

**UNIT COSTS**  
**CHANGE UNIT COSTS ON THIS SHEET**  
**CHANGE COST PERCENTAGES ON THIS SHEET**

	ITEM	UNIT	ESTIMATED UNIT COST
<b>I.</b>	<b>RIGHT OF WAY</b>		
	RIGHT OF WAY (urban developed)	SF	\$45
	RIGHT OF WAY (urban undeveloped)	SF	\$20
	RELOCATIONS: BUSINESSES	EA	\$150,000
	RELOCATIONS: RESIDENCES	EA	\$110,000
	CONDEMNATION PROCEDURE	EA	\$100,000
	ADMINISTRATION (TITLES, APPRAISALS, ETC.)	EA	\$15,000
	<b>RIGHT OF WAY TOTAL</b>		
<b>II.</b>	<b>CONSTRUCTION</b>		
<b>1</b>	<b>PREPARATION/GRADING/DRAINAGE</b>		
<b>1.1</b>	<b>PREPARATION</b>		
	CLEAR & GRUB/DEMO	ACRE	\$6,000
	REMOVING EXISTING PAVEMENT	SY	\$10
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	NA
<b>1.2</b>	<b>EARTHWORK</b>		
	ROADWAY EXCAVATION INCL. HAUL	CY	\$20
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$25
	BORROW INCL. HAUL	TON	\$16
	EMBANKMENT COMPACTION	CY	\$2
<b>1.3</b>	<b>STORMWATER MITIGATION</b>		
	DETENTION AND TREATMENT	SF	\$6
<b>1.4</b>	<b>STORM SEWER</b>		
	CATCH BASIN TYPE 1	EA	\$1,200
	CATCH BASIN TYPE 2	EA	\$2,200
	PLAIN CONC. STORM SEWER PIPE 12 IN. DIAM.	LF	\$35
	PLAIN CONC. STORM SEWER PIPE 18 IN. DIAM.	LF	\$45
	STRUCTURE EXCAVATION CL. B	CY	\$15
<b>2</b>	<b>STRUCTURE</b>		
	CONCRETE BRIDGES	LS	NA
	CONCRETE BRIDGES WIDENING	LS	NA
	PEDESTRIAN BRIDGES	SF	\$400
	STEEL BRIDGES	LS	NA
	BRIDGE ABUTMENT RETROFIT	SF	\$150
	RETAINING WALLS (Cast in Place)	SF	\$65
	RETAINING WALLS (Soil Nail with Cast in Place Facing)	SF	\$210
	BRIDGE REMOVAL	SF	\$30
	NOISE WALLS	SF	\$40
<b>3</b>	<b>SURFACING</b>		
	PORTLAND CEMENT CONCRETE	SF	\$10
	HOT MIX ASPHALT	TON	\$65
	CRUSHED SURFACING	TON	\$25
<b>4</b>	<b>ROADSIDE DEVELOPMENT</b>		
	FENCING	LF	\$15
	SEEDING, MULCHING & FERTILIZING	ACRE	\$2,000
	ENVIRONMENTAL PERMITS AND MITIGATION	LS	NA
	TEMPORARY WATER POLLUTION & EROSION CONTROL	LS	6%
	LANDSCAPING	LS	NA
<b>5</b>	<b>TRAFFIC</b>		
	GUARD RAIL	LF	\$20
	CONCRETE BARRIER	LF	\$65
	SIGNAL SYSTEMS	LS	NA
	ILLUMINATION	LS	NA
	SIGNING	LS	NA
	CURBS	LF	\$15
	SIDEWALKS	SY	\$25
	ITS FOR HOT-LANES	LS	NA
	SC&DI (ITS)	LS	NA
	TRAFFIC CONTROL	LS	10%
<b>5.1</b>	<b>OTHER ITEMS</b>		
	SURVEYING	LS	2%
	SPECIAL ITEMS	EST	NA
	UTILITY RELOCATIONS	EST	NA
<b>6</b>	<b>MISCELLANEOUS</b>	LS	30%
<b>7</b>	<b>CONSTRUCTION SUBTOTAL (ITEMS 1 THRU 6)</b>		
<b>8</b>	<b>MOBILIZATION</b>		
	MOBILIZATION	EST	10%
<b>9</b>	<b>SUBTOTAL (ITEMS 7 &amp; 8)</b>		
<b>10</b>	<b>SALES TAX</b>		
	SALES TAX	EST	9.3%
<b>11</b>	<b>AGREEMENTS (Utilities, WSP, etc.)</b>		
		EST	NA
<b>12</b>	<b>SUBTOTAL (ITEMS 9 THRU 11)</b>		
<b>13</b>	<b>CONSTRUCTION</b>		
	ENGINEERING	EST	30%
	ENVIRONMENTAL COMPLIANCE	EST	0%
	DIRECT PROJECT SUPPORT	EST	0%
	PROGRAM MANAGEMENT - DURING CONST.	EST	0%
<b>14</b>	<b>CONSTRUCTION TOTAL (ITEMS 12 &amp; 13)</b>		
<b>III.</b>	<b>PRELIMINARY ENGINEERING</b>		
	PROJECT ENGINEERING	EST	30%
	PROGRAM MANAGEMENT - PRE CONSTRUCTION	EST	0%
	REGIONAL ITS FACILITY	EST	0.5%
	ENVIRONMENTAL PERMITS		NA
	INFLATION RATE	%	3.00%

