# INTERIM PRELIMINARY ENGINEERING SHARED TRACK ALTERNATIVE SPOKANE LIGHT RAIL TRANSIT Shared Track Alternative

Summary of 0	Summary of Costs for the Shared Track Alternative								
Description	Year 2001\$	Escalated to MPE 2005\$							
Shared Track Alternative - Plaza to Liberty Lake (Alignment Stops at Liberty Lake Station)	\$309,913,397	\$362,554,840							

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Consolidated Summary Shared Track

Spokane	Regional				
	Light Rail Project				
	Order of Magnitude	<u> </u>		Length	
Drawing	Shared Track Option - Summary of Costs			81,968 FT	15.5 mile
	Shared Track Option (Plaza Station to Liberty L	ake Stati	on)		
	Description				2001\$
1-Civil Cons	truction				\$43,471,956
3 - Utilities					\$12,616,800
5 - Structure	s				\$506,250
6 - Stations					\$7,400,000
7 - Park & Ri					\$9,675,000
	ns Facility (Shared Track Option)				\$23,592,331
	Power System -Lighting and System Support				\$690,000
10 - Signal S					\$16,233,750
11 - Commu					\$1,770,000
12 - Fare Co	llection				\$2,450,000
	Subtotal - Infrastructure				\$118,406,087
13. Right of	Way				\$33,000,000
14. Vehicles					\$63,000,000
15 - Enginee	ring & Administration				\$44,592,130
16 - Conting	encies				\$36,924,657
17 - Washing	oton State Sales Tax and Real Estate Tax				\$13,990,522
				Total	\$309,913,397
				Cost Per mile	20.0 M/Mi

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Summary Shared Track

	Spokane	Regional					
		Light Rail Project			Eetims	ate Basics	
				01 101			
		Order of Magnitude		Start Sta	End Sta	Length	455 "
	Drawing	Shared Track Option - Summary of Costs	1			81,968 FT	15.5 mile
	C -3000	Shared Track Option (Plaza Station to Liberty					
	10: !! 0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Cons	Site Preparation - Clearing & Grubbing	81,968	LF	\$10	\$819,680	\$43,471,956
2		Grade Preparation to Top of subballast.	81,968	LF	\$35		
3		Curb & Gutter Allowance	3,400	LF	\$35		
4		Common Excavation	89,500	CY	\$15		
6		Common Backfill (From Project Excavation)	41,200	CY	\$4		
9		Chain Link Fencing 4'	6,780	LF	\$16		
10		Chain Link Fencing 6'	40,250	LF	\$22		
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	5,930 81,968	LF LF	\$22 \$6		
14		Ballasted Track at Grade or Structure	97,556	TF	\$223		
15		Ballasted Track with Pave-Over Topping	7,240	TF	\$285	. , ,	
20		#10 Single Crossover	1	EA	\$175,000		
21		#10 Turnout	14	EA	\$75,000		
22		#20 Turnout	5	EA	\$100,000		
23		Impact Attenuators	3	EA	\$35,000		
24 25	+	Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes)	18 17	EA EA	\$25,000 \$100,000		
26		Major Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)	17	EA EA	\$100,000		
27		Minor Traffic Signal (2 Lanes)	4	EA	\$100,000		
28		Major Traffic Signal (4 Lanes)	12	EA	\$200,000		
29		Complex Major Intersection Rebuild	1	EA	\$300,000		
30		Roadway Construction	57,440	SF	\$9		
31		Sidewalk Construction	14,100	SF	\$6		
32		Off Alignment Signal Modifications	5	EA TF	\$75,000		
35 36		Relocate UPRR Yard Lead or Branch Line Remove & Relocate Industrial Spur	6,280 2,630	TF	\$100 \$130		
37		Remove Industrial Spur	2,030	TF	\$50		
39		Construct New Ballasted Industrial Siding Track	1,850	TF	\$160		
50	2 - Insurance	- Included other in Items	, , , , , , , , , , , , , , , , , , , ,		,		
57	3 - Utilities						\$12,616,80
59		Utility Allowance - High	3,340	RF	\$600		
60		Utility Allowance - Medium	11,000	RF	\$350		
61 70	4 Track Mar	Utility Allowance - Low terials - Included in the Rail Items	67,628	RF	\$100	\$6,762,800	
74	5 - Structure						\$506,25
76	o otractare	Crash Wall (2.5' thick x 12' high)	350	CY	\$300	\$105,000	ψουσ,2ο
77		Retaining Wall to 5'	3,750	SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance	9,000	SF	\$30	\$270,000	
104	6 - Stations						\$7,400,00
105		Stations (Shared Track Option)	14	EA	\$500,000	\$7,000,000	
108		Station Name Operator Crew Room/Concession Building	2	EA	\$100.000	\$200,000	
110		Bus Turn-around and Canopy Reconstruction	1	LS	\$200,000		
115	7 - Park & Ri		†		Ψ200,000	Ψ200,000	\$9,675,00
116		Park & Ride	2,250	Space	\$4,300	\$9,675,000	,
117		Park & Ride Location					·
119	8 - Operation	ns Facility (Shared Track Option)					\$23,592,33
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			#40 400 CCC	m40 400 000	
123 124	+	Option)   Yard Trackwork (Shared Track Option)	1 1	LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)	1	LS	\$2,565,708		
126		Operations Facility Building (Shared Track Option)	1	LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)	1	LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)	1		\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support					\$690,00
141	-	Alignment Lighting (Shared Track Option)	1	LS	\$600,000		
142 147	10 8:	Spare Parts/ System Support (Shared Track Option)	1	LS	\$90,000	\$90,000	¢16 000 75
147	10 - Signal S	ystem  Signal (Shared Track Option)	1	LS	\$16,233,750	\$16,233,750	\$16,233,75
149		orginal (orlanea Track Option)	<u> </u>	LO	ψ10,233,750	ψ10,233,730	
150	1		1				
151	11 - Commu	nications					\$1,770,00
152		Communications (Shared Track Option)	1	LS	\$1,770,000	\$1,770,000	
153							
154							

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Summary Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Option - Summary of Costs				81,968 FT	15.5 mile
		Shared Track Option (Plaza Station to Liberty L	ake Station	)			
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		·					•
156							
157	12 - Fare Col						\$2,450,00
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)	15	LS	\$163,333	\$2,450,000	
159							
160		Subtotal - Infrastructure			Subtotal		\$118,406,08
161	40 81 14 61						***
162	13. Right of V	Nay 					\$33,000,000
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)	1	LS	\$28,000,000	\$28,000,000	
105		Shared Track Option HazMat Demo & Disposal	ı	LO	\$20,000,000	\$20,000,000	
166		(Tanks, Waste Mitigation etc.) - Allowance	1	LS	\$5,000,000	\$5,000,000	
174	14. Vehicles	(Talino, Tracto Miligation Cto.) The Walloc			ψο,οσο,οσο	φο,σσσ,σσσ	\$63,000,00
175		DMU Vehicles (Assume New)	15	EA	\$3,500,000	\$52,500,000	400,000,00
176		DMU Vehicles Spare Parts for 15 Vehicles	15	EA	\$700,000		
177						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
178							
179	15 - Engineer	ring & Administration			Subtotal		\$44,592,13
180	Infrastructure	E & A 35.00%				\$41,442,130	
181	Vehicle	E&A 5.00%				\$3,150,000	
182							
183							
184	40.0				0.4.4.4.1		000 004 05
185 187	16 - Continge Vehicles	Contingency 5.00%			Subtotal	\$3,150,000	\$36,924,65
189	Infrastructure	Contingency 5.00%				\$3,150,000	
191	Utilities	Contingency 100.00%				\$12,616,800	
191	Guines	Contingency 100.00%				φ12,010,000	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$13,990,52
195	17 Washing	Sales Tax 8.40%				\$13,990,521.69	Ψ10,000,02
		Sales Tax has been applied to 2/3 of Infrastructure &				Ţ.0,000,0 <u>2</u> 1.00	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$309,913,39
						Total	ψουσ,σ 10,09
						Cost Per mile	20.0 M/N

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-201 Shared Track

	Spokane	Regional					
	1	Light Rail Project			Fetime	ate Basics	
		Order of Magnitude		Ctart Cta			
	Danisia	Shared Track Downtown Section		Start Sta	End Sta	Length	0.0:1-
	Drawing			8+60	25+00	1,640 FT	0.3 mile
	C -201	Lincoln to Convention Center					
	4.05-11.0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Const	ruction  Site Preparation - Clearing & Grubbing	1,640	LF	\$10	\$16,400	\$2,519,60
2		Grade Preparation - Cleaning & Grubbing  Grade Preparation to Top of subballast.	1,640	LF	\$10		
3		Curb & Gutter Allowance	1,040	LF	\$35		
4		Common Excavation	3,000	CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)	1.010	LF	\$22		
12 14		Site Cleanup and Final Grading Allowance	1,640	LF TF	\$6 \$223		
15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	1,640	TF	\$223 \$285		
20		#10 Single Crossover	1,040	EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators	1	EA	\$35,000	\$35,000	
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)	4	EA	\$200,000		
27 28		Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes)	5	EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild	5	EA	\$300,000		
30		Roadway Construction	9,840	SF	\$9		
31		Sidewalk Construction	0,0.0	SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	2 Inc	Construct New Ballasted Industrial Siding Track		TF	\$160		
50 57	3 - Utilities	- Included other in Items					\$984,00
59	3 - Othities	Utility Allowance - High	1,640	RF	\$600	\$984,000	φ904,00
60		Utility Allowance - Medium	1,010	RF	\$350		
61		Utility Allowance - Low		RF	\$100		
70	4 - Track Mat	erials - Included in the Rail Items					
74	5 - Structure:						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		<b>#</b> F00.00
104	6 - Stations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	\$500,00
108		Station Name	Plaza Station	LA	ψ300,000	ψ500,000	
109		Operator Crew Room/Concession Building	r idza otation	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri	des					
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track Option)		10	£40,400,000		
123 124	-	Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)	+	LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40.01.15	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 ===		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150	-						
151	11 - Commur	nications					
152	Johnnu	Communications (Shared Track Option)		LS	\$1,770,000		
153					\$ .,. 10,000		
	1				1		

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-201 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Downtown Section		8+60	25+00	1,640 FT	0.3 mile
	C -201	Lincoln to Convention Center				,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•	-				-
156							
157	12 - Fare Coll						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$4,003,60
161							
162	13. Right of V	Vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	£28 000 000		
100		Shared Track Option HazMat Demo & Disposal		LS	\$28,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tarks, waste witigation etc.) - Allowance		LO	ψ5,000,000		
175	14. Venicies	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177					<b>\$1.00,000</b>		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$1,401,26
180	Infrastructure	E&A 35.00%				\$1,401,260	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$1,587,92
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$603,920	
191	Utilities	Contingency 100.00%				\$984,000	
192	47 Mask':::::	ton State Sales Tou and Basi Fatete Tou		-			<b>#242.40</b>
194 195	17 - wasning	ton State Sales Tax and Real Estate Tax Sales Tax 8.40%		1		\$313,125.12	\$313,12
195		Sales Tax has been applied to 2/3 of Infrastructure &				\$313,125.12	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
100	+	or the vernois o estimated total.		<del> </del>			
				1		Total	\$7,305,905
	+			1	1	. 5.01	ψ.,500,000

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-202 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	ite Basics	
		·		O4==4 O4=	1		
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0 = "
	Drawing	Shared Track Downtown Section		25+00	50+00	2,500 FT	0.5 mile
	C -202	Convention Center to Trent Station					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Cons		0.500		040	005.000	\$2,424,800
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500		\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	3,000		\$15		
6		Common Backfill (From Project Excavation)	400		\$4	\$1,600	
9		Chain Link Fencing 4'	200		\$16	\$3,200	
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2.500	LF LF	\$22	£45.000	
12 14		Ballasted Track at Grade or Structure	2,500 2,000		\$6 \$223		
15		Ballasted Track at Grade of Structure  Ballasted Track with Pave-Over Topping	1,500		\$285	\$427,500	
20		#10 Single Crossover	1,500	EA	\$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		_
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26 27		Major Intersection Rebuild (4 Lanes)  Minor Traffic Signal (2 Lanes)	3	EA EA	\$200,000 \$100,000		
28		Major Traffic Signal (4 Lanes)	3		\$200,000	\$600,000	
29		Complex Major Intersection Rebuild	3	EA	\$300,000		
30		Roadway Construction	9,000		\$9	\$81,000	
31		Sidewalk Construction	3,000		\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 - Incurance	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	- Included other in items					\$1,250,000
59		Utility Allowance - High	1,500	RF	\$600	\$900,000	ψ., <u>2</u> 00,000
60		Utility Allowance - Medium	1,000		\$350		
61		Utility Allowance - Low		RF	\$100		
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	WSE (or Sourid) Retaining Wall Allowance		SF.	φου		\$500,000
105	0 - Otations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	ψ300,000
108		Station Name	Convention Co		<b>\$550,000</b>	4000,000	
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		-
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117 119	9 Operation	Park & Ride Location					
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support		1.0	#000 000		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142 147	10 - Signal S	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
148	. Uigilai S	Signal (Shared Track Option)		LS	\$16,233,750		
149		Signal (Sharou Truok Option)			ψ10,200,700		
150							
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		·
153							
154	1						

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-202 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Downtown Section		25+00	50+00	2,500 FT	0.5 mile
	C -202	Convention Center to Trent Station					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155			•				
156							
157	12 - Fare Col						
450		Fare Collection Vending/ Validator & Spares (Shared Track			****		
158 159		Option)		LS	\$163,333		
160		Subtotal - Infrastructure			Subtotal		\$4,174,800
161		Subtotal - Infrastructure			Subtotal		\$4,174,80
162	13. Right of V	Nav					
102	10. Kight Of V	Tuy					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal	<b>*</b> 4 404 400	\$1,461,180
180 181	Infrastructure Vehicle	E & A 35.00% E & A 5.00%				\$1,461,180	
182	verlicie	E & A 5.00%					
183							
184							
185	16 - Continge	encies			Subtotal		\$1,834,960
187	Vehicles	Contingency 5.00%					¥ 1,00 1,00 1
189	Infrastructure	Contingency 20.00%				\$584,960	
191	Utilities	Contingency 100.00%				\$1,250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax	,				\$336,547
195		Sales Tax 8.40%				\$336,547	
		Sales Tax has been applied to 2/3 of Infrastructure &					
400		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$7,807,487
						TOTAL	φι,ουι,481
	1						

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-203 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
				Ct Ct-	1	1	
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track BN Section		50+00	75+00	2,500 FT	0.5 mile
	C -203	Trent Station to Hamilton St Bridge Area	_				
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		040	005.000	\$1,002,30
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	11,000	CY	\$15		
6		Common Backfill (From Project Excavation)	2,600	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	2,800	TF TF	\$223		
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					¢250.00
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items	,,,,,,			, , , , , , ,	
74	5 - Structure	s					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		2500.00
104 105	6 - Stations	Stations (Shared Track Option)	1	EA	¢500,000	\$500,000	\$500,00
105		Station Name	Trent Station	EA	\$500,000	\$500,000	
100		Operator Crew Room/Concession Building	Trent Station	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location		-			
119	8 - Operation	s Facility (Shared Track Option)					
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track		10	£40,400,000		
123 124	1	Option)   Yard Trackwork (Shared Track Option)	+	LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$2,565,708		
126	+	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S				610.000		
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149 150	+						
150	11 - Commu	nications					
152	i i - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153		The state of the s			\$ .,. 10,000		
154	1		1		1	1	

