

APPENDIX G – COST ESTIMATE

Project Number	Description	Total Cost	Funding Source	West Jordan Responsibility
1	7800 South: Bangerter Highway to Airport Road	\$6,640,000	West Jordan	100% \$6,640,000
2	5600 West: 8200 South to 8600 South	\$5,550,000	West Jordan/WFRC	100% \$5,550,000
3	7800 South: 5900 West to 6700 West	\$7,810,000	West Jordan/WFRC	100% \$7,810,000
5	7000 South: Redwood Road to Bangerter Highway	\$14,960,000	West Jordan/WFRC	100% \$14,960,000
7	6200 South: Bangerter Highway to 4800 West	\$14,440,000	West Jordan/WVC	50% \$7,220,000
8	10200 South: Mountain View Corridor to HWY 111	\$23,830,000	West Jordan/WFRC	51% \$12,150,000
10	HWY 111: 10200 South to 9400 South	\$14,680,000	West Jordan/WFRC	100% \$14,680,000
11	7800 South: Jordan River (Eastern Border) to Redwood Road	\$5,080,000	West Jordan/WFRC	100% \$5,080,000
12	4000 West: Old Bingham Hwy to Southern Border	\$1,500,000	West Jordan/WFRC	100% \$1,500,000
13	7800 South: Airport Road to 6700 West	\$12,750,000	West Jordan/WFRC	100% \$12,750,000
14	7000 South: Airport Road to 4800 West	\$1,000,000	West Jordan	100% \$1,000,000
15	5600 West: 6200 South to 7000 South	\$7,000,000	West Jordan/WFRC	16% \$1,120,000
16	7400 South Extension: 5490 West to 7000 South	\$1,940,000	West Jordan	25% \$480,000
17	New North/South Roadway: 7800 South to 7000 South	\$9,700,000	West Jordan	25% \$2,400,000
18	New Loop Roadway: 5490 West to 5800 West	\$5,830,000	West Jordan	25% \$1,440,000
19	New East/West Roadway: 5800 West to 5490 West	\$2,770,000	West Jordan	25% \$690,000
20	New North/South Roadway: New Bingham Highway to 6000 West to Brush Fork Drive	\$5,610,000	West Jordan	25% \$1,390,000
21	5800 West Extension: Dannon Way to Old Bingham Hwy	\$5,660,000	West Jordan	25% \$1,400,000
22	10200 South: 5600 West to Mountain View Corridor	\$8,310,000	West Jordan/WFRC	100% \$8,310,000
23	5600 West: Old Bingham Hwy to 10200 South	\$3,110,000	West Jordan/WFRC	25% \$780,000
24	New Loop Roadway: 8400 South to 7600 South	\$9,700,000	West Jordan	25% \$2,400,000
25	6400 West Extension to 7800 South	\$1,800,000	West Jordan	25% \$450,000
26	7000 South: Mountain View Corridor to Future North/South Collector in Annexation Area	\$9,770,000	West Jordan/WVC	48% \$4,690,000
27	7400 West Extension to 7000 South	\$4,160,000	West Jordan	25% \$1,030,000
28	7400 West: Northern Border to 7800 South	\$15,520,000	West Jordan	25% \$3,840,000
29	6700 West Extension to 10200 South	\$15,240,000	West Jordan	25% \$3,770,000
30	6400 West Extension: 8600 South 10200 South	\$9,770,000	West Jordan	25% \$2,420,000
31	Wells Park Road Extension to 6700 West	\$2,770,000	West Jordan	25% \$690,000
32	7800 South: SR-111 to Future North/South Collector in Annexation Area	\$3,680,000	West Jordan	25% \$910,000
33	8600 South: 5600 West to Railroad	\$14,250,000	West Jordan	25% \$3,530,000
34	7200 West: 8200 South to 9000 South	\$7,550,000	West Jordan	25% \$1,870,000
35	9000 South: Hwy 111 to Future North/South Collector in Annexation Area	\$9,200,000	West Jordan	25% \$2,280,000
36	9400 South: 6700 West to 8000 West	\$8,590,000	West Jordan	25% \$2,130,000
37	9800 South: 6700 West to 8000 West	\$9,700,000	West Jordan	25% \$2,400,000
38	8000 West: 9000 South to 10200 South	\$9,490,000	West Jordan	25% \$2,350,000
39	10200 South: Hwy 111 to Future North/South Collector in Annexation Area	\$7,130,000	West Jordan/County	50% \$3,570,000
40	Future North/South Collector in Annexation Area	\$37,610,000	Kennecott	0% \$0
43	1300 West: Northern City Border to Southern City Border	\$10,500,000	West Jordan/WFRC	20% \$2,100,000
Total		\$344,600,000		\$147,780,000

Project Number	Description	Total Cost
4	7000 South: Jordan River (Eastern Border) to Redwood Road	\$9,000,000
6	9000 South: 6400 West to SR-111	\$11,180,000
9	7800 South: Redwood Road to Bangerter Highway	\$13,280,000
41	SR-111: New Bingham Highway to Northern Border	\$11,730,000
42	9000 South: Jordan River (Eastern Border) to 6400 West	\$270,000
Total		\$45,460,000

**West Jordan City
Transportation Improvement Program (TIP)
Unit Costs**

Item	Unit	Unit Cost
Parkstrip	S.F.	\$10
Removal of Existing Asphalt	S.Y.	\$4
Clearing and Grubbing	Acre	\$2,000
Roadway Excavation	C.Y.	\$10.50
HMA Concrete	Ton	\$85
Untreated Base Course	C.Y.	\$15
Granular Borrow	C.Y.	\$40
Curb and Gutter (2.5' width)	L.F.	\$22.50
Sidewalk (5' width)	L.F.	\$25
Drainage	L.F.	\$45
Right of Way	S.F.	\$15.00
Striping	L.F.	\$5.00
Bridge/Culvert	Each	\$220,000
Traffic Signal	Each	\$180,000

Contingency	25%
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Mobilization	10%
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Preconstruction Engineering	8%
Construction Engineering	8%

