# Redmond Central Connector Master Plan Appendix G

# **Cost Considerations**

The Berger Partnership May, 2011

# Redmond Central Connector Master Plan Cost Considerations Preface

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This master plan is intended to serve as a decision-making guide for the City. "Decision-making" frequently implies spending money; as a result, this plan includes preliminary cost estimates for specific items in the Connector. It is important to note that these costs are intended to be used as budgeting figures and do not reflect a guaranteed construction cost, as the elements are not yet fully designed to ensure that level of accuracy.

Most park projects lend themselves to phasing, and this is the case with the Redmond Central Connector. Furthermore, many master plans are never fully realized, as priorities and influences change over time. Through the planning phase of this project we have identified several areas that together make up the Connector. These Master Plan Cost Considerations (MPCC) address each of these areas individually with numerous assumptions made for levels of design not yet fully defined or visible in the master plan drawings. The assumptions for this document are as follows.

#### **General Assumptions**

- This estimate has been prepared on the assumption that the project is bid and a general contractor will complete the work.
- Park plans and graphics included in the master plan are intended to convey a long-term vision for the corridor.
- All elements included on the plans may not be included in this Probable Cost of Construction due to pending resolution on adjacent properties by the City and (or) the proposed work involves significant impacts beyond the scope of this project.
- Items involving work that is not clearly defined at the master plan level are
  either noted as N.I.C. or given a cost allowance. The allowances provided are
  estimated figures based on items from similar projects of like character and site
  conditions.

#### **Cost Ranges**

Some elements included in the MPCC that may have a range in costs are included with the higher cost to allow the city further leeway in establishing a budget.

#### **Mark-up Definitions**

Mark-ups are generally required to allocate prime contractor costs beyond those that can be quantified under Direct Costs. Additional post-bid mark-ups may also be included to reflect additional costs to the project beyond those of the general

# Redmond Central Connector Master Plan Cost Considerations Preface

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contractor, including sales tax, design fees and administrative costs. A typical percentage assigned to each of these mark-ups is noted below and is typical for similar projects but may vary based upon a variety of factors.

# **Construction Contract Mark-ups**

- <u>Direct Construction Costs:</u> The sum of line item costs in the estimate. These are the direct costs to the prime contractor.
- <u>Design Contingency:</u> Design contingency is a reflection of the level of design
  on which the MPCC is based. This contingency is an allowance to reflect
  unforeseen or non-quantifiable elements of the project that will be incorporated
  during subsequent design development work. This contingency is higher in the
  early phases of design and gets lower as the design approaches completion.
  This is not a bid contingency or an owner construction contingency. For this
  project, we would recommend a design contingency of 20%.
- General Conditions: Direct field costs to the general contractor which cannot be charged to any particular item of work. These items include, but are not limited to: mobilization, job shack, phone and fax, storage shed, temporary work, demobilization, etc. For this project, general conditions are assumed to be 5%.
- <u>Contractor Overhead:</u> Home office costs to the general contractor including, but not limited to: accounting, billing, estimating, project management, etc.
   For this project, Contractor overhead is assumed to be 5%.
- <u>Contractor Profit:</u> This fee is a percentage of gross project costs. For this estimate, contractor profit is assumed to be 6%.
- Escalation: Escalation is a provision for inflation increasing the cost of labor, materials and equipment over time. Escalation is typically applied from the date of the estimate projecting to the midpoint of future construction. For the purposes of this cost estimate, given no firm timeline, no escalation has been included in this cost estimate. While a rate of escalation is highly dependent on existing economic conditions, the rate is historically in the "ballpark" of around 3% annually, but can fluctuate greatly.

#### Post-Bid Costs (Soft Costs)

 <u>Sales Tax:</u> The local sales tax rate will ultimately be applied to the costs. This MPCC includes 9.5% sales tax.

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- <u>Estimated Design Fees:</u> Design costs to the consultant team to develop the
  design, apply for permits, and produce Construction Documents to put the
  project out to bid. For this estimate, design fees are assumed to be 15% of the
  total cost of construction.
- Administrative Costs: Administrative costs include budgeting of city department staff time in realizing a project. Administrative costs can range widely dependent upon a city's bookkeeping and project management protocols. For this MPCC, we have assumed administrative costs of 10%.
- Permitting Costs: Permit costs are generally based on a percentage of the value of the permitted improvement. (To clarify, this does not usually mean the cost of the entire project, but the element being permitted.) These permit fees are difficult to forecast and are not included in this estimate (listed as NIC). However in two (2) areas where environmental permits and mitigation are anticipated, permitting and mitigation allowances have been included.

#### **MPCC Qualifications**

These Master Plan Cost Considerations are prepared as a guide only. The Berger Partnership makes no warranty that actual costs will not vary from the amounts indicated and assumes no liability for such variance.

This MPCC is based on master plan level design.

Fees such as permits, inspections, and utility connections are not included in this MPCC.

No maintenance costs are included in this MPCC.

Project: Redmond BNSF Trail Corridor

Downtown Trail (2012)

Quantity	Unit	Unit Cost	Total
60,000	SF	1.00	60,000.00
	Allow		10,000.00
	Allow		75,000.0
	Allow		75,000.0
60,000	SF	3.00	180,000.0
2.000	CY	25.00	50,000.0
6,400	FF	20.00	128,000.0
•			•
640	LF	65.00	41,600.0
А	llowand	е	140,000.0
			N.I.C
Subtot	al Site	Preparation	\$759,600.0
			,
			NILC
			N.I.C N.I.C
			N.I.C N.I.C
	60,000 60,000 2,000 6,400 640 A	60,000 SF  Allow Allow  60,000 SF  2,000 CY 6,400 FF  640 LF Allowance	60,000 SF 1.00  Allow Allow  Allow  60,000 SF 3.00  2,000 CY 25.00 6,400 FF 20.00

Project: Redmond BNSF Trail Corridor Date: May 2011

oject: Redmond BNSF Trail Corridor		Dat	e: May 2011	
owntown Trail (2012)				
em Description	Quantity	Unit	Unit Cost	Total
te Improvements				
Trail- 12' wide asphalt trail	4,900	LF	30.00	147,000.0
4" asphalt lift	.,000		33.33	, , , , , , , , ,
Trail- Additional cost of 12' wide concrete trail	4,900	LF	12.00	58,800.0
CIP concrete paving (4" depth concrete)	.,			,
16' crushed rock subgrade (including 2' crushed rock shoulders				
both sides)	1,350	LF	30.00	40,500.0
Occurs outside of stormwater trunk line limit of work (crushed rock				
base included in stormwater trunk line scope of work)				
CIP concrete stairs at Sammamish River (includes rebar)	150	CY	950.00	142,500.0
Improvements between Redmond Way crossing and SRT atop				
abutment				
Improvements include:				
Existing subgrade to remain				
16' wide concrete paving with thickened edge	1,300	LF	50.00	65,000.0
Railing	2,600	LF	65.00	169,000.0
Seating Nodes				
Improvements include:				
Concrete Pavers (600 sf per seating node)	16	EΑ	9,600.00	153,600.0
Tables	8	EΑ	2,500.00	20,000.0
Benches	16	EΑ	2,500.00	40,000.0
Bike Racks	16	EΑ	1,500.00	24,000.0
Trash Can (Trash, Recycling, Pet Waste)	16	EΑ	1,000.00	16,000.0
East/ West Pedestrian Street Crossings at: 170th Ave. NE, 166th				
Ave. NE, 161st Ave. NE, 164th Ave. NE (future 2012) & Leary				
Improvements Include:				
Enhanced paving (800 sf per crossing)	5	EΑ	5,600.00	28,000.0
Striping	5	EΑ	5,000.00	25,000.0
Bollards (6 per crossing)	5	EΑ	1,200.00	6,000.0
Potential modification of traffic control signaling at existing				
intersections	2	EΑ	100,000.00	200,000.0
Modifications include:				
164th Ave. NE and 166th Ave. NE				
4-way improvements				
Ped heads, push buttons and wiring at signals				
North/South Mid-Block Pedestrian Street Crossings to Town				
Center Mall across NE 76th St at 168th				
Improvements Include:				
Enhanced paving (800 sf per crossing)	1	EΑ	5,600.00	5,600.0
Striping	1	EΑ	5,000.00	5,000.0
Lighted pedestrian mid-block crossing	1	EΑ	75,000.00	75,000.0
Redmond Way Trestle Improvements as needed to meet				
WSDOT/AASHTO standards				
Enhance pedestrian and safety amenities (rail demo and asphalt				
trail and subgrade included elsewhere)		Allow		20,000.0
170th Trestle Improvements as needed to meet WSDOT/ AASHTO				
standards		Allow		10,000.0
Improvement allowance to provide:				
Grading to meet ADA				
Decking to meet ADA				
Guardrails				
Signage				
Traffic and trail etiquette signs on trail		Allow		5,000.0
Traffic control signage as needed on approaching roads		Allow		10,000.0
Lighting- safety pathway lighting				N.I.0
Approximately 1 fixture eveny 75 ft		Allow		237,000.0
Approximately 1 fixture every 75 ft.		/ IIIO V V		201,000.0