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan  
 Corridor Section: Segment 3  
 Location: snohomish to skykomish  
 mp 15.6-30.1 widen to four lanes  
 Project 55

Client: WSDOT  
 Date: 1/16/2007  
 Date of Cost Index: 2006  
 Calculated By/Entered By:  
 Checked By:

**Segment 3**

		ITEM	UNIT	ESTIMATED UNIT COST	QTY	COST
<b>I.</b>		<b>RIGHT OF WAY</b>				
		RIGHT OF WAY (urban developed)	SF	\$45	-	\$0
		RIGHT OF WAY (urban undeveloped)	SF	\$20	-	\$0
		RELOCATIONS: BUSINESSES	EA	\$150,000	-	\$0
		RELOCATIONS: RESIDENCES	EA	\$110,000	-	\$0
		CONDEMNATION PROCEDURE	EA	\$100,000	-	\$0
		ADMINISTRATION (TITLES, APPRAISALS, ETC.)	EA	\$15,000	-	\$0
		<b>RIGHT OF WAY TOTAL</b>				<b>\$0</b>
<b>II.</b>		<b>CONSTRUCTION</b>				
<b>1</b>		<b>PREPARATION/GRADING/DRAINAGE</b>				
	<b>1.1</b>	<b>PREPARATION</b>				
		CLEAR & GRUB, DEMO	ACRE	\$6,000	32.9	\$197,400
		REMOVING EXISTING PAVEMENT	SY	\$10	1	\$10
		REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$3,412,800	1	\$3,412,800
	<b>1.2</b>	<b>EARTHWORK</b>				
		ROADWAY EXCAVATION INCL. HAUL	CY	\$20	121,900	\$2,438,000
		STRUCTURE EX. CL. A INCL. HAUL	CY	\$25	-	\$0
		BORROW INCL. HAUL	TON	\$16	39,100	\$625,600
		EMBANKMENT COMPACTION	CY	\$2	21,100	\$42,200
	<b>1.3</b>	<b>STORMWATER MITIGATION</b>				
		DETENTION AND TREATMENT	SF	\$6	1,430,000	\$8,580,000
	<b>1.4</b>	<b>STORM SEWER</b>				
		CATCH BASIN TYPE 1	EA	\$1,200	193	\$231,600
		CATCH BASIN TYPE 2	EA	\$2,200	49	\$107,800
		PLAIN CONC. STORM SEWER PIPE 12 IN. DIAM.	LF	\$35	38,500	\$1,347,500
		PLAIN CONC. STORM SEWER PIPE 18 IN. DIAM.	LF	\$45	38,500	\$1,732,500
		STRUCTURE EXCAVATION CL. B	CY	\$15	14,700	\$220,500
<b>2</b>		<b>STRUCTURE</b>				
		CONCRETE BRIDGES	LS	\$0	-	\$0
		CONCRETE BRIDGES WIDENING	LS	\$0	-	\$0
		PEDESTRIAN BRIDGES	SF	\$400	-	\$0
		STEEL BRIDGES	LS	\$0	-	\$0
		BRIDGE ABUTMENT RETROFIT	SF	\$150	-	\$0
		RETAINING WALLS (Cast in Place)	SF	\$65	-	\$0
		RETAINING WALLS (Soil Nail with Cast in Place Facing)	SF	\$210	-	\$0
		BRIDGE REMOVAL	SF	\$30	-	\$0
		NOISE WALLS	SF	\$40	-	\$0
<b>3</b>		<b>SURFACING</b>				
		PORTLAND CEMENT CONCRETE	SF	\$10	-	\$0
		HOT MIX ASPHALT	TON	\$65	119,500	\$7,767,500
		CRUSHED SURFACING	TON	\$25	112,700	\$2,817,500
<b>4</b>		<b>ROADSIDE DEVELOPMENT</b>				
		FENCING	LF	\$15	-	\$0
		SEEDING, MULCHING & FERTILIZING	ACRE	\$2,000	65.8	\$131,600
		WETLAND MITIGATION	LS	\$10,102,000	1	\$10,102,000
		TEMPORARY WATER POLLUTION & EROSION CONTROL (6%)	LS	\$2,619,000	1	\$2,619,000
		LANDSCAPING	LS	\$2,463,000	1	\$2,463,000
<b>5</b>		<b>TRAFFIC</b>				
		GUARD RAIL	LF	\$20	42,000	\$840,000
		CONCRETE BARRIER	LF	\$65	-	\$0
		SIGNAL SYSTEMS	LS	\$0	1	\$0
		ILLUMINATION	LS	\$0	1	\$0
		SIGNING	LS	\$334,000	1	\$334,000
		CURBS	LF	\$15	6,600	\$99,000
		SIDEWALKS	SY	\$25	5,900	\$147,500
		ITS FOR HOT-LANES	LS	\$0	1	\$0

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 1/16/2007
Location: snohomish to skykomish	Date of Cost Index: 2006
mp 15.6-30.1 widen to four lanes	Calculated By/Entered By:
Project 55	Checked By:

