

Appendix 7

Cost Estimate Worksheets

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange - Option 1 I-215

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$11,548,425
SECTION II - BRIDGES		\$65,581,625
SECTION III - WALLS		\$3,506,272
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$246,036
SECTION VII - ADDITIONAL ITEMS		\$8,088,236
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$38,571,644
TOTAL PRESENT DAY CONSTRUCTION COST		\$127,542,237
TOTAL ESCALATED CONSTRUCTION COST	2019	\$127,542,237
TOTAL CONSTRUCTION & ENGINEERING	2019	\$135,454,855
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$4,063,646
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$139,518,501

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$127,500,000	\$107,800,000	\$138,800,000
TOTAL PROJECT COST	\$139,500,000	\$119,100,000	\$152,800,000

Estimate prepared by:	James E Mischler
Date of initial estimate:	September 30, 2019
Date of latest estimate revision:	November 11, 2019
Route name or number:	
Project Title:	Henderson Interchange - Option 1 I-215
Project length (in miles):	2.2
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange - Option 1 I-515 South of Auto Show

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$14,571,675
SECTION II - BRIDGES		\$9,853,933
SECTION III - WALLS		\$1,902,500
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$8,818,718
SECTION VII - ADDITIONAL ITEMS		\$32,408,995
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$29,287,644
TOTAL PRESENT DAY CONSTRUCTION COST		\$96,843,465
TOTAL ESCALATED CONSTRUCTION COST	2019	\$96,843,465
TOTAL CONSTRUCTION & ENGINEERING	2019	\$102,852,759
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$3,085,583
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$105,938,342

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$96,800,000	\$88,500,000	\$112,100,000
TOTAL PROJECT COST	\$105,900,000	\$97,100,000	\$122,700,000

Estimate prepared by:	James E Mischler
Date of initial estimate:	September 30, 2019
Date of latest estimate revision:	November 19, 2019
Route name or number:	
Project Title:	Henderson Interchange - Option 1 I-515 South of Auto Show
Project length (in miles):	5.7
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Int - Option 1 I-515 North of Auto Show

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$6,949,768
SECTION II - BRIDGES		\$15,090,399
SECTION III - WALLS		
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$193,389
SECTION VII - ADDITIONAL ITEMS		\$4,095,146
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$11,414,348
TOTAL PRESENT DAY CONSTRUCTION COST		\$37,743,050
TOTAL ESCALATED CONSTRUCTION COST	2019	\$37,743,050
TOTAL CONSTRUCTION & ENGINEERING	2019	\$40,088,119
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$1,202,644
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$41,290,763

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$37,700,000	\$32,600,000	\$41,700,000
TOTAL PROJECT COST	\$41,300,000	\$36,000,000	\$45,900,000

Estimate prepared by:	James E Mischler
Date of initial estimate:	November 11, 2019
Date of latest estimate revision:	November 11, 2019
Route name or number:	
Project Title:	Henderson Int - Option 1 I-515 North of Auto Show
Project length (in miles):	5.7
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange Option 2 I-215

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$18,307,164
SECTION II - BRIDGES		\$22,766,319
SECTION III - WALLS		\$11,379,321
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$1,940,076
SECTION VII - ADDITIONAL ITEMS		\$18,697,139
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$31,686,899
TOTAL PRESENT DAY CONSTRUCTION COST		\$104,776,917
TOTAL ESCALATED CONSTRUCTION COST	2019	\$104,776,917
TOTAL CONSTRUCTION & ENGINEERING	2019	\$111,278,086
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$3,338,343
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$114,616,429

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$104,800,000	\$94,600,000	\$117,900,000
TOTAL PROJECT COST	\$114,600,000	\$103,900,000	\$129,400,000

Estimate prepared by:	James Mischler
Date of initial estimate:	September 30, 2019
Date of latest estimate revision:	November 13, 2019
Route name or number:	
Project Title:	Henderson Interchange Option 2 I-215
Project length (in miles):	2.2
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange Option 2 I-515 South of Auto Show