Project: Redmond BNSF Trail Corridor

Downtown Trail (2012)

Item Description	Quantity	Unit	Unit Cost	Total
Landscape				
Irrigation				
2" Meter (provided by municipality)		Allow		9,000.00
POC (DCVA, Master valve, vaults, etc.; assumes 2" connection)		Allow		20,000.00
Controller (commercial, maxicom)		Allow		15,000.00
Mainline system w/ quick couplers	6,200	LF	28.00	173,600.00
Meadow Irrigation	67,800	SF	1.00	67,800.00
Planting Bed Irrigation	72,000	SF	1.75	126,000.00
Site Restoration				
Improvements include:				
6' on either side of path (5,650 LF)				
Import 4" of topsoil	828	CY	35.00	28,980.00
Meadow mix (seeded)	67,800	SF	0.50	33,900.00
Planting Areas at Pedestrian Street Crossings				
Improvements include:				
9 street crossings				
500 sf of planting at each crossing				
Topsoil import- 6"	250	CY	35.00	8,750.00
Trees	50	EΑ	400.00	20,000.00
Shrubs, groundcover, and mulch @ edge restoration	500	SF	8.00	4,000.00
Planting Areas at Seating Nodes				
Improvements include:				
16 seating nodes				
500 sf at each seating node				
Topsoil import- 6"	250	CY	35.00	8,750.00
Trees	50	EΑ	400.00	20,000.00
Shrubs, groundcover, and mulch @ edge restoration	500	SF	8.00	4,000.00
	:	Subtotal	Landscape	\$539,780.00
Construction Soft Costs				
Traffic Control		Allow		45,000.00
Includes:				
160th, Leary, 166th and 170th				
2 flaggers,1 uniformed police officer				
4 portable message signs				
Survey (1.5% Project Cost)				\$42,710.70
Mobilization (8% Project Total)				\$227,790.40
	Subtotal Con	structio	n Soft Costs	\$315,501.10
			Total	\$3,117,881.10

Project: Redmond BNSF Trail Corridor Date: May 2011

Downtown Trail (2012)

DOWIILOWII ITAII (2012)				
Item Description	Quantity	Unit	Unit Cost	Total
	ermined %)	\$0.00		
	Design (	Conting	gency (20%)	\$623,576.22
			Subtotal	\$3,741,457.32
	Gener	al Cond	ditions (5%)	\$187,072.87
			Subtotal	\$3,928,530.19
	Contract	tor Ove	erhead (5%)	\$196,426.51
			Subtotal	\$4,124,956.70
	Con	tractor	Profit (6%)	\$247,497.40
	Total Construction	Contra	act Amount	\$4,372,454.10
Design and Administrative Soft Costs				
		Sale	s Tax (9.5%)	\$415,383.14
Estimated Des	ign Fees (15% Total Construction	Contra	act Amount)	\$655,868.11
	Administrative Costs (10% Do	esign C	ontingency)	\$65,586.81
	Pern	nitting	Fees (N.I.C.)	\$0.00
	Design and Administrative So	oft Cos	ts Subtotal	\$1,136,838.07
	Grand Total Downtown Trail 201	.2 Proje	ect Amount	\$5,509,292.16

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

tom December				
Item Description	Quantity	Unit	Unit Cost	Total
Sammamish River Crossing (Sammamish River to Redmo	ond Way)			
Site Preparation				
Clearing/Grubbing	30,000	SF	1.00	30,000.00
Scope Includes:				
75% of landscape area				
Tree Removal		Allow		2,000.00
Near R.R. abutment				
Hauling/Dumping		Allow		5,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not				
include import or export of fill)	15,000	SF	3.00	45,000.00
Scope Includes:				
Balanced cut and fill on site				
T.E.S.C. (Not included in Cost)				N.I.C.
Sammamish River Crossing 201	L6-2020 Subtot	al Site	Preparation	\$82,000.0
Charles and the Control of the Contr				
Site Civil Infrastructure (Not Included In Cost)				NIC
Water				N.I.C.
Sewer				N.I.C.
Electrical Sammamish River Crossing 2016-202		<u> </u>		N.I.C. N.I.C.
Site Improvements "The Ties"	1,255	LF	Varies	
Scope Includes:				
60% of length of Ties to be flush stone paving bands	879	LF	70.00	61,495.00
40% of length of Ties to be 2' high stone seatwalls	377	LF	220.00	
	3//		220.00	82,830.00
8% of length receives screen, shelter or feature attachments	188	LF	700.00	82,830.00 131,775.00
Art Integration Allowance	188	LF	700.00 Allow	
	188	LF	700.00 Allow	131,775.00
Art Integration Allowance	188	LF	700.00 Allow	131,775.00 500,000.00
Art Integration Allowance Sammamish River Crossing 2016-	188	LF	700.00 Allow	131,775.00 500,000.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape	188	LF	700.00 Allow	131,775.00 500,000.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation	188 <b>-2020 Subtotal</b>	LF Site Ir	700.00 Allow nprovements	131,775.00 500,000.00 \$776,100.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation	188 <b>-2020 Subtotal</b> 20,000	LF Site Ir	700.00 Allow nprovements	131,775.00 500,000.00 \$776,100.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation Planting Bed Irrigation	188 <b>-2020 Subtotal</b> 20,000	LF Site Ir	700.00 Allow nprovements	131,775.00 500,000.00 \$776,100.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration	188 <b>-2020 Subtotal</b> 20,000	LF Site Ir	700.00 Allow nprovements	131,775.00 500,000.00 \$776,100.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include:	188 - <b>2020 Subtotal</b> 20,000 10,000	LF Site In	700.00 Allow nprovements  1.00 1.75	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include: Import 4" of topsoil at meadow areas	188 2020 Subtotal 20,000 10,000	LF Site In	700.00 Allow nprovements  1.00 1.75	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00
Art Integration Allowance Sammamish River Crossing 2016- Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include: Import 4" of topsoil at meadow areas Meadow mix (seeded)	188 2020 Subtotal 20,000 10,000	LF Site In	700.00 Allow nprovements  1.00 1.75	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00
Art Integration Allowance  Sammamish River Crossing 2016-  Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include: Import 4" of topsoil at meadow areas Meadow mix (seeded)  Planting Areas Topsoil import- 6" Trees	188  2020 Subtotal  20,000 10,000  244 20,000	SF SF CY SF CY EA	700.00 Allow nprovements  1.00 1.75  35.00 0.50  35.00 400.00	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00 8,540.00 10,000.00 6,475.00 10,000.00
Art Integration Allowance  Sammamish River Crossing 2016-  Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include: Import 4" of topsoil at meadow areas Meadow mix (seeded)  Planting Areas Topsoil import- 6" Trees Shrubs, groundcover, and mulch	188  20020 Subtotal  20,000 10,000  244 20,000 185 25 10,000	SF SF CY SF SF	700.00 Allow nprovements  1.00 1.75  35.00 0.50  35.00 400.00 8.00	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00 8,540.00 10,000.00 6,475.00 10,000.00 80,000.00
Art Integration Allowance  Sammamish River Crossing 2016-  Landscape Irrigation Meadow Irrigation Planting Bed Irrigation Site Restoration Improvements include: Import 4" of topsoil at meadow areas Meadow mix (seeded)  Planting Areas Topsoil import- 6" Trees	188  20020 Subtotal  20,000 10,000  244 20,000 185 25 10,000	SF SF CY SF SF	700.00 Allow nprovements  1.00 1.75  35.00 0.50  35.00 400.00 8.00	131,775.00 500,000.00 \$776,100.00 20,000.00 17,500.00 8,540.00 10,000.00 6,475.00 10,000.00

