

	Approved	Denied
Date Action Taken:	7/11/11	
Other:		
Verified by:	nik	

WASILLA CITY COUNCIL ACTION MEMORANDUM

AM No. 11-18

TITLE:

AUTHORIZING THE ALASKA RAILROAD TO UPGRADE THE

CROSSINGS AT SNIDER ROAD AND SOUTH MACK DRIVE IN THE

AMOUNT OF \$162,600.

Agenda of: July 11, 2011

Originator: Public Works Director

Date: June 28, 2011

Route to:	Department	Signature/Date /
X	Public Works Director	1628/11
X	Finance Director	10/10/ 6/29/11
X	Deputy Administrator	11/29/11
X	City Clerk	4 Jan X

REVIEWED BY MAYOR VERNE E. RUPRIGHT: _

FISCAL IMPACT: \boxtimes yes \$162,600 or \boxtimes no Funds Available \boxtimes yes

Account name/number: Railroad Crossing Improvements/160-4320-432.45-40

Attachments: Alaska Railroad Cost Estimates (6 pages)

SUMMARY STATEMENT: The Alaska Railroad is in the final year of upgrading the road crossings through Wasilla. The crossings previously upgraded include Jude Street at the Sewage Treatment Plant, Glenwood Avenue and Hallea Lane. As part of the City's permit to cross the railroad with its roads, the City is required to pay for maintenance and upgrades. The Snyder Crossing is the last major upgrade, whereas South Mack Drive is an adjustment to the settlement (speed hump effect) that has occurred between the road and the railroad.

STAFF RECOMMENDATION: Authorize the Alaska Railroad to upgrade the crossings at Snider Road and South Mack Drive in the amount of \$162,600.



Alaska Railroad Corporation

SOUTH MACK DRIVE CROSSING ESTIMATE

Location: MP162.30
ARRC No: xxxxx
Other No: xxxxx

Crossing 910335C at 90°, assume 2011 construction, pull existing panels, surface through the concrete modular crossing, re-install panels

Prepared by: TJ Sheffield on 2011.06.17

Prepared by: TJ Sheffield on 2011.06	5.17				REIMBURSABLE			
Description	Qty	Unit	Unit P	rice	Total	Notes / Comments		
Construction								
Crossing Construction					\$ 22,100			
Equipment		Subt	otal		\$ 6,648	engleting men in this is the financial mental mental mental mental in the contract of the cont		
ARRC Equipment	3	DY	T \$	58	\$ 175	V1135 truck or equal, project manager		
ARRC Equipment	2	DY	\$	37	\$ 75	SSL1 skid steer or equal		
ARRC Equipment	2	DY	\$	155	\$ 310	V1260 truck or equal, boom		
ARRC Equipment	6	DY	\$	81	\$ 485	V1283 truck or equal, 4 each, Roadmaster, Section & HE operators		
ARRC Equipment	1	DY	\$	2,636	\$ 2,636	C10 work train or equal, ballast delivery		
ARRC Equipment	1	DY	\$	58	\$ 58	V1286 truck or equal, work train & dump crew		
ARRC Equipment	3	DY	\$	155	\$ 465	V1301 tractor or equal, with trailer, HE Operators		
ARRC Equipment	1	DY	\$	855	\$ 855	ET19 tamper or equal		
ARRC Equipment	1	DY	\$	545	\$ 545	BR20 ballast regulator or equal		
Rental Equipment	1	DY	\$	55	\$ 55	R-803 rental hy-rail, surfacing gang, or equal		
Rental Equipment	2	DY	\$	326	\$ 653	R-1011 rental loader, Volvo 180 or equal		
Rental Equipment Op \$	10	HR	\$	29	\$ 289	Rental loader, operating cost		
Rental Equipment Op \$	10	HR	\$	5	\$ 49	Rental hy-rail, surfacing gang, operating cost		
Labor		Subto	otal		\$ 13,202			
Labor	20	MH	\$	54	\$ 1,071	Roadmaster		
Labor	16	MH	\$	44	\$ 698	Gang foreman, ST		
Labor	8	МН	\$	65	\$ 524	Gang foreman, OT		
Labor	64	МН	\$	32	\$ 2,055	Track laborers, ST		
Labor	32	МН	\$	48	\$ 1,541	Track laborers, OT		
Labor	24	MH	\$	37	\$ 890	HE operators, ST		
Labor	32	MH	\$	56	\$ 1,781	HE operators, OT		
Labor	1	DY	\$	1,777	\$ 1,777	Train Crew, Work Train		
Labor	1	DY	\$	557	\$ 557	Dump Crew, Work Train		
Labor	1	DY	\$	1,139	\$ 1,139	Surfacing Gang		
Labor	8	MH	\$	35	\$ 277	Signal maintainer, ST		
Labor	4	MH	\$	52	\$ 208	Signal maintainer, OT		
Per Diem	2	MD	\$	88	\$ 175	Surfacing Gang		
Per Diem	0	MD	\$	88	\$ -	Track Crew & HE Operators, assume Section Gang (i.e. no per diem)		
Per Diem	1	LS	\$	510	\$ 510	Train Crew, Work Train		
Materials		Subto	otal		\$ 2,030			
Ballast	75	TN	\$	27	\$ 2,030	Ballast, Curry, inventory price		
Contracts		Subto	otal		\$ 250			
Asphalt, Underlayment	0	TN	\$	95	\$ -	No asphalt delivery, ARRC rolls out, 6" thick, 12 ft. wide x 80 ft. long panel, 150 pcf		
Asphalt, Contractor Mob	0	LS	\$	1,500	\$ ~	No asphalt, contractor, mobilization		
Asphalt, Saw Cuts	0	LF	\$	4	\$ -	By others, asphalt saw cuts, contractor, both sides of road		
Asphalt, Removal	0	SY	\$	15	\$ ~	By others, asphalt removal, contractor, road width 24 ft.		
D1, Sub-base	0	TN	\$	60	\$ -	By others, D1 material, delivered & placed, 4" thick, for road pullback, both sides		
Asphalt, Paving	0	TN	\$	240	\$ -	By others, asphalt, delivered & placed, 4" thick, 150 pcf, for pullback, both sides		