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-203 Shared Track

155 156 157	Drawing C -203	Light Rail Project Order of Magnitude Shared Track BN Section		Start Sta		te Basics	
156		Shared Track BN Section		Start Sta			
156		Shared Track BN Section		Start Sta	End Sta	Length	
156		Tuent Otation to Henrilton Ot Bridge Anna		50+00	75+00		0.5 mile
156		Trent Station to Hamilton St Bridge Area				,	
156		Description	Quantity	Unit	Unit Cost	Extension	2001\$
		·	-				
157							
	12 - Fare Coll						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,752,30
161							
162	13. Right of V	Nay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176 177		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
178							
	15 Engineer	ring & Administration			Subtotal		\$613,30
	Infrastructure	E & A 35.00%			Subtotal	\$613,305	\$013,30
	Vehicle	E&A 55.00%				φ013,303	
182	VOINGE	E 477 0.0070					
183							
184							
185	16 - Continge	encies			Subtotal		\$550,46
187	Vehicles	Contingency 5.00%					
189 I	Infrastructure	Contingency 20.00%				\$300,460	
	Utilities	Contingency 100.00%				\$250,000	
192							
	17 - Washing	ton State Sales Tax and Real Estate Tax					\$128,95
195		Sales Tax 8.40%				\$128,955	
		Sales Tax has been applied to 2/3 of Infrastructure &					
400		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
$\longrightarrow$						Total	#2 D4E 004
$\longrightarrow$						IOIAI	\$3,045,020

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-204 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetims	ate Basics	
		-		044 04-			
	<b>.</b> .	Order of Magnitude		Start Sta	End Sta	Length	0.5
	Drawing	Shared Track BN Section		75+00	100+00	2,500 FT	0.5 mile
	C -204	Hamiliton St Bridge Area to Helena Street					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$2,214,20
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	38,000	CY	\$15		
6		Common Backfill (From Project Excavation)	200	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	4,300	TF TF	\$223		
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout	1	EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	2	EA	\$100,000		-
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur	1,400	TF	\$130	\$182,000	
37		Remove Industrial Spur		TF	\$50		
39	ļ <u>.</u> .	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	- Included other in Items					<b>#250.00</b>
57 59	3 - Othlities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70	4 - Track Mat	erials - Included in the Rail Items			·		
74	5 - Structure:	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	¢500,000		
105		Station Name		EA	\$500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	ļ	Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track		10	040 400 000		
123 124		Option) Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)	+	LS	\$2,565,708		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)	1	LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S				010 222 222		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149	1				-		
150 151	11 - Commur	nications					
152	11 - Commun	Communications (Shared Track Option)		LS	\$1,770,000		
153		Communications (Onlinear Track Option)			Ψ1,770,000		
	+				1		

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-204 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track BN Section		75+00	100+00		0.5 mile
	C -204	Hamiliton St Bridge Area to Helena Street				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•	•				-
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$2,464,20
161							
162	13. Right of V	Nay					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$862,47
180	Infrastructure	E & A 35.00%				\$862,470	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$692,84
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$442,840	
191	Utilities	Contingency 100.00%				\$250,000	
192							0.170
194	17 - Washing	ton State Sales Tax and Real Estate Tax				0.170.75	\$176,79
195		Sales Tax 8.40%				\$176,794	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$4,196,30
							Ţ 1, 1 2 3, <b>0</b> 0

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-205 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetima	ite Basics	
		·		Ot + Ot -			
	D	Order of Magnitude		Start Sta	End Sta	Length	0.5
	Drawing	Shared Track BN Section		100+00	125+00	2,500 FT	0.5 mile
	C -205	Helena Street to New BN Yard Bridge					
	10: !! 0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Cons	Site Preparation - Clearing & Grubbing	2,500	LF	610	\$25,000	\$1,535,200
2		Grade Preparation to Top of subballast.	2,500		\$10 \$35		
3		Curb & Gutter Allowance	2,300	LF	\$35		
4		Common Excavation	3,000		\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF LF	\$22 \$22		
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500		\$22	\$15,000	
14		Ballasted Track at Grade or Structure	400		\$223		
15		Ballasted Track with Pave-Over Topping	2,100		\$285		
20		#10 Single Crossover	, , , , , ,	EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000 \$35,000		
24 25		Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes)	3	EA EA	\$25,000 \$100,000	\$75,000 \$100,000	
26		Major Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)	1	EA	\$100,000		
28		Major Traffic Signal (4 Lanes)	1	EA	\$200,000	\$200,000	
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32 35		Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA TF	\$75,000 \$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50		- Included other in Items					
57	3 - Utilities	LINES AND LE L		55	****		\$875,000
59 60		Utility Allowance - High Utility Allowance - Medium	2,500	RF RF	\$600 \$350		
61		Utility Allowance - Low	2,500	RF	\$100	φοτ 5,000	
70	4 - Track Mar	terials - Included in the Rail Items			Ų.00		
74	5 - Structure	s					\$105,000
76		Crash Wall (2.5' thick x 12' high)	350		\$300		
77		Retaining Wall to 5'		SF	\$35		
78 104	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		<b>#</b> 500,000
104	6 - Stations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	\$500,000
108		Station Name	NAPA Station	LA	ψ300,000	Ψ300,000	
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117 119	8 - Operation	Park & Ride Location as Facility (Shared Track Option)			+		
119	o - Operation	Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128 133	Q - Traction !	MOW Vehicles (Shared Track Option)  Power System -Lighting and System Support		LS	\$1,847,460		
141	J - HACHOII I	Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S				\$55,500		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149							
150	44 0::						
151 152	11 - Commu	communications (Shared Track Option)		LS	\$1,770,000		
	1	Communications (Snared Track Option)	1	LO	φ1,110,000		
153							

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-205 Shared Track

		Regional		1		l l	
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track BN Section		100+00	125+00	2,500 FT	0.5 mile
	C -205	Helena Street to New BN Yard Bridge				,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					· · · · · ·
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$3,015,20
161							
162	13. Right of V	Vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal		-	, , , , , , , , , , , , , , , , , , , ,		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	,					
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							•
178							
179		ring & Administration			Subtotal		\$1,055,32
180	Infrastructure	E & A 35.00%				\$1,055,320	
181	Vehicle	E&A 5.00%					
182							
183							
184	40.0				0		04 000 04
185	16 - Continge				Subtotal		\$1,303,040
187 189	Vehicles Infrastructure	Contingency 5.00% Contingency 20.00%				\$428,040	
191		Contingency 20.00%  Contingency 100.00%				\$875,000	
191	Utilities	Contingency 100.00%				\$075,000	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$241,82
195	ir - wasillig	Sales Tax and Real Estate Tax  Sales Tax 8.40%				\$241,821	Ψ271,02
		Sales Tax has been applied to 2/3 of Infrastructure &				Ψ2-11,021	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$5,615,38°
						IUlai	φυ,υ 1υ,30

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-206 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	te Basics	
		-		011-01-	1		
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		125+00	150+00	2,500 FT	0.5 mile
	C -206	New BN Yard Bridge to Regal Street					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		210	205.000	\$1,667,400
1		Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	
3		Grade Preparation to Top of subballast.  Curb & Gutter Allowance	2,500 1,300	LF LF	\$35 \$35	. ,	
4		Common Excavation	4,500	CY	\$15	\$67,500	
6		Common Backfill (From Project Excavation)	500	CY	\$4	\$2,000	
9		Chain Link Fencing 4'		LF	\$16	7=,000	
10		Chain Link Fencing 6'	600	LF	\$22	\$13,200	
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	500	TF	\$223	. ,	
15		Ballasted Track with Pave-Over Topping	2,000	TF	\$285	\$570,000	
20		#10 Single Crossover #10 Turnout		EA	\$175,000		
21		#20 Turnout		EA EA	\$75,000 \$100,000		
23	+	Impact Attenuators		EA	\$35,000		
24	1	Minor Street Closures Allowance	2	EA	\$25,000	\$50,000	
25	1	Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000	\$100,000	
26	1	Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)	1	EA	\$100,000	\$100,000	
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction	38,600	SF	\$9	\$347,400	
31		Sidewalk Construction	10,800	SF	\$6	\$64,800	
32		Off Alignment Signal Modifications	000	EA	\$75,000	#C0 000	
35 36		Relocate UPRR Yard Lead or Branch Line Remove & Relocate Industrial Spur	680	TF TF	\$100 \$130	\$68,000	
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance	- Included other in Items			<b>\$100</b>		
57	3 - Utilities						\$875,00
59		Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium	2,500	RF	\$350	\$875,000	
61		Utility Allowance - Low		RF	\$100		
70		erials - Included in the Rail Items					
74 76	5 - Structure			CY	\$300		
77		Crash Wall (2.5' thick x 12' high) Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	mez (er eeuna) retaming ram / merranee		0.	ψ00		
105		Stations (Shared Track Option)		EA	\$500,000		
108		Station Name					
109		Operator Crew Room/Concession Building		EA	\$100,000		
110	1	Bus Turn-around and Canopy Reconstruction	1	LS	\$200,000		
115	7 - Park & Ri			0	***		
116	1	Park & Ride Park & Ride Location		Space	\$4,300		
117 119	8 - Operation	S Facility (Shared Track Option)					
נוו	5 - Operation	Bldg & Yard Site Prep, Grading & Utilities (Shared Track			<u> </u>		
123		Option)		LS	\$10,163,008		
124	1	Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128	1	MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support			****		
141	1	Alignment Lighting (Shared Track Option)		LS	\$600,000		
142 147	10 - Signal C	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S	Signal (Shared Track Option)		LS	\$16,233,750		
149	+	orginal (orlaned Track Option)		LO	ψ10,233,750		
150	1						
151	11 - Commur	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153		, , , , , , , , , , , , , , , , , , , ,			. , .,,,,,,,,		

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-206 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		125+00	150+00	2,500 FT	0.5 mile
	C -206	New BN Yard Bridge to Regal Street				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
450		Fare Collection Vending/ Validator & Spares (Shared Track			<b>#</b> 400.000		
158		Option)		LS	\$163,333		
159 160		Cultistal Infrastructure			Cultatal		<b>CO E 40 400</b>
161		Subtotal - Infrastructure			Subtotal		\$2,542,400
162	42 Diabt of I	Man.					
102	13. Right of \	way 					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178	ļ						
179		ring & Administration			Subtotal		\$889,840
180	Infrastructure	E & A 35.00%				\$889,840	
181 182	Vehicle	E & A 5.00%					
183							
184							
185	16 - Continge	ancies			Subtotal		\$1,208,480
187	Vehicles	Contingency 5.00%			Oubtotal		ψ1,200,400
189	Infrastructure					\$333,480	
191	Utilities	Contingency 100.00%				\$875,000	
192	o unuo o	Schaingeney recise /s				ψο: σ,σσσ	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$210,049
195		Sales Tax 8.40%				\$210,049	,
		Sales Tax has been applied to 2/3 of Infrastructure &					
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$4,850,769
						I Ulai	φ4,000,708

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-207 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetims	ate Basics	
		-		Ctart Cta	1	1	
		Order of Magnitude		Start Sta	End Sta	Length	0.5 "
		Shared Track UP Section		150+00	175+00	2,500 FT	0.5 mile
	C -207	Regal Street to Freya Street	_				
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	#0F 000	\$1,381,78
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	500	CY	\$4		
9		Chain Link Fencing 4'	3,760	LF	\$16	\$60,160	
10		Chain Link Fencing 6'	1,000	LF	\$22		
11		Ballast Walls (Curb-no drainage)	3,760	LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	. ,	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	3	EA	\$25,000	\$75,000	
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000		-
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line	2,500	TF	\$100		
36		Remove & Relocate Industrial Spur	230	TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	<b>_</b>	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	- Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70	4 - Track Mat	erials - Included in the Rail Items					
74	5 - Structure:	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124		Option) Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40.00	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150							
150	11 - Commur	nications			1		
152	i i - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153				3	Ţ.,. ro,000		
154							

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-207 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		150+00	175+00		0.5 mile
	C -207	Regal Street to Freya Street				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159 160		Subtotal - Infrastructure			Culatatal		£4 CO4 70/
161		Subtotal - Infrastructure			Subtotal		\$1,631,780
162	13. Right of \	Nav					
102	13. Right of V	Tay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178	45 Empires	sin a Q A desiminate at la ca			Culatatal		<b>6574 40</b>
179 180	Infrastructure	ring & Administration E & A 35.00%			Subtotal	\$571,123	\$571,123
181	Vehicle	E & A 55.00%				\$571,125	
182	VCITICIC	E & A 0.00%					
183							
184							
185	16 - Continge	encies			Subtotal		\$526,356
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$276,356	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax				0100.5=5	\$120,856
195		Sales Tax 8.40%				\$120,856	
		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
130		or the vernore 3 estimated total.					
						Total	\$2,850,115
							<b>\$2,000,110</b>
	1						

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-208 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetima	ite Basics	
		-		Ctart Cta			
	ļ <u>.</u> .	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track UP Section		175+00	200+00	2,500 FT	0.5 mile
	C -208	Freya Street to Havana Street Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$1,893,66
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	1,500	CY	\$4		
9		Chain Link Fencing 4'	2,820	LF	\$16	\$45,120	
10		Chain Link Fencing 6'	900	LF	\$22	\$19,800	
11		Ballast Walls (Curb-no drainage)	2,170	LF	\$22	\$47,740	
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	2,500	TF TF	\$223	\$557,500	
15 20		#10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout	3	EA	\$75,000		
22		#20 Turnout		EA	\$100,000	<b>\$220,000</b>	
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	2	EA	\$25,000	\$50,000	
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		-
26		Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000	\$200,000	
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications	1	EA	\$75,000	\$75,000	
35		Relocate UPRR Yard Lead or Branch Line	2,500	TF	\$100		
36		Remove & Relocate Industrial Spur	200	TF	\$130	\$26,000	
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track	1,650	TF	\$160	\$264,000	
50	2 - Insurance 3 - Utilities	- Included other in Items					<b>#250.00</b>
57 59	3 - Othlities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2.500	RF	\$100	\$250,000	
70	4 - Track Mat	erials - Included in the Rail Items	· ·				
74	5 - Structure:	S					\$122,50
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'	3,500	SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		<b>*</b> 500.00
104	6 - Stations	Stations (Shared Track Option)	1	EA	©E00.000	\$500,000	\$500,00
108		Station Name	East Central S		\$500,000	\$500,000	
100		Operator Crew Room/Concession Building	Last Certifal C	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123		Option)		LS	\$10,163,008		
124 125		Yard Trackwork (Shared Track Option)  Yard Ductbank / Conduit (Shared Track Option)		LS LS	\$2,565,708 \$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support			1		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S						
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149							
150 151	11 - Commur	nications			<u> </u>		
151	i i - Commur	Communications (Shared Track Option)		LS	\$1,770,000		
153		Communications (Ghared Track Option)		LO	φ1,110,000		
					<b> </b>		