**Segment 3**

ITEM	UNIT	ESTIMATED UNIT COST	QTY	COST
SC&DI (ITS)	LS	\$0	1	\$0
TRAFFIC CONTROL (10%)	LS	\$4,625,800	1	\$4,625,800
<b>5.1 OTHER ITEMS</b>				
SURVEYING (2%)	LS	\$1,017,700	1	\$1,017,700
SPECIAL ITEMS	EST	\$11,521,000	1	\$11,521,000
UTILITY RELOCATIONS	EST	\$0	1	\$0
<b>6 MISCELLANEOUS (30%)</b>	LS	\$19,026,500	1	\$19,026,500
<b>7 CONSTRUCTION SUBTOTAL (ITEMS 1 THRU 6)</b>				<b>\$82,448,010</b>
<b>8 MOBILIZATION (10%)</b>				
10% OF ITEM 7	EST	\$8,244,900	1	\$8,244,900
<b>9 SUBTOTAL (ITEMS 7 &amp; 8)</b>				<b>\$90,692,910</b>
<b>10 SALES TAX</b>				
9.3% OF ITEM 9	EST	\$8,434,500	1	\$8,434,500
<b>11 AGREEMENTS (Utilities, WSP, etc.)</b>				
	EST	\$0	1	\$0
<b>12 SUBTOTAL (ITEMS 9 THRU 11)</b>				<b>\$99,127,410</b>
<b>13 CONSTRUCTION</b>				
ENGINEERING (30% OF ITEM 12)	EST	\$29,739,000	1	\$29,739,000
<b>14 CONSTRUCTION TOTAL (ITEMS 12 &amp; 13)</b>				<b>\$128,866,410</b>
<b>III. PRELIMINARY WORK</b>				
PRELIMINARY ENGINEERING (30.0% OF ITEM 14)	EST	\$38,660,000	1	\$38,660,000
REGIONAL ITS FACILITY (0.5% OF ITEM 14)	EST	\$644,400	1	\$644,400
ENVIRONMENTAL PERMITS	EST	\$0	1	\$0
<b>IV. TOTAL ESTIMATED COST (ITEMS I, 14 &amp; III)</b>				<b>\$168,180,000</b>
<b>V. FUTURE ESTIMATED COST</b>				
<b>FUTURE COST BASED ON INFLATION RATE</b>	<b>Inflation</b>	<b>Const. Year</b>	<b>Cost Index</b>	<b>Future Cost</b>
	3.00%	2010	2006	<b>\$189,290,000</b>

The above opinion of cost is a planning level estimate only. It is based on best available information and scope at the time, not on the results of a detailed engineering study, and is supplied as a budgeting guide only. Perteet, Inc. does not guarantee or warrant the accuracy of this planning level estimate.

**PLANNING LEVEL OPINION OF COST**

Project Description:	US 2 Corridor Plan	Client:	WSDOT
Corridor Section:	Segment 3	Date:	39098
Location:	snohomish to skykomish	Date of Cost Index:	2006
		Calculated By/Entered By:	0
		Checked By:	0

**Segment 3**

**PLANNING LEVEL OPINION OF COST**

Project | US 2 Corridor Plan  
 Corridor Segment 3  
 Location snohomish to skykomish

Client: WSDOT  
 Date: 39098  
 Date of Cost Index: 2006  
 Calculated By/Entered By: 0  
 Checked By: 0

**Segment 3**

**DESIGN ASSUMPTIONS**

<b>1</b>	<b>Assumption for:</b>	<b>Design</b>
<b>2</b>	<b>Assumption for:</b>	<b>ROAD DESIGN SPEED</b> Design Speed Mainline: MPH Posted Speed Mainline: MPH
<b>3</b>	<b>Assumption for:</b>	<b>Roadway Horizontal Alignment</b>
<b>4</b>	<b>Assumption for:</b>	<b>Roadway Vertical Alignment</b>  Vertical Alignments will not be designed for this stage of planning estimates. Assumptions will be made as to design profile on a level of assumed maximum grades of 5% to 7%.
<b>5</b>	<b>Assumption for:</b>	<b>Existing cross section</b> Mainline travel lanes: 12' It is assumed that existing shoulder pavement is not structurally sound and will be removed, new shoulders will be full depth.
<b>6</b>	<b>Assumption for:</b>	<b>Proposed cross section</b> Mainline travel lanes: 12' Medians: 12' Mainline Shoulders: 6' Turn lane: 12' Sidewalk: 6' Parking: 8'
<b>7</b>	<b>Assumption for:</b>	<b>Walls</b>
<b>8</b>	<b>Assumption for:</b>	<b>Signal/Illumination</b>
<b>9</b>	<b>Assumption for:</b>	<b>Pavement</b> 0.9' HMA 0.7' CSBC
<b>10</b>	<b>Assumption for:</b>	<b>Storm Drainage</b> Assume 1 CB every 200' Assume minimum cover is required.

**ESTIMATING ASSUMPTIONS**

<b>I.</b>	<b>RIGHT OF WAY</b> Per square foot costs are based on average commercial and residential assessed property tax values of similar properties. Special consideration should be taken for large businesses or elaborate homes. Costs for relocations, condemnations, and administration are based on similar projects in the area. R/W estimated using available WSDOT Right-of-Way plans, GIS Parcel layers and existing ground features from aerial photos.
<b>II.</b>	<b>CONSTRUCTION</b>
	<b>PREPARATION - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.</b> A lump sum of \$10,000 is assumed for large jobs in developed areas. This should be adjusted if there is special knowledge of removals or if the area is very clear of any possible obstructions.
	<b>STORMWATER MITIGATION - DETENTION AND TREATMENT</b> Storm water detention and treatment is used for all new impervious surface area. \$6 per square foot of impervious area is an estimate of what the detention and treatment systems cost for the typical large road job. This cost includes pond excavation and conveyance. This number has been tested and confirmed during SCORE reviews and provides a good approximation of the actual stormwater mitigation costs. If it is known that ROW will have to be purchased and that ROW cost is not included in section I, then \$10 per square foot of impervious area would provide for ROW cost as well as stormwater mitigation costs.
	<b>STRUCTURE</b> Bridge SF is the square footage of the entire new bridge. Bridge widening SF is the square footage of the new portion of the bridge. Bridge abutment retrofit SF would be for retrofitting an existing bridge abutment for earthquake standards or for rebuilding the last span of an abutment for bridge lengthening.
	<b>SURFACING</b> Hot Mix Asphalts are estimated by the ton of HMA. This HMA tonnage should include all bituminous material. It is usually not necessary to break this down beyond this. The item Crushed Surfacing includes all crushed rock base course and / or top course.
	<b>ROADSIDE DEVELOPMENT</b>