Alaska Railroad Corporation

SOUTH MACK DRIVE CROSSING ESTIMATE

Location: MP162.30 ARRC No: xxxxx

Other No: xxxxx

Crossing 910335C at 90°, assume 2011 construction, pull existing panels, surface through the concrete modular crossing, re-install panels

/					EIMBURSABLE	
Qty	Unit	ι	Jnit Price		Total	Notes / Comments
0	DY	\$	750	\$	-	Deliver to site, pick up and dispose
2	DY	\$	75	\$	150	Portable toilet during construction
1	LS	\$	100	\$	100	Road closure permit
1	<u>LS</u>	\$	2,500	\$		Assume City of Wasilla provides the Traffic Control Plan
		tuess permissible see		\$	-	
Utility Construction						
				\$	_	
			0.000.000	\$	2,000	
	Subt	otal		\$	243	
3	DY	\$	81	\$	243	Flagging, vehicle, assume flagging during activity by others
0	DY	\$	55	\$		
0	HR	\$	- 5	\$		and the second s
	-	otal	e the disputation of polyhydrocytes agreement for committee committee committee.	\$	and the state of t	
4	3	\$	ŧ	\$		Flagman, ST, assume flagging during activity by others
12			62	\$	738	Flagman, OT, assume flagging during activity by others
				arrimenens.		
L	Subt	otal		warninghaman and he		
	and the second second	, may re-	2000	\$	24,100	
5.00%				\$	1,200	
net til til til til til til til til til ti	NOTE MEST AND CONTRACTOR AND CONTRAC	sancas) nurfinessendarne		\$	25,300	
				\$		
				\$	800	
2.00%				\$	500	
1.00%				\$	300	
0.00%				\$	-	
0.00%				\$	-	
				\$	800	
				\$	26,100	
* Rei	mbursable	rate is S	51.02%	\$	13,300	The all the same of the same o
	Reimbursa			Ś	39,400	
	Qty 0 2 1 1 1 1 1 1 1 1 1	Qty Unit 0	Qty Unit	Oty Unit Unit Price	Oty Unit Unit Price 0	Qty Unit Unit Price Total 0 DY \$ 750 \$ 2 DY \$ 75 \$ 150 1 LS \$ 100 \$ 100 1 LS \$ 2,500 \$ - \$ \$ 2,500 \$ - \$ \$ 2,000 \$ - \$ \$ 2,000 \$ 2,000 \$ \$ \$ 2,000 \$ 2,000 \$ \$ \$ \$ 2,000 \$ 2,000 \$ \$ 2,000 \$ \$ -