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Item Description	Quantity	Unit	Unit Cost	Total
	ermined %)	\$0.00		
	Design C	Conting	gency (20%)	\$202,123.00
		Proje	ect Subtotal	\$1,212,738.00
	Genera	al Cond	ditions (5%)	\$60,636.90
			Subtotal	\$1,273,374.90
	Contract	or Ove	erhead (5%) _	\$63,668.75
			Subtotal	\$1,337,043.65
	Conf	tractor	Profit (6%)	\$80,222.62
Sammamish River Crossing 2016-2020	Construction	Contra	act Amount	\$1,417,266.26
Design and Administrative Soft Costs				
		Sales	Tax (9.5%)	\$134,640.30
Estimated Design Fees (15% Total C	Construction	Contra	ct Amount)	\$212,589.94
Administrative C	osts (10% De	sign Co	ontingency)	\$21,258.99
	Perm	itting F	ees (N.I.C.)	\$0.00
Sammamish River Crossing 2016-2020 Design a	and Administ	rative	Soft Costs	\$368,489.23
TOTAL Sammamish R	iver Crossing	2016-2	2020 Costs	\$1,785,755.49

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Item Description Higher Ground (Redmond Way to 161st Ave NE) Site Preparation	Quantity	Unit	Unit Cost	Total
Site Preparation	07.005			
-	07.005			
	07.005			
Clearing/Grubbing	37,865	SF	1.00	37,865.00
Scope Includes:				
75% of landscape & paving area				
Tree Removal		Allow		2,000.00
Near R.R. abutment				
Hauling/Dumping		Allow		3,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not				
include import or export of fill)	15,000	SF	3.00	45,000.00
Scope Includes:				
Balanced cut and fill on site				
T.E.S.C. (Not Included In Cost)	2000 0 11 1			N.I.C.
Higher Ground 2016-2	2020 Subtot	al Site	Preparation	\$87,865.00
Site Oid Infrastructure (Not Included In Ocat)				
Site Civil Infrastructure (Not Included In Cost) Water				N.I.C.
				N.I.C. N.I.C.
Sewer Electrical				N.I.C. N.I.C.
Higher Ground 2016-2020 S	uhtotal Site	Civil Ir	fractructure	N.I.C.
inglier Ground 2010-2020 3	ubtotai Site	CIVII II	mastructure	14.1.0.
Site Improvements				
Paving Areas (Total)	10,110	SF	Varies	
Includes:	10,110	Oi	vancs	
80% CIP concrete paving (4" depth, standard finish)	8,088	SF	3.50	28,308.00
20% CIP enhanced concrete paving (4" depth, standard finish)	2,022	SF	7.00	14,154.00
CIP concrete stairs (includes rebar)	85	CY	950.00	80,750.00
"The Ties"	1,835	LF	Varies	
Scope Includes:				
60% of length of Ties to be flush stone paving bands	1,285	LF	70.00	89,915.00
40% of length of Ties to be 2' high stone seatwalls	551	LF	220.00	121,110.00
8% of length receives screen, shelter or feature attachments	275	LF	700.00	192,675.00
Art Integration Allowance			Allow	250,000.00
Higher Ground 2016-202	20 Subtotal	Site In	nprovements	\$776,912.00
Landscape				
Irrigation				
Meadow Irrigation (60%)	24,220	SF	1.00	24,220.00
Planting Bed Irrigation (40%)	9.690	SF	1.75	16,957.50
Site Restoration	-,			,
Improvements include:				
Import 4" of topsoil at meadow areas	296	CY	35.00	10,360.78
Meadow mix (seeded)	24,220	SF	0.50	12,110.00
Planting Areas				
Topsoil import- 6"	179	CY	35.00	6,280.56
Trees	25	EΑ	400.00	10,000.00
Shrubs, groundcover, and mulch	9,690	SF	8.00	77,520.00
Higher Ground 2	2016-2020 S	ubtota	Landscape	\$157,448.83
		C 000		Ф1 000 00E 00

Project: Redmond BNSF Trail Corridor Date: May 2011

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Es	calation (	undet	ermined %)	\$0.00
	Design C	onting	ency (20%) _	\$204,445.17
		Proje	ct Subtotal	\$1,226,671.00
	Genera	al Cond	ditions (5%)	\$61,333.55
			Subtotal	\$1,288,004.55
	Contract	or Ove	rhead (5%)	\$64,400.23
			Subtotal	\$1,352,404.78
	Cont	ractor	Profit (6%)	\$81,144.29
TOTAL Higher Ground 2016-2020 Cons	truction	Contra	ct Amount	\$1,433,549.06
Design and Administrative Soft Costs				
		Sales	Tax (9.5%)	\$136,187.16
Estimated Design Fees (15% Total Cons	truction (	Contra	ct Amount)	\$215,032.36
Administrative Costs	(10% De	sign Co	ontingency)	\$21,503.24
	Permi	itting F	ees (N.I.C.)	\$0.00
Higher Ground 2016-2020 Design and A	Administ	rative	Soft Costs	\$372,722.76
				4
TOTAL Higher	Ground	2016-2	2020 Costs	\$1,806,271.82