**PLANNING LEVEL OPINION OF COST**

Project | US 2 Corridor Plan  
 Corridor Segment 3  
 Location snohomish to skykomish

Client: WSDOT  
 Date: 3/9/08  
 Date of Cost Index: 2006  
 Calculated By/Entered By: 0  
 Checked By: 0

**Segment 3**

	Environmental permits and mitigation
	Temporary water pollution and erosion control is estimated at 2% of the total project cost. This is a typical cost of temporary water pollution and erosion control for the typical road project. This number has gone through the SCORE review process. If there is special knowledge that the area is not sensitive and will not require much TESC then this number could be decreased.
	<b>TRAFFIC</b>
	<b>OTHER ITEMS</b>
	Utility Relocation is the cost of relocating a major utility as part of the project, and due to special circumstances is paid for by the client and not the utility.
	<b>UNCERTAINTY FACTOR</b>
	The Uncertainty Factor is to take into account any uncertainty in the quantity of the item that it is being applied to. The Uncertainty Factor takes into account variability due to limited information available, preliminary or incomplete design, very preliminary review of site conditions, etc. and utilizes a scale from 1 to 2. Applying these factors involves the use of Engineering Judgment. The following is a summary of factors (see more detailed information regarding Uncertainty Factor values, attached sheet).
	General values to use are as follows:
	1 = The quantity is fairly accurate for preliminary design and the calculated quantity is unlikely to change within 10% if the design remains the same.
	1.2 = The calculated quantity could vary due to actual site conditions at the time of construction and due to details of actual design, and there is some variability due to information available.
	1.4 = There is a good deal of uncertainty in the calculated quantity and there is a possibility that the quantity will change.
	2.0 = It is very uncertain as to the calculated quantity and it is very likely that the number will probably be higher, however it is difficult to calculate this number in preliminary design stages.
	<b>SIGNIFICANT DIGITS AND ROUNDING</b>
	Special attention needs to be given to the significant digits used and when rounding is applied to numbers used within this spreadsheet. This is a preliminary opinion of cost. Thus the accuracy of the numbers used within this cost estimate are usually not to the nearest dollar. A good rule of thumb is as follows:
	- Round individual entries (Roadway Ex., Gravel Borrow, etc.) to a decent round number that represents the level of accuracy, and should be done within the individual quantity sheets. For example, round 399 CY to 400 CY, or round 526,345 CY to 526,000 CY.
	- Round up the final total of the estimate. Round the final number to two or three significant digits, or use half of the numbers left of the decimal point as significant digits.
	- Rounding at intermediate totals and summaries within the spreadsheet should be avoided as these will just introduce compounding error. The only numbers that should be rounded are the values input into the summary spreadsheet and the final cost number.

**PLANNING LEVEL OPINION OF COST**

Project Description: US 2 Corridor Plan  
 Corridor Section: Segment 3  
 Location: snohomish to skykomish

**Segment 3**

**Planning Level Opinion of Cost - Uncertainty Factor Values**

ITEM	U <sub>f</sub>	Comment
ROW	1.?	If you get exact land values you could use 1.2 or ? to adjust for inflation and actual sale price. If using some estimated value per SF and you are confident in your areas then I would use 1. Any fluff factor is in the SF value.
Clearing and Grubbing	1.?	User specified. If you're already estimating very high then use 1.
Removing Pavement	1	This should be a pretty specific value.
Removal of Structures and Obstructions	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Roadway Excavation	1.?	User specified. If you're estimating high then use 1.
Structure Ex. Cl. A	1.?	User specified. If you're estimating high then use 1.
Gravel Borrow	1.15	This should be a pretty specific value.
Embankment Compaction	1.15	This should be a pretty specific value.
Detention and Treatment	1	The area should be pretty specific. There are already contingencies in the cost / SF value.
Storm Sewer Items	1.?	User specific.
Structure Ex. Cl. B	1.?	Same as used for pipe length.
Bridge	1	This should be a very specific value.
Retaining Wall	1.0-1.1	This should be pretty specific.
Remove Bridge	1	This should be a very specific value.
Noise Wall	1.0-1.1	This should be pretty specific.
Pavement	1.15	This should be pretty specific. Same as in bid estimate.
CSBC	1.15	This should be pretty specific. Same as in bid estimate.
Fencing	1.?	User specific.
Seeding, Mulching	1.?	User specific.
Environmental Permits	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Temporary Water Pollution and Erosion Control	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Landscaping	1.?	User specific.
Guardrail	1.0-1.1	This should be pretty specific.
Barrier	1.0-1.1	This should be pretty specific.
Signal System	1	This should be a very specific value.
Illumination	1.0-1.1	This should be pretty specific.
Signing	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Curbs	1.0-1.1	This should be pretty specific.
Sidewalk	1.0-1.1	This should be pretty specific.
Traffic Control	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Survey	1	We're using a big lump sum value and there are contingencies being added to this in the summary sheet.
Special Items	1.?	User specific.
Utility Agreements	1.?	User specific.

