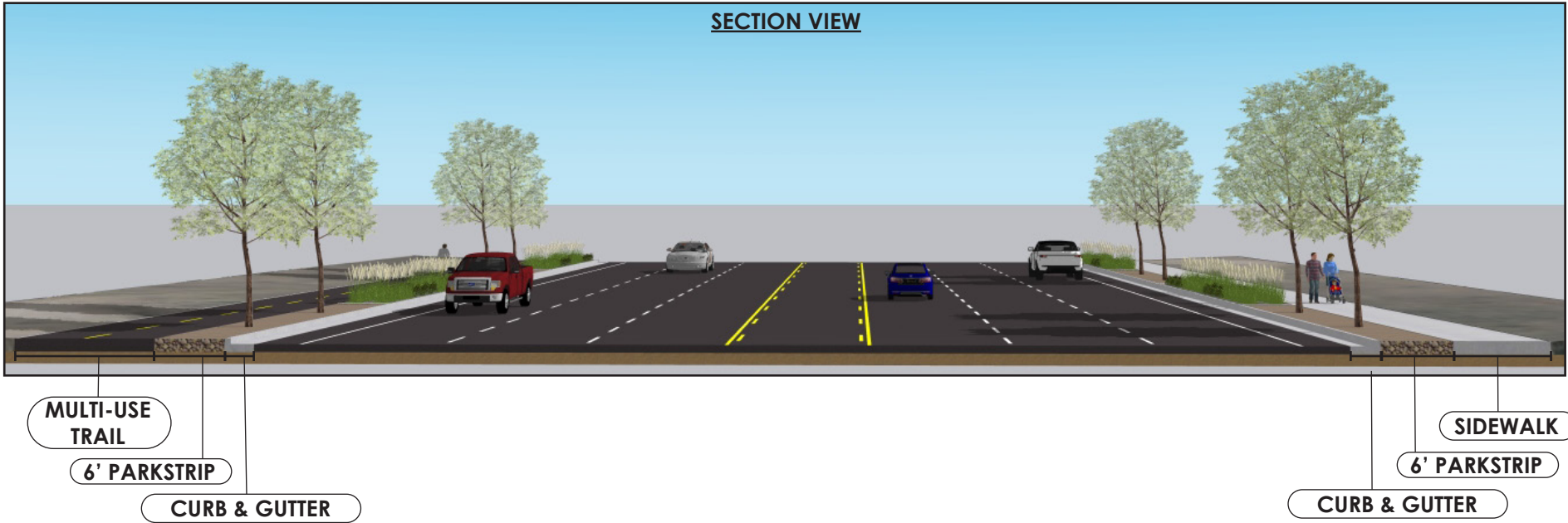


ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN

PROJECT MAP AND POTENTIAL BETTERMENT LOCATION



SECTION VIEW



ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN

ESTIMATED COSTS

LANDSCAPED PARKWAY - OPTION 2						
6' PARK STRIPS, NO MEDIAN, LANDSCAPE ROCK WITH PLANTS						

Item	Unit	Unit Cost	Quantity	Overall Cost		Quantity Needed Per LF of Roadway	Cost Per LF of Roadway	Roadway LF to Receive Betterment
Irrigation	SF	\$ 2.50	75600	\$ 189,000.00		12	\$ 30.00	6300
5 Gallon Shrubs	EA	\$ 65.00	2910.6	\$ 189,189.00		0.385	\$ 25.03	7560
1 Gallon Shrubs	EA	\$ 40.00	16632	\$ 665,280.00		2.2	\$ 88.00	7560
2" Caliper Tree	EA	\$ 600.00	336	\$ 201,600.00		0.04	\$ 24.00	8400
Landscape Rock	CY	\$ 140.00	1867	\$ 261,333.33		0.22	\$ 31.11	8400
Weed Barrier	SF	\$ 1.00	100800	\$ 100,800.00		12	\$ 12.00	8400
Topsoil	CY	\$ 50.00	1232	\$ 61,600.00		0.15	\$ 7.33	8400
Concrete Curbing	LF	\$ 10.00	1800	\$ 18,000.00		0.21	\$ 2.14	8400
HECP	SF	\$ 0.50	100800	\$ 50,400.00		12	\$ 6.00	8400
Seed Mix	SF	\$ 0.50	100800	\$ 50,400.00		12	\$ 6.00	8400