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Station (16.1st Ave NE to Leary Way)	Trail Enhancements (2016-2020)				
Clearing/Grubbing	Item Description	Quantity	Unit	Unit Cost	Total
Clearing/Grubbing	Station (161st Ave NE to Leary Way)				
Scope Includes:   75% of Iandscape & paving area   Hauling/Dumpling   Allow   2,000.00	Site Preparation				
Hauling / Dumping   Scope Includes:   Landscape Debris   Rough Grading (Assumes balanced cut and fill on site. Does not include import or export of fill)   Scope Includes:   Balanced cut and fill on site.   Does not include import or export of fill)   Scope Includes:   Balanced cut and fill on site   Scope Includes:   Balanced cut and fill on site   Scope Includes:   Balanced cut and fill on site   Station 2016-2020 Subtotal   Site Preparation   Station 2016-2020 Subtotal   Site Station 2	Clearing/Grubbing	49,031	SF	1.00	49,031.25
Hauling/Dumping   Scope Includes:   Scope Includes:   Landscape Debris   Rough Grading (Assumes balanced cut and fill on site. Does not include import or export of fill)   30,000   SF   3,000   90,000,000   Scope Includes:   Balanced cut and fill on site   Station 2016-2020 Subtotal   Site Preparation   S141,031,25   Stet Civil Infrastructure (Not Included in Cost)   N.I.C.   Station 2016-2020 Subtotal   Site Preparation   S141,031,25   Site Civil Infrastructure (Not Included in Cost)   N.I.C.   N.I.	Scope Includes:				
Scope Includes:   Landscape Debris   Rough Grading (Assumes balanced cut and fill on site. Does not include import or export of fill)   Scope Includes:   Balanced cut and fill on site   Station 2016-2020 Subtotal   Site Preparation   Site Included In Cost)   N.I.C.	75% of landscape & paving area				
Landscape Debris   Rough Grading (Assumes balanced cut and fill on site. Does not include import or export of fill)   30,000   SF   3,000   90,000,000   Scope Includes: Balanced cut and fill on site   Station 2016-2020 Subtotal   Site Preparation   Station 2016-2020 Subtotal   Site Civil Infrastructure   N.I.C.   N			Allow		2,000.00
Rough Grading (Assumes balanced cut and fill on site.   Does not include import or export of fill)   30,000   SF   3,00   90,000,00   Scope includes:   Balanced cut and fill on site   T.E.S.C. (Not Included in Cost)   N.I.C.   Station 2016-2020 Subtotal Site Preparation   S141,031,25   Site Civil Infrastructure (Not Included in Cost)   N.I.C.   Sewer   N.I.C.   Sewer   N.I.C.   N.I.C.   N.I.C.   N.I.C.   Sewer   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   Site Improvements   Sit	·				
Include Import or export of fill)   Scope Includes:   Balanced cut and fill on site   T.E.S.C. (Not Included In Cost)   Station 2016-2020 Subtotal   Site Preparation   S141,031.25					
Scope   Includes: Balanced cut and fill on site   T.E.S.C. (Not Included In Cost)   Station 2016-2020 Subtotal   Site Preparation   S141,031.25					
T.E.S.C. (Not Included In Cost)   Station 2016-2020 Subtotal   Site Preparation   S141,031.25		30,000	SF	3.00	90,000.00
N.I.C.   Station 2016-2020 Subtotal   Site Preparation   Site (1,031.25   Site Civil Infrastructure (Not Included In Cost)   Site Civil Infrastructure (Not Included In Cost)   Sewer	'				
Site Civil Infrastructure (Not Included In Cost)   Water					NIIO
Mater   Sewer   Station 2016-2020 Subtotal Site Civil Infrastructure (Not Included In Cost)   N.I.C.		16 2020 Subtat	al Cita	Bronorotion	
Mater   Sewer   N.I.C.   Sewer   N.I.C.   Sewer   Sewer   Sewer   Selectrical   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   N.I.C.	Station 20.	10-2020 Subtot	ai Site	Preparation	Φ141,031.23
Mater   Sewer   N.I.C.   Sewer   N.I.C.   Sewer   Sewer   Sewer   Selectrical   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.   N.I.C.					
Sewer   Electrical   Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.					
Station 2016-2020 Subtotal Site Civil Infrastructure					
Station 2016-2020 Subtotal Site Civil Infrastructure   N.I.C.					
Paving Areas (Total)   31,110   SF   Varies			<u> </u>		
Paving Areas (Total)   31,110   SF   Varies     Includes:   25% CIP standard finish concrete paving (4" depth)   7,778   SF   3.50   27,221.25     60% CIP enhanced concrete paving (4" depth)   18,666   SF   7.00   130,662.00     15% CIP stone pavers on rat slab   4,667   SF   45.00   209,992.50     The Ties'   2,145   LF   Varies     Scope Includes:   60% of length of Ties to be flush stone paving bands   1,502   LF   70.00   105,105.00     40% of length of Ties to be 22 high stone seatwalls   644   LF   220.00   141,570.00     8% of length receives screen, shelter or feature attachments   322   LF   700.00   225,225.00     Station Canopies   3   EA   80,000.00   240,000.00     Pavilion   1   EA   350,000.00   350,000.00     Site Furnishings   Allow   60,000.00     Art Integration Allowance   Station 2016-2020 Subtotal   Site Improvements     Irrigation   Meadow Irrigation (20%)   3,584   SF   1.00   3,584.25     Planting Bed Irrigation (80%)   3,584   SF   1.00   3,584.25     Planting Bed Irrigation (80%)   3,584   SF   0.50   1,792.13     Improvements include:   Import 4" of topsoil at meadow areas   44   CY   35.00   1,533.26     Meadow mix (seeded)   3,584   SF   0.50   1,792.13     Planting Areas   266   CY   35.00   9,292.50     Trees   26   CY   35.00   9,292.50     Trees   25   EA   400.00   10,000.00     Station 2016-2020 Subtotal   Landscape   \$165,987.89	Station 2016-202	20 Subtotal Site	Civil In	ifrastructure	N.I.C.
Paving Areas (Total)   31,110   SF   Varies     Includes:   25% CIP standard finish concrete paving (4" depth)   7,778   SF   3.50   27,221.25     60% CIP enhanced concrete paving (4" depth)   18,666   SF   7.00   130,662.00     15% CIP stone pavers on rat slab   4,667   SF   45.00   209,992.50     The Ties'   2,145   LF   Varies     Scope Includes:   60% of length of Ties to be flush stone paving bands   1,502   LF   70.00   105,105.00     40% of length of Ties to be 22 high stone seatwalls   644   LF   220.00   141,570.00     8% of length receives screen, shelter or feature attachments   322   LF   700.00   225,225.00     Station Canopies   3   EA   80,000.00   240,000.00     Pavilion   1   EA   350,000.00   350,000.00     Site Furnishings   Allow   60,000.00     Art Integration Allowance   Station 2016-2020 Subtotal   Site Improvements     Irrigation   Meadow Irrigation (20%)   3,584   SF   1.00   3,584.25     Planting Bed Irrigation (80%)   3,584   SF   1.00   3,584.25     Planting Bed Irrigation (80%)   3,584   SF   0.50   1,792.13     Improvements include:   Import 4" of topsoil at meadow areas   44   CY   35.00   1,533.26     Meadow mix (seeded)   3,584   SF   0.50   1,792.13     Planting Areas   266   CY   35.00   9,292.50     Trees   26   CY   35.00   9,292.50     Trees   25   EA   400.00   10,000.00     Station 2016-2020 Subtotal   Landscape   \$165,987.89	Site Improvements				
Includes:	•	31 110	SE.	Varios	
25% CIP standard finish concrete paving (4" depth)	• , ,	31,110	OI.	varies	
18,666   SF   7.00   130,662.00   15% CIP stone pavers on rat slab   4,667   SF   45.00   209,992.50   The Ties"   2,145   LF   Varies   Scope Includes:		7 778	SE	3.50	27 221 25
15% CIP stone pavers on rat slab					
"The Ties"         2,145         LF         Varies           Scope Includes:         60% of length of Ties to be flush stone paving bands         1,502         LF         70.00         105,105.00           40% of length of Ties to be 2' high stone seatwalls         644         LF         220.00         141,570.00           8% of length receives screen, shelter or feature attachments         322         LF         700.00         225,225.00           Station Canopies         3         EA         80,000.00         240,000.00           Pavilion         1         EA         350,000.00         350,000.00           Ste Furnishings         Allow         60,000.00         60,000.00           Art Integration Allowance         Station 2016-2020 Subtotal         Site Improvements         \$1,989,775.75           Landscape           Irrigation         Meadow Irrigation (20%)         3,584         SF         1.00         3,584.25           Planting Bed Irrigation (80%)         14,337         SF         1.75         25,089.75           Site Restoration         Import 4" of topsoil at meadow areas         44         CY         35.00         1,533.26           Meadow mix (seeded)         3,584         SF         0.50         1,792.13		·			
Scope Includes:   60% of length of Ties to be flush stone paving bands   1,502   LF   70.00   105,105.00   40% of length of Ties to be 2' high stone seatwalls   644   LF   220.00   141,570.00   8% of length receives screen, shelter or feature attachments   322   LF   700.00   225,225.00   36,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00   240,000.00		,			200,002.00