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-208 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		175+00	200+00	2,500 FT	0.5 mile
	C -208	Freya Street to Havana Street Area				,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159					0.1.1.1		00 700 100
160		Subtotal - Infrastructure			Subtotal		\$2,766,160
161 162	42 Diabt of	Mov					
102	13. Right of	way 					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$968,156
180	Infrastructure					\$968,156	
181	Vehicle	E&A 5.00%					
182							
183							
184	16 - Conting				Cultatal		\$753,232
185 187	Vehicles	Contingency 5.00%			Subtotal		\$155,252
189	Infrastructure	ů ,				\$503,232	
191	Utilities	Contingency 100.00%				\$250,000	
192	Otilities	Contingency 100.00%				Ψ230,000	
194	17 - Washing	pton State Sales Tax and Real Estate Tax					\$197,086
195	17 - Washing	Sales Tax 8.40%				\$197,086	ψ137,000
100		Sales Tax has been applied to 2/3 of Infrastructure &				Ψ157,000	
196		Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$4,684,634
						1000	ψ1,001,004

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-209 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	ite Basics	
		Order of Magnitude		Ctort Cto			
	Danisia	Shared Track UP Section		Start Sta	End Sta	Length	0.5: -
	Drawing			200+00	225+00	2,500 FT	0.5 mile
	C -209	Havana Street Area to UPRR Spokane Yard Ar		1114	Unit Coot	Fortemation	00046
	4 Chill Canal	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Cons	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	\$1,767,500
2		Grade Preparation to Top of subballast.	2,500		\$35	\$87,500	
3		Curb & Gutter Allowance	2,000	LF	\$35	ψον,σσσ	
4		Common Excavation	500	CY	\$15	\$7,500	
6		Common Backfill (From Project Excavation)	500		\$4	\$2,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000		\$22	\$110,000	
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500	LF LF	\$22 \$6	\$15,000	
14		Ballasted Track at Grade or Structure	4,500		\$223		
15		Ballasted Track with Pave-Over Topping	4,300	TF	\$285	ψ1,003,300	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout	2	EA	\$75,000	\$150,000	
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	1	EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA EA	\$100,000 \$200,000	\$200,000	
26 27		Major Intersection Rebuild (4 Lanes)  Minor Traffic Signal (2 Lanes)	1	EA	\$200,000	\$200,000	
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications	1	EA	\$75,000	\$75,000	
35		Relocate UPRR Yard Lead or Branch Line	600	TF	\$100	\$60,000	
36		Remove & Relocate Industrial Spur		TF	\$130		
37 39		Remove Industrial Spur Construct New Ballasted Industrial Siding Track	200	TF TF	\$50 \$160	#22.000	
50	2 - Insurance	e - Included other in Items	200	IF	\$100	\$32,000	
57	3 - Utilities	molada dillor in tollo					\$250,000
59		Utility Allowance - High		RF	\$600		<del>+</del> ,
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70		terials - Included in the Rail Items					
74	5 - Structure			0)/	****		\$8,750
76 77		Crash Wall (2.5' thick x 12' high)	250	CY SF	\$300 \$35	\$8,750	
78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance	250	SF	\$30	\$0,750	
104	6 - Stations	Wor (or Journa) Retaining Wall Allowance		- Oi	ψου		\$600,000
105	o otationo	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	φοσο,σσο
108		Station Name	Fairground Sta		, ,		
109		Operator Crew Room/Concession Building	1	EA	\$100,000	\$100,000	
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						\$860,000
116		Park & Ride Park & Ride Location	200		\$4,300	\$860,000	
117 119	9 Operation	Park & Ride Location s Facility (Shared Track Option)	Fairground Sta	ation			
119	o - Operation	Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)	1	LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)	4	LS	\$3,373,155		
128	0 Tue : 11 - 1	MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133 141	9 - I raction I	Power System -Lighting and System Support Alignment Lighting (Shared Track Option)	+	LS	\$600,000		
141		Spare Parts/ System Support (Shared Track Option)	+	LS	\$90,000		
147	10 - Signal S		+	LU	ψ90,000		
148	. J. Signar O	Signal (Shared Track Option)	+	LS	\$16,233,750		
149		C (			, ,		
150							
151	11 - Commu						
152		Communications (Shared Track Option)		LS	\$1,770,000		
153 154			1				
	1	The state of the s	1	I.	İ.		

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-209 Shared Track

	Spokane	Regional				T	
		Light Rail Project			Estima	te Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		200+00	225+00		0.5 mile
	C -209	Havana Street Area to UPRR Spokane Yard Are	а			·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$3,486,25
161							
162	13. Right of V	Vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
105	+	Shared Track Option HazMat Demo & Disposal		LS	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Taliks, Waste Miligation etc.) - Allowance			\$5,000,000		
175	14. Vernicles	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177		Divide vernoises opered and for the vernoises		LA	ψ100,000		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$1,220,18
180	Infrastructure	E&A 35.00%				\$1,220,188	. , , .
181	Vehicle	E & A 5.00%				, , , , , , ,	
182							
183							
184							
185	16 - Continge				Subtotal		\$897,250
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$647,250	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$245,476
195		Sales Tax 8.40%				\$245,476	
		Sales Tax has been applied to 2/3 of Infrastructure &					
400		Contingency (Reduced to eliminate tax on Labor) and 100%					
196	1	of the vehicle's estimated total.					
	1					Total	\$5,849,164
	1			1		TULAI	φυ,ο <del>4</del> υ, 10 <sup>2</sup>
	+			1			

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-210 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	te Basics	
		Order of Magnitude		Ctart Cta			
	Drawing	Shared Track UP Section		Start Sta	End Sta	Length	0 E mila
	- 3			225+00	250+00	2,500 FT	0.5 mile
	C -210	UPRR Spokane Yard Area	0	1114	Unit On at	Forteralism	00046
	4 Civil Canad	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Const	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	\$1,379,300
2		Grade Preparation to Top of subballast.	2,500		\$35	\$87,500	
3		Curb & Gutter Allowance	2,000	LF	\$35	ψο.,σσσ	
4		Common Excavation	8,500	CY	\$15	\$127,500	
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000	LF LF	\$22 \$22	\$110,000	
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	4,100	TF	\$223	\$914,300	
15		Ballasted Track with Pave-Over Topping	1,100	TF	\$285	φο τ τ,σσσ	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout	1	EA	\$100,000	\$100,000	
23		Impact Attenuators		EA	\$35,000		
24 25		Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes)	+	EA EA	\$25,000 \$100,000		
26		Major Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)	+	EA EA	\$100,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35 36		Relocate UPRR Yard Lead or Branch Line Remove & Relocate Industrial Spur		TF TF	\$100 \$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance	- Included other in Items					
57	3 - Utilities						\$250,000
59		Utility Allowance - High		RF	\$600		
60 61		Utility Allowance - Medium Utility Allowance - Low	2.500	RF RF	\$350 \$100	\$250,000	
70	4 - Track Mat	erials - Included in the Rail Items	2,500	KF	\$100	\$250,000	
74	5 - Structures						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations						
105		Stations (Shared Track Option)		EA	\$500,000		
108 109		Station Name Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ric		1		\$200,000		
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)	1				
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124		Option) Yard Trackwork (Shared Track Option)	+	LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)	+	LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)	+	LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
		Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)	1	LS	\$600,000		
142 147	10 - Signal Sy	Spare Parts/ System Support (Shared Track Option)	+	LS	\$90,000		
147	io - Signal S	Signal (Shared Track Option)	+	LS	\$16,233,750		
149		orginal (official fraction option)		-10	ψ10,200,100		
150							
151	11 - Commun						
						-	
152		Communications (Shared Track Option)		LS	\$1,770,000		
		Communications (Shared Track Option)		LS	\$1,770,000		

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-210 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		225+00	250+00	2,500 FT	0.5 mile
	C -210	UPRR Spokane Yard Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155			_				
156							
157	12 - Fare Col						
450		Fare Collection Vending/ Validator & Spares (Shared Track			****		
158		Option)		LS	\$163,333		
159 160		Subtotal - Infrastructure			Subtotal		\$1,629,300
161		Subtotal - Imrastructure			Subiolai		\$1,029,300
162	13. Right of	Way					
102	10. Right of						
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$570,255
180	Infrastructure					\$570,255	
181	Vehicle	E&A 5.00%					
182							
183							
184 185	16 - Conting	oneice			Cubtotal		\$525,860
187	Vehicles	Contingency 5.00%			Subtotal		\$323,000
189	Infrastructure	0 7				\$275,860	
191	Utilities	Contingency 100.00%				\$250,000	
192	Cuntoo	Gentingeney 100:0070				Ψ200,000	
194	17 - Washing	gton State Sales Tax and Real Estate Tax					\$120,689
195		Sales Tax 8.40%				\$120,689	Ţ:==;;:::
		Sales Tax has been applied to 2/3 of Infrastructure &				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$2,846,104

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-211 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
				Ctart Cta			
		Order of Magnitude		Start Sta	End Sta	Length	0.5
	Drawing	Shared Track UP Section		250+00	275+00	2,500 FT	0.5 mile
	C -211	UPRR Spokane Yard Area to Interstate 90					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		0.10	205.000	\$1,260,50
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	1,500	CY	\$15		
6		Common Backfill (From Project Excavation)	500	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000	LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14 15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	2,500	TF TF	\$223 \$285		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout	2	EA	\$75,000		
22		#20 Turnout	_	EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur	700	TF	\$130	\$91,000	
37		Remove Industrial Spur		TF	\$50		
39	0 1	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2.500	RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , ,	, , , , , , ,	
74	5 - Structure:	s					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	Chatiana (Charad Track Ortion)		Ε.Δ	¢500,000		
105 108		Stations (Shared Track Option) Station Name		EA	\$500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track		10	640 400 000		
123 124	1	Option)   Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10.00	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149 150	-						
150	11 - Commur	nications			+		
152	TT - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153	1	2		1	\$ 1,1 1 0,000		
	-1				1		

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-211 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		250+00	275+00	2,500 FT	0.5 mile
	C -211	UPRR Spokane Yard Area to Interstate 90				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155			_				
156							
157	12 - Fare Col						
158		Fare Collection Vending/ Validator & Spares (Shared Track Option)		LS	\$163,333		
159		Option)			ψ100,000		
160		Subtotal - Infrastructure			Subtotal		\$1,510,500
161					oubtota.		ψ.,σ.σ,σσσ
162	13. Right of	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$528,675
180	Infrastructure					\$528,675	
181 182	Vehicle	E & A 5.00%					
183							
184							
185	16 - Conting	oncies			Subtotal		\$502,100
187	Vehicles	Contingency 5.00%			Cubiolai		Ψ002,100
189	Infrastructure	ŭ ,				\$252,100	
191	Utilities	Contingency 100.00%				\$250,000	
192		, , , , , , , , , , , , , , , , , , ,					
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$112,706
195		Sales Tax 8.40%				\$112,706	
		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$2,653,981

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-212 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
				Ctart Cta	1	1	
	- ·	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track UP Section		275+00	300+00	2,500 FT	0.5 mile
	C -212	Interstate 90 to Approx Station 300+00					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		0.10	205.000	\$822,00
1		Site Preparation - Clearing & Grubbing	2,500	LF	\$10		
3		Grade Preparation to Top of subballast.  Curb & Gutter Allowance	2,500	LF LF	\$35 \$35	. ,	
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	500	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000	LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	2,500	TF	\$223	. ,	
15		Ballasted Track with Pave-Over Topping		TF	\$285		
20		#10 Single Crossover #10 Turnout		EA	\$175,000		
21		#20 Turnout		EA EA	\$75,000 \$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	1	EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	<u> </u>	EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA TF	\$75,000		
35 36		Renove & Relocate Industrial Spur		TF	\$100 \$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance	- Included other in Items			7.22		
57	3 - Utilities						\$250,00
59		Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70		terials - Included in the Rail Items					
74 76	5 - Structure	Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	(er commy recomming recommended)			7-2-		
105		Stations (Shared Track Option)		EA	\$500,000		
108		Station Name					
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri				24.000		
116		Park & Ride Park & Ride Location		Space	\$4,300		
117 119	8 - Operation	Park & Ride Location s Facility (Shared Track Option)			-		
118	o - Operation	Bldg & Yard Site Prep, Grading & Utilities (Shared Track			<u> </u>		
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support			****		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142 147	10 - Signal S	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	iv - Signai S	Signal (Shared Track Option)		LS	\$16,233,750		
149		organia (orialica fracia option)		- 10	ψ10,200,700		
150							
151	11 - Commur	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153							
154	1						

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-212 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		275+00	300+00	2,500 FT	0.5 mile
	C -212	Interstate 90 to Approx Station 300+00				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		·	•				-
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,072,00
161							
162	13. Right of V	Nay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
103		Shared Track Option HazMat Demo & Disposal		LO	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Talme, Table Imagazon etc.) Tale Talles		- 20	<b>\$0,000,000</b>		
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177		·					
178							
179	15 - Engineer	ring & Administration			Subtotal		\$375,20
180	Infrastructure	E & A 35.00%				\$375,200	
181	Vehicle	E&A 5.00%					
182							
183							
184					0.14.4.1		0.1.1.10
185	16 - Continge				Subtotal		\$414,40
187 189	Vehicles Infrastructure	Contingency 5.00% Contingency 20.00%				\$164,400	
191	Utilities	Contingency 20.00%  Contingency 100.00%				\$164,400	
192	Otilities	Contingency 100.00%				\$250,000	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$83.23
195	asining	Sales Tax and Real Estate Tax  Sales Tax 8.40%				\$83,238	ψ00,200
		Sales Tax has been applied to 2/3 of Infrastructure &				\$55,200	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	61 044 00
						Total	\$1,944,838
	1			<del> </del>			

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-213 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	ite Basics	
		,		Ctart Cta	1		
	D	Order of Magnitude		Start Sta	End Sta	Length	0.5
	Drawing	Shared Track UP Section		300+00	325+00	2,500 FT	0.5 mile
	C -213	Park Road & Spear Ave Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Cons		0.500		040	005.000	\$795,000
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000	LF	\$22	\$110,000	
11		Ballast Walls (Curb-no drainage)	0.500	LF	\$22	0.45.000	
12 14		Site Cleanup and Final Grading Allowance	2,500	LF TF	\$6 \$223		
15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	2,500	TF	\$223 \$285	\$557,500	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout	1	EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000		
26	1	Major Intersection Rebuild (4 Lanes)	+	EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
28 29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 Incurence	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	e - included other in items					\$250,000
59	0 - Othities	Utility Allowance - High		RF	\$600		Ψ230,000
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78 104	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		\$500,000
105	6 - Stations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	\$500,000
108		Station Name	Park Street St		φοσο,σσσ	φοσο,σσο	
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride	1	Space	\$4,300		
117	0. 0	Park & Ride Location					
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track	+				
123		Option)		LS	\$10,163,008		
123		Yard Trackwork (Shared Track Option)	+	LS	\$10,163,008		
125		Yard Ductbank / Conduit (Shared Track Option)	+	LS	\$300,000		
126		Operations Facility Building (Shared Track Option)	1	LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		·
133	9 - Traction I	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10 6:	Spare Parts/ System Support (Shared Track Option)	+	LS	\$90,000		
147	10 - Signal S	•	+	10	¢16 222 750		
148 149		Signal (Shared Track Option)	+	LS	\$16,233,750		
150			+				
151	11 - Commu	nications	1				
152		Communications (Shared Track Option)		LS	\$1,770,000		
153							
154					1		