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 39098
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

**Segment 3**

**RIGHT OF WAY**

DESCRIPTION	ROW ACQUISITION AREA (SF)	(ACRE)
<b>Urban Developed</b>		
turn around	0	0.0
Additional 10' of R/W from east of 5th to almostMain	0	

<b>Sub Total</b>	0	SF
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	SF

DESCRIPTION	ROW ACQUISITION AREA (SF)	(ACRE)
<b>Urban Undeveloped</b>		
Detention and Water Quality	0	0.0
Wetland Mitigation	0	

<b>Sub Total</b>	0	SF
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	SF

DESCRIPTION	ROW ACQUISITION AREA (EA)	
<b>Relocations: Businesses</b>		
	0	Parcel acquisitions only

<b>Sub Total</b>	0	EA
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	

DESCRIPTION	ROW ACQUISITION TYPE (EA)	
<b>Relocations: Residences</b>		
	0	Parcel acquisitions only

<b>Sub Total</b>	0	EA
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	

DESCRIPTION	ROW ACQUISITION TYPE (EA)	
<b>Condemnations</b>		
	0	Assume that 30% of all properties acquired will require condemnations

<b>Sub Total</b>	0	EA
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	

DESCRIPTION	ROW ACQUISITION TYPE (EA)	
<b>Administration</b>		
	0	All properties acquired will require administration (title search, etc.)

<b>Sub Total</b>	0	EA
Uncertainty Factor (U <sub>i</sub> )	1.0	
<b>TOTAL</b>	0	

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 39098
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

ACRE      CLEARING AND GRUBBING

DESCRIPTION	Length	Width	AREA	
			SF	(ACRE)
	55,000	26	1430000	32.9
			sub-total	<u>32.9</u>

POND LOCATION	BOTTOM OF POND		SIDE SLOPES 1 : H	HEIGHT (FT)	LENGTH (FT)	TOP OF POND		
	LENGTH (FT)	WIDTH (FT)				WIDTH (FT)	AREA (SF)	AREA (ACRE)
	0	18	0	6	0	18	0	0.0
						sub-total		<u>0.0</u>
						<b>Sub Total</b>		<b>32.9</b>
						<b>Uncertainty Factor (U)</b>		<b>1</b>
						<b>TOTAL</b>		<b>32.9</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 39098
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**SY                      REMOVING EXISTING PAVEMENT**

DESCRIPTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)	AREA (SY)
	0	12	0	0

<b>Sub Total</b>	<b>0</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>0</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 39098
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**LS                      REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

General removal of structures and obstructions is based on general items, see assumptions sheet.  
 Assume \$15,000 for small building, \$30,000 for small commercial building, use best engineering judgement for a large commercial building (hotel, strip mall, etc.)  
 For project of \$3 million or more, assume \$10,000 of unknown structures and obstructions.

<b>DESCRIPTION</b>	<b>LS PRICE</b>
General items, see assumptions sheet.	<b>\$3,412,800</b>
Commercial Buildings	<b>\$0</b>

<b>Sub Total</b>	<b>\$3,412,800</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$3,412,800</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**C.Y. ROADWAY EXCAVATION INCL. HAUL**

ROADWAY	LENGTH	WIDTH	DEPTH	VOLUME	
	(LF)	(FT)	(FT)	(CF)	(CY)
Section 1	55,000	26	2.0	2860000	105926

<b>Sub Total</b>	<b>105,926</b>	<b>CY</b>
<b>Uncertainty Factor (U)</b>	<b>1.15</b>	
<b>TOTAL</b>	<b>121,900</b>	<b>CY</b>



**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By:

**Segment 3**

TON            BORROW INCL. HAUL  
C.Y.            EMBANKMENT COMPACTION

Fill for shoulders

DESCRIPTION	WIDTH (FT)	LENGTH (FT)	MAX DEPTH (FT)	MIN DEPTH (FT)	VOLUME (CF)	SELECT BORROW		COMPACTION VOLUME (CY)
						VOLUME (CY)	VOLUME (TON)	
	6	55,000	3	3	495,000	18,333	33,920	18,333

	BORROW VOLUME (TON)	COMPACTION VOLUME (CY)
Sub Total	33,920	18,333
Uncertainty Factor (U)	1.15	1.15
TOTAL	39,100	21,100

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 01/16/07
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

### Segment 3

#### SF      DETENTION & TREATMENT

12' lane + 8' shoulder

DESCRIPTION	Length FT	Width FT	AREA (SF)
	55000	26	1,430,000

This table for calculating Pond ROW requirements only.