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

West Jordan City TMP
Developer's Responsibility vs. City's Responsibility

			100' Length of Local Road Cross-Section (50' ROW)		100' Length of Collector Road Cross-Section (70' ROW)		100' Length of Arterial (4/5 Lanes) East of Bangerter (106' ROW)		100' Length of Arterial (4/5 Lanes) West of Bangerter (116' ROW)		100' Length of Arterial (6/7 Lanes) (110' ROW)	
Item	Unit	Unit Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Parkstrip	S.F.	\$10	1000	\$10,000	1800	\$18,000	1000	\$10,000	1800	\$18,000	1000	\$10,000
Removal of Existing Asphalt	S.Y.	\$4	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Clearing and Grubbing	Acre	\$2,000	0.11	\$230	0.16	\$321	0.24	\$487	0.27	\$533	0.25	\$505
Roadway Excavation	C.Y.	\$11	277.8	\$2,917	388.9	\$4,083	796.3	\$8,361	796.3	\$8,361	833.3	\$8,750
HMA Concrete	Ton	\$85	77.5	\$6,588	108.5	\$9,223	222.2	\$18,884	222.2	\$18,884	232.5	\$19,763
Untreated Base Course	C.Y.	\$15	111.1	\$1,667	155.6	\$2,333	318.5	\$4,778	318.5	\$4,778	333.3	\$5,000
Granular Borrow	C.Y.	\$40	129.6	\$5,185	181.5	\$7,259	371.6	\$14,864	371.6	\$14,864	388.9	\$15,556
Curb and Gutter (2.5' width)	L.F.	\$23	200	\$4,500	200	\$4,500	200	\$4,500	200	\$4,500	200	\$4,500
Sidewalk (5' width)	L.F.	\$25	1000	\$25,000	1000	\$25,000	1000	\$25,000	1200	\$30,000	1000	\$25,000
Drainage	L.F.	\$45	100	\$4,500	100	\$4,500	100	\$4,500	100	\$4,500	100	\$4,500
Right of Way	S.F.	\$15	5000	\$75,000	7000	\$105,000	10600	\$159,000	11600	\$174,000	11000	\$165,000
Striping	L.F.	\$5	-	-	-	-	-	-	-	-	-	-
Bridge/Culvert	Each	\$220,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Traffic Signal	Each	\$180,000	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Subtotal				\$135,586	\$180,220	\$250,374	\$278,420	\$258,573				
Contingency			25%	\$33,896	\$45,055	\$62,593	\$69,605	\$64,643				
Mobilization			10%	\$13,559	\$18,022	\$25,037	\$27,842	\$25,857				
Preconstruction Engineering			8%	\$10,847	\$14,418	\$20,030	\$22,274	\$20,686				
Construction Engineering			8%	\$10,847	\$14,418	\$20,030	\$22,274	\$20,686				
Total Project Cost				\$204,734	\$272,132	\$378,065	\$420,414	\$390,445				
Developers Responsibility				100%	\$204,734	75%	\$204,734	49%	\$204,734	52%	\$204,734	
West Jordan City's Responsibility				0%	\$0	25%	\$67,398	46%	\$173,330	48%	\$185,711	

Overall Assumptions:

HMA Pavement Density (pcf) =

HMA Thickness (in) =

Untreated Base Course Thickness (in) =

Granular Borrow Thickness (in) =

Roadway Excavation Depth (ft) =

Sidewalk Thickness (in) =

Drainage includes LID

West Jordan City
Transportation Master Plan
7800 South: Bangerter Highway to Airport Road
City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	43,879	\$438,792
Removal of Existing Asphalt	S.Y.	\$4	11,376	\$45,504
Clearing and Grubbing	Acre	\$2,000	2.69	\$5,372
Roadway Excavation	C.Y.	\$11	14,897	\$156,421
HMA Concrete	Ton	\$85	10,391	\$883,222
Untreated Base Course	C.Y.	\$15	3,973	\$59,589
Granular Borrow	C.Y.	\$40	6,952	\$278,082
Curb and Gutter (2.5' width)	L.F.	\$23	5,851	\$131,638
Sidewalk (5' width)	L.F.	\$25	14,626	\$365,660
Drainage	L.F.	\$45	5,851	\$263,275
Right of Way	S.F.	\$15	117,011	\$1,755,169
Striping	L.F.	\$5	2,925	\$14,626
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$4,397,351

Contingency	25%	\$1,099,338
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Mobilization	10%	\$439,735
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Preconstruction Engineering	8%	\$351,788
Construction Engineering	8%	\$351,788

Total Project Costs	\$6,640,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$6,640,000

Overall Assumptions:

- HMA Pavement Density (pcf) = 155
- HMA Thickness (in) = 10
- Untreated Base Course Thickness (in) = 8
- Granual Borrow Thickness (in) = 14
- Roadway Excavation Depth (ft) = 2.5
- Sidewalk Thickness (in) = 5
- Drainage includes LID

Project # 1

West Jordan City
Transportation Master Plan
5600 West: 8200 South to 8600 South
City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	31,438	\$314,382
Removal of Existing Asphalt	S.Y.	\$4	9,315	\$37,260
Clearing and Grubbing	Acre	\$2,000	2.21	\$4,427
Roadway Excavation	C.Y.	\$11	8,927	\$93,732
HMA Concrete	Ton	\$85	6,227	\$529,254
Untreated Base Course	C.Y.	\$15	2,381	\$35,708
Granular Borrow	C.Y.	\$40	4,166	\$166,635
Curb and Gutter (2.5' width)	L.F.	\$23	4,192	\$94,315
Sidewalk (6' width)	L.F.	\$30	25,151	\$754,517
Drainage	L.F.	\$45	4,192	\$188,629
Right of Way	S.F.	\$15	96,411	\$1,446,158
Striping	L.F.	\$5	2,096	\$10,479
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$3,675,497

Contingency	25%	\$918,874
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Mobilization	10%	\$367,550
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Preconstruction Engineering	8%	\$294,040
Construction Engineering	8%	\$294,040

Total Project Costs	\$5,550,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$5,550,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # 2

West Jordan City
Transportation Master Plan
7800 South: 5900 West to 6700 West
City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	41,368	\$413,683
Removal of Existing Asphalt	S.Y.	\$4	7,661	\$30,643
Clearing and Grubbing	Acre	\$2,000	2.91	\$5,825
Roadway Excavation	C.Y.	\$11	15,577	\$163,558
HMA Concrete	Ton	\$85	10,865	\$923,518
Untreated Base Course	C.Y.	\$15	4,154	\$62,308
Granular Borrow	C.Y.	\$40	7,269	\$290,770
Curb and Gutter (2.5' width)	L.F.	\$23	5,516	\$124,105
Sidewalk (6' width)	L.F.	\$30	33,095	\$992,838
Drainage	L.F.	\$45	5,516	\$248,210
Right of Way	S.F.	\$15	126,863	\$1,902,940
Striping	L.F.	\$5	2,758	\$13,789
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$5,172,185

Contingency	25%	\$1,293,046
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Mobilization	10%	\$517,219
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Preconstruction Engineering	8%	\$413,775
Construction Engineering	8%	\$413,775

Total Project Costs	\$7,810,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$7,810,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # **3**

**West Jordan City
Transportation Master Plan**

7000 South: Jordan River (Eastern Border) to Redwood Road

City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	110,155	\$1,101,549
Removal of Existing Asphalt	S.Y.	\$4	65,277	\$261,108
Clearing and Grubbing	Acre	\$2,000	1.69	\$3,372
Roadway Excavation	C.Y.	\$11	6,800	\$71,397
HMA Concrete	Ton	\$85	4,743	\$403,136
Untreated Base Course	C.Y.	\$15	1,813	\$27,199
Granular Borrow	C.Y.	\$40	3,173	\$126,927
Curb and Gutter (2.5' width)	L.F.	\$23	14,687	\$330,465
Sidewalk (5' width)	L.F.	\$25	73,437	\$1,835,915
Drainage	L.F.	\$45	14,687	\$660,929
Right of Way	S.F.	\$15	73,437	\$1,101,549
Striping	L.F.	\$5	7,344	\$36,718
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$5,960,265

Contingency	25%	\$1,490,066
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Mobilization	10%	\$596,026
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Preconstruction Engineering	8%	\$476,821
Construction Engineering	8%	\$476,821

Total Project Costs	\$9,000,000	
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West Jordan's Responsibility Via Impact Fee's	0%
	\$0

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **4**

West Jordan City
Transportation Master Plan
7000 South: Redwood Road to Bangerter Highway
City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	116,521	\$1,165,206
Removal of Existing Asphalt	S.Y.	\$4	47,471	\$189,885
Clearing and Grubbing	Acre	\$2,000	6.24	\$12,483
Roadway Excavation	C.Y.	\$11	25,174	\$264,329
HMA Concrete	Ton	\$85	7,024	\$597,006
Untreated Base Course	C.Y.	\$15	6,713	\$100,697
Granular Borrow	C.Y.	\$40	11,748	\$469,919
Curb and Gutter (2.5' width)	L.F.	\$23	15,536	\$349,562
Sidewalk (5' width)	L.F.	\$25	77,680	\$1,942,011
Drainage	L.F.	\$45	15,536	\$699,124
Right of Way	S.F.	\$15	271,881	\$4,078,222
Striping	L.F.	\$5	7,768	\$38,840
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$9,907,285