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-213 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		300+00	325+00	2,500 FT	0.5 mile
	C -213	Park Road & Spear Ave Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,545,000
161							
162	13. Right of	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
166		Shared Track Option HazMat Demo & Disposal (Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179	15 - Enginee	ring & Administration			Subtotal		\$540,750
180	Infrastructure	E&A 35.00%				\$540,750	
181	Vehicle	E & A 5.00%					
182							
183							
184							
185	16 - Conting				Subtotal		\$509,000
187	Vehicles	Contingency 5.00%					
189	Infrastructure					\$259,000	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	nton State Sales Tax and Real Estate Tax					\$115,024
195		Sales Tax 8.40%				\$115,024	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$2,709,774
	1						

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-214 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	te Basics	
		-		Ct4 Ct-	1		
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track UP Section		325+00	350+00	2,500 FT	0.5 mile
	C -214	Vista Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$870,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	\$67,500	
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	5,000	LF	\$22	\$110,000	
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	\$557,500	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications	1	EA	\$75,000	\$75,000	
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70	4 - Track Mat	terials - Included in the Rail Items	· ·				
74	5 - Structure	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location					
119	8 - Operation	ns Facility (Shared Track Option)					
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track		1.0	040 400 000		
123 124	-	Option)   Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40 01: 15	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	#16 000 7F0		
148 149	+	Signal (Shared Track Option)	+	LS	\$16,233,750		
150	+						
151	11 - Commu	ı nications	+		<del> </del>		
152	σσιπιαι	Communications (Shared Track Option)		LS	\$1,770,000		
153	1				, ,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
154							

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-214 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		325+00	350+00	2,500 FT	0.5 mile
	C -214	Vista Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,120,000
161							
162	13. Right of	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
166		Shared Track Option HazMat Demo & Disposal (Tanks,Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$392,000
180	Infrastructure					\$392,000	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Conting				Subtotal		\$424,000
187	Vehicles	Contingency 5.00%					
189	Infrastructure					\$174,000	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	gton State Sales Tax and Real Estate Tax					\$86,464
195		Sales Tax 8.40%				\$86,464	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$2,022,464

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-215 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Eetims	ite Basics	
		·		01 101	1		
		Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track UP Section		350+00	375+00	2,500 FT	0.5 mile
	C -215	Sargent Road to Argonne Station					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Cons	truction	0.500		040	005.000	\$1,381,300
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	500	CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	4,500	LF	\$22	\$99,000	
11		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2.500	LF LF	\$22	£45.000	
12 14		Ballasted Track at Grade or Structure	2,500 2,500	TF	\$6 \$223		
15		Ballasted Track at Grade of Structure  Ballasted Track with Pave-Over Topping	2,500	TF	\$285	φ557,500	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26 27		Major Intersection Rebuild (4 Lanes)  Minor Traffic Signal (2 Lanes)		EA EA	\$200,000 \$100,000		
28		Major Traffic Signal (4 Lanes)	1	EA EA	\$200,000	\$200,000	
29		Complex Major Intersection Rebuild	1	EA	\$300,000		
30		Roadway Construction		SF	\$9	4000,000	
31		Sidewalk Construction	300	SF	\$6	\$1,800	
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur	100	TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 - Incurance	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	- Included other in items					\$350,000
59		Utility Allowance - High	200	RF	\$600	\$120,000	ψοσο,σσο
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,300	RF	\$100	\$230,000	
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	Wise (or Sound) Retaining Wall Allowance		SF	φου		\$500,000
105	0 - Otations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	ψ500,000
108		Station Name	Argonne Statio		\$555,500	+555,556	
109		Operator Crew Room/Concession Building	J	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						\$1,075,000
116		Park & Ride	250	Space	\$4,300	\$1,075,000	
117	0 Ono	Park & Ride Location	Argonne Statio	on			
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track			-		
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support		1.0	***************************************		
141	+	Alignment Lighting (Shared Track Option)  Spare Parts/ System Support (Shared Track Option)		LS	\$600,000		
142 147	10 - Signal S			LS	\$90,000		
147	.u - Gigilal S	Signal (Shared Track Option)		LS	\$16,233,750		
149	<del> </del>	organia (oriai cu Track Option)		LU	ψ10,200,700		
150							
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153				-			
154	1	i contract the contract to the	1		1	1	

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-215 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		350+00	375+00		0.5 mile
	C -215	Sargent Road to Argonne Station				,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					· · · · · ·
156							
157	12 - Fare Coll						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$3,306,30
161							
162	13. Right of V	Vay					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
105		Shared Track Option HazMat Demo & Disposal		LS	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tarks, waste witigation etc.) - Allowance		LO	\$5,000,000		
175	14. Vernicles	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177		2.110 variates apare i arte for to variates			ψ1 00,000		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$1,157,20
180	Infrastructure	E&A 35.00%				\$1,157,205	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$941,26
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$591,260	
191	Utilities	Contingency 100.00%				\$350,000	
192							4007.55
194	17 - Washing	ton State Sales Tax and Real Estate Tax				0007.000	\$237,863
195		Sales Tax 8.40% Sales Tax has been applied to 2/3 of Infrastructure &				\$237,863	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
100		o. a.o vollatio o odilitato a totali.					
						Total	\$5,642,628

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-216 Shared Track

	Spokane	Regional					
		Light Rail Project			Eetims	ite Basics	
		-		01 101			
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		375+00	400+00	2,500 FT	0.5 mile
	C -216	Willow Road to Dartmouth Rd Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const						\$1,364,00
1		Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	
2		Grade Preparation to Top of subballast.	2,500	LF LF	\$35		
3		Curb & Gutter Allowance Common Excavation	2,100 5,500	CY	\$35 \$15	\$73,500 \$82,500	
6		Common Backfill (From Project Excavation)	3,300	CY	\$4	Ψ02,300	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	3,500	TF	\$223	\$780,500	
15		Ballasted Track with Pave-Over Topping		TF	\$285		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout	4	EA	\$75,000		
22		#20 Turnout Impact Attenuators	1	EA EA	\$100,000 \$35,000	\$100,000	
24		Minor Street Closures Allowance		EA EA	\$35,000 \$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000	\$100,000	
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)	1	EA	\$100,000	\$100,000	
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF TF	\$130		
37 39		Remove Industrial Spur Construct New Ballasted Industrial Siding Track		TF	\$50 \$160		
50	2 - Insurance	e - Included other in Items			ψ100		
57	3 - Utilities						\$875,00
59		Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium	2,500	RF	\$350	\$875,000	
61		Utility Allowance - Low		RF	\$100		
70		erials - Included in the Rail Items					
74	5 - Structure:			0)/	****		\$270,000
76 77		Crash Wall (2.5' thick x 12' high)		CY SF	\$300 \$35		
78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance	9,000	SF SF	\$30	\$270,000	
104	6 - Stations	Wide (or dound) Netaining Wall Allowance	9,000	01	ψου	Ψ210,000	
105	o otations	Stations (Shared Track Option)		EA	\$500,000		
108		Station Name			\$555,500		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	0.00	Park & Ride Location					
119	8 - Operation	S Facility (Shared Track Option)					
123		Bldg & Yard Site Prep, Grading & Utilities (Shared Track Option)		10	¢10 163 000		
123		Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S						
148		Signal (Shared Track Option)		LS	\$16,233,750		
149					1		
150 151	11 - Commur	nications					
152	i i - Commun	Communications (Shared Track Option)		LS	\$1,770,000		
153		Communications (Onlinear Track Option)		LU	ψ1,110,000		
			1		1	1	

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-216 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track UP Section		375+00	400+00	2,500 FT	0.5 mile
	C -216	Willow Road to Dartmouth Rd Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159					0.14.4.1		20 500 000
160		Subtotal - Infrastructure			Subtotal		\$2,509,000
161	40 81-14-61	No.					
162	13. Right of	Way │					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$878,150
180	Infrastructure					\$878,150	
181	Vehicle	E&A 5.00%					
182							
183							
184	40 0				0		04 004 000
185	16 - Conting	Contingency 5.00%			Subtotal		\$1,201,800
187 189	Vehicles Infrastructure	ŭ ,				\$326,800	
191	Utilities	Contingency 100.00%				\$875,000	
191	Otilities	Contingency 100.00%				\$675,000	
194	17 - Washing	pton State Sales Tax and Real Estate Tax					\$207,805
195	17 - Washing	Sales Tax 8.40%				\$207,805	Ψ201,000
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.				Ψ201,000	
						Total	\$4,796,755

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-217 Shared Track

	Spokane	Regional					
	1	Light Rail Project			Fetime	ite Basics	
		Order of Magnitude		Ctart Cta			
	Danisina			Start Sta	End Sta	Length	0.5:
	Drawing	Shared Track East Valley Section		400+00	425+00	2,500 FT	0.5 mile
	C -217	Dartmouth Road Area to University Rd	0 111				
	4.05-31.0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Const	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	\$1,665,50
2		Grade Preparation to Top of subballast.	2,500	LF	\$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	ψ07,300	
4		Common Excavation	1,000	CY	\$15	\$15,000	
6		Common Backfill (From Project Excavation)	2,000	CY	\$4	\$8,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500	LF LF	\$22 \$6	\$15,000	
14		Ballasted Track at Grade or Structure	5,000	TF	\$223	\$1,115,000	
15		Ballasted Track at Grade of Structure  Ballasted Track with Pave-Over Topping	3,000	TF	\$285	ψ1,113,000	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	4	EA	\$100,000	£200.000	
26 27		Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes)	1	EA EA	\$200,000 \$100,000	\$200,000	
28		Major Traffic Signal (4 Lanes)	1	EA	\$200,000	\$200,000	
29		Complex Major Intersection Rebuild		EA	\$300,000	Ψ200,000	
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37 39		Remove Industrial Spur		TF TF	\$50		
50	2 - Insurance	Construct New Ballasted Industrial Siding Track		IF	\$160		
57	3 - Utilities	- included other in items					\$875,00
59	• • • • • • • • • • • • • • • • • • • •	Utility Allowance - High		RF	\$600		ψο. σ,σσ
60		Utility Allowance - Medium	2,500	RF	\$350	\$875,000	
61		Utility Allowance - Low		RF	\$100		
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	Wise (or Sound) Retaining Wall Allowance		SF.	φου		\$700,00
105	0 - Otations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	ψ100,00
108		Station Name	University City		<b>\$550,000</b>	4000,000	
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction	1	LS	\$200,000	\$200,000	
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	9 On a madi	Park & Ride Location			-		
119	o - Operation	BIG & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
123	+	Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142 147	10 8:	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S	ystem  Signal (Shared Track Option)		LS	\$16,233,750		
148	+	Olymai (Ollareu Track Option)		LO	φ10,233,750		
150	+				<del> </del>		
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153		. ,					
154							·

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-217 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		400+00	425+00	2,500 FT	0.5 mile
	C -217	Dartmouth Road Area to University Rd					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		·					
156							
157	12 - Fare Coll						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$3,240,50
161							
162	13. Right of V	Vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
105		Shared Track Option HazMat Demo & Disposal		LS	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tariks, waste witigation etc.) - Allowance		LO	ψ3,000,000		
175	14. 401110100	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177					7100,000		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$1,134,17
180	Infrastructure	E&A 35.00%				\$1,134,175	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$1,348,10
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$473,100	
191	Utilities	Contingency 100.00%				\$875,000	
192 194	47 Week!:::::	ton State Sales Tax and Real Estate Tax					\$256,96
194	ir - wasning	Sales Tax and Real Estate Tax  Sales Tax 8.40%				\$256,962	φ <b>∠</b> 50,90.
190		Sales Tax has been applied to 2/3 of Infrastructure &				\$200,902	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
.00		o. a.o vollatio o odilitato a totali.					
						Total	\$5,979,737
	1				1		,5.5,.01

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-218 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	ite Basics	
		Order of Magnitude		Start Sta	End Sta		
	Drowing	Shared Track East Valley Section				Length	0 E mila
	Drawing C -218	-		425+00	450+00	2,500 FT	0.5 mile
	C-216	University Road to Bodish Road Area  Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Cons		Quantity	Offic	Unit Cost	Extension	\$974,350
1	1-01411 00113	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	ψ374,000
2		Grade Preparation to Top of subballast.	2,500	LF	\$35	\$87,500	
3		Curb & Gutter Allowance		LF	\$35		
4		Common Excavation	0.500	CY	\$15	044.000	
9		Common Backfill (From Project Excavation) Chain Link Fencing 4'	3,500	CY LF	\$4 \$16	\$14,000	
10		Chain Link Fencing 4  Chain Link Fencing 6'		LF	\$10		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,950	TF	\$223	\$657,850	
15		Ballasted Track with Pave-Over Topping		TF	\$285		
20 21		#10 Single Crossover #10 Turnout	1	EA EA	\$175,000 \$75,000		
22		#20 Turnout	1	EA	\$100,000	\$75,000	
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000	\$100,000	
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
28 29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF TF	\$130 \$50		
37 39		Remove Industrial Spur  Construct New Ballasted Industrial Siding Track		TF	\$50 \$160		
50	2 - Insurance	e - Included other in Items			ψ100		
57	3 - Utilities						\$250,000
59		Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium	0.500	RF	\$350		
61 70	4 - Track Mar	Utility Allowance - Low terials - Included in the Rail Items	2,500	RF	\$100	\$250,000	
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	Otations (Observed Treeds Outline)		E4	<b>#500.000</b>		
105 108		Stations (Shared Track Option) Station Name		EA	\$500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri	des					
116		Park & Ride		Space	\$4,300		
117 119	0 Operation	Park & Ride Location					
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127 128		Maintenance Equipment (Shared Track Option)  MOW Vehicles (Shared Track Option)	+	LS LS	\$3,373,155 \$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support		LO	\$1,847,460		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S	ystem					
148		Signal (Shared Track Option)		LS	\$16,233,750		
149					-		
150 151	11 - Commu	nications			-		
152	Commu	Communications (Shared Track Option)		LS	\$1,770,000		
153					, ,, , 500		
						-	-