#### **Pond Area Calculations**

Prorated Detention Volume Required	629,200	CF
Prorated Water Quality Volume Required	122980	CF
Detention Bottom Area (based on 3' depth)	209733.3333	SF
WQ Surface Area (Based on 3' WQ depth)	40993.33333	SF
Greater of Detention and WQ areas	209733.3333	SF
Pond Bottom Length (3:1 aspect ratio)	793	FT
Pond Bottom Width	264	FT
Pond Top Length (3' depth +1' Freeboard @3:1)	817	FT
Pond Length Outside of Berm (1-6' berm +1-15' berm for acces.)	838	FT
<b>Pond Length at Outside to of Berm (4' @2:1)</b>	<b>854</b>	<b>FT</b>
Pond Top Width (3' depth +1' Freeboard @3:1)	288	FT
Pond Width Outside of Berm (1-6' berm +1-15' berm for acces.)	309	FT
<b>Pond Width at Outside to of Berm (4' @2:1)</b>	<b>325</b>	<b>FT</b>

Pond Footprint Dimensions	330 x860	FTxFT
<b>Pond Footprint Area</b>	<b>283,800</b>	<b>SF</b>
	6.52	Ac.

<b>Sub Total</b>	<b>1,430,000</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>1,430,000</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

#### DRAINAGE

Drainage estimate is based on the length of road  
 Assume 1 CB every 200', both sides of roadway, unless superelevated.

DESCRIPTION	LENGTH (LF)	12" Plain Conc Pipe (LF)	18" Plain Conc Pipe (LF)	Type 1 CB (EA)	Type 2 CB (EA)
Section 1	35,000	35,000	35,000	175	44

	12" PIPE (LF)	18" PIPE (LF)	CB Type 1 (EA)	CB Type 2
<b>Sub Total</b>	<b>35,000</b>	<b>35,000</b>	<b>175</b>	<b>44</b>
<b>Uncertainty Factor (U)</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>
<b>TOTAL</b>	<b>38,500</b>	<b>38,500</b>	<b>193</b>	<b>49</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**CY                      STRUCTURE EXCAVATION CLASS B INCL. HAUL**

DESCRIPTION	PIPE LENGTH (FT)	TRENCH WIDTH (FT)	AVERAGE DEPTH BELOW EX. GROUND (FT)	TOTAL VOLUME (CF)	TOTAL VOLUME (CY)
	20,000	6.0	3	360,000	13,333
	0	4.0	5	0	0

---

<b>Sub Total</b>	<b>13,333</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1.1</b>
<b>TOTAL</b>	<b>14,700</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**SF BRIDGE STRUCTURE**

DESCRIPTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
STEEL THRU TRUSS	0	0	0

<b>Sub Total</b>	<b>0</b>	<b>SF</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1.1</b>	
<b>TOTAL</b>	<b>0</b>	<b>SF</b>

DESCRIPTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
BRIDGE WIDENING Bridge No.	0	0	0

<b>Sub Total</b>	<b>0</b>	<b>SF</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1.1</b>	
<b>TOTAL</b>	<b>0</b>	<b>SF</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client:	WSDOT
Corridor Section:	Segment 3	Date:	01/16/07
Location:	snohomish to skykomish	Date of Cost Index:	2006
		Calculated By/Entered By:	0
		Checked By:	0

**Segment 3**

**MSE WALL WITH PRECAST PANELS**

Use MSE with precast panels for fill structre

DESCRIPTION	LENGTH (FT)	LOW DEPTH (FT)	HIGH DEPTH (FT)	AREA (AVG DEPTH) (SF)	NO. OF SIDES	TOTAL (SF)
	0	0 FT	5 FT	0	1	0

<b>Sub Total</b>	<b>0</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>0</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 01/16/07
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

**Segment 3**

**SF BRIDGE REMOVAL**

DESCRIPTION	LENGTH (FT)	WIDTH (FT)	AREA (SF)
Bridge No.	0	0	0

<b>Sub Total</b>	<b>0</b>	<b>SF</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>	
<b>TOTAL</b>	<b>0</b>	

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

**SF                      NOISE WALL**

Use a panel height of 15'

DESCRIPTION	LENGTH (FT)	Height (FT)	AREA (SF)
			0

<b>Sub Total</b>	<b>0</b>	<b>SF</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>	
<b>TOTAL</b>	<b>0</b>	

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

	HOT MIX ASPHALT						
DESCRIPTION	Length (FT)	Width (FT)	AREA (SF)	DEPTH (FT)	(CF)	VOLUME (CY)	(TON)
	55,000	26	1430000	1.0	1430000	52963	108574

<b>Sub Total</b>	<b>108574</b>	<b>TON</b>
<b>Uncertainty Factor (U)</b>	<b>1.1</b>	
<b>TOTAL</b>	<b>119500</b>	<b>TON</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 01/16/07
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

**Segment 3**

**TON                      CRUSHED SURFACING BASE COURSE/TOP COURSE**

<b>DESCRIPITON</b>	<b>AREA (SF)</b>	<b>DEPTH (FT)</b>	<b>(CF)</b>	<b>VOLUME (CY)</b>	<b>(TON)</b>
	1430000	1.0	1430000	52963	97981

<b>Sub Total</b>	<b>97981</b>	<b>TON</b>
<b>Uncertainty Factor (U)</b>	<b>1.15</b>	
<b>TOTAL</b>	<b>112700</b>	<b>TON</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

**LF                      FENCING**

DESCRIPTION	LENGTH (LF)	NO. OF SIDES	TOTAL (LF)
		1	0

<b>Sub Total</b>	<b>0</b>
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>0</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**ACRE                  SEEDING, MULCHING & FERTILIZING**

<b>DESCRIPTION</b>	<b>SF</b>	<b>ACRE</b>
Clearing/Grubbing Area	1,430,000	32.9
Landscape Area	1430000	32.9