Contingency	25%	\$2,476,821
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Mobilization	10%	\$990,728
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Preconstruction Engineering	8%	\$792,583
Construction Engineering	8%	\$792,583

Total Project Costs	\$14,960,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$14,960,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 5

**West Jordan City
Transportation Master Plan
9000 South: 6400 West to SR-111**

City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	60,528	\$605,283
Removal of Existing Asphalt	S.Y.	\$4	13,451	\$53,803
Clearing and Grubbing	Acre	\$2,000	4.26	\$8,523
Roadway Excavation	C.Y.	\$11	20,923	\$219,695
HMA Concrete	Ton	\$85	14,594	\$1,240,494
Untreated Base Course	C.Y.	\$15	5,580	\$83,693
Granular Borrow	C.Y.	\$40	9,764	\$390,570
Curb and Gutter (2.5' width)	L.F.	\$23	8,070	\$181,585
Sidewalk (6' width)	L.F.	\$30	48,423	\$1,452,679
Drainage	L.F.	\$45	8,070	\$363,170
Right of Way	S.F.	\$15	185,620	\$2,784,302
Striping	L.F.	\$5	4,035	\$20,176
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$7,403,974

Contingency	25%	\$1,850,993
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Mobilization	10%	\$740,397
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Preconstruction Engineering	8%	\$592,318
Construction Engineering	8%	\$592,318

Total Project Costs	\$11,180,000	
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West Jordan's Responsibility Via Impact Fee's	0%
	\$0

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # 6

West Jordan City
Transportation Master Plan
6200 South: Bangerter Highway to 4800 West
City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	109,046	\$1,090,460
Removal of Existing Asphalt	S.Y.	\$4	44,426	\$177,705
Clearing and Grubbing	Acre	\$2,000	5.01	\$10,013
Roadway Excavation	C.Y.	\$11	23,559	\$247,373
HMA Concrete	Ton	\$85	16,433	\$1,396,774
Untreated Base Course	C.Y.	\$15	6,282	\$94,237
Granular Borrow	C.Y.	\$40	10,994	\$439,774
Curb and Gutter (2.5' width)	L.F.	\$23	14,539	\$327,138
Sidewalk (5' width)	L.F.	\$25	72,697	\$1,817,434
Drainage	L.F.	\$45	14,539	\$654,276
Right of Way	S.F.	\$15	218,092	\$3,271,381
Striping	L.F.	\$5	7,270	\$36,349
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$9,562,914

Contingency	25%	\$2,390,728
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Mobilization	10%	\$956,291
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Preconstruction Engineering	8%	\$765,033
Construction Engineering	8%	\$765,033

Total Project Costs	\$14,440,000	
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West Jordan's Responsibility Via Impact Fee's	50%
	\$7,220,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **7**

**West Jordan City
Transportation Master Plan**

10200 South: Mountain View Corridor to HWY 111

City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	129,000	\$1,290,000
Removal of Existing Asphalt	S.Y.	\$4	28,667	\$114,667
Clearing and Grubbing	Acre	\$2,000	9.08	\$18,163
Roadway Excavation	C.Y.	\$11	44,593	\$468,222
HMA Concrete	Ton	\$85	31,103	\$2,643,783
Untreated Base Course	C.Y.	\$15	11,891	\$178,370
Granular Borrow	C.Y.	\$40	20,810	\$832,395
Curb and Gutter (2.5' width)	L.F.	\$23	17,200	\$387,000
Sidewalk (6' width)	L.F.	\$30	103,200	\$3,096,000
Drainage	L.F.	\$45	17,200	\$774,000
Right of Way	S.F.	\$15	395,600	\$5,934,000
Striping	L.F.	\$5	8,600	\$43,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$15,779,601

Contingency	25%	\$3,944,900
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Mobilization	10%	\$1,577,960
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Preconstruction Engineering	8%	\$1,262,368
Construction Engineering	8%	\$1,262,368

Total Project Costs	\$23,827,198	
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West Jordan's Responsibility Via Impact Fee's	51%
	\$12,151,871

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # 8

West Jordan City
Transportation Master Plan
7800 South: Redwood Road to Bangerter Highway
City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	199,530	\$1,995,300
Removal of Existing Asphalt	S.Y.	\$4	118,240	\$472,960
Clearing and Grubbing	Acre	\$2,000	0.00	\$0
Roadway Excavation	C.Y.	\$11	12,317	\$129,325
HMA Concrete	Ton	\$85	8,591	\$730,224
Untreated Base Course	C.Y.	\$15	3,284	\$49,267
Granular Borrow	C.Y.	\$40	5,748	\$229,911
Curb and Gutter (2.5' width)	L.F.	\$23	26,604	\$598,590
Sidewalk (5' width)	L.F.	\$25	133,020	\$3,325,500
Drainage	L.F.	\$45	26,604	\$1,197,180
Right of Way	S.F.	\$15	0	\$0
Striping	L.F.	\$5	13,302	\$66,510
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$8,794,767

Contingency	25%	\$2,198,692
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Mobilization	10%	\$879,477
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Preconstruction Engineering	8%	\$703,581
Construction Engineering	8%	\$703,581

Total Project Costs	\$13,280,098	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$13,280,098

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 9

West Jordan City
Transportation Master Plan
HWY 111: 10200 South to 9400 South
City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	79,500	\$795,000
Removal of Existing Asphalt	S.Y.	\$4	17,667	\$70,667
Clearing and Grubbing	Acre	\$2,000	5.60	\$11,194
Roadway Excavation	C.Y.	\$11	27,481	\$288,556
HMA Concrete	Ton	\$85	19,168	\$1,629,308
Untreated Base Course	C.Y.	\$15	7,328	\$109,926
Granular Borrow	C.Y.	\$40	12,825	\$512,988
Curb and Gutter (2.5' width)	L.F.	\$23	10,600	\$238,500
Sidewalk (6' width)	L.F.	\$30	63,600	\$1,908,000
Drainage	L.F.	\$45	10,600	\$477,000
Right of Way	S.F.	\$15	243,800	\$3,657,000
Striping	L.F.	\$5	5,300	\$26,500
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$9,724,638

Contingency	25%	\$2,431,159
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Mobilization	10%	\$972,464
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Preconstruction Engineering	8%	\$777,971
Construction Engineering	8%	\$777,971

Total Project Costs	\$14,684,203	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$14,684,203

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # **10**

**West Jordan City
Transportation Master Plan**

7800 South: Jordan River (Eastern Border) to Redwood Road

City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	74,280	\$742,800
Removal of Existing Asphalt	S.Y.	\$4	46,769	\$187,076
Clearing and Grubbing	Acre	\$2,000	0.57	\$1,137
Roadway Excavation	C.Y.	\$11	2,293	\$24,072
HMA Concrete	Ton	\$85	640	\$54,369
Untreated Base Course	C.Y.	\$15	611	\$9,170
Granular Borrow	C.Y.	\$40	1,070	\$42,795
Curb and Gutter (2.5' width)	L.F.	\$23	9,904	\$222,840
Sidewalk (5' width)	L.F.	\$25	49,520	\$1,238,000
Drainage	L.F.	\$45	9,904	\$445,680
Right of Way	S.F.	\$15	24,760	\$371,400
Striping	L.F.	\$5	4,952	\$24,760
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$3,364,099