60% of length of Ties to be flush stone paving bands 40% of length of Ties to be 2' high stone seatwalls 644 LF 220.00 141,570.00 8% of length receives screen, shelter or feature attachments 322 LF 700.00 225,225.00 Station Canopies 3 EA 80,000.00 240,000.00 Pavilion 1 EA 350,000.00 350,000.00 Site Furnishings AIIlow 60,000.00 Art Integration Allowance Station 2016-2020 Subtotal Site Improvements \$1,989,775.75\$  Landscape Irrigation Meadow Irrigation (20%) \$3,584 SF 1.00 \$3,584.25 Planting Bed Irrigation (80%) \$1,4337 SF 1.75 \$25,089.75 Site Restoration Improvements include: Import 4" of topsoil at meadow areas 44 CY 35.00 1,533.26 Meadow mix (seeded) \$3,584 SF 0.50 1,792.13 Planting Areas  Topsoil import -6" \$266 CY 35.00 9,292.50 Trees \$25 EA 400.00 10,000.00 Shrubs, groundcover, and mulch \$14,337 SF 8.00 \$114,696.00 \$143,37 SF 8.00 \$114,696.00 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$143,600 \$1		_,			
40% of length of Ties to be 2' high stone seatwalls	•	1,502	LF	70.00	105,105.00
8% of length receives screen, shelter or feature attachments         322         LF         700.00         225,225.00           Station Canopies         3         EA         80,000.00         240,000.00           Pavilion         1         EA         350,000.00         350,000.00           Site Furnishings         Allow         60,000.00           Art Integration Allowance         Station 2016-2020 Subtotal Site Improvements         \$500,000.00           Landscape           Irrigation           Meadow Irrigation (20%)         3,584         SF         1.00         3,584.25           Planting Bed Irrigation (80%)         14,337         SF         1.75         25,089.75           Site Restoration           Improvements include:         Improvements include:         44         CY         35.00         1,533.26           Meadow mix (seeded)         3,584         SF         0.50         1,792.13           Planting Areas           Topsoil import- 6"         266         CY         35.00         9,292.50           Trees         25         EA         400.00         10,000.00           Shrubs, groundcover, and mulch         14,337         SF </td <td></td> <td></td> <td>LF</td> <td>220.00</td> <td></td>			LF	220.00	
Pavilion         1         EA         350,000.00         350,000.00           Site Furnishings         Allow         60,000.00           Art Integration Allowance         Station 2016-2020 Subtotal         Site Improvements         \$1,989,775.75           Landscape           Irrigation         Station 2016-2020 Subtotal         Site Improvements         \$1.00         3,584.25           Planting Bed Irrigation (20%)         3,584         SF         1.00         3,584.25           Planting Bed Irrigation (80%)         14,337         SF         1.75         25,089.75           Site Restoration         Improvements include:         Improvements include:         1,533.26           Import 4" of topsoil at meadow areas         44         CY         35.00         1,533.26           Meadow mix (seeded)         3,584         SF         0.50         1,792.13           Planting Areas           Topsoil import- 6"         266         CY         35.00         9,292.50           Trees         25         EA         400.00         10,000.00           Shrubs, groundcover, and mulch         14,337         SF         8.00         114,696.00		322	LF	700.00	225,225.00
Site Furnishings         Allow         60,000.00           Art Integration Allowance         Station 2016-2020 Subtotal Site Improvements         \$1,989,775.75           Landscape           Irrigation           Meadow Irrigation (20%)         3,584         SF         1.00         3,584.25           Planting Bed Irrigation (80%)         14,337         SF         1.75         25,089.75           Site Restoration           Improvements include:         Improvements include:         Timport 4" of topsoil at meadow areas         44         CY         35.00         1,533.26           Meadow mix (seeded)         3,584         SF         0.50         1,792.13           Planting Areas         266         CY         35.00         9,292.50           Trees         25         EA         400.00         10,000.00           Shrubs, groundcover, and mulch         14,337         SF         8.00         114,696.00           Station 2016-2020 Subtotal Landscape         \$165,987.89	Station Canopies	3	EA	80,000.00	240,000.00
Art Integration Allowance Station 2016-2020 Subtotal Site Improvements \$1,989,775.75  Landscape Irrigation Meadow Irrigation (20%) 3,584 SF 1.00 3,584.25 Planting Bed Irrigation (80%) 14,337 SF 1.75 25,089.75  Site Restoration Improvements include: Import 4" of topsoil at meadow areas 44 CY 35.00 1,533.26 Meadow mix (seeded) 3,584 SF 0.50 1,792.13  Planting Areas Topsoil import- 6" 266 CY 35.00 9,292.50 Trees 25 EA 400.00 10,000.00 Shrubs, groundcover, and mulch 14,337 SF 8.00 1114,696.00  Station 2016-2020 Subtotal Landscape \$165,987.89	Pavilion	1	EA	350,000.00	350,000.00
Station 2016-2020 Subtotal Site Improvements   \$1,989,775.75	Site Furnishings			Allow	60,000.00
Landscape         Irrigation       Meadow Irrigation (20%)       3,584       SF       1.00       3,584.25         Planting Bed Irrigation (80%)       14,337       SF       1.75       25,089.75         Site Restoration         Improvements include:       Import 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	Art Integration Allowance			Allow	500,000.00
Irrigation         Meadow Irrigation (20%)       3,584       SF       1.00       3,584.25         Planting Bed Irrigation (80%)       14,337       SF       1.75       25,089.75         Site Restoration         Improvements include:       Timport 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	Station 2016	-2020 Subtotal	Site Im	provements	\$1,989,775.75
Irrigation         Meadow Irrigation (20%)       3,584       SF       1.00       3,584.25         Planting Bed Irrigation (80%)       14,337       SF       1.75       25,089.75         Site Restoration         Improvements include:       Import 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	Landecana				
Meadow Irrigation (20%)       3,584       SF       1.00       3,584.25         Planting Bed Irrigation (80%)       14,337       SF       1.75       25,089.75         Site Restoration         Improvements include:       Import 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas       Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	•				
Planting Bed Irrigation (80%)       14,337       SF       1.75       25,089.75         Site Restoration         Improvements include:       Import 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	•	3 584	SE	1.00	3 584 25
Site Restoration         Improvements include:       Import 4" of topsoil at meadow areas       44 CY 35.00 1,533.26         Meadow mix (seeded)       3,584 SF 0.50 1,792.13         Planting Areas         Topsoil import- 6"       266 CY 35.00 9,292.50         Trees       25 EA 400.00 10,000.00         Shrubs, groundcover, and mulch       14,337 SF 8.00 114,696.00         Station 2016-2020 Subtotal Landscape		•			
Improvements include:       44 CY 35.00 1,533.26         Import 4" of topsoil at meadow areas Meadow mix (seeded)       3,584 SF 0.50 1,792.13         Planting Areas       50 CY 35.00 9,292.50         Trees       25 EA 400.00 10,000.00         Shrubs, groundcover, and mulch       14,337 SF 8.00 114,696.00         Station 2016-2020 Subtotal Landscape		14,007	Oi	1.70	20,003.70
Import 4" of topsoil at meadow areas       44       CY       35.00       1,533.26         Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89					
Meadow mix (seeded)       3,584       SF       0.50       1,792.13         Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89	•	44	CY	35 00	1 533 26
Planting Areas         Topsoil import- 6"       266       CY       35.00       9,292.50         Trees       25       EA       400.00       10,000.00         Shrubs, groundcover, and mulch       14,337       SF       8.00       114,696.00         Station 2016-2020 Subtotal Landscape       \$165,987.89					
Topsoil import- 6"         266         CY         35.00         9,292.50           Trees         25         EA         400.00         10,000.00           Shrubs, groundcover, and mulch         14,337         SF         8.00         114,696.00           Station 2016-2020 Subtotal Landscape         \$165,987.89		3,00 1		5.55	1,702.10
Trees         25         EA         400.00         10,000.00           Shrubs, groundcover, and mulch         14,337         SF         8.00         114,696.00           Station 2016-2020 Subtotal Landscape         \$165,987.89		266	CY	35.00	9.292.50
Shrubs, groundcover, and mulch         14,337         SF         8.00         114,696.00           Station 2016-2020 Subtotal         Landscape         \$165,987.89					
<b>Station 2016-2020 Subtotal Landscape</b> \$165,987.89					· ·
<b>Station 2016-2020 Subtotal</b> \$2,296,794.89		*		_	
<b>Station 2016-2020 Subtotal</b> \$2,296,794.89					
		Station 201	6-2020	) Subtotal	\$2,296,794.89