<b>Sub Total</b>	<b>65.8</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>65.8</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 01/16/07
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

**Segment 3**

**ENVIRONMENTAL PERMITS - MITIGATION**

DESCRIPTION		APPROXIMATE IMPACT AREA (SF)	REPLACEMENT RATIO X:1	MITIGATION AREA (SF)
<b>Wetland Mitigation</b>				
Wetland Buffer		0	1	0
Wetland	ditch N	220000	1	220000
	ditch S	0	1	0
				<b>Sub Total</b> <b>220000</b> <b>SF</b> @ <b>\$45.91</b> <b>per SF</b> <b>Sub Total \$</b> <b>\$10,101,010</b> <b>Uncertainty Factor (U<sub>i</sub>)</b> <b>1</b> <b>TOTAL \$</b> <b>\$10,102,000</b> <b>LS \$</b>

DESCRIPTION		APPROXIMATE IMPACT AREA (SF)	REPLACEMENT RATIO X:1	MITIGATION AREA (SF)
<b>Wetland Mitigation</b>				
Stream Buffer			1	0
Stream			7	0
				<b>Sub Total</b> <b>0</b> <b>SF</b> @ <b>\$45.91</b> <b>per SF</b> <b>Sub Total \$</b> <b>\$0</b> <b>Uncertainty Factor (U<sub>i</sub>)</b> <b>1</b> <b>TOTAL \$</b> <b>\$0</b> <b>LS \$</b>

<b>Total Mitigation Cost</b>	<b>\$10,102,000</b>	<b>LS \$</b>
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PERMITS	AGENCY	PERMIT FOR ENTIRE SEGMENT	PERMIT FOR INDIVIDUAL SEG.	Lump Sum
401 Water Quality Certification	DOE			\$ -
Local Agency Review	CAR, CG, FP			0 \$ -
Hydraulic Permit Approval	WDFW			0 \$ -
Section 404 Permit (NW or Indiv)	Army Corps			\$ -
Shoreline Permit	Local Agency			\$ -
NEPA/SEPA + DRs	WSDOT	0		\$ -
Coastal Zone Management Certification	DOE			\$ -
NPDES	DOE	0		\$ -
				<b>Sub Total</b> <b>\$ -</b> <b>LS \$</b> <b>Uncertainty Factor (U<sub>i</sub>)</b> <b>1</b> <b>TOTAL</b> <b>\$0</b> <b>LS \$</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan Client: WSDOT  
Corridor Section: Segment 3 Date: 01/16/07  
Location: snohomish to skykomish Date of Cost Index: 2006  
Calculated By/Entered By: 0  
Checked By: 0

**Segment 3**

**LS TEMPORARY WATER POLLUTION & EROSION CONTROL**

<b>Use 6% of Construction Costs</b>	<b>Construction Items</b>	<b>6%</b>
Total Const items from summary sheet	\$ 43,638,010	\$ 2,618,281

<b>Sub Total</b>	<b>\$ 2,618,281</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$ 2,619,000</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**LS            LANDSCAPING**

\$75,000    per acre

DESCRIPTION	Length FT	Width FT	Area SF	Area ACRE	LS PRICE
	55,000	26	1430000	32.83	\$2,462,121

<b>Sub Total</b>	#####	<b>\$2,462,121</b>
	<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
	<b>TOTAL</b>	<b>\$2,463,000</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

#### Guardrail

DESCRIPTION	LENGTH (LF)	NO. OF SIDES	TOTAL (FT)
	42,000	1	42,000

Sub Total	42,000
Uncertainty Factor (U <sub>i</sub> )	1
TOTAL	42000

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0
<b>Segment 3</b>		

Barrier Required on fill structure/MSE wall

DESCRIPTION	LENGTH (LF)	NO. OF SIDES	TOTAL (LF)
	0	1	0

<b>Sub Total</b>	<b>0</b>
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>0</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

#### LS      SIGNAL SYSTEM

Use \$250,000 for new signal systems  
 Use \$150,000 for signal system revisions

NEW SIGNAL SYSTEMS	LS PRICE						
	\$0						
	\$0						
	\$0						
SIGNAL SYSTEM REVISIONS	LS PRICE						
	\$0						
	\$0						
	\$0						
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;"><b>Sub Total</b></td> <td style="text-align: right;"><b>\$0</b></td> </tr> <tr> <td style="text-align: right;"><b>Uncertainty Factor (U<sub>f</sub>)</b></td> <td style="text-align: right;"><b>1</b></td> </tr> <tr> <td style="text-align: right;"><b>TOTAL</b></td> <td style="text-align: right;"><b>\$0</b></td> </tr> </table>		<b>Sub Total</b>	<b>\$0</b>	<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>	<b>TOTAL</b>	<b>\$0</b>
<b>Sub Total</b>	<b>\$0</b>						
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>						
<b>TOTAL</b>	<b>\$0</b>						

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**LS ILLUMINATION SYSTEM**

\*Use luminaire spacing of one every 250', one side

DESCRIPTION	LENGTH (LF)	NO. OF SIDES	TOTAL (EA)
Section 1	55,000	0	0
		<b>Sub Total</b>	<b>0</b>
		<b>@</b>	<b>4,000 EA</b>
		<b>\$ Sub Total</b>	<b>\$0</b>
		<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>
		<b>TOTAL</b>	<b>\$0</b>

DESCRIPTION	LUMP SUM
	\$0

<b>Sub Total</b>	<b>\$0</b>
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$0</b>