Contingency	25%	\$841,025
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Mobilization	10%	\$336,410
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Preconstruction Engineering	8%	\$269,128
Construction Engineering	8%	\$269,128

Total Project Costs	\$5,079,789	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$5,079,789

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # 11

West Jordan City
Transportation Master Plan
4000 West: Old Bingham Hwy to Southern Border
City Arterial (4/5 Lanes) - East of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	11,196	\$111,960
Removal of Existing Asphalt	S.Y.	\$4	4,976	\$19,904
Clearing and Grubbing	Acre	\$2,000	0.62	\$1,234
Roadway Excavation	C.Y.	\$11	1,797	\$18,867
HMA Concrete	Ton	\$85	1,253	\$106,533
Untreated Base Course	C.Y.	\$15	479	\$7,188
Granular Borrow	C.Y.	\$40	839	\$33,542
Curb and Gutter (2.5' width)	L.F.	\$23	1,493	\$33,588
Sidewalk (5' width)	L.F.	\$25	7,464	\$186,600
Drainage	L.F.	\$45	1,493	\$67,176
Right of Way	S.F.	\$15	26,870	\$403,055
Striping	L.F.	\$5	746	\$3,732
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$993,377

Contingency	25%	\$248,344
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Mobilization	10%	\$99,338
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Preconstruction Engineering	8%	\$79,470
Construction Engineering	8%	\$79,470

Total Project Costs	\$1,500,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$1,500,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **12**

West Jordan City
Transportation Master Plan
7800 South: Airport Road to 6700 West
City Arterial (6/7 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	156,000	\$1,560,000
Removal of Existing Asphalt	S.Y.	\$4	92,444	\$369,778
Clearing and Grubbing	Acre	\$2,000	2.39	\$4,775
Roadway Excavation	C.Y.	\$11	9,630	\$101,111
HMA Concrete	Ton	\$85	6,717	\$570,917
Untreated Base Course	C.Y.	\$15	2,568	\$38,519
Granular Borrow	C.Y.	\$40	4,494	\$179,753
Curb and Gutter (2.5' width)	L.F.	\$23	20,800	\$468,000
Sidewalk (5' width)	L.F.	\$25	104,000	\$2,600,000
Drainage	L.F.	\$45	20,800	\$936,000
Right of Way	S.F.	\$15	104,000	\$1,560,000
Striping	L.F.	\$5	10,400	\$52,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$8,440,852

Contingency	25%	\$2,110,213
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Mobilization	10%	\$844,085
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Preconstruction Engineering	8%	\$675,268
Construction Engineering	8%	\$675,268

Total Project Costs	\$12,745,687	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$12,745,687

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **13**

West Jordan City
Transportation Master Plan
7000 South: Airport Road to 4800 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	16,460	\$164,599
Removal of Existing Asphalt	S.Y.	\$4	4,938	\$19,752
Clearing and Grubbing	Acre	\$2,000	0.06	\$126
Roadway Excavation	C.Y.	\$11	152	\$1,600
HMA Concrete	Ton	\$85	43	\$3,614
Untreated Base Course	C.Y.	\$15	41	\$610
Granular Borrow	C.Y.	\$40	71	\$2,845
Curb and Gutter (2.5' width)	L.F.	\$23	2,195	\$49,380
Sidewalk (5' width)	L.F.	\$25	10,973	\$274,331
Drainage	L.F.	\$45	2,195	\$98,759
Right of Way	S.F.	\$15	2,743	\$41,150
Striping	L.F.	\$5	1,097	\$5,487
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$662,252

Contingency	25%	\$165,563
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Mobilization	10%	\$66,225
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Preconstruction Engineering	8%	\$52,980
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Construction Engineering	8%	\$52,980
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Total Project Costs	\$1,000,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$1,000,000

Overall Assumptions:

Project # **14**

- HMA Pavement Density (pcf) = 155
- HMA Thickness (in) = 4
- Untreated Base Course Thickness (in) = 8
- Granual Borrow Thickness (in) = 14
- Roadway Excavation Depth (ft) = 2.5
- Sidewalk Thickness (in) = 5
- Drainage includes LID

West Jordan City
Transportation Master Plan
5600 West: 6200 South ot 7000 South
City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	35,866	\$358,660
Removal of Existing Asphalt	S.Y.	\$4	11,955	\$47,821
Clearing and Grubbing	Acre	\$2,000	3.35	\$6,697
Roadway Excavation	C.Y.	\$11	9,077	\$95,311
HMA Concrete	Ton	\$85	6,331	\$538,164
Untreated Base Course	C.Y.	\$15	2,421	\$36,309
Granular Borrow	C.Y.	\$40	4,236	\$169,441
Curb and Gutter (2.5' width)	L.F.	\$23	4,782	\$107,598
Sidewalk (6' width)	L.F.	\$30	28,693	\$860,784
Drainage	L.F.	\$45	4,782	\$215,196
Right of Way	S.F.	\$15	145,855	\$2,187,826
Striping	L.F.	\$5	2,391	\$11,955
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$4,635,762

Contingency	25%	\$1,158,940
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Mobilization	10%	\$463,576
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Preconstruction Engineering	8%	\$370,861
Construction Engineering	8%	\$370,861

Total Project Costs	\$7,000,000	
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West Jordan's Responsibility Via Impact Fee's	16%
	\$1,120,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # 15

West Jordan City
Transportation Master Plan
7400 South Extension: 5490 West to 7000 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	21,000	\$210,000
Removal of Existing Asphalt	S.Y.	\$4	4,667	\$18,667
Clearing and Grubbing	Acre	\$2,000	0.64	\$1,286
Roadway Excavation	C.Y.	\$11	1,556	\$16,333
HMA Concrete	Ton	\$85	434	\$36,890
Untreated Base Course	C.Y.	\$15	415	\$6,222
Granular Borrow	C.Y.	\$40	726	\$29,037
Curb and Gutter (2.5' width)	L.F.	\$23	2,800	\$63,000
Sidewalk (5' width)	L.F.	\$25	14,000	\$350,000
Drainage	L.F.	\$45	2,800	\$126,000
Right of Way	S.F.	\$15	28,000	\$420,000
Striping	L.F.	\$5	1,400	\$7,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$1,284,435

Contingency	25%	\$321,109
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Mobilization	10%	\$128,443
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Preconstruction Engineering	8%	\$102,755
Construction Engineering	8%	\$102,755

Total Project Costs	\$1,939,497	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$480,346

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 16

West Jordan City
Transportation Master Plan
New North/South Roadway: 7800 South to 7000 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	105,000	\$1,050,000
Removal of Existing Asphalt	S.Y.	\$4	23,333	\$93,333
Clearing and Grubbing	Acre	\$2,000	3.21	\$6,428
Roadway Excavation	C.Y.	\$11	7,778	\$81,667
HMA Concrete	Ton	\$85	2,170	\$184,450
Untreated Base Course	C.Y.	\$15	2,074	\$31,111
Granular Borrow	C.Y.	\$40	3,630	\$145,185
Curb and Gutter (2.5' width)	L.F.	\$23	14,000	\$315,000
Sidewalk (5' width)	L.F.	\$25	70,000	\$1,750,000
Drainage	L.F.	\$45	14,000	\$630,000
Right of Way	S.F.	\$15	140,000	\$2,100,000
Striping	L.F.	\$5	7,000	\$35,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,422,174