Total Cost	\$	1,686,802.33	
Less Projected Baseline Costs	\$	162,400.00	Includes cost of topsoil, seed and hecp
Total Landscape Betterment Cost	\$	1,524,402.33	

ROADWAY LENGTH	PARK STRIP WIDTH	MEDIAN WIDTH	PLANT DENSITY	ROCK DEPTH	TOPSOIL DEPTH	CURBING INTERVAL
8400'	6'	0'	70%	.50'	.33'	150'

CONCEPTUAL 3D RENDERING



ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN

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LANDSCAPED PARKWAY - OPTION 3								
6' PARK STRIPS, 18" MEDIAN, MIXED TURF AND LANDSCAPE ROCK								
Item	Unit	Unit Cost	Quantity	Overall Cost		Quantity Needed Per LF of Roadway	Cost Per LF of Roadway	Roadway LF to Receive Bottomment
Turf Sod	SF	\$ 1.80	33284	\$ 49,956.00		12	\$ 38.00	2772
Irrigation	SF	\$ 2.80	157880	\$ 392,700.00		22	\$ 65.00	7148
6 Gallon Shrubs	EA	\$ 65.80	2134.44	\$ 138,788.00		0.388	\$ 25.03	3644
1 Gallon Shrubs	EA	\$ 45.80	12398.8	\$ 467,872.00		2.2	\$ 68.00	3644
2' Caliper Tree	EA	\$ 606.80	804	\$ 302,400.00		0.08	\$ 38.00	6408
Landscape Rock	CY	\$ 145.80	2259	\$ 336,213.38		0.41	\$ 67.04	3644
Wood Barrier	SF	\$ 1.80	123988	\$ 121,988.00		22	\$ 22.00	3644
Topsoil	CY	\$ 58.80	2259	\$ 112,983.38		0.27	\$ 33.44	6408
Concrete Curbing	LF	\$ 18.80	3900	\$ 83,000.00		0.39	\$ 3.98	6408
HECP	SF	\$ 0.50	184800	\$ 92,400.00		22	\$ 11.00	8400
Seed Mix	SF	\$ 0.50	184800	\$ 92,400.00		22	\$ 11.00	8400