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-218 Shared Track

155 156 157 12 158 159 160 161	Drawing C -218 2 - Fare Coll 3. Right of W	Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure	Quantity	Start Sta 425+00 Unit	Estima End Sta 450+00 Unit Cost \$163,333 Subtotal	Extension	0.5 mile 2001\$
155 156 157 12 158 159 160 161	C -218  2 - Fare Coll  3. Right of V	Shared Track East Valley Section University Road to Bodish Road Area Description  ection Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure	Quantity	425+00 Unit	450+00 Unit Cost \$163,333	2,500 FT  Extension	2001\$
155 156 157 12 158 159 160 161	C -218  2 - Fare Coll  3. Right of V	University Road to Bodish Road Area  Description  ection  Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure	Quantity	Unit	Unit Cost \$163,333	Extension	2001\$
156 157 <b>12</b> 158 159 160 161	C -218  2 - Fare Coll  3. Right of V	University Road to Bodish Road Area  Description  ection  Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure	Quantity		\$163,333		
156 157 <b>12</b> 158 159 160 161	3. Right of V	ection  Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure	Quantity		\$163,333		
156 157 <b>12</b> 158 159 160 161	3. Right of V	Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure		LS			\$1 224 35
157 <b>12</b> 158 159 160 161	3. Right of V	Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure		LS			\$1 224 35
158 159 160 161	3. Right of V	Fare Collection Vending/ Validator & Spares (Shared Track Option)  Subtotal - Infrastructure		LS			\$1 224 35
159 160 161		Option)  Subtotal - Infrastructure		LS			\$1 224 35
159 160 161		Subtotal - Infrastructure		LS			\$1 224 35
160 161					Subtotal		\$1 224 35
161					Subtotal		\$1 224 35
		Vay				<del> </del>	ψ1,227,33
162 1.		vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
100		Shared Track Option HazMat Demo & Disposal		LO	Ψ20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
	4. Vehicles	( · ··································			70,000,000		
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							•
		ring & Administration			Subtotal		\$428,52
	nfrastructure	E & A 35.00%				\$428,523	
	'ehicle	E & A 5.00%					
182							
183							
184 185 <b>16</b>	6 - Continge	na la a			Subtotal		\$444,87
	ehicles	Contingency 5.00%			Subiolai		<del>\$444</del> ,670
	nfrastructure	Contingency 20.00%				\$194,870	
	Itilities	Contingency 100.00%				\$250,000	
192	rundos	Contangency 100.0070				Ψ250,000	
	7 - Washing	ton State Sales Tax and Real Estate Tax					\$93,476
195		Sales Tax 8.40%				\$93,476	,
		Sales Tax has been applied to 2/3 of Infrastructure &					
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$2,191,21
-						IOlai	Ψ∠, 131,∠18

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-219 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	te Basics	
		,		Ot + Ot -	1		
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		450+00	475+00	2,500 FT	0.5 mile
	C -219	Bodish Road to Pines Road (At Grade) Area	-				
	1.01.11.0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Cons		2,500	LF	610	\$25,000	\$770,000
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500		\$10 \$35		
3		Curb & Gutter Allowance	2,300	LF	\$35		
4		Common Excavation	1,000		\$15		
6		Common Backfill (From Project Excavation)	5,000		\$4	\$20,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500	LF LF	\$22 \$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500		\$223		
15		Ballasted Track with Pave-Over Topping	2,300	TF	\$285	ψ557,500	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		<u></u>
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	2	EA	\$25,000	\$50,000	
25 26	-	Minor Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)		EA EA	\$100,000 \$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$200,000		
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36 37		Remove & Relocate Industrial Spur Remove Industrial Spur		TF TF	\$130 \$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance	e - Included other in Items			<b>\$100</b>		
57	3 - Utilities						\$250,000
59		Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium	0.500	RF	\$350		
61 70	4 Trook Mo	Utility Allowance - Low terials - Included in the Rail Items	2,500	RF	\$100	\$250,000	
74	5 - Structure						
76	o - Otractare	Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations						
105		Stations (Shared Track Option)		EA	\$500,000		
108		Station Name		E4	£100.000		
109 110		Operator Crew Room/Concession Building Bus Turn-around and Canopy Reconstruction		EA LS	\$100,000 \$200,000		
115	7 - Park & Ri				Ψ200,000		
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	ns Facility (Shared Track Option)					
4.5.5		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			0.0		
123		Option)  Yard Trackwork (Shared Track Option)		LS	\$10,163,008		
124 125		Yard Trackwork (Shared Track Option)  Yard Ductbank / Conduit (Shared Track Option)		LS LS	\$2,565,708 \$300,000		
126		Operations Facility Building (Shared Track Option)	1	LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)	1	LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40.01.15	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S	•	1	1.0	#40 000 <b>7</b> 50		
148 149	-	Signal (Shared Track Option)		LS	\$16,233,750		
150			1				
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153		, , , ,					
154							

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-219 Shared Track

	Spokane	Regional					
	_	Light Rail Project			Estima	te Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		450+00	475+00	2,500 FT	0.5 mile
	C -219	Bodish Road to Pines Road (At Grade) Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
158		Fare Collection Vending/ Validator & Spares (Shared Track Option)		LS	\$163,333		
159		Ориоп)		LS	\$103,333		
160		Subtotal - Infrastructure			Subtotal		\$1,020,000
161		Oubtotal Illiaditation			Cubiciai		Ψ1,020,000
162	13. Right of V	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility) Shared Track Option HazMat Demo & Disposal		LS	\$28,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178 179	45 Empires	vius a Q. A desciplicaturations			Cultantal		<b>#257.000</b>
180	Infrastructure	ring & Administration E & A 35.00%			Subtotal	\$357,000	\$357,000
181	Vehicle	E&A 5.00%				\$357,000	
182	Vernoie	E 477 0.5076					
183							
184							
185	16 - Continge				Subtotal		\$404,000
187	Vehicles	Contingency 5.00%					
189	Infrastructure					\$154,000	
191	Utilities	Contingency 100.00%				\$250,000	
192	47 14/1	to a Otata Callas Tara and Basil Fatata Tara					670 71
194 195	17 - Washing	ton State Sales Tax and Real Estate Tax Sales Tax 8.40%				\$79,744	\$79,744
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.				\$79,744	
						Total	\$1,860,744

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-220 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetima	ate Basics	
		-		Ot Ot-	1	1	
	<b>.</b> .	Order of Magnitude		Start Sta	End Sta	Length	0 = "
	Drawing	Shared Track East Valley Section		475+00	500+00	2,500 FT	0.5 mile
	C -220	Pines Road (At Grade) to McDonald Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		040	005.000	\$897,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	3,000	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)	0.500	LF	\$22	0.15.000	
12 14		Site Cleanup and Final Grading Allowance	2,500	LF TF	\$6		
15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	2,500	TF	\$223 \$285		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		_
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000		
27 28		Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 Incurance	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	e - included other in items					\$250,00
59	o - Othitics	Utility Allowance - High		RF	\$600		Ψ230,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70		terials - Included in the Rail Items					
74	5 - Structure:						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	Wise (or Sourid) Retaining Wall Allowance		SF.	φ30		\$500,00
105	0 - Otations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	ψ500,00
108		Station Name	Pines Station		\$555,500	\$555,556	
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						\$860,00
116		Park & Ride	200	Space	\$4,300	\$860,000	
117	9 One	Park & Ride Location	Pines Station		-		
119	o - Operation	BIG & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
123	<del> </del>	Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125	<u> </u>	Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40 01	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	¢16 000 750		
148 149	<del> </del>	Signal (Shared Track Option)		LS	\$16,233,750		
150	1				+		
151	11 - Commur	ı nications			<del> </del>		
152		Communications (Shared Track Option)		LS	\$1,770,000		
153					, 2,300		
154							

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-220 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	te Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		475+00	500+00	2,500 FT	0.5 mile
	C -220	Pines Road (At Grade) to McDonald Road Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
158		Fare Collection Vending/ Validator & Spares (Shared Track Option)		LS	\$163,333		
159					7.00,000		
160		Subtotal - Infrastructure			Subtotal		\$2,507,000
161							
162	13. Right of	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
166		Shared Track Option HazMat Demo & Disposal (Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$877,450
180	Infrastructure					\$877,450	
181	Vehicle	E&A 5.00%					
182							
183 184							
185	16 - Conting	oncios			Subtotal		\$701,400
187	Vehicles	Contingency 5.00%			Oubtotal		Ψ/01,400
189	Infrastructure	ů ,				\$451,400	
191	Utilities	Contingency 100.00%				\$250,000	
192		, , , , , , , , , , , , , , , , , , ,				, , , , , , , ,	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$179,670
195		Sales Tax 8.40%				\$179,670	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$4,265,520

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-221 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	te Basics	
				Ctart Cta	1		
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		500+00	525+00	2,500 FT	0.5 mile
	C -221	McDonald Road to Evergreen Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$912,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	. ,	
4		Common Excavation	1,000	CY	\$15		
6		Common Backfill (From Project Excavation)	3,000	CY	\$4	\$12,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	\$557,500	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	2	EA	\$100,000	\$200,000	-
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	0 1	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70	4 - Track Mat	terials - Included in the Rail Items	·				
74	5 - Structure	s					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location					-
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124	1	Option)   Yard Trackwork (Shared Track Option)	+	LS LS	\$10,163,008 \$2,565,708		
124	+	Yard Trackwork (Snared Track Option)  Yard Ductbank / Conduit (Shared Track Option)		LS	\$2,565,708 \$300,000		
126	+	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10.00	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149 150	+						
151	11 - Commui	nications					
152	50	Communications (Shared Track Option)		LS	\$1,770,000		
153		The state of the s	+	3	Ţ.,. ro,000		
154							

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-221 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		500+00	525+00	2,500 FT	0.5 mile
	C -221	McDonald Road to Evergreen Road Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
450		Fare Collection Vending/ Validator & Spares (Shared Track			0.100.000		
158 159		Option)		LS	\$163,333		
160		Subtotal - Infrastructure			Subtotal		\$1,162,000
161		Subtotal - Illirastructure			Subtotal		\$1,162,000
162	13. Right of	Way					
102	10. Right of						
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$406,700
180	Infrastructure					\$406,700	
181	Vehicle	E&A 5.00%					
182							
183 184							
185	16 - Conting	ongice			Subtotal		\$432,400
187	Vehicles	Contingency 5.00%			Subiolai		φ <del>4</del> 32, <del>4</del> 00
189	Infrastructure	ŭ ,				\$182,400	
191	Utilities	Contingency 100.00%				\$250,000	
192	Cuntoo	Containgulary 100.00%				Ψ200,000	
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$89,286
195		Sales Tax 8.40%				\$89,286	
		Sales Tax has been applied to 2/3 of Infrastructure &					
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$2,090,386

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-222 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
		Order of Magnitude		Ot4 Ot-	1	1	
	Danisiaa			Start Sta	End Sta	Length	0.5:1-
	Drawing	Shared Track East Valley Section		525+00	550+00	2,500 FT	0.5 mile
	C -222	Evergreen Road Area to Adams Road Area					
	4.05-31.0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
-1	1-Civil Const		2,500	LF	\$10	\$25,000	\$1,287,90
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500	LF	\$35		
3		Curb & Gutter Allowance	2,300	LF	\$35		
4		Common Excavation	2,000	CY	\$15		
6		Common Backfill (From Project Excavation)	2,000	CY	\$4	\$8,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2.500	LF	\$22		
12 14		Ballasted Track at Grade or Structure	2,500 3,800	LF TF	\$6 \$223		
15		Ballasted Track at Grade of Structure  Ballasted Track with Pave-Over Topping	3,800	TF	\$285		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout	1	EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		_
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26 27		Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000		
28		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 Incurance	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	s-included other in items					\$250,00
59	o ounded	Utility Allowance - High		RF	\$600		Ψ200,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	WSE (or Sourid) Retaining Wall Allowance		3F	φου		\$500,00
105	0 - Otations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	ψ500,00
108		Station Name	Evergreen Sta		<b>\$550,550</b>	4000,000	
109		Operator Crew Room/Concession Building	3	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116	1	Park & Ride		Space	\$4,300		
117	9 On a madi	Park & Ride Location					
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
123	+	Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125	1	Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126	1	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141	1	Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40 0'	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	¢16 000 750		
148 149	+	Signal (Shared Track Option)		LS	\$16,233,750		
150	+						
151	11 - Commu	ı nications					
152	σσιπιαι	Communications (Shared Track Option)		LS	\$1,770,000		
153	1				, 2,300		
154							

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-222 Shared Track

	Spokane	Regional					
	-	Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		525+00	550+00	2,500 FT	0.5 mile
	C -222	Evergreen Road Area to Adams Road Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Co						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159 160		Cultistatal Infrastructure			Cubtatal		¢2 027 000
161		Subtotal - Infrastructure			Subtotal		\$2,037,900
162	13. Right of	May.					
102	13. Right of	way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
100		Shared Track Option HazMat Demo & Disposal		LO	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tarito, Vacce intigation etc.) The warre		20	φο,σσο,σσο		
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177		·					
178							
179		ring & Administration			Subtotal		\$713,265
180	Infrastructure					\$713,265	
181	Vehicle	E&A 5.00%					
182							
183							
184	40. 0 1				0		4007 500
185	16 - Conting	Contingency 5.00%			Subtotal		\$607,580
187 189	Vehicles Infrastructure	ŭ ,				\$357,580	
191	Utilities	Contingency 100.00%				\$250,000	
192	Otilities	Contingency 100.00%				Ψ230,000	
194	17 - Washing	nton State Sales Tax and Real Estate Tax					\$148,147
195		Sales Tax 8.40%				\$148,147	ψ,
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.				***************************************	
						Total	\$3,506,892

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-223 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
		·		Ot Ot-	1	1	
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		550+00	575+00	2,500 FT	0.5 mile
	C -223	Adams Road Area to Sullivan Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$1,478,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	500	CY	\$15		
6		Common Backfill (From Project Excavation)	7,000	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	5,000	TF TF	\$223	. , ,	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	2	EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)		EA EA	\$200,000 \$300,000		
30		Complex Major Intersection Rebuild Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50		e - Included other in Items					2050.00
57 59	3 - Utilities	Litility Allowance Ligh		RF	\$600		\$250,00
60		Utility Allowance - High Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Needam  Utility Allowance - Low	2.500	RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items	_,		7.00	<b>7</b>	
74	5 - Structure	s					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	Otations (Observed Transle Outline)		E4	<b>#</b> 500.000		
105		Stations (Shared Track Option) Station Name		EA	\$500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri				7=22,222		
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 100 555		
123	1	Option) Vord Trackwork (Shared Track Option)		LS	\$10,163,008		
124 125	+	Yard Trackwork (Shared Track Option)  Yard Ductbank / Conduit (Shared Track Option)		LS LS	\$2,565,708 \$300,000		
126	+	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128	1	MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support			, , , , , ,		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	1	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		-
147	10 - Signal S						
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149	1				-		
150 151	11 - Commu	nications					
152	i i - commu	Communications (Shared Track Option)		LS	\$1,770,000		
153	1	Samuel and the Charles Track Option)			ψ1,110,000		
154			_				

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-223 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	te Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		550+00	575+00		0.5 mile
	C -223	Adams Road Area to Sullivan Road Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•	•				-
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,728,00
161							
162	13. Right of V	Nay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	£28 000 000		
100		Shared Track Option HazMat Demo & Disposal		LS	\$28,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tanks, waste mitigation etc.) - Allowance		LO	ψ5,000,000		
175	14. Venicles	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177					<b>\$1.00,000</b>		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$604,80
180	Infrastructure	E&A 35.00%				\$604,800	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$545,600
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$295,600	
191	Utilities	Contingency 100.00%				\$250,000	
192 194	47 \\\- = \ -'	ton State Sales Toy and Basi Fateta Toy					£407.00
194	17 - wasning	ton State Sales Tax and Real Estate Tax Sales Tax 8.40%				\$127,322	\$127,322
195		Sales Tax has been applied to 2/3 of Infrastructure &				\$121,322	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
100		or the vernois a commuted total.					
						Total	\$3,005,722
	+				1	10101	ψ0,000,722