Contingency	25%	\$1,605,544
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Mobilization	10%	\$642,217
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Preconstruction Engineering	8%	\$513,774
Construction Engineering	8%	\$513,774

Total Project Costs	\$9,697,483	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,401,732

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 17

West Jordan City
Transportation Master Plan
New Loop Roadway: 5490 West to 5800 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	63,750	\$637,500
Removal of Existing Asphalt	S.Y.	\$4	15,111	\$60,444
Clearing and Grubbing	Acre	\$2,000	1.95	\$3,903
Roadway Excavation	C.Y.	\$11	3,935	\$41,319
HMA Concrete	Ton	\$85	1,098	\$93,323
Untreated Base Course	C.Y.	\$15	1,049	\$15,741
Granular Borrow	C.Y.	\$40	1,836	\$73,457
Curb and Gutter (2.5' width)	L.F.	\$23	8,500	\$191,250
Sidewalk (5' width)	L.F.	\$25	42,500	\$1,062,500
Drainage	L.F.	\$45	8,500	\$382,500
Right of Way	S.F.	\$15	85,000	\$1,275,000
Striping	L.F.	\$5	4,250	\$21,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$3,858,187

Contingency	25%	\$964,547
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Mobilization	10%	\$385,819
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Preconstruction Engineering	8%	\$308,655
Construction Engineering	8%	\$308,655

Total Project Costs	\$5,825,862	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$1,442,865

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # 18

West Jordan City
Transportation Master Plan
New East/West Roadway: 5800 West to 5490 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	30,000	\$300,000
Removal of Existing Asphalt	S.Y.	\$4	6,667	\$26,667
Clearing and Grubbing	Acre	\$2,000	0.92	\$1,837
Roadway Excavation	C.Y.	\$11	2,222	\$23,333
HMA Concrete	Ton	\$85	620	\$52,700
Untreated Base Course	C.Y.	\$15	593	\$8,889
Granular Borrow	C.Y.	\$40	1,037	\$41,481
Curb and Gutter (2.5' width)	L.F.	\$23	4,000	\$90,000
Sidewalk (5' width)	L.F.	\$25	20,000	\$500,000
Drainage	L.F.	\$45	4,000	\$180,000
Right of Way	S.F.	\$15	40,000	\$600,000
Striping	L.F.	\$5	2,000	\$10,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$1,834,907

Contingency	25%	\$458,727
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Mobilization	10%	\$183,491
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Preconstruction Engineering	8%	\$146,793
Construction Engineering	8%	\$146,793

Total Project Costs	\$2,770,709	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$686,209

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 19

**West Jordan City
Transportation Master Plan**

**New North/South Roadway: New Bingham Highway to 6000 West to Brush Fork Drive
City Collector (2/3 Lanes)**

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	60,750	\$607,500
Removal of Existing Asphalt	S.Y.	\$4	13,500	\$54,000
Clearing and Grubbing	Acre	\$2,000	1.86	\$3,719
Roadway Excavation	C.Y.	\$11	4,500	\$47,250
HMA Concrete	Ton	\$85	1,256	\$106,718
Untreated Base Course	C.Y.	\$15	1,200	\$18,000
Granular Borrow	C.Y.	\$40	2,100	\$84,000
Curb and Gutter (2.5' width)	L.F.	\$23	8,100	\$182,250
Sidewalk (5' width)	L.F.	\$25	40,500	\$1,012,500
Drainage	L.F.	\$45	8,100	\$364,500
Right of Way	S.F.	\$15	81,000	\$1,215,000
Striping	L.F.	\$5	4,050	\$20,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$3,715,687

Contingency	25%	\$928,922
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Mobilization	10%	\$371,569
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Preconstruction Engineering	8%	\$297,255
Construction Engineering	8%	\$297,255

Total Project Costs	\$5,610,687	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$1,389,574

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # 20

West Jordan City
Transportation Master Plan
5800 West Extension: Dannon Way to Old Bingham Hwy
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	60,000	\$600,000
Removal of Existing Asphalt	S.Y.	\$4	13,333	\$53,333
Clearing and Grubbing	Acre	\$2,000	1.84	\$3,673
Roadway Excavation	C.Y.	\$11	4,444	\$46,667
HMA Concrete	Ton	\$85	2,170	\$184,450
Untreated Base Course	C.Y.	\$15	1,185	\$17,778
Granular Borrow	C.Y.	\$40	2,074	\$82,963
Curb and Gutter (2.5' width)	L.F.	\$23	8,000	\$180,000
Sidewalk (5' width)	L.F.	\$25	40,000	\$1,000,000
Drainage	L.F.	\$45	8,000	\$360,000
Right of Way	S.F.	\$15	80,000	\$1,200,000
Striping	L.F.	\$5	4,000	\$20,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$3,748,864

Contingency	25%	\$937,216
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Mobilization	10%	\$374,886
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Preconstruction Engineering	8%	\$299,909
Construction Engineering	8%	\$299,909

Total Project Costs	\$5,660,784	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$1,401,981

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	7
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 21

West Jordan City
Transportation Master Plan
10200 South: 5600 West to Mountain View Corridor
City Arterial (4/5 Lanes) - West of Bang.

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	44,990	\$449,902
Removal of Existing Asphalt	S.Y.	\$4	9,998	\$39,991
Clearing and Grubbing	Acre	\$2,000	3.17	\$6,335
Roadway Excavation	C.Y.	\$11	15,552	\$163,298
HMA Concrete	Ton	\$85	10,848	\$922,049
Untreated Base Course	C.Y.	\$15	4,147	\$62,209
Granular Borrow	C.Y.	\$40	7,258	\$290,307
Curb and Gutter (2.5' width)	L.F.	\$23	5,999	\$134,971
Sidewalk (6' width)	L.F.	\$30	35,992	\$1,079,764
Drainage	L.F.	\$45	5,999	\$269,941
Right of Way	S.F.	\$15	137,970	\$2,069,548
Striping	L.F.	\$5	2,999	\$14,997
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$5,503,311

Contingency	25%	\$1,375,828
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Mobilization	10%	\$550,331
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Preconstruction Engineering	8%	\$440,265
Construction Engineering	8%	\$440,265

Total Project Costs	\$8,310,000	
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West Jordan's Responsibility Via Impact Fee's	100%
	\$8,310,000

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	10
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	6
Drainage includes LID	

Project # **22**

West Jordan City
Transportation Master Plan
5600 West: Old Bingham Hwy to 10200 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	33,000	\$330,000
Removal of Existing Asphalt	S.Y.	\$4	7,333	\$29,333
Clearing and Grubbing	Acre	\$2,000	1.01	\$2,020
Roadway Excavation	C.Y.	\$11	2,444	\$25,667
HMA Concrete	Ton	\$85	1,194	\$101,448
Untreated Base Course	C.Y.	\$15	652	\$9,778
Granular Borrow	C.Y.	\$40	1,141	\$45,630
Curb and Gutter (2.5' width)	L.F.	\$23	4,400	\$99,000
Sidewalk (5' width)	L.F.	\$25	22,000	\$550,000
Drainage	L.F.	\$45	4,400	\$198,000
Right of Way	S.F.	\$15	44,000	\$660,000
Striping	L.F.	\$5	2,200	\$11,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$2,061,875

Contingency	25%	\$515,469
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Mobilization	10%	\$206,188
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Preconstruction Engineering	8%	\$164,950
Construction Engineering	8%	\$164,950