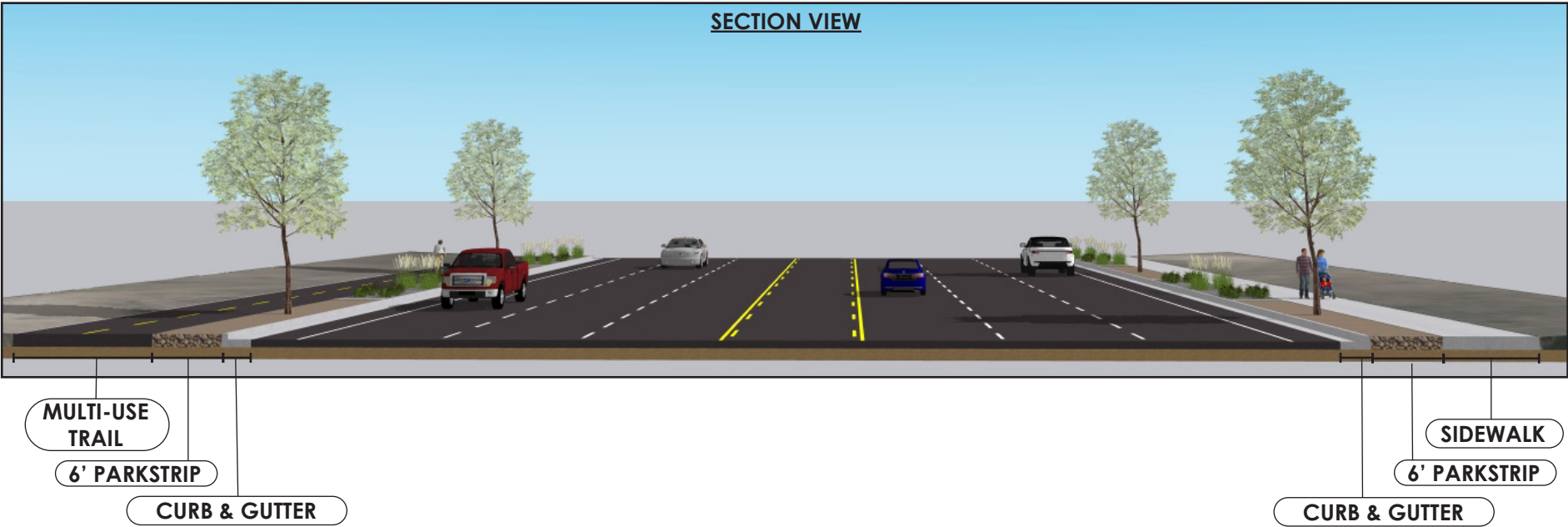
<u>ROADWAY LENGTH</u>	<u>PARK STRIP WIDTH</u>	<u>MEDIAN WIDTH</u>	<u>PLANT DENSITY</u>	<u>ROCK DEPTH</u>	<u>TOPSOIL DEPTH</u>	<u>CURBING INTERVAL</u>
8400'	6'	10'	70%	.50'	.33'	150'



PROJECT MAP AND POTENTIAL BETTERMENT LOCATION



SECTION VIEW



ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN

ESTIMATED COSTS

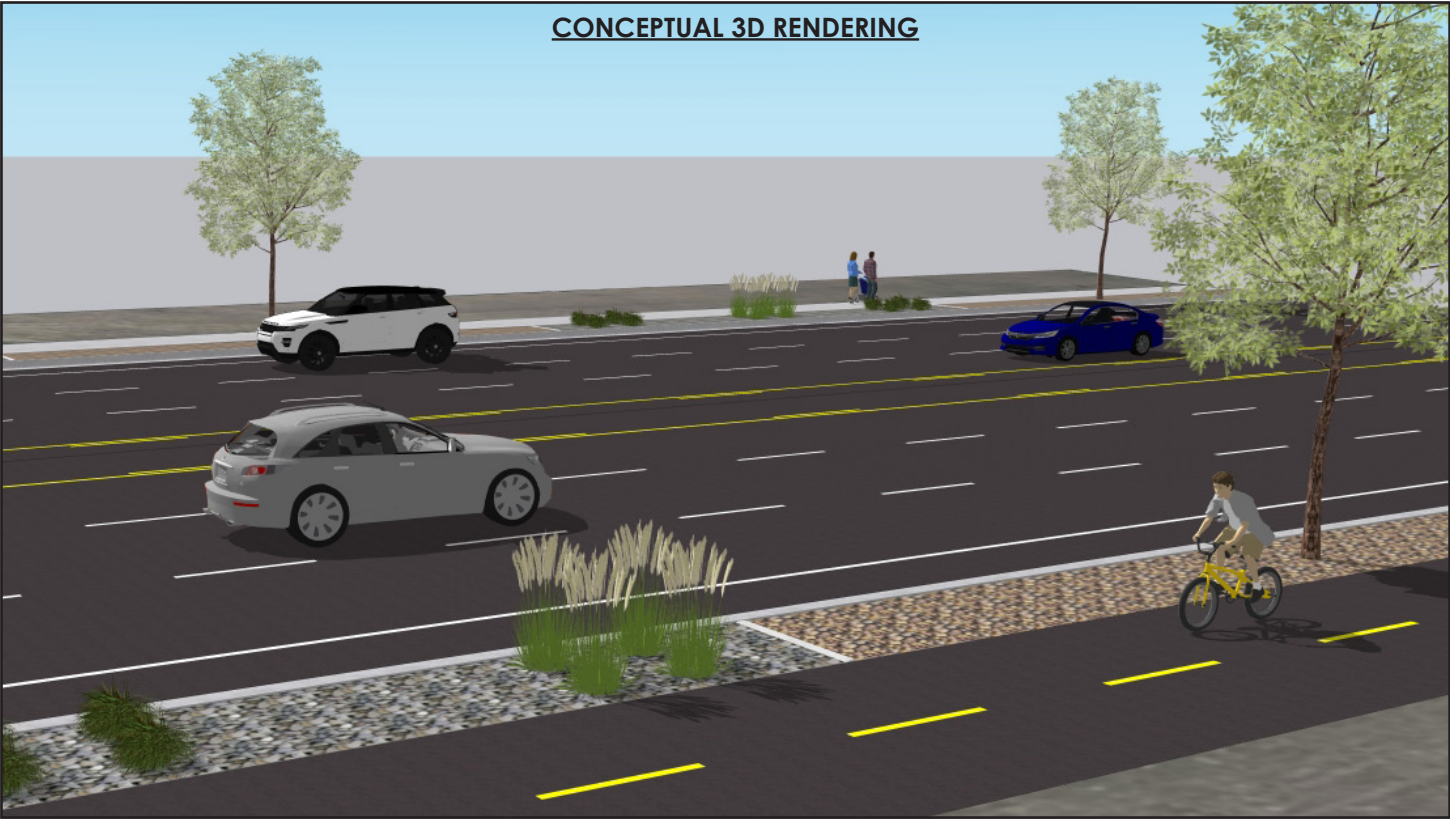
LANDSCAPED PARKWAY - OPTION 4
6' PARK STRIPS, NO MEDIAN, LANDSCAPE ROCK WITH MINIMAL PLANTS