Project: Redmond BNSF Trail Corridor Date: May 2011

Trail Enhancements (2016-2020)

<b>Item Description</b> Quantity Unit Unit Cost	Total
Escalation (undetermined %)	\$0.00
Design Contingency (20%)	\$459,358.98
Project Subtotal	\$2,756,153.87
General Conditions (5%)	\$137,807.69
Subtotal	\$2,893,961.56
Contractor Overhead (5%)	\$144,698.08
Subtotal	\$3,038,659.64
Contractor Profit (6%)	\$182,319.58
Station 2016-2020 Construction Contract Amount	\$3,220,979.21
Design and Administrative Soft Costs	
Sales Tax (9.5%)	\$305,993.03
Estimated Design Fees (15% Total Construction Contract Amount)	\$483,146.88
Administrative Costs (10% Design Contingency)	\$48,314.69
Permitting Fees (N.I.C.)	\$0.00
Station 2016-2020 Design and Administrative Soft Costs	\$837,454.60

TOTAL Station 2016-2020 Costs \$4,058,433.81

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
tem Description	Quantity	Unit	Unit Cost	Total
Promenade (Leary Way to 164th Ave NE)				
Site Preparation				
Clearing/Grubbing	16,680	SF	1.00	16,680.00
Scope Includes:				
75% of landscape & paving area				
Hauling/Dumping		Allow		2,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not				
include import or export of fill)	5,000	SF	3.00	15,000.00
Scope Includes:				
Balanced cut and fill on site				
T.E.S.C. (Not Included In Cost)				N.I.C.
Promenade 2016	-2020 Subtota	al Site	e Preparation	\$33,680.00
Site Civil Infrastructure (Not Included In Cost)				
Water				N.I.C.
Sewer				N.I.C.
Electrical				N.I.C.
Promenade 2016-2020	Subtotal Site	Civil I	nfrastructure	N.I.C.
Site Improvements				
•	10.055	SF	Varies	
Paving Areas (Total) Includes:	12,055	SF	varies	
25% CIP standard finish concrete paving (4" depth)	3,014	SF	3.50	10,548.13
60% CIP enhanced concrete paving (4" depth)	7,233	SF	7.00	50,631.00
15% Stone pavers on rat slab	1,808	SF	45.00	81,371.25
"The Ties"	2,145	LF	Varies	01,071.20
Scope Includes:	2,140	Li	vancs	
60% of length of Ties to be flush stone paving bands	1,502	LF	70.00	105,105.00
40% of length of Ties to be 2' high stone seatwalls	644	LF	220.00	141,570.00
8% of length receives screen, shelter or feature attachments	322	LF	700.00	225,225.00
Canopies	3	EΑ	40,000.00	120,000.00
Screens	160	LF	100.00	16,000.00
Site Furnishings			Allow	40,000.00
Art Integration Allowance			Allow	500,000.00
Promenade 2016-20	020 Subtotal	Site Ir	mprovements	\$1,290,450.38
andscape				
Irrigation				
Planting Bed Irrigation (100%)	10,185	SF	1.75	17,823.75
Planting Areas	,			,
Topsoil import- 6"	189	CY	35.00	6,601.39
Trees	15	EΑ	400.00	6,000.00
Shrubs, groundcover, and mulch	10,185	SF	8.00	81,480.00
	2016-2020 S			\$111,905.14
Poss	manada 004	6 000	O Cubtotal	Φ1 426 025 E1
Pro	menade 201	0-202	o Subtotai	\$1,436,035.51

Project: Redmond BNSF Trail Corridor Date: May 2011

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)	
Item DescriptionQuantityUnitUnit Cost	Total
Escalation (undetermined %)	\$0.00
Design Contingency (20%)	\$287,207.10
Project Subtotal	\$1,723,242.62
General Conditions (5%)	\$86,162.13
Subtotal	\$1,809,404.75
Contractor Overhead (5%)	\$90,470.24
Subtotal	\$1,899,874.98
Contractor Profit (6%)	\$113,992.50
Promenade 2016-2020 Construction Contract Amount	\$2,013,867.48
Design and Administrative Soft Costs	
Sales Tax (9.5%)	\$191,317.41
Estimated Design Fees (15% Total Construction Contract Amount)	\$302,080.12
Administrative Costs (10% Design Contingency)	\$30,208.01
Permitting Fees (N.I.C.)	\$0.00
Promenade 2016-2020 Design and Administrative Soft Costs	\$523,605.55
TOTAL Promenade 2016-2020 Costs	\$2,537,473.03

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Open Space (164th Ave NE to 166th Ave NE)				
Site Preparation				
Clearing/Grubbing	28,010	SF	1.00	28,010.25
Scope Includes:				
75% of landscape & paving area				
Hauling/Dumping		Allow		5,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not				
include import or export of fill)	15,000	SF	3.00	45,000.00
Scope Includes:				
Balanced cut and fill on site				
T.E.S.C. (Not Included In Cost)				N.I.C.
Open Space 2016	-2020 Subtot	al Site	Preparation	\$78,010.25
Site Civil Infrastructure (Not Included In Cost)				
Water				N.I.C.
Sewer				N.I.C.
Electrical				N.I.C.
Open Space 2016-2020	Subtotal Site	Civil I	nfrastructure	N.I.C.
Site Improvements				
•	10.450	O.E.	Varian	
Paving Areas (Total)	13,452	SF	Varies	
Includes:	3,363	SF	3.50	11,770.50
25% CIP standard finish concrete paving (4" depth) 60% CIP enhanced concrete paving (4" depth)	3,303 8,071	SF	7.00	56,498.40
15% Stone pavers on rat slab	2,018	SF	45.00	90,801.00
"The Ties"	2,145		Varies	30,001.00
Scope Includes:	2,110		Variou	
60% of length of Ties to be flush stone paving bands	1,502	LF	70.00	105,105.00
40% of length of Ties to be 2' high stone seatwalls	644	LF	220.00	141,570.00
8% of length receives screen, shelter or feature attachments	322	LF	700.00	225,225.00
Canopies	7	EΑ	40,000.00	280,000.00
Screens	385	LF	100.00	38,500.00
Site Furnishings			Allow	60,000.00
Art Integration Allowance			Allow	500,000.00
Open Space 2016-20	020 Subtotal	Site Ir	nprovements	\$1,509,469.90
Landscape				
Irrigation				
Planting Bed Irrigation (100%)	23,895	SF	1.75	41,816.25
Planting Areas				
Topsoil import- 6"	443	CY	35.00	15,487.50
Trees	15	EΑ	400.00	6,000.00
Shrubs, groundcover, and mulch	23,895	SF	8.00	191,160.00
Open Space	2016-2020 S	ubtota	I Landscape	\$254,463.75
Oper	n Space 201	6-202	0 Subtotal	\$1,841,943.90
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Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)	
Item Description Quantity Unit Unit Cost	Total
Escalation (undetermined %	) \$0.00
Design Contingency (20%	) \$368,388.78
Project Subtota	\$2,210,332.68
General Conditions (5%	\$110,516.63
Subtota	\$2,320,849.31
Contractor Overhead (5%	) \$116,042.47
Subtota	\$2,436,891.78
Contractor Profit (6%	) \$146,213.51
TOTAL Open Space 2016-2020 Construction Contract Amoun	t \$2,583,105.29
Design and Administrative Soft Costs	
Sales Tax (9.5%	) \$245,395.00
Estimated Design Fees (15% Total Construction Contract Amount	\$387,465.79
Administrative Costs (10% Design Contingency	\$38,746.58
Permitting Fees (N.I.C.	\$0.00
Open Space 2016-2020 Design and Administrative Soft Costs	\$671,607.37
TOTAL Neighborhood 2016-2020 Cost	s \$3,254,712.66