Total Project Costs	\$3,113,431	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$771,090

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	7
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **23**

West Jordan City
Transportation Master Plan
New Loop Roadway: 8400 South to 7600 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	105,000	\$1,050,000
Removal of Existing Asphalt	S.Y.	\$4	23,333	\$93,333
Clearing and Grubbing	Acre	\$2,000	3.21	\$6,428
Roadway Excavation	C.Y.	\$11	7,778	\$81,667
HMA Concrete	Ton	\$85	2,170	\$184,450
Untreated Base Course	C.Y.	\$15	2,074	\$31,111
Granular Borrow	C.Y.	\$40	3,630	\$145,185
Curb and Gutter (2.5' width)	L.F.	\$23	14,000	\$315,000
Sidewalk (5' width)	L.F.	\$25	70,000	\$1,750,000
Drainage	L.F.	\$45	14,000	\$630,000
Right of Way	S.F.	\$15	140,000	\$2,100,000
Striping	L.F.	\$5	7,000	\$35,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,422,174

Contingency	25%	\$1,605,544
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Mobilization	10%	\$642,217
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Preconstruction Engineering	8%	\$513,774
Construction Engineering	8%	\$513,774

Total Project Costs	\$9,697,483	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,401,732

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **24**

West Jordan City
Transportation Master Plan
6400 West Extension to 7800 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	19,500	\$195,000
Removal of Existing Asphalt	S.Y.	\$4	4,333	\$17,333
Clearing and Grubbing	Acre	\$2,000	0.60	\$1,194
Roadway Excavation	C.Y.	\$11	1,444	\$15,167
HMA Concrete	Ton	\$85	403	\$34,255
Untreated Base Course	C.Y.	\$15	385	\$5,778
Granular Borrow	C.Y.	\$40	674	\$26,963
Curb and Gutter (2.5' width)	L.F.	\$23	2,600	\$58,500
Sidewalk (5' width)	L.F.	\$25	13,000	\$325,000
Drainage	L.F.	\$45	2,600	\$117,000
Right of Way	S.F.	\$15	26,000	\$390,000
Striping	L.F.	\$5	1,300	\$6,500
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$1,192,689

Contingency	25%	\$298,172
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Mobilization	10%	\$119,269
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Preconstruction Engineering	8%	\$95,415
Construction Engineering	8%	\$95,415

Total Project Costs		\$1,800,961
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West Jordan's Responsibility Via Impact Fee's	25%
	\$446,036

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # 25

**West Jordan City
Transportation Master Plan**

7000 South: Mountain View Corridor to Future North/South Collector in Annexation Area

City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	105,750	\$1,057,500
Removal of Existing Asphalt	S.Y.	\$4	23,500	\$94,000
Clearing and Grubbing	Acre	\$2,000	3.24	\$6,474
Roadway Excavation	C.Y.	\$11	7,833	\$82,250
HMA Concrete	Ton	\$85	2,186	\$185,768
Untreated Base Course	C.Y.	\$15	2,089	\$31,333
Granular Borrow	C.Y.	\$40	3,656	\$146,222
Curb and Gutter (2.5' width)	L.F.	\$23	14,100	\$317,250
Sidewalk (5' width)	L.F.	\$25	70,500	\$1,762,500
Drainage	L.F.	\$45	14,100	\$634,500
Right of Way	S.F.	\$15	141,000	\$2,115,000
Striping	L.F.	\$5	7,050	\$35,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,468,047

Contingency	25%	\$1,617,012
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Mobilization	10%	\$646,805
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Preconstruction Engineering	8%	\$517,444
Construction Engineering	8%	\$517,444

Total Project Costs	\$9,766,751	
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West Jordan's Responsibility Via Impact Fee's	48%
	\$4,688,040

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 26

West Jordan City
Transportation Master Plan
7400 West Extension to 7000 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	45,000	\$450,000
Removal of Existing Asphalt	S.Y.	\$4	10,000	\$40,000
Clearing and Grubbing	Acre	\$2,000	1.38	\$2,755
Roadway Excavation	C.Y.	\$11	3,333	\$35,000
HMA Concrete	Ton	\$85	930	\$79,050
Untreated Base Course	C.Y.	\$15	889	\$13,333
Granular Borrow	C.Y.	\$40	1,556	\$62,222
Curb and Gutter (2.5' width)	L.F.	\$23	6,000	\$135,000
Sidewalk (5' width)	L.F.	\$25	30,000	\$750,000
Drainage	L.F.	\$45	6,000	\$270,000
Right of Way	S.F.	\$15	60,000	\$900,000
Striping	L.F.	\$5	3,000	\$15,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$2,752,360

Contingency	25%	\$688,090
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Mobilization	10%	\$275,236
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Preconstruction Engineering	8%	\$220,189
Construction Engineering	8%	\$220,189

Total Project Costs	\$4,156,064	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$1,029,314

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **27**

West Jordan City
Transportation Master Plan
7400 West: Northern Border to 7800 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	168,000	\$1,680,000
Removal of Existing Asphalt	S.Y.	\$4	37,333	\$149,333
Clearing and Grubbing	Acre	\$2,000	5.14	\$10,285
Roadway Excavation	C.Y.	\$11	12,444	\$130,667
HMA Concrete	Ton	\$85	3,472	\$295,120
Untreated Base Course	C.Y.	\$15	3,319	\$49,778
Granular Borrow	C.Y.	\$40	5,807	\$232,296
Curb and Gutter (2.5' width)	L.F.	\$23	22,400	\$504,000
Sidewalk (5' width)	L.F.	\$25	112,000	\$2,800,000
Drainage	L.F.	\$45	22,400	\$1,008,000
Right of Way	S.F.	\$15	224,000	\$3,360,000
Striping	L.F.	\$5	11,200	\$56,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$10,275,479

Contingency	25%	\$2,568,870
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Mobilization	10%	\$1,027,548
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Preconstruction Engineering	8%	\$822,038
Construction Engineering	8%	\$822,038

Total Project Costs	\$15,515,973	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$3,842,771

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **28**

West Jordan City
Transportation Master Plan
6700 West Extension to 10200 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	165,000	\$1,650,000
Removal of Existing Asphalt	S.Y.	\$4	36,667	\$146,667
Clearing and Grubbing	Acre	\$2,000	5.05	\$10,101
Roadway Excavation	C.Y.	\$11	12,222	\$128,333
HMA Concrete	Ton	\$85	3,410	\$289,850
Untreated Base Course	C.Y.	\$15	3,259	\$48,889
Granular Borrow	C.Y.	\$40	5,704	\$228,148
Curb and Gutter (2.5' width)	L.F.	\$23	22,000	\$495,000
Sidewalk (5' width)	L.F.	\$25	110,000	\$2,750,000
Drainage	L.F.	\$45	22,000	\$990,000
Right of Way	S.F.	\$15	220,000	\$3,300,000
Striping	L.F.	\$5	11,000	\$55,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$10,091,988

Contingency	25%	\$2,522,997
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Mobilization	10%	\$1,009,199
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Preconstruction Engineering	8%	\$807,359
Construction Engineering	8%	\$807,359

Total Project Costs	\$15,238,902	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$3,774,150