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-224 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetima	te Basics	
		Order of Magnitude		Start Sta	End Sta		
	Danisina					Length	0.5: -
	Drawing	Shared Track East Valley Section		575+00	600+00	2,500 FT	0.5 mile
	C -224	Sullivan Road Area to Cannery Street Area	0	1114	Heit Coot	F. danalan	00046
	4 Civil Cama	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Cons	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	\$1,512,900
2		Grade Preparation to Top of subballast.	2,500	LF	\$35		
3		Curb & Gutter Allowance	2,000	LF	\$35		
4		Common Excavation	1,000	CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF LF	\$22 \$22		
11 12		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance	2,500	LF LF	\$22	\$15,000	
14		Ballasted Track at Grade or Structure	4,800	TF	\$223		
15		Ballasted Track with Pave-Over Topping	1,000	TF	\$285	ψ1,070,100	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout	1	EA	\$100,000	\$100,000	
23		Impact Attenuators		EA	\$35,000		
24 25	-	Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes)		EA EA	\$25,000 \$100,000		
26		Major Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)	1	EA EA	\$100,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000	Ψ200,000	
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35 36		Relocate UPRR Yard Lead or Branch Line Remove & Relocate Industrial Spur		TF TF	\$100 \$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance	- Included other in Items					
57	3 - Utilities						\$250,000
59		Utility Allowance - High		RF	\$600		
60 61		Utility Allowance - Medium Utility Allowance - Low	2,500	RF RF	\$350 \$100		
70	4 - Track Mar	terials - Included in the Rail Items	2,500	KF	\$100	\$250,000	
74	5 - Structure						
76	- Curactars	Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations						\$500,000
105		Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	
108 109		Station Name Operator Crew Room/Concession Building	Sullivan Statio	n EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri				\$200,000		\$1,720,000
116		Park & Ride	400	Space	\$4,300	\$1,720,000	. , .,
117		Park & Ride Location	Sullivan Statio	n .			
119	8 - Operation	ns Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124		Option)  Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
124		Yard Ductbank / Conduit (Shared Track Option)		LS	\$2,565,708		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40 01	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147 148	10 - Signal S	•		LS	\$16 222 7E0		
148		Signal (Shared Track Option)		LO	\$16,233,750		
150							
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153							
154							

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-224 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		575+00	600+00	2,500 FT	0.5 mile
	C -224	Sullivan Road Area to Cannery Street Area				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155			_				
156							
157	12 - Fare Col						
450		Fare Collection Vending/ Validator & Spares (Shared Track			0400.000		
158 159		Option)		LS	\$163,333		
160		Subtotal - Infrastructure			Subtotal		\$3,982,900
161		Subtotal - Imrastructure			Subtotal		\$3,962,90
162	13. Right of \	Nav					
102	10. Right of 1	Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178					0.14.4.1		04.004.04
179 180		ring & Administration			Subtotal	£4 204 04E	\$1,394,01
181	Infrastructure Vehicle	E & A 35.00% E & A 5.00%				\$1,394,015	
182	verlicie	E & A 5.00%					
183							
184							
185	16 - Continge	encies			Subtotal		\$996,580
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$746,580	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$278,85
195		Sales Tax 8.40%				\$278,851	
		Sales Tax has been applied to 2/3 of Infrastructure &					
196		Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
190		of the vehicle's estimated total.					
						Total	\$6,652,346
						Total	ψ0,002,040
	1						

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-225 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetims	ate Basics	
		·		Ot Ot-	1	1	
	<b>.</b>	Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		600+00	625+00	2,500 FT	0.5 mile
	C -225	Cannery Street Area to Steen Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
_	1-Civil Const		0.500		040	005.000	\$794,50
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35		
4		Common Excavation	500	CY	\$15		
6		Common Backfill (From Project Excavation)	500	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223		
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100,000		-
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	0 1	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					¢250.00
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items	,,,,,,,,			, , , , , , ,	
74	5 - Structure	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	¢500,000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location		-			
119	8 - Operation	ns Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track		10	040 400 000		
123 124	1	Option)   Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$2,565,708		
126	+	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127	1	Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S				610.000		
148	1	Signal (Shared Track Option)		LS	\$16,233,750		
149 150	+						
150	11 - Commu	nications					
152	i i - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153					\$ .,. 10,000		
154					1		

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-225 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		600+00	625+00		0.5 mile
	C -225	Cannery Street Area to Steen Road Area				, , , , , ,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•	•				-
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,044,50
161							
162	13. Right of \	Vay					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$365,57
180	Infrastructure	E & A 35.00%				\$365,575	
181	Vehicle	E & A 5.00%					
182							
183							
184	10 0 0				0.14.4.1		2400.00
185	16 - Continge				Subtotal		\$408,90
187	Vehicles	Contingency 5.00%				0450.000	
189	Infrastructure	Contingency 20.00%				\$158,900	
191 192	Utilities	Contingency 100.00%				\$250,000	
194	17 Washing	ton State Sales Tax and Real Estate Tax					\$81.390
194	ir - wasning	Sales Tax and Real Estate Tax				\$81,390	φοι,390
195		Sales Tax has been applied to 2/3 of Infrastructure &				\$61,390	
196		Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$1,900,36
	1				1	i Ulai	ψ1,500,300

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-226 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetims	te Basics	
				Ctart Cta	1		
		Order of Magnitude		Start Sta	End Sta	Length	0.5
	Drawing	Shared Track East Valley Section		625+00	650+00	2,500 FT	0.5 mile
	C -226	Steen Road Area to Sprague Ave Crossing					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		0.10	205.000	\$917,50
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	. ,	
4		Common Excavation	500	CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4	71,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	\$557,500	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance	1	EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	2	EA	\$100,000	\$200,000	
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$300,000		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					#250.00
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70	4 - Track Mat	terials - Included in the Rail Items					
74	5 - Structure	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location					
119	8 - Operation	ns Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124		Option)   Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10.00	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150							
150	11 - Commu	nications			+		
152	i i - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153					\$ 1,1 1 0,000		
154							

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-226 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		625+00	650+00	2,500 FT	0.5 mile
	C -226	Steen Road Area to Sprague Ave Crossing				·	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		·	-				-
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,167,50
161							
162	13. Right of V	Vay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	£28 000 000		
100		Shared Track Option HazMat Demo & Disposal		LS	\$28,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tarks, waste witigation etc.) - Allowance		LO	ψ5,000,000		
175	14. Venicies	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177					<b>\$1.00,000</b>		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$408,62
180	Infrastructure	E&A 35.00%				\$408,625	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$433,500
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$183,500	
191	Utilities	Contingency 100.00%				\$250,000	
192	47 Mask':::::	ton State Salas Tay and Basi Fateta Tay		1			<b>#00.05</b>
194 195	17 - wasning	ton State Sales Tax and Real Estate Tax Sales Tax 8.40%				\$89,656	\$89,656
195		Sales Tax has been applied to 2/3 of Infrastructure &				\$89,056	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
100	+	or the vernois o estimated total.		<del> </del>			
				1		Total	\$2,099,28
	1			1	1	10101	ΨΣ,000,20

#### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-227 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetims	te Basics	
		-		Ctart Cta	1		
		Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		650+00	675+00	2,500 FT	0.5 mile
	C -227	Sprague Ave Crossing to Greenacres Road					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		040	005.000	\$966,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	\$67,500	
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	1,500	CY	\$4	\$6,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	\$557,500	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)	1	EA	\$200,000	\$200,000	
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications	1	EA	\$75,000	\$75,000	
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100	. ,	
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	<b>_</b>	Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70	4 - Track Mat	terials - Included in the Rail Items					
74	5 - Structure	s					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78	2 21 11	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	1	Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124		Option)   Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10.0:	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150							
150	11 - Commu	nications	1		+		
152	501111101	Communications (Shared Track Option)		LS	\$1,770,000		
153		Tanana (oración ridor option)	1	1	\$ 1,1 1 0,000		
154					1		

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-227 Shared Track

		Regional					
		Light Rail Project			Estima	te Basics	
-		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		650+00	675+00	2,500 FT	0.5 mile
	C -227	Sprague Ave Crossing to Greenacres Road				,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155			•				
156							
157	12 - Fare Co						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,216,000
161							
162	13. Right of	Way					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
166		Shared Track Option HazMat Demo & Disposal (Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$425,600
180	Infrastructure					\$425,600	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Conting				Subtotal		\$443,200
187	Vehicles	Contingency 5.00%					
189	Infrastructure					\$193,200	
191	Utilities	Contingency 100.00%				\$250,000	
192							200.045
194	17 - Washing	gton State Sales Tax and Real Estate Tax				000.045	\$92,915
195		Sales Tax 8.40% Sales Tax has been applied to 2/3 of Infrastructure &				\$92,915	
196		Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$2,177,715

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-228 Shared Track

	Spokane	Regional					
		Light Rail Project			Fetims	te Basics	
		·		Ctart Cta	1		
		Order of Magnitude		Start Sta	End Sta	Length	0.5 "
	Drawing	Shared Track East Valley Section		675+00	700+00	2,500 FT	0.5 mile
	C -228	Greenacres Road to Barker Road Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		210	205.000	\$1,066,00
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500 2,500	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,500	LF	\$35	\$87,500	
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	1,500	CY	\$4	\$6,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF TF	\$223	\$557,500	
15 20		Ballasted Track with Pave-Over Topping #10 Single Crossover		EA	\$285 \$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	2	EA	\$100,000	\$200,000	
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27		Minor Traffic Signal (2 Lanes)	1	EA	\$100,000	\$100,000	
28 29		Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild		EA EA	\$200,000 \$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications	1	EA	\$75,000	\$75,000	
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39		Construct New Ballasted Industrial Siding Track		TF	\$160		
50	2 - Insurance 3 - Utilities	e - Included other in Items					<b>#250.00</b>
57 59	3 - Utilities	Utility Allowance - High		RF	\$600		\$250,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70	4 - Track Mat	terials - Included in the Rail Items					
74	5 - Structure	S					
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78		MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104 105	6 - Stations	Stations (Shared Track Option)		EA	©E00.000		
105		Station Name		EA	\$500,000		
100		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	ns Facility (Shared Track Option)					
400		Bldg & Yard Site Prep, Grading & Utilities (Shared Track			040 400 000		
123 124	+	Option)   Yard Trackwork (Shared Track Option)	+	LS LS	\$10,163,008 \$2,565,708		
125	+	Yard Ductbank / Conduit (Shared Track Option)		LS	\$2,565,708		
126	+	Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction I	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	10.00	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S			10	040 000 5-1		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150							
150	11 - Commu	nications			1		
152	i i - Sommu	Communications (Shared Track Option)		LS	\$1,770,000		
153				1	\$ 1,1 1 0,000		
154							

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-228 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track East Valley Section		675+00	700+00		0.5 mile
	C -228	Greenacres Road to Barker Road Area				_,	
	0 ==0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					· · · · · · · · · · · · · · · · · · ·
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,316,00
161							
162	13. Right of V	Nay					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$460,60
180	Infrastructure	E & A 35.00%				\$460,600	
181	Vehicle	E & A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$463,20
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$213,200	
191	Utilities	Contingency 100.00%				\$250,000	
192	47 Meet '	ton State Calca Tay and Basi Fateta Tay		-			<b>#00.00</b>
194 195	17 - wasning	ton State Sales Tax and Real Estate Tax		-		#00 COF	\$99,63
195	1	Sales Tax 8.40%				\$99,635	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$2,339,43

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-229 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fetima	te Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drowing	Shared Track Liberty Lake Section		700+00	725+00	2,500 FT	0 E mile
	Drawing			700+00	725+00	2,500 F1	0.5 mile
	C -229	Barker Road Area to Appleway Station Area	0	1114	Heit Coot	Fortemaion	20046
	1-Civil Const	Description	Quantity	Unit	Unit Cost	Extension	<b>2001\$</b> \$696,50
1	1-CIVII COIISI	Site Preparation - Clearing & Grubbing	2,500	LF	\$10	\$25,000	\$696,50
2		Grade Preparation to Top of subballast.	2,500	LF	\$35		
3		Curb & Gutter Allowance	2,000	LF	\$35	. ,	
4		Common Excavation	500	CY	\$15	\$7,500	
6		Common Backfill (From Project Excavation)	1,000	CY	\$4	\$4,000	
9		Chain Link Fencing 4'		LF	\$16		
10 11		Chain Link Fencing 6' Ballast Walls (Curb-no drainage)		LF LF	\$22 \$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6	\$15,000	
14		Ballasted Track at Grade or Structure	2,500	TF	\$223		
15		Ballasted Track with Pave-Over Topping	2,000	TF	\$285	φοστ,σσσ	
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23	1	Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25 26		Minor Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)		EA EA	\$100,000 \$200,000		
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37 39		Remove Industrial Spur Construct New Ballasted Industrial Siding Track		TF TF	\$50 \$160		
50	2 - Insurance	e - Included other in Items		IF	\$100		
57	3 - Utilities	- included other in tems					\$250,00
59		Utility Allowance - High		RF	\$600		+=,
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70		terials - Included in the Rail Items					
74	5 - Structure			0)/	****		
76 77		Crash Wall (2.5' thick x 12' high)		CY SF	\$300 \$35		
78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF	\$30		
104	6 - Stations	Wor (or sound) Retaining Wall Allowance		- 31	ψ30		
105	o otationo	Stations (Shared Track Option)		EA	\$500,000		
108		Station Name			, , , , , , , , , , , , , , , , , , , ,		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116	+	Park & Ride		Space	\$4,300		
117	9 Onorotion	Park & Ride Location					
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124	1	Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128	<b>_</b>	MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support		10	#000 000		
141 142	-	Alignment Lighting (Shared Track Option)  Spare Parts/ System Support (Shared Track Option)		LS	\$600,000		
142	10 - Signal S			LS	\$90,000		
148	10 - Olyllai S	Signal (Shared Track Option)		LS	\$16,233,750		
149	1	Signal (Sharod Track Option)		-10	ψ10,200,700		
150	1						
151	11 - Commu	nications					
152		Communications (Shared Track Option)		LS	\$1,770,000		
153							
154	1						

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-229 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section		700+00	725+00		0.5 mile
	C -229	Barker Road Area to Appleway Station Area				,,,,,,,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•	,				
156							
157	12 - Fare Col						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$946,50
161							
162	13. Right of \	Nay					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles						
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179		ring & Administration			Subtotal		\$331,27
180	Infrastructure	E & A 35.00%				\$331,275	
181	Vehicle	E & A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$389,30
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$139,300	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$74,80
195		Sales Tax 8.40%				\$74,805	
196		Sales Tax has been applied to 2/3 of Infrastructure & Contingency (Reduced to eliminate tax on Labor) and 100% of the vehicle's estimated total.					
						Total	\$1,741,88
							. , .,.