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

**Item Description** Quantity Unit Unit Cost Total Neighborhood (166th Ave NE to 170th Ave NE) **Site Preparation** Clearing/Grubbing 50,066 SF 1.00 50,066.25 Scope Includes: 75% of landscape & paving area Hauling/Dumping Allow 5,000.00 Scope Includes: Landscape Debris Rough Grading (Assumes balanced cut and fill on site. Does not 10,000 SF 3.00 30,000.00 include import or export of fill) Scope Includes: Balanced cut and fill on site T.E.S.C. (Not Included In Cost) N.I.C. Neighborhood 2016-2020 Subtotal Site Preparation \$85,066.25 Site Civil Infrastructure (Not Included In Cost) Water N.I.C. N.I.C. Sewer Electrical N.I.C. Neighborhood 2016-2020 Subtotal Site Civil Infrastructure N.I.C. **Site Improvements Paving Areas (Total)** 5,075 SF Varies Includes: 70% CIP standard finish concrete paving (4" depth) 3,553 SF 3.50 12,433.75 20% CIP enhanced concrete paving (4" depth) 1,015 SF 7.00 7,105.00 10% Stone pavers on rat slab 508 SF 45.00 22,837.50 "The Ties" 1,290 LF Varies Scope Includes: 60% of length of Ties to be flush stone paving bands 903 LF 70.00 63,210.00 40% of length of Ties to be 2' high stone seatwalls 387 LF 220.00 85,140.00 8% of length receives screen, shelter or feature attachments 194 LF 700.00 135,450.00 Canopies 2 EΑ 40,000.00 80,000.00 Screens 835 LF 100.00 83,500.00 Site Furnishings Allow 30,000.00 Art Integration Allowance Allow 750,000.00 Neighborhood 2016-2020 Subtotal Site Improvements \$1,269,676,25 Landscape Irrigation Meadow Irrigation (50%) 30.840 SF 1.00 30.840.00 Planting Bed Irrigation (50%) 30,840 SF 53,970.00 1.75 **Planting Areas** Topsoil import- 6" CY 19,988.89 571 35.00 Trees 15 EΑ 400.00 6,000.00 Meadow mix (seeded) SF 30,840 0.50 15,420.00 SF Shrubs, groundcover, and mulch 30,840 8.00 246,720.00 Neighborhood 2016-2020 Subtotal Landscape \$372,938.89

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)	
Item DescriptionQuantityUnitUnitCost	Total
Escalation (undetermined %)	\$0.00
Design Contingency (20%)	\$345,536.28
Project Subtotal	\$2,073,217.67
General Conditions (5%)	\$103,660.88
Subtotal	\$2,176,878.55
Contractor Overhead (5%)	\$108,843.93
Subtotal	\$2,285,722.48
Contractor Profit (6%)	\$137,143.35
Neighborhood 2016-2020 Construction Contract Amount	\$2,422,865.83
Design and Administrative Soft Costs	
Sales Tax (9.5%)	\$230,172.25
Estimated Design Fees (15% Total Construction Contract Amount)	\$363,429.87
Administrative Costs (10% Design Contingency)	\$36,342.99
Permitting Fees (N.I.C.)	\$0.00
Neighborhood 2016-2020 Design and Administrative Soft Costs	\$629,945.11
TOTAL Neighborhood 2016-2020 Costs	\$3,052,810.94

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Creekside (170th Ave NE to Bear Creek Trail)				
Site Preparation				
Clearing/Grubbing	41,745	SF	1.00	41,745.00
Scope Includes:				
75% of landscape & paving area				
Hauling/Dumping		Allow		5,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not				
include import or export of fill)	20,000	SF	3.00	60,000.00
Scope Includes:				
Balanced cut and fill on site				
T.E.S.C. (Not Included in Cost)				N.I.C.
Creekside 2016	-2020 Subtot	al Site	Preparation	\$106,745.00
Cite Civil Infrastructure (Net Included In Oast)				
Site Civil Infrastructure (Not Included In Cost)				NIIO
Water				N.I.C. N.I.C.
Sewer				
Electrical Creekside 2016-2020	Cubtotal Cita	Civil I	nfractruatura	N.I.C. N.I.C.
Creekside 2010-2020	Subtotal Site	CIVII II	mrastructure	N.I.C.
Site Improvements				
Paving Areas (Total)	3,250	SF	Varies	
Includes:	,			
70% CIP standard finish concrete paving (4" depth)	2,275	SF	3.50	7,962.50
20% CIP enhanced concrete paving (4" depth)	650	SF	7.00	4,550.00
10% Stone pavers on rat slab	325	SF	45.00	14,625.00
"The Ties"	810	LF	Varies	
Scope Includes:				
60% of length of Ties to be flush stone paving bands	567	LF	70.00	39,690.00
40% of length of Ties to be 2' high stone seatwalls	243	LF	220.00	53,460.00
8% of length receives screen, shelter or feature attachments	122	LF	700.00	85,050.00
Canopies	2	EΑ	40,000.00	80,000.00
Site Furnishings			Allow	15,000.00
Art Integration Allowance			Allow	500,000.00
Creekside 2016-20	)20 Subtotal	Site In	nprovements	\$800,337.50
Landscape				
Irrigation				
Meadow Irrigation (80%)	44,528	SF	1.00	44,528.00
Planting Bed Irrigation (20%)	11,132	SF	1.75	19,481.00
Planting Areas	,			•
Topsoil import- 6"	206	CY	35.00	7,215.19
Trees	25	EΑ	400.00	10,000.00
Meadow mix (seeded)	44,528	SF	0.50	22,264.00
Shrubs, groundcover, and mulch	11,132	SF	8.00	89,056.00
	2016-2020 S			\$192,544.19
			-	•
				*

Creekside 2016-2020 Improvement Subtotal

\$1,099,626.69

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description Qua	antity	Unit	Unit Cost	Total
Escala	Escalation (undetermined %)			
De	sign C	Conting	gency (20%)	\$219,925.34
		Proje	ect Subtotal	\$1,319,552.02
	Genera	al Cond	ditions (5%)	\$65,977.60
			Subtotal	\$1,385,529.62
Con	Contractor Overhead (5%)			
			Subtotal	\$1,454,806.10
Contractor Profit (6%)				\$87,288.37
Creekside 2016-2020 Construction Contract Amount				\$1,542,094.47
Design and Administrative Soft Costs				
		Sales	Tax (9.5%)	\$146,498.97
Estimated Design Fees (15% Total Construction Contract Amount)				\$231,314.17
Administrative Costs (10% Design Contingency)				\$23,131.42
	Perm	itting f	ees (N.I.C.)	\$0.00
Creekside 2016-2020 Design and Adı	minist	trative	Soft Costs	\$400,944.56
TOTAL Cree	kside	2016-	2020 Costs	\$1,943,039.03