Item	Unit	Unit Cost	Quantity	Overall Cost	Quantity Needed Per LF of Roadway	Cost Per LF of Roadway	Roadway LF to Recieve Betterment
Irrigation	SF	\$ 2.00	75800	\$ 151,600.00	12	\$ 30.00	6306
5 Gallon Shrubs	EA	\$ 68.00	1328	\$ 90,560.00	0.178	\$ 11.36	7868
1 Gallon Shrubs	EA	\$ 48.00	8316	\$ 398,940.00	1.1	\$ 44.00	7868
2" Caliper Tree	EA	\$ 908.00	108	\$ 100,800.00	0.02	\$ 12.00	8406
Landscape Rock	CY	\$ 148.00	1967	\$ 281,383.38	0.22	\$ 81.11	8406
Wood Barrier	SF	\$ 1.00	190900	\$ 190,900.00	12	\$ 12.00	8406
Topsoil	CY	\$ 58.00	1232	\$ 61,400.00	0.18	\$ 7.38	8406
Concrete Curbing	LF	\$ 18.00	1800	\$ 32,400.00	0.21	\$ 2.14	8406
HECP	SF	\$ 0.50	100800	\$ 50,400.00	12	\$ 6.00	8400
Seed Mix	SF	\$ 0.50	100800	\$ 50,400.00	12	\$ 6.00	8400

Total Cost \$ 1,190,188.38
Baseline Costs \$ 162,400.00 Includes cost of topsoil, seed and hecp
Total Landscape Betterment Cost \$ 957,788.38

ROADWAY LENGTH	PARK STRIP WIDTH	MEDIAN WIDTH	PLANT DENSITY	ROCK DEPTH	TOPSOIL DEPTH	CURBING INTERVAL
8400'	6'	0'	35%	.50'	.33'	150'

CONCEPTUAL 3D RENDERING



ROADWAY ELEMENTS ARE CONCEPTUAL AND SUBJECT TO FINAL DESIGN