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-230 Shared Track

	Spokane	Regional					
	оронино	Light Rail Project			Eetims	ate Basics	
		•		Ct4 Ct-		1	
		Order of Magnitude		Start Sta	End Sta	Length	0 = "
		Shared Track Liberty Lake Section		725+00	750+00	2,500 FT	0.5 mile
	C -230	Appleway Station Area to Country Vista Road					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.500		0.10	205.000	\$836,500
1		Site Preparation - Clearing & Grubbing	2,500	LF	\$10		
3		Grade Preparation to Top of subballast.  Curb & Gutter Allowance	2,500	LF LF	\$35 \$35	. ,	
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	500	CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	2,250	LF	\$22	\$49,500	
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12		Site Cleanup and Final Grading Allowance	2,500	LF	\$6		
14		Ballasted Track at Grade or Structure	2,500	TF	\$223		
15		Ballasted Track with Pave-Over Topping		TF	\$285		
20		#10 Single Crossover		EA	\$175,000		
21 22		#10 Turnout #20 Turnout		EA EA	\$75,000 \$100,000		
23		Impact Attenuators	+	EA EA	\$100,000 \$35,000		
24		Minor Street Closures Allowance	+	EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)	1	EA	\$100.000		
26		Major Intersection Rebuild (4 Lanes)	<u> </u>	EA	\$200,000	,	
27		Minor Traffic Signal (2 Lanes)		EA	\$100,000		
28		Major Traffic Signal (4 Lanes)		EA	\$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF TF	\$130		
37 39		Remove Industrial Spur Construct New Ballasted Industrial Siding Track		TF	\$50 \$160		
	2 - Insurance	- Included other in Items		IF	\$100		
	3 - Utilities	- meraded other in items					\$250,000
59	0 01	Utility Allowance - High		RF	\$600		Ψ200,000
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
		erials - Included in the Rail Items					
	5 - Structure:						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78 104	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		<b>#</b> F00.00
104	o - Stations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	\$500,00
108		Stations (Shared Track Option) Station Name	Appleway Sta		φ500,000	ψουυ,υυυ	
109		Operator Crew Room/Concession Building	, uppicway Sta	EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						\$4,300,00
116		Park & Ride	1,000	Space	\$4,300	\$4,300,000	
117		Park & Ride Location	Appleway Sta				
119	8 - Operation	s Facility (Shared Track Option)					
		Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)  Operations Facility Building (Shared Track Option)	+	LS	\$300,000 \$5,343,000		
126 127		Maintenance Equipment (Shared Track Option)	+	LS LS	\$5,343,000		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
	9 - Traction F	Power System -Lighting and System Support			ψ1,041,400		
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142		Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
	10 - Signal S				, , , , , , ,		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149							
150	-						-
	11 - Commur						
152		Communications (Shared Track Option)		LS	\$1,770,000		
153 154			1				
		i e	i i	ı	Í.	1	

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-230 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section		725+00	750+00		0.5 mile
		Appleway Station Area to Country Vista Road A	rea			,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					
156							
157	12 - Fare Coll						
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$5,886,50
161							
162	13. Right of V	Vay					
		Observed Translations DEA Bioleta (IMary Associations Bookers)					
405		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		1.0	#20 000 000		
165		Shared Track Option HazMat Demo & Disposal		LS	\$28,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Taliks, waste Mitigation etc.) - Allowance		LO	\$5,000,000		
175	14. Verticles	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles (Assume New)  DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177		Sine verillore opare i alte for le verillore		LA	ψ100,000		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$2,060,27
180	Infrastructure	E&A 35.00%				\$2,060,275	<del>+=,,=</del> :
181	Vehicle	E & A 5.00%				7=,000,=00	
182							
183							
184							
185	16 - Continge	encies			Subtotal		\$1,377,30
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$1,127,300	
191	Utilities	Contingency 100.00%				\$250,000	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$406,773
195		Sales Tax 8.40%				\$406,773	
		Sales Tax has been applied to 2/3 of Infrastructure &					
400		Contingency (Reduced to eliminate tax on Labor) and 100%					
196	1	of the vehicle's estimated total.					
	1					Total	en 700 044
						Total	\$9,730,848

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-231 Shared Track

	Spokane	Regional					
	1	Light Rail Project			Fetime	ate Basics	
		Order of Magnitude		Ctart Cta	1	1	
	Danisina			Start Sta	End Sta	Length	0.5:
	Drawing	Shared Track Liberty Lake Section		750+00	775+00	2,500 FT	0.5 mile
	C -231	Country Vista Road - Next to Interstate 90					
	4.05-31.0	Description	Quantity	Unit	Unit Cost	Extension	2001\$
1	1-Civil Const		2,500	LF	610	\$25,000	\$1,004,25
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,500	LF	\$10 \$35		
3		Curb & Gutter Allowance	2,300	LF	\$35		
4		Common Excavation	2,000	CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'	1,000	LF	\$22		
11		Ballast Walls (Curb-no drainage)	2.500	LF	\$22		
12 14		Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure	2,500 3,250	LF TF	\$6 \$223		
15		Ballasted Track at Grade of Structure  Ballasted Track with Pave-Over Topping	3,250	TF	\$285		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout	1	EA	\$100,000	\$100,000	
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27 28		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39 50	2 - Incurance	Construct New Ballasted Industrial Siding Track		TF	\$160		
57	3 - Utilities	- included other in items					\$250,00
59	• • • • • • • • • • • • • • • • • • • •	Utility Allowance - High		RF	\$600		Ψ200,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,500	RF	\$100	\$250,000	
70		terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77 78		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF SF	\$35 \$30		
104	6 - Stations	WSE (or Sound) Retaining Wall Allowance		3F	φου		
105	0 - Otations	Stations (Shared Track Option)		EA	\$500,000		
108		Station Name			φοσο,σσσ		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri						
116		Park & Ride		Space	\$4,300		
117	9 On a madi	Park & Ride Location	1				
119	o - Operation	ns Facility (Shared Track Option) Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
123		Option)		LS	\$10,163,008		
123	+	Yard Trackwork (Shared Track Option)	+	LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)	1	LS	\$600,000		
142 147	10 8:	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S	ystem   Signal (Shared Track Option)	-	LS	\$16,233,750		
148	+	Olginal (Ollated Track Option)		LO	φ10,233,750		
150							
151	11 - Commu	nications	1				
152		Communications (Shared Track Option)		LS	\$1,770,000		
153							
154							

# INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-231 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ate Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section		750+00	775+00		0.5 mile
	C -231	Country Vista Road - Next to Interstate 90				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		F 1 2 2					
156							
157	12 - Fare Col	lection					
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$1,254,25
161							
162	13. Right of V	Nay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
		Shared Track Option HazMat Demo & Disposal					
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	,					
175		DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177							
178							
179	15 - Enginee	ring & Administration			Subtotal		\$438,98
180	Infrastructure	E & A 35.00%				\$438,988	
181	Vehicle	E&A 5.00%					
182							
183							
184							
185	16 - Continge				Subtotal		\$450,850
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$200,850	
191 192	Utilities	Contingency 100.00%				\$250,000	
192	47 Week!::::	ton State Sales Tax and Real Estate Tax					POE 404
194	17 - wasning	Sales Tax 8.40%		1		\$95,486	\$95,486
190		Sales Tax has been applied to 2/3 of Infrastructure &				φ90,48b	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
190		of the verifice 3 estimated total.					
	+			1		Total	\$2,239,573
						1000	ΨΣ,200,07

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-232 Shared Track

Dra' C -  1-Civil 1 2 3 4 6 9 10 11 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai	rawing :-232 vil Const	Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	Start Sta 775+00  Unit  LF LF CY CY LF LF TF TF EA	Estima End Sta  800+00  Unit Cost  \$10 \$35 \$35 \$35 \$15 \$4 \$16 \$22 \$22 \$26 \$23 \$285 \$175,000 \$710,000 \$35,000 \$25,000 \$100,000 \$200,000 \$100,000 \$200,000 \$300,000 \$9	\$87,500 \$7,500 \$4,000 \$15,000 \$1,115,000	0.5 mile 2001\$ \$1,254,000
C -	-232	Order of Magnitude Shared Track Liberty Lake Section Liberty Lake Area - Next to Interstate 90 Description  ruction Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (4 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	Unit  LF LF CY CY LF LF LF EA	End Sta  800+00  Unit Cost  \$10 \$35 \$35 \$35 \$15 \$44 \$16 \$22 \$22 \$22 \$66 \$223 \$285 \$175,000 \$75,000 \$100,000 \$200,000 \$100,000 \$200,000 \$300,000 \$300,000	Extension  \$25,000 FT  \$25,000 \$87,500 \$7,500 \$4,000 \$11,115,000	2001\$
C -	-232	Shared Track Liberty Lake Section  Liberty Lake Area - Next to Interstate 90  Description  ruction  Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.  Curb & Gutter Allowance  Common Excavation  Common Backfill (From Project Excavation)  Chain Link Fencing 4'  Chain Link Fencing 6' Ballast Walls (Curb-no drainage)  Site Cleanup and Final Grading Allowance  Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping  #10 Single Crossover  #10 Turnout  #20 Turnout  Impact Attenuators  Minor Street Closures Allowance  Minor Intersection Rebuild (2 Lanes)  Major Intersection Rebuild (4 Lanes)  Minor Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild  Roadway Construction  Sidewalk Construction  Off Alignment Signal Modifications  Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	Unit  LF LF CY CY LF LF LF EA	800+00  Unit Cost  \$10 \$35 \$35 \$35 \$15 \$4 \$16 \$222 \$22 \$66 \$223 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$300,000 \$300,000	2,500 FT  Extension  \$25,000 \$87,500 \$7,500 \$4,000  \$1,115,000	2001\$
C -	-232	Liberty Lake Area - Next to Interstate 90  Description  ruction  Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.  Curb & Gutter Allowance Common Excavation  Common Backfill (From Project Excavation)  Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage)  Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (4 Lanes)  Major Traffic Signal (4 Lanes)  Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	Unit  LF  LF  CY  CY  LF  LF  LF  EA  EA  EA  EA  EA  EA  EA  EA  EA  E	\$10 \$35 \$35 \$15 \$4 \$16 \$22 \$22 \$22 \$6 \$5,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$25,000 \$87,500 \$7,500 \$4,000 \$1,115,000	2001\$
1-Civil 1 2 3 4 6 9 10 11 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2-Ins 57 3-Util 59 60 61 70 4-Tra 74 5-Str 76 77 78 104 105 108 109 110 115 7-Pai 116 117 119 8-Op		Description  ruction  Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (4 Lanes) Minor Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Grif Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	LF LF CY CY LF LF LF TF TF EA EA EA EA EA EA EA SF	\$10 \$35 \$35 \$15 \$4 \$16 \$22 \$22 \$23 \$285 \$175,000 \$100,000 \$35,000 \$100,000 \$200,000 \$100,000	\$25,000 \$87,500 \$7,500 \$4,000 \$1,115,000	
1 2 3 4 6 6 9 9 10 111 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op	vil Const	ruction  Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (4 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 2,500 500 1,000	LF LF CY CY LF LF LF TF TF EA EA EA EA EA EA EA SF	\$10 \$35 \$35 \$15 \$4 \$16 \$22 \$22 \$23 \$285 \$175,000 \$100,000 \$35,000 \$100,000 \$200,000 \$100,000	\$25,000 \$87,500 \$7,500 \$4,000 \$1,115,000	
1 2 3 4 6 6 9 9 10 111 112 114 115 20 21 122 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op	VII Const	Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 500 1,000 2,500	LF LF CY CY LF LF LF EA EA EA EA EA EA EA SF	\$35 \$35 \$15 \$44 \$16 \$22 \$22 \$23 \$23 \$25 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$100,000	\$87,500 \$7,500 \$4,000 \$15,000 \$1,115,000	\$1,254,00
2 3 4 6 6 9 10 10 11 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Grade Preparation to Top of subballast. Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500 500 1,000 2,500	LF LF CY CY LF LF LF EA EA EA EA EA EA EA SF	\$35 \$35 \$15 \$44 \$16 \$22 \$22 \$23 \$23 \$25 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$100,000	\$87,500 \$7,500 \$4,000 \$15,000 \$1,115,000	
3 4 6 9 10 111 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Curb & Gutter Allowance Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Major Intersection Rebuild (4 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	500 1,000 2,500	LF CY CY LF LF LF EA EA EA EA EA EA EA SF	\$35 \$15 \$4 \$16 \$22 \$22 \$6 \$23 \$285 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$300,000	\$7,500 \$4,000 \$15,000 \$1,115,000	
4 6 9 10 11 11 12 14 15 20 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Common Excavation Common Backfill (From Project Excavation) Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (4 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500	CY CY LF LF LF TF EA EA EA EA EA EA EA SF	\$15 \$4 \$16 \$22 \$22 \$6 \$223 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$4,000 \$15,000 \$1,115,000	
9 10 11 11 12 14 15 20 21 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Chain Link Fencing 4' Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	2,500	LF LF LF TF TF EA EA EA EA EA EA EA SF	\$16 \$22 \$22 \$22 \$23 \$285 \$175,000 \$100,000 \$35,000 \$100,000 \$200,000 \$100,000 \$200,000 \$300,000	\$4,000 \$15,000 \$1,115,000	
10 11 12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Chain Link Fencing 6' Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Mijor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		LF LF LF TF TF EA EA EA EA EA EA EA EA SF	\$22 \$22 \$23 \$223 \$285 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$1,115,000	
11		Ballast Walls (Curb-no drainage) Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		LF LF TF EA EA EA EA EA EA EA EA SF	\$22 \$6 \$223 \$285 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$1,115,000	
12 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 110 115 7 - Pai 116 117 119 8 - Op		Site Cleanup and Final Grading Allowance Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		LF TF TF EA EA EA EA EA EA EA EA SF	\$6 \$223 \$285 \$175,000 \$75,000 \$100,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$1,115,000	
14 15 20 21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Ballasted Track at Grade or Structure Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		TF TF EA EA EA EA EA EA EA EA EA SF	\$223 \$285 \$175,000 \$75,000 \$100,000 \$35,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000	\$1,115,000	
15		Ballasted Track with Pave-Over Topping #10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line	3,000	TF EA SF	\$285 \$175,000 \$75,000 \$100,000 \$35,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000		
20 21 22 23 24 25 26 27 28 29 30 31 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		#10 Single Crossover #10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA E	\$175,000 \$75,000 \$100,000 \$35,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000 \$9		
21 22 23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		#10 Turnout #20 Turnout Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA E	\$75,000 \$100,000 \$35,000 \$25,000 \$100,000 \$200,000 \$200,000 \$300,000 \$9		
23 24 25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Impact Attenuators Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA EA EA EA EA EA SF	\$35,000 \$25,000 \$100,000 \$200,000 \$100,000 \$200,000 \$300,000		
24 25 26 27 28 29 30 31 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Minor Street Closures Allowance Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA EA EA EA EA	\$25,000 \$100,000 \$200,000 \$100,000 \$200,000 \$300,000		
25 26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 17 - Pai 116 117 119 8 - Op		Minor Intersection Rebuild (2 Lanes) Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA EA EA SF	\$100,000 \$200,000 \$100,000 \$200,000 \$300,000		
26 27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Major Intersection Rebuild (4 Lanes) Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA EA EA SF	\$200,000 \$100,000 \$200,000 \$300,000		
27 28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Minor Traffic Signal (2 Lanes) Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA EA SF	\$100,000 \$200,000 \$300,000 \$9		
28 29 30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Major Traffic Signal (4 Lanes) Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA EA SF	\$200,000 \$300,000 \$9		
29 30 31 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Complex Major Intersection Rebuild Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		EA SF	\$300,000 \$9		
30 31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 105 108 109 110 115 7 - Pai 116 117 119 8 - Op		Roadway Construction Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line		SF	\$9		
31 32 35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 116 117 119 8 - Op		Sidewalk Construction Off Alignment Signal Modifications Relocate UPRR Yard Lead or Branch Line					
35 36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 117 119 8 - Op		Relocate UPRR Yard Lead or Branch Line			\$6		
36 37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op				EA	\$75,000		
37 39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 109 110 115 7 - Pai 116 117 119 8 - Op				TF	\$100		
39 50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 117 119 8 - Op		Remove & Relocate Industrial Spur		TF	\$130		
50 2 - Ins 57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 117 119 8 - Op		Remove Industrial Spur		TF	\$50		
57 3 - Util 59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 110 115 7 - Pai 117 119 8 - Op	neuranco	Construct New Ballasted Industrial Siding Track - Included other in Items		TF	\$160		
59 60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 109 110 115 7 - Pai 116 117 119 8 - Op		- included other in items					\$250,00
60 61 70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 109 110 115 7 - Pai 116 117 119 8 - Op		Utility Allowance - High		RF	\$600		<b></b>
70 4 - Tra 74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 117 119 8 - Op		Utility Allowance - Medium		RF	\$350		
74 5 - Str 76 77 78 104 6 - Sta 105 108 109 110 115 7 - Par 116 117 119 8 - Op		Utility Allowance - Low	2,500	RF	\$100	\$250,000	-
76 77 78 104 6 - Sta 105 108 109 110 115 7 - Par 116 117 119 8 - Op		erials - Included in the Rail Items					
77 78 104 6 - Sta 105 108 109 110 115 7 - Pai 116 117 119 8 - Op	tructure						
78 104 <b>6 - Sta</b> 105 108 109 110 115 <b>7 - Pai</b> 116 117 119 <b>8 - Op</b>		Crash Wall (2.5' thick x 12' high)		CY SF	\$300 \$35		
104 6 - Sta 105 108 109 110 115 7 - Par 116 117 119 8 - Op		Retaining Wall to 5' MSE (or Sound) Retaining Wall Allowance		SF	\$30		
105 108 109 110 115 <b>7 - Par</b> 116 117 119 <b>8 - Op</b>	tations	Wor (or Sound) Retaining Wall Allowance		- 31	φου		
108 109 110 115 <b>7 - Par</b> 116 117 119 <b>8 - Op</b>	tutiono	Stations (Shared Track Option)		EA	\$500,000		
110 115 <b>7 - Pai</b> 116 117 119 <b>8 - Op</b>		Station Name			, ,		
115 <b>7 - Pai</b> 116 117 119 <b>8 - Op</b>		Operator Crew Room/Concession Building		EA	\$100,000		
116 117 119 <b>8 - Op</b>	-	Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
117 119 <b>8 - Op</b>	ark & Ri						
119 <b>8 - Op</b>		Park & Ride		Space	\$4,300		
	)noration	Park & Ride Location s Facility (Shared Track Option)					
123	perauor	Bldg & Yard Site Prep, Grading & Utilities (Shared Track					
		Option)		LS	\$10,163,008		
124		Yard Trackwork (Shared Track Option)		LS	\$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
		Power System -Lighting and System Support		10	#000 000		
141 142	raction F	Alignment Lighting (Shared Track Option)  Spare Parts/ System Support (Shared Track Option)		LS	\$600,000		
	raction F			LS	\$90,000		
147 10 - 31		Signal (Shared Track Option)		LS	\$16,233,750		
149	raction F	Tage (Trial of Trade option)			Ç.3,200,700		
150							
		*					
152		nications		LS	\$1,770,000		-
153 154	Signal S	Communications (Shared Track Option)					