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Sammamish Valley (Sammamish River Trestle to NE 124th	St.)			
Site Preparation				
Clearing/Grubbing	152,460	SF	1.00	152,460.00
Scope Includes:				
Assumption that train tracks are removed				
Area outside of stormwater trunk line limit of work only				
6' either side of trail and shoulder width				
Hauling/Dumping		Allow		5,000.00
Scope Includes:				
Landscape Debris				
Rough Grading (Assumes balanced cut and fill on site. Does not	00.05-	0-	0.00	00 000
include import or export of fill)	20,000	SF	3.00	60,000.00
Scope Includes:				
Balanced cut and fill on site		llau		100 000 00
Environmental Permitting & Mitigation Allowance	А	llowan	ce	120,000.00
T.E.S.C. (Not Included In Cost)	3030 EP4-+	ol Cit	Dronoreties	N.I.C. \$337,460.00
Sammamish Valley 2016-	ZUZU SUDIOT	aı Sili	c richaration	φοο/,400.00
Cita Civil Infrastructura (Not Included in Cost)				
Site Civil Infrastructure (Not Included In Cost)				h
Water				N.I.C.
Sewer				N.I.C.
Electrical Sammamish Valley 2016-2020	Subtotal Sita	Civil I	nfractructuro	N.I.C.
Sammannsh vancy 2010-2020 S	Juniviai Sile	CIVII I	เกาสอเกนบ์เนาช	IN.I.C.
Site Improvements				
Trail- 12' wide asphalt trail	12,105	LF	30.00	363,150.00
4" asphalt lift	,			5, . 55.00
Trail- Additional cost of 12' wide concrete trail	12,105	LF	12.00	145,260.00
CIP concrete paving (4" depth concrete)	•			•
16' crushed rock subgrade (including 2' crushed rock shoulders				
both sides)	14,475	LF	30.00	434,250.00
Improvements between Sammamish River Trestle and 90th St. NE				
atop abutment				
Improvements include:				
Existing subgrade to remain				
16' wide concrete paving with thickened edge	2,370	LF	50.00	118,500.00
Railing	2,370	LF	65.00	154,050.00
CIP concrete stair connections south of 90th St.	120	CY	950.00	114,000.00
"The Ties"	6,000	LF	Varies	
Scope Includes:				
400 LF (avg.) at each intersection, crossing, driveway, and node 60% of length of Ties to be flush stone paving bands	, 4,200	LF	70.00	294,000.00
40% of length of Ties to be flush stone seatwalls	4,200 1,800	LF	220.00	396,000.00
8% of length receives screen, shelter or feature attachments	900	LF	700.00	630,000.00
Primary Seating Nodes (Landings)	300		700.00	000,000.00
Improvements include:				
Concrete Pavers (800sf per seating node)	3	EA	12,000.00	36,000.00
Tables	6	EA	2,500.00	15,000.00
Benches	6	EA	2,500.00	15,000.00
Bike Racks	1	EΑ	1,500.00	1,500.00
Trash Can (Trash, Recycling, Pet Waste)	1	EA	1,000.00	1,000.00
Art Integration Allowance	3	EA	250,000.00	750,000.00
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Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Seating Nodes (Islands & Eddies)				
Improvements include:				
Concrete Pavers (600sf per seating node)	8	EA	9,600.00	76,800.00
Tables	8	EA	2,500.00	20,000.00
Benches	8	EA	2,500.00	20,000.00
Bike Racks	8	EA	1,500.00	12,000.00
Trash Can (Trash, Recycling, Pet Waste)	8	EA	1,000.00	8,000.00
Art Integration Allowance	8	EA	25,000.00	200,000.00
Pedestrian Street Crossings at: 116th Ave. NE, 95th St. NE, 90th			•	
Improvements Include:				
Enhanced paving (800sf per crossing)	3	EA	5,600.00	16,800.00
Striping	3	EA	5,000.00	15,000.00
Bollards (6 per crossing)	3	EA	1,200.00	3,600.00
Potential modification of traffic control signaling at existing	2	EΑ	100,000.00	200,000.00
Modifications include:				
116th, 95th and 90th				
4-way improvements				
Ped heads, push buttons and wiring at signals				
Pedestrian Driveway Crossings from Sammamish River at RR				
Major Pedestrian Driveway Crossings (Commercial Driveways > 35'	width)			
Improvements Include:	•			
Enhanced paving (600sf per crossing)	2	EA	2,800.00	5,600.00
Bollards (6 per crossing)	2	EA	1,200.00	2,400.00
Striping	2	EA	1,250.00	2,500.00
Modifications include:				
Permanent Signage				
Minor Pedestrian Driveway Crossings (Driveways < 35' width)				
Improvements Include:				
Enhanced paving (300sf per crossing)	5	EA	1,400.00	7,000.00
Bollards (6 per crossing)	5	EA	1,200.00	6,000.00
Striping	5	EΑ	850.00	4,250.00
Modifications include:				
Permanent Signage				
Canopies	11	EΑ	40,000.00	440,000.00
Sammamish River Trestle Improvements				N.I.C.
154th Ave NE Bridge Improvements			_	N.I.C.
Sammamish Valley 2016-20	20 Subtotal	Site In	nprovements	\$4,507,660.00
Landscape				
Irrigation				
2" Meter (provided by municipality)		Allow		9,000.00
POC (DCVA, Master valve, vaults, etc.; assumes 2" connection)		Allow		20,000.00
Controller (commercial, maxicom)		Allow		15,000.00
Mainline system w/ quick couplers	14,475	LF	28.00	405,300.00
Meadow Irrigation (80%)	44,528	SF	1.00	44,528.00
Planting Bed Irrigation (20%)	11,132	SF	1.75	19,481.00
Planting Areas				
Topsoil import- 6"	206	CY	35.00	7,215.19
Trees	25	EΑ	400.00	10,000.00
Meadow mix (seeded)	44,528	SF	0.50	22,264.00
Shrubs, groundcover, and mulch	11,132	SF	8.00	89,056.00
Site Restoration				
Improvements include:				
6' on either side of path (14,475LF)				
Import 4" of topsoil	2,123	CY	35.00	74,305.00
Meadow mix (seeded)	173,700	SF	0.50	86,850.00

Project: Redmond BNSF Trail Corridor

Trail Enhancements (2016-2020)

Trail Enhancements (2016-2020)				
Item Description	Quantity	Unit	Unit Cost	Total
Planting Areas at Pedestrian Street Crossings				
Improvements include:				
3 street crossings				
500 sf of planting at each crossing				
Topsoil import- 6"	30	CY	35.00	1,050.00
Trees	24	EA	400.00	9,600.00
Shrubs, groundcover, and mulch @ edge restoration	1,500	SF	8.00	12,000.00
Planting Areas at Seating Nodes (Landings, Islands & Eddies)				
Improvements include:				
11 seating nodes				
600 sf at each seating node	405	0)/	05.00	4 075 00
Topsoil import- 6"	125	CY	35.00	4,375.00
Trees	100	EA	400.00	40,000.00
Shrubs, groundcover, and mulch @ edge restoration  Sammamish Valley	6,600	SF	8.00	52,800.00 \$922,824.19
Sammannish Valley	2010-2020 3	untota	Lanuscape	φ922,024.19
Sammamish Valley 2016	6-2020 Impro	vemen	t Subtotal	\$5,767,944.19
	Escalation (	undete	ermined %)	\$0.00
Design Contingency (20%)				\$1,153,588.84
		Proje	ct Subtotal	\$6,921,533.02
	Genera	ıl Cond	litions (5%)	\$346,076.65
			Subtotal	\$7,267,609.67
	Contract	or Ove	rhead (5%)	\$363,380.48
	Contracti	oi Ove	· · · · · · · ·	
	_		Subtotal	\$7,630,990.16
	Cont	ractor	Profit (6%)	\$457,859.41
C	onstruction	Contra	ct Amount	\$8,088,849.57
Design and Administrative Soft Costs				
		Sales	Tax (9.5%)	\$768,440.71
Estimated Design Fees (15% Total C	Construction	Contra	ct Amount)	\$1,213,327.43
Administrative Co	osts (10% De	sign C	ontingency)	\$121,332.74
Permitting Fees (N.I.C.)				\$0.00
Design and Admir	s Subtotal	\$2,103,100.89		
TOTAL Samma	mish Valley	2016-2	2020 Costs	\$10,191,950.45
Grand To	tal 2016-202	20 lmp	rovements	\$28,630,447.24

Project: Redmond BNSF Trail Corridor	Date: May 2011
Project Description	Total Cost
Phase 1- Downtown Trail (2012)	\$5,509,292.16
Phase 2- Downtown and Sammamish Valley Trail Enhancements (2016-2020)	\$28 630 447 24