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # 29

West Jordan City
Transportation Master Plan
6400 West Extension: 8600 South 10200 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	105,750	\$1,057,500
Removal of Existing Asphalt	S.Y.	\$4	23,500	\$94,000
Clearing and Grubbing	Acre	\$2,000	3.24	\$6,474
Roadway Excavation	C.Y.	\$11	7,833	\$82,250
HMA Concrete	Ton	\$85	2,186	\$185,768
Untreated Base Course	C.Y.	\$15	2,089	\$31,333
Granular Borrow	C.Y.	\$40	3,656	\$146,222
Curb and Gutter (2.5' width)	L.F.	\$23	14,100	\$317,250
Sidewalk (5' width)	L.F.	\$25	70,500	\$1,762,500
Drainage	L.F.	\$45	14,100	\$634,500
Right of Way	S.F.	\$15	141,000	\$2,115,000
Striping	L.F.	\$5	7,050	\$35,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,468,047

Contingency	25%	\$1,617,012
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Mobilization	10%	\$646,805
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Preconstruction Engineering	8%	\$517,444
Construction Engineering	8%	\$517,444

Total Project Costs	\$9,766,751	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,418,887

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **30**

West Jordan City
Transportation Master Plan
Wells Park Road Extension to 6700 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	30,000	\$300,000
Removal of Existing Asphalt	S.Y.	\$4	6,667	\$26,667
Clearing and Grubbing	Acre	\$2,000	0.92	\$1,837
Roadway Excavation	C.Y.	\$11	2,222	\$23,333
HMA Concrete	Ton	\$85	620	\$52,700
Untreated Base Course	C.Y.	\$15	593	\$8,889
Granular Borrow	C.Y.	\$40	1,037	\$41,481
Curb and Gutter (2.5' width)	L.F.	\$23	4,000	\$90,000
Sidewalk (5' width)	L.F.	\$25	20,000	\$500,000
Drainage	L.F.	\$45	4,000	\$180,000
Right of Way	S.F.	\$15	40,000	\$600,000
Striping	L.F.	\$5	2,000	\$10,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$1,834,907

Contingency	25%	\$458,727
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Mobilization	10%	\$183,491
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Preconstruction Engineering	8%	\$146,793
Construction Engineering	8%	\$146,793

Total Project Costs	\$2,770,709	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$686,209

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **31**

**West Jordan City
Transportation Master Plan**

7800 South: SR-111 to Future North/South Collector in Annexation Area

City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	40,871	\$408,711
Removal of Existing Asphalt	S.Y.	\$4	9,688	\$38,752
Clearing and Grubbing	Acre	\$2,000	1.13	\$2,252
Roadway Excavation	C.Y.	\$11	2,523	\$26,491
HMA Concrete	Ton	\$85	1,232	\$104,704
Untreated Base Course	C.Y.	\$15	673	\$10,092
Granular Borrow	C.Y.	\$40	1,177	\$47,094
Curb and Gutter (2.5' width)	L.F.	\$23	5,449	\$122,613
Sidewalk (5' width)	L.F.	\$25	27,247	\$681,185
Drainage	L.F.	\$45	5,449	\$245,227
Right of Way	S.F.	\$15	49,045	\$735,680
Striping	L.F.	\$5	2,725	\$13,624
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$2,436,424

Contingency	25%	\$609,106
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Mobilization	10%	\$243,642
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Preconstruction Engineering	8%	\$194,914
Construction Engineering	8%	\$194,914

Total Project Costs	\$3,679,000	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$911,161

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 7
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # **32**

West Jordan City
Transportation Master Plan
8600 South: 5600 West to Railroad
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	161,250	\$1,612,500
Removal of Existing Asphalt	S.Y.	\$4	38,222	\$152,889
Clearing and Grubbing	Acre	\$2,000	4.44	\$8,884
Roadway Excavation	C.Y.	\$11	9,954	\$104,514
HMA Concrete	Ton	\$85	2,777	\$236,052
Untreated Base Course	C.Y.	\$15	2,654	\$39,815
Granular Borrow	C.Y.	\$40	4,645	\$185,802
Curb and Gutter (2.5' width)	L.F.	\$23	21,500	\$483,750
Sidewalk (5' width)	L.F.	\$25	107,500	\$2,687,500
Drainage	L.F.	\$45	21,500	\$967,500
Right of Way	S.F.	\$15	193,500	\$2,902,500
Striping	L.F.	\$5	10,750	\$53,750
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$9,435,456

Contingency	25%	\$2,358,864
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Mobilization	10%	\$943,546
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Preconstruction Engineering	8%	\$754,837
Construction Engineering	8%	\$754,837

Total Project Costs	\$14,247,539	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$3,528,624

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **33**

West Jordan City
Transportation Master Plan
7200 West: 8200 South to 9000 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	81,750	\$817,500
Removal of Existing Asphalt	S.Y.	\$4	18,167	\$72,667
Clearing and Grubbing	Acre	\$2,000	2.50	\$5,005
Roadway Excavation	C.Y.	\$11	6,056	\$63,583
HMA Concrete	Ton	\$85	1,690	\$143,608
Untreated Base Course	C.Y.	\$15	1,615	\$24,222
Granular Borrow	C.Y.	\$40	2,826	\$113,037
Curb and Gutter (2.5' width)	L.F.	\$23	10,900	\$245,250
Sidewalk (5' width)	L.F.	\$25	54,500	\$1,362,500
Drainage	L.F.	\$45	10,900	\$490,500
Right of Way	S.F.	\$15	109,000	\$1,635,000
Striping	L.F.	\$5	5,450	\$27,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$5,000,121

Contingency	25%	\$1,250,030
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Mobilization	10%	\$500,012
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Preconstruction Engineering	8%	\$400,010
Construction Engineering	8%	\$400,010

Total Project Costs	\$7,550,183	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$1,869,920

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **34**

**West Jordan City
Transportation Master Plan**

9000 South: Hwy 111 to Future North/South Collector in Annexation Area

City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	97,500	\$975,000
Removal of Existing Asphalt	S.Y.	\$4	21,667	\$86,667
Clearing and Grubbing	Acre	\$2,000	2.98	\$5,969
Roadway Excavation	C.Y.	\$11	7,222	\$75,833
HMA Concrete	Ton	\$85	3,526	\$299,731
Untreated Base Course	C.Y.	\$15	1,926	\$28,889
Granular Borrow	C.Y.	\$40	3,370	\$134,815
Curb and Gutter (2.5' width)	L.F.	\$23	13,000	\$292,500
Sidewalk (5' width)	L.F.	\$25	65,000	\$1,625,000
Drainage	L.F.	\$45	13,000	\$585,000
Right of Way	S.F.	\$15	130,000	\$1,950,000
Striping	L.F.	\$5	6,500	\$32,500
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,091,904

Contingency	25%	\$1,522,976
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Mobilization	10%	\$609,190
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Preconstruction Engineering	8%	\$487,352
Construction Engineering	8%	\$487,352

Total Project Costs	\$9,198,775	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,278,219

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	7
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **35**

West Jordan City
Transportation Master Plan
9400 South: 6700 West to 8000 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	93,000	\$930,000
Removal of Existing Asphalt	S.Y.	\$4	20,667	\$82,667
Clearing and Grubbing	Acre	\$2,000	2.85	\$5,693
Roadway Excavation	C.Y.	\$11	6,889	\$72,333
HMA Concrete	Ton	\$85	1,922	\$163,370
Untreated Base Course	C.Y.	\$15	1,837	\$27,556
Granular Borrow	C.Y.	\$40	3,215	\$128,593
Curb and Gutter (2.5' width)	L.F.	\$23	12,400	\$279,000
Sidewalk (5' width)	L.F.	\$25	62,000	\$1,550,000
Drainage	L.F.	\$45	12,400	\$558,000
Right of Way	S.F.	\$15	124,000	\$1,860,000
Striping	L.F.	\$5	6,200	\$31,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$5,688,211