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-232 Shared Track

	Spokane	Regional					
	_	Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section		775+00	800+00	2,500 FT	0.5 mile
	C -232	Liberty Lake Area - Next to Interstate 90				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		•					
156							
157	12 - Fare Col						
158		Fare Collection Vending/ Validator & Spares (Shared Track Option)		LS	\$163,333		
159		Option)		20	ψ100,000		
160		Subtotal - Infrastructure			Subtotal		\$1,504,000
161							<b>V</b> 1,000 1,000
162	13. Right of	Way					
		Ohana d Tarak Online DEA Diabh of Was Association Budget					
165		Shared Track Option DEA Right of Way Acquisition Budget Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
400		Shared Track Option HazMat Demo & Disposal		LS	<b>65 000 000</b>		
166 174	14. Vehicles	(Tanks,Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Venicies	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles (Assume New)  DMU Vehicles Spare Parts for 15 Vehicles		EA	\$3,500,000		
177		Dividivernicles Spare Faits for 15 verticles		EA	\$700,000		
178							
179	15 - Enginee	ring & Administration			Subtotal		\$526,400
180	Infrastructure				oubtota.	\$526,400	ψ020, 100
181	Vehicle	E & A 5.00%				<b>V</b>	
182							
183							
184							
185	16 - Conting				Subtotal		\$500,800
187	Vehicles	Contingency 5.00%					
189	Infrastructure					\$250,800	
191	Utilities	Contingency 100.00%				\$250,000	
192	4= 10/ 11						<b>*</b> 440.000
194 195	17 - Washing	gton State Sales Tax and Real Estate Tax				0440.000	\$112,269
195		Sales Tax 8.40% Sales Tax has been applied to 2/3 of Infrastructure &				\$112,269	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	PO 642 400
						Total	\$2,643,469

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-233 Shared Track

	Spokane	Regional					
		Light Rail Project			Eetims	ate Basics	
		·		011-01-	1	1	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section	<u> </u>	800+00	828+28	2,828 FT	0.5 mile
	C -233	Liberty Lake Road Area to Signal Road/ Liberty					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const		0.000		040	#00.000	\$2,160,51
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.	2,828 2,828	LF LF	\$10 \$35		
3		Curb & Gutter Allowance	2,020	LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)	2,500	CY	\$4	\$10,000	
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)	0.000	LF	\$22		
12 14		Site Cleanup and Final Grading Allowance	2,828	LF TF	\$6		
15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping	5,656	TF	\$223 \$285		
20		#10 Single Crossover	1		\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators	2	EA	\$35,000	\$70,000	
24		Minor Street Closures Allowance	4		\$25,000		
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)	1		\$200,000		
27 28		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)	1	EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild	1	EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	0 Inc	Construct New Ballasted Industrial Siding Track		TF	\$160		
50 57	3 - Utilities	e - Included other in Items					\$282,80
59	3 - Othities	Utility Allowance - High		RF	\$600		\$202,00
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low	2,828	RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78 104	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		¢600.00
105	6 - Stations	Stations (Shared Track Option)	1	EA	\$500,000	\$500,000	\$600,00
108		Station Name	Liberty Lake S		ψ300,000	ψ500,000	
109		Operator Crew Room/Concession Building	1	EA	\$100,000	\$100,000	
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri	des					\$860,00
116		Park & Ride	200		\$4,300	\$860,000	
117		Park & Ride Location	Liberty Lake S	Station			
119	8 - Operation	s Facility (Shared Track Option)	1				
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track Option)		10	£40,400,000		
123 124		Yard Trackwork (Shared Track Option)		LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)		LS	\$300,000		
126		Operations Facility Building (Shared Track Option)		LS	\$5,343,000		
127		Maintenance Equipment (Shared Track Option)		LS	\$3,373,155		
128		MOW Vehicles (Shared Track Option)		LS	\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40.01.15	Spare Parts/ System Support (Shared Track Option)	1	LS	\$90,000		
147	10 - Signal S			10	040 000 750		
148		Signal (Shared Track Option)		LS	\$16,233,750		
149 150							
151	11 - Commu	nications					
152	σσιπιαι	Communications (Shared Track Option)		LS	\$1,770,000		
153					, 2,300		
154							

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-233 Shared Track

	Spokane	Regional					
	_	Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track Liberty Lake Section		800+00	828+28	2,828 FT	0.5 mile
	C -233	Liberty Lake Road Area to Signal Road/ Liberty	Lake Static	on		,	
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155							
156							
157	12 - Fare Col						
158		Fare Collection Vending/ Validator & Spares (Shared Track		LS	\$163,333		
159		Option)		LS	\$103,333		
160		Subtotal - Infrastructure			Subtotal		\$3,903,316
161		Subtotal - Illifastructure			Subtotal		\$3,903,310
162	13. Right of	Nav					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
400		Shared Track Option HazMat Demo & Disposal			05.000.000		
166	44.14.1.1	(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	DMILLY/skistes (Assessed March		E4	<b>#0.500.000</b>		
175		DMU Vehicles (Assume New) DMU Vehicles Spare Parts for 15 Vehicles		EA	\$3,500,000		
176 177		DIMO Venicles Spare Parts for 15 Venicles		EA	\$700,000		
177							
179	15 Enginee	ring & Administration			Subtotal		\$1,366,161
180	Infrastructure				Subiolai	\$1,366,161	\$1,300,101
181	Vehicle	E&A 5.00%				\$1,300,101	
182	Verneie	E & A 0.00%					
183							
184							
185	16 - Conting	encies			Subtotal		\$1,006,903
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$724,103	
191	Utilities	Contingency 100.00%				\$282,800	
192							
194	17 - Washing	ton State Sales Tax and Real Estate Tax					\$274,972
195		Sales Tax 8.40%				\$274,972	
		Sales Tax has been applied to 2/3 of Infrastructure &					
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
						Total	\$6,551,352
							72,223,002

### INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-300 Shared Track

	Spokane	Regional					
	•	Light Rail Project			Fstim:	ate Basics	
		Order of Magnitude		Ctart Cta			
	Danisiaa			Start Sta	End Sta	Length	
	Drawing	Shared Track - Maintenance Facility Site					
	C -300	Located near the Fairground Station Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
	1-Civil Const				040		
2		Site Preparation - Clearing & Grubbing Grade Preparation to Top of subballast.		LF LF	\$10 \$35		
3		Curb & Gutter Allowance		LF	\$35		
4		Common Excavation		CY	\$15		
6		Common Backfill (From Project Excavation)		CY	\$4		
9		Chain Link Fencing 4'		LF	\$16		
10		Chain Link Fencing 6'		LF	\$22		
11		Ballast Walls (Curb-no drainage)		LF	\$22		
12 14		Site Cleanup and Final Grading Allowance		LF TF	\$6 \$223		
15		Ballasted Track at Grade or Structure  Ballasted Track with Pave-Over Topping		TF	\$223		
20		#10 Single Crossover		EA	\$175,000		
21		#10 Turnout		EA	\$75,000		
22		#20 Turnout		EA	\$100,000		
23		Impact Attenuators		EA	\$35,000		
24		Minor Street Closures Allowance		EA	\$25,000		-
25		Minor Intersection Rebuild (2 Lanes)		EA	\$100,000		
26		Major Intersection Rebuild (4 Lanes)		EA	\$200,000		
27 28		Minor Traffic Signal (2 Lanes)  Major Traffic Signal (4 Lanes)		EA EA	\$100,000 \$200,000		
29		Complex Major Intersection Rebuild		EA	\$300,000		
30		Roadway Construction		SF	\$9		
31		Sidewalk Construction		SF	\$6		
32		Off Alignment Signal Modifications		EA	\$75,000		
35		Relocate UPRR Yard Lead or Branch Line		TF	\$100		
36		Remove & Relocate Industrial Spur		TF	\$130		
37		Remove Industrial Spur		TF	\$50		
39	0 Income	Construct New Ballasted Industrial Siding Track		TF	\$160		
50 57	3 - Utilities	- Included other in Items					
59	3 - Othities	Utility Allowance - High		RF	\$600		
60		Utility Allowance - Medium		RF	\$350		
61		Utility Allowance - Low		RF	\$100		
70	4 - Track Mat	terials - Included in the Rail Items					
74	5 - Structure						
76		Crash Wall (2.5' thick x 12' high)		CY	\$300		
77		Retaining Wall to 5'		SF	\$35		
78 104	6 - Stations	MSE (or Sound) Retaining Wall Allowance		SF	\$30		
105	6 - Stations	Stations (Shared Track Option)		EA	\$500,000		
108		Station Name		LA	ψ500,000		
109		Operator Crew Room/Concession Building		EA	\$100,000		
110		Bus Turn-around and Canopy Reconstruction		LS	\$200,000		
115	7 - Park & Ri	des					
116		Park & Ride		Space	\$4,300		
117		Park & Ride Location					
119	8 - Operation	s Facility (Shared Track Option)					\$23,592,33
100		Bldg & Yard Site Prep, Grading & Utilities (Shared Track Option)		1.0	£40,400,000	640 400 000	
123 124		Yard Trackwork (Shared Track Option)	1	LS LS	\$10,163,008 \$2,565,708		
125		Yard Ductbank / Conduit (Shared Track Option)	1		\$300,000		
126		Operations Facility Building (Shared Track Option)	1		\$5,343,000		
127		Maintenance Equipment (Shared Track Option)	1		\$3,373,155		
128		MOW Vehicles (Shared Track Option)	1		\$1,847,460		
133	9 - Traction F	Power System -Lighting and System Support					-
141		Alignment Lighting (Shared Track Option)		LS	\$600,000		
142	40 01: 1-	Spare Parts/ System Support (Shared Track Option)		LS	\$90,000		
147	10 - Signal S		-	1.0	£46,000,750		
148 149	+	Signal (Shared Track Option)		LS	\$16,233,750		
150							
151	11 - Commu	nications	+				
152	50	Communications (Shared Track Option)		LS	\$1,770,000		
153					, 2,300		
154							

## INTERIM PRELIMINARY ENGINEERING SHARED TRACK OPTION SPOKANE LIGHT RAIL TRANSIT Drawing # C-300 Shared Track

	Spokane	Regional					
		Light Rail Project			Estima	ite Basics	
		Order of Magnitude		Start Sta	End Sta	Length	
	Drawing	Shared Track - Maintenance Facility Site				Ŭ	
	C -300	Located near the Fairground Station Area					
		Description	Quantity	Unit	Unit Cost	Extension	2001\$
155		·	•				
156							
157	12 - Fare Col						•
		Fare Collection Vending/ Validator & Spares (Shared Track					
158		Option)		LS	\$163,333		
159							
160		Subtotal - Infrastructure			Subtotal		\$23,592,33
161							
162	13. Right of V	Nay					
		Shared Track Option DEA Right of Way Acquisition Budget					
165		Estimate (Including Railroads & Operation Facility)		LS	\$28,000,000		
100		Shared Track Option HazMat Demo & Disposal		LS	\$20,000,000		
166		(Tanks, Waste Mitigation etc.) - Allowance		LS	\$5,000,000		
174	14. Vehicles	(Tariks, Waste Witigation etc.) - Allowance		LO	ψ3,000,000		
175	14. VOIII0100	DMU Vehicles (Assume New)		EA	\$3,500,000		
176		DMU Vehicles Spare Parts for 15 Vehicles		EA	\$700,000		
177					7.00,000		
178							
179	15 - Engineer	ring & Administration			Subtotal		\$8,257,31
180	Infrastructure	E&A 35.00%				\$8,257,316	
181	Vehicle	E&A 5.00%					•
182							
183							
184							
185	16 - Continge				Subtotal		\$4,718,46
187	Vehicles	Contingency 5.00%					
189	Infrastructure	Contingency 20.00%				\$4,718,466	
191	Utilities	Contingency 100.00%					
192 194	47 Week!::::	ton State Sales Tax and Real Estate Tax					\$1,585,40
194	ir - wasning	Sales Tax and Real Estate Tax				\$1,585,405	φ1,505,4U
190	1	Sales Tax has been applied to 2/3 of Infrastructure &		-		φ1,300, <del>4</del> 05	
		Contingency (Reduced to eliminate tax on Labor) and 100%					
196		of the vehicle's estimated total.					
.00		o. a.o voo.o o delimated total.					
						Total	\$38,153,518
	+					. 5 (6)	200,.00,010