<b>TOTAL LUMP SUM</b>	<b>\$0</b>
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## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

**LS            SIGNING**

DESCRIPTION	Length FT	Length Mile	LS PRICE
	55,000	10.42	\$333,500
			\$0
			\$0
			\$0

<b>Sub Total</b>	<b>\$333,500</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$334,000</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

#### LF                      CURBS

Includes all types of curb used in project

DESCRIPTION	LENGTH (LF)	NO. OF SIDES	TOTAL (LF)
Cement Conc Curb & Gutter Section 1	6,000	1	6,000

	LENGTH (LF)	NO. OF SIDES	TOTAL (LF)
Roundabout 1	0	0	0
Roundabout 2	0	0	0

Extruded Curb	0	1	0
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<b>Sub Total</b>	<b>6,000</b>
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1.1</b>
<b>TOTAL</b>	<b>6600</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description: US 2 Corridor Plan	Client: WSDOT
Corridor Section: Segment 3	Date: 01/16/07
Location: snohomish to skykomish	Date of Cost Index: 2006
	Calculated By/Entered By: 0
	Checked By: 0

**Segment 3**

**SF                      SIDEWALK**

<b>DESCRIPTION</b>	<b>LENGTH (FT)</b>	<b>WIDTH (FT)</b>	<b>No. of Sides</b>	<b>AREA (SY)</b>
Section 1	6,000	8	1	5,333

	<b>LENGTH (FT)</b>	<b>WIDTH (FT)</b>		<b>AREA (SY)</b>
Roundabout 1	0	0		0
Roundabout 2	0	0		0

<b>Sub Total</b>	<b>5,333</b>	<b>SY</b>
<b>Uncertainty Factor (U<sub>f</sub>)</b>	<b>1.1</b>	
<b>TOTAL</b>	<b>5,900</b>	

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client:	WSDOT
Corridor Section:	Segment 3	Date:	01/16/07
Location:	snohomish to skykomish	Date of Cost Index:	2006
		Calculated By/Entered By:	0
		Checked By:	0

**Segment 3**

LS      ITS Hot Lanes

DESCRIPTION	LS PRICE
	\$0
	\$0

<b>Sub Total</b>	<b>\$0</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$0</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client:	WSDOT
Corridor Section:	Segment 3	Date:	01/16/07
Location:	snohomish to skykomish	Date of Cost Index:	2006
		Calculated By/Entered By:	0
		Checked By:	0
<b>Segment 3</b>			

LS            SC&DI (ITS)

DESCRIPTION	LS PRICE
ITS Traveler Information	\$0
	\$0
	\$0
	\$0

Sub Total	\$0
Uncertainty Factor (U <sub>i</sub> )	1
<b>TOTAL</b>	<b>\$0</b>

## PLANNING LEVEL OPINION OF COST SUMMARY

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

### Segment 3

#### LS                      TRAFFIC CONTROL

<b>Use 10% of Construction Costs</b>	<b>Construction</b>	<b>10%</b>
	<b>Items</b>	
Total Const items from summary sheet	\$ 46,257,010	\$ 4,625,701

<b>Sub Total</b>	<b>\$ 4,625,701</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$ 4,625,800</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0

**Segment 3**

**LS                      SURVEY**

<b>Use 2% of Construction Costs</b>	<b>Construction</b>	<b>2%</b>
	<b>Items</b>	
Total Const items from summary sheet	\$ 50,882,810	\$ 1,017,656

<b>Sub Total</b>	<b>\$ 1,017,656</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$ 1,017,700</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client: WSDOT
Corridor Section:	Segment 3	Date: 01/16/07
Location:	snohomish to skykomish	Date of Cost Index: 2006
		Calculated By/Entered By: 0
		Checked By: 0
<b>Segment 3</b>		

**LS SPECIAL ITEMS**

Identify any special items included in the project.

<b>DESCRIPTION</b>	<b>LS PRICE</b>
Rumble Strip	<b>\$57,000</b>
unsuitable foundation excavation	<b>\$200,000</b>
Training	<b>\$2,500</b>
Soil residual herbicide	<b>\$476,700.00</b>
pavement marking	<b>\$660,000</b>
traffic control labor and safety	8000000
shoring and extra excavation	256000
trim	1600000
cement conc. Driveway	268000
	<b>Sub Total \$11,520,200</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$11,521,000</b>

**PLANNING LEVEL OPINION OF COST SUMMARY**

Project Description:	US 2 Corridor Plan	Client:	WSDOT
Corridor Section:	Segment 3	Date:	01/16/07
Location:	snohomish to skykomish	Date of Cost Index:	2006
		Calculated By/Entered By:	0
		Checked By:	0

**Segment 3**

**LS            UTILITY RELOCATIONS / AGREEMENTS**

Explain any obvious utility work. If outside existing ROW that will be impacted it will cost WSDOT and will need an estimate. If State Patrol will be needed for traffic control give an estimate based on working days.

<b>DESCRIPTION RELOCATIONS</b>	<b>LS PRICE</b>
Relocate Utility Poles	<b>\$0</b>

<b>Sub Total</b>	<b>\$0</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$0</b>

<b>DESCRIPTION AGREEMENTS</b>	<b>LS PRICE</b>
	<b>\$0</b>

<b>Sub Total</b>	<b>\$0</b>
<b>Uncertainty Factor (U<sub>i</sub>)</b>	<b>1</b>
<b>TOTAL</b>	<b>\$0</b>