Contingency	25%	\$1,422,053
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Mobilization	10%	\$568,821
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Preconstruction Engineering	8%	\$455,057
Construction Engineering	8%	\$455,057

Total Project Costs	\$8,589,199	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,127,248

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **36**

West Jordan City
Transportation Master Plan
9800 South: 6700 West to 8000 West
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	105,000	\$1,050,000
Removal of Existing Asphalt	S.Y.	\$4	23,333	\$93,333
Clearing and Grubbing	Acre	\$2,000	3.21	\$6,428
Roadway Excavation	C.Y.	\$11	7,778	\$81,667
HMA Concrete	Ton	\$85	2,170	\$184,450
Untreated Base Course	C.Y.	\$15	2,074	\$31,111
Granular Borrow	C.Y.	\$40	3,630	\$145,185
Curb and Gutter (2.5' width)	L.F.	\$23	14,000	\$315,000
Sidewalk (5' width)	L.F.	\$25	70,000	\$1,750,000
Drainage	L.F.	\$45	14,000	\$630,000
Right of Way	S.F.	\$15	140,000	\$2,100,000
Striping	L.F.	\$5	7,000	\$35,000
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,422,174

Contingency	25%	\$1,605,544
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Mobilization	10%	\$642,217
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Preconstruction Engineering	8%	\$513,774
Construction Engineering	8%	\$513,774

Total Project Costs	\$9,697,483	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,401,732

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granual Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **37**

West Jordan City
Transportation Master Plan
8000 West: 9000 South to 10200 South
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	102,750	\$1,027,500
Removal of Existing Asphalt	S.Y.	\$4	22,833	\$91,333
Clearing and Grubbing	Acre	\$2,000	3.15	\$6,290
Roadway Excavation	C.Y.	\$11	7,611	\$79,917
HMA Concrete	Ton	\$85	2,124	\$180,498
Untreated Base Course	C.Y.	\$15	2,030	\$30,444
Granular Borrow	C.Y.	\$40	3,552	\$142,074
Curb and Gutter (2.5' width)	L.F.	\$23	13,700	\$308,250
Sidewalk (5' width)	L.F.	\$25	68,500	\$1,712,500
Drainage	L.F.	\$45	13,700	\$616,500
Right of Way	S.F.	\$15	137,000	\$2,055,000
Striping	L.F.	\$5	6,850	\$34,250
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,284,556

Contingency	25%	\$1,571,139
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Mobilization	10%	\$628,456
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Preconstruction Engineering	8%	\$502,764
Construction Engineering	8%	\$502,764

Total Project Costs	\$9,489,680	
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West Jordan's Responsibility Via Impact Fee's	25%
	\$2,350,266

Overall Assumptions:

HMA Pavement Density (pcf) =	155
HMA Thickness (in) =	4
Untreated Base Course Thickness (in) =	8
Granular Borrow Thickness (in) =	14
Roadway Excavation Depth (ft) =	2.5
Sidewalk Thickness (in) =	5
Drainage includes LID	

Project # **38**

**West Jordan City
Transportation Master Plan**

10200 South: Hwy 111 to Future North/South Collector in Annexation Area

City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	77,250	\$772,500
Removal of Existing Asphalt	S.Y.	\$4	17,167	\$68,667
Clearing and Grubbing	Acre	\$2,000	2.36	\$4,729
Roadway Excavation	C.Y.	\$11	5,722	\$60,083
HMA Concrete	Ton	\$85	1,597	\$135,703
Untreated Base Course	C.Y.	\$15	1,526	\$22,889
Granular Borrow	C.Y.	\$40	2,670	\$106,815
Curb and Gutter (2.5' width)	L.F.	\$23	10,300	\$231,750
Sidewalk (5' width)	L.F.	\$25	51,500	\$1,287,500
Drainage	L.F.	\$45	10,300	\$463,500
Right of Way	S.F.	\$15	103,000	\$1,545,000
Striping	L.F.	\$5	5,150	\$25,750
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$4,724,885

Contingency	25%	\$1,181,221
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Mobilization	10%	\$472,489
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Preconstruction Engineering	8%	\$377,991
Construction Engineering	8%	\$377,991

Total Project Costs	\$7,134,577	
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West Jordan's Responsibility Via Impact Fee's	50%
	\$3,567,288

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granular Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # 39

West Jordan City
Transportation Master Plan
Future North/South Collector in Annexation Area
City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	407,250	\$4,072,500
Removal of Existing Asphalt	S.Y.	\$4	90,500	\$362,000
Clearing and Grubbing	Acre	\$2,000	12.47	\$24,931
Roadway Excavation	C.Y.	\$11	30,167	\$316,750
HMA Concrete	Ton	\$85	8,417	\$715,403
Untreated Base Course	C.Y.	\$15	8,044	\$120,667
Granular Borrow	C.Y.	\$40	14,078	\$563,111
Curb and Gutter (2.5' width)	L.F.	\$23	54,300	\$1,221,750
Sidewalk (5' width)	L.F.	\$25	271,500	\$6,787,500
Drainage	L.F.	\$45	54,300	\$2,443,500
Right of Way	S.F.	\$15	543,000	\$8,145,000
Striping	L.F.	\$5	27,150	\$135,750
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$24,908,861

Contingency	25%	\$6,227,215
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Mobilization	10%	\$2,490,886
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Preconstruction Engineering	8%	\$1,992,709
Construction Engineering	8%	\$1,992,709

Total Project Costs	\$37,612,381	
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West Jordan's Responsibility Via Impact Fee's	0%
	\$0

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granual Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # **40**

**West Jordan City
Transportation Master Plan**

1300 West: Northern City Border to Southern City Border

City Collector (2/3 Lanes)

Costs

Item	Unit	Unit Cost	Quantity	Cost
Parkstrip	S.F.	\$10	154,133	\$1,541,329
Removal of Existing Asphalt	S.Y.	\$4	34,252	\$137,007
Clearing and Grubbing	Acre	\$2,000	0.94	\$1,887
Roadway Excavation	C.Y.	\$11	11,417	\$119,881
HMA Concrete	Ton	\$85	3,185	\$270,760
Untreated Base Course	C.Y.	\$15	3,045	\$45,669
Granular Borrow	C.Y.	\$40	5,328	\$213,122
Curb and Gutter (2.5' width)	L.F.	\$23	20,551	\$462,399
Sidewalk (5' width)	L.F.	\$25	102,755	\$2,568,882
Drainage	L.F.	\$45	20,551	\$924,797
Right of Way	S.F.	\$15	41,102	\$616,532
Striping	L.F.	\$5	10,276	\$51,378
Bridge/Culvert	Each	\$220,000	0	\$0
Traffic Signal	Each	\$180,000	0	\$0
Subtotal				\$6,953,642

Contingency	25%	\$1,738,411
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Mobilization	10%	\$695,364
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Preconstruction Engineering	8%	\$556,291
Construction Engineering	8%	\$556,291

Total Project Costs	\$10,500,000	
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West Jordan's Responsibility Via Impact Fee's	20%
	\$2,100,000

Overall Assumptions:

HMA Pavement Density (pcf) = 155
HMA Thickness (in) = 4
Untreated Base Course Thickness (in) = 8
Granual Borrow Thickness (in) = 14
Roadway Excavation Depth (ft) = 2.5
Sidewalk Thickness (in) = 5
Drainage includes LID

Project # **43**