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$17,068,708
SECTION II - BRIDGES		\$8,582,848
SECTION III - WALLS		\$3,790,821
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$10,418,220
SECTION VII - ADDITIONAL ITEMS		\$25,742,023
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$28,440,868
TOTAL PRESENT DAY CONSTRUCTION COST		\$94,043,488
TOTAL ESCALATED CONSTRUCTION COST	2019	\$94,043,488
TOTAL CONSTRUCTION & ENGINEERING	2019	\$99,879,184
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$2,996,376
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$102,875,560

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$94,000,000	\$86,500,000	\$108,300,000
TOTAL PROJECT COST	\$102,900,000	\$94,900,000	\$118,500,000

Estimate prepared by:	James Mischler
Date of initial estimate:	September 30, 2019
Date of latest estimate revision:	November 19, 2019
Route name or number:	
Project Title:	Henderson Interchange Option 2 I-515 South of Auto Show
Project length (in miles):	4.0
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange Option 2 North of Auto Show

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$4,819,927
SECTION II - BRIDGES		\$15,517,625
SECTION III - WALLS		
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		
SECTION VI - DEMOLITION		\$186,805
SECTION VII - ADDITIONAL ITEMS		\$2,052,436
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$9,787,774
TOTAL PRESENT DAY CONSTRUCTION COST		\$32,364,567
TOTAL ESCALATED CONSTRUCTION COST	2019	\$32,364,567
TOTAL CONSTRUCTION & ENGINEERING	2019	\$34,376,170
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$1,031,285
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$35,407,455

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$32,400,000	\$27,500,000	\$35,400,000
TOTAL PROJECT COST	\$35,400,000	\$30,400,000	\$38,900,000

Estimate prepared by:	James E Mischler
Date of initial estimate:	November 13, 2019
Date of latest estimate revision:	November 13, 2019
Route name or number:	
Project Title:	Henderson Interchange Option 2 North of Auto Show
Project length (in miles):	5.0
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers

SUMMARY

ESTIMATED PROBABLE CONSTRUCTION COST

Henderson Interchange - Lake Mead Pkwy Improvements for All Options

PREPARED BY THE NEVADA DEPARTMENT OF TRANSPORTATION

SECTION	ESCALATED TO YEAR	TOTAL
SECTION I - ROADWAY CONSTRUCTION		\$1,546,309
SECTION II - BRIDGES		
SECTION III - WALLS		
SECTION IV - TYPICAL INTERCHANGES		
SECTION V - SIGNAL SYSTEMS AT INTERSECTIONS		\$638,000
SECTION VI - DEMOLITION		\$76,000
SECTION VII - ADDITIONAL ITEMS		\$190,532
SECTION VIII - STANDARD PERCENTAGE ADDERS		\$1,062,519
TOTAL PRESENT DAY CONSTRUCTION COST		\$3,513,360
TOTAL ESCALATED CONSTRUCTION COST	2019	\$3,513,360
TOTAL CONSTRUCTION & ENGINEERING	2019	\$3,736,188
SECTION IX - HYDRAULICS/STORM WATER COSTS	2019	\$112,086
SECTION X - ENVIRONMENTAL CONSIDERATION COSTS	2019	
GRAND TOTAL PROJECT COST		\$3,848,274

	CURRENT ESTIMATE	LOW RANGE	HIGH RANGE
TOTAL PRESENT DAY CONSTRUCTION COST	\$3,500,000	\$3,400,000	\$4,000,000
TOTAL PROJECT COST	\$3,800,000	\$3,700,000	\$4,400,000

Estimate prepared by:	James E Mischler
Date of initial estimate:	September 30, 2019
Date of latest estimate revision:	September 30, 2019
Route name or number:	
Project Title:	Henderson Interchange - Lake Mead Pkwy Improvements for All
Project length (in miles):	0.4
District price database used:	District 1
Predominant County:	Clark
NDOT project manager:	David Bowers