Alaska Railroad Corporation

SOUTH MACK DRIVE CROSSING ESTIMATE

Location: MP162.30
ARRC No: xxxxx
Other No: xxxxx

Crossing 910335C at 90°, assume 2011 construction, pull existing panels, surface through the concrete modular crossing, re-install panels

Prepared by: TJ Sheffield on 2011.06.17

REIMBURSABLE

Description Qty Unit Unit Price Total Notes / Comments

Assumptions and Scope

Page 3 of 3

Assume one 48 ft. concrete modular road crossing, pull panels, surface though, reinstall panels using new lag screws.

Assume a road closure.

Assume no temporary timber plank (detour) crossing is needed.

Assume by others: Pull-back on both sides of the crossing, level road approach prior to the concrete panels.

Assume by others: Saw cuts for the lanes, plus shoulders, at the skew angle of the crossing.

Assume by others: Removal and disposal of existing asphalt, D1 for road approachs prior to ARRC crossing work.

Assume by others: Traffic control plan, detour signs and barriers.

Assume remove old panels, surface though, replace existing panels using new lag screws

Assume a company work train delivers ballast for the crossing. Assume the Surfacing Gang surfaces through the crossing.

Assume no crossing signal construction is needed.

(B)

Maska Railroad Corporation

SNIDER ROAD CROSSING ESTIMATE

Location: MP160.80

ARRC No: xxxxx Other No: xxxxx

Crossing 868319F at 90°, assume 2012 construction, replace an existing 24 ft. timber crossing with concrete modular crossing panels

Prepared by: TJ Sheffield on 2011.06.17

REIMBURSABLE

Description	Qty	Unit	Unit Price	1	Total	Notes / Comments
Construction						
Crossing Construction				\$	72,000	
Equipment		Subto	otal	\$	9,764	
ARRC Equipment	4	DY	\$ 60	\$	240	V1135 truck or equal, project manager
ARRC Equipment	3	DY	\$ 38	\$		SSL1 skid steer or equal
ARRC Equipment	3	DY	\$ 160	\$	479	V1260 truck or equal, boom
ARRC Equipment	12	DY	\$ 83	\$	999	V1283 truck or equal, 4 each, Roadmaster, Section & HE operators
ARRC Equipment	1	DY	\$ 2,715	\$	2,715	C10 work train or equal, ballast delivery
ARRC Equipment	1	DY	\$ 59	\$		V1286 truck or equal, work train & dump crew
ARRC Equipment	3	DY	\$ 160	\$	479	V1301 tractor or equal, with trailer, HE Operators
ARRC Equipment	2	DY	\$ 881	\$	1,761	ET19 tamper or equal
ARRC Equipment	2	DY	\$ 561	\$	1,122	BR20 ballast regulator or equal
ARRC Equipment	1	DY	\$ 78	\$		TF-19 forklift or equal, TOFC loads and unloads materials
ARRC Equipment	1	DY	\$ 48	\$	48	V1147 truck or equal, TOFC loads and unloads materials
Rental Equipment	2	DY	\$ 56	\$	113	R-803 rental hy-rail, surfacing gang, or equal
Rental Equipment	3	DY	\$ 336	\$	1,009	R-1011 rental loader, Volvo 180 or equal
Rental Equipment Op \$	15	HR	\$ 30	\$	447	Rental loader, operating cost
Rental Equipment Op \$	20	HR	\$ 5	\$	100	Rental hy-rail, surfacing gang, operating cost
Labor		Subto	otal	\$	27,216	
Labor	40	MH	\$ 55	\$	2,207	Roadmaster
Labor	32	MH	\$ 45	\$	1,439	Gang foreman, ST
Labor	16	MH	\$ 67	\$		Gang foreman, OT
Labor	160	MH	\$ 33	\$		Track laborers, ST
Labor	80	MH	\$ 50	\$		Track laborers, OT
Labor	64	MH	\$ 38	\$\$		HE operators, ST
Labor	56	MH	\$ 57	\$	with the age that whe were	HE operators, OT
Labor	1	DY	\$ 1,830	\$	taken topo Veno 6000 Nette Well-	Train Crew, Work Train
Labor	1	DY	\$ 574	\$	years prost term years found stone	Dump Crew, Work Train
Labor	2	DY	\$ 1,173	\$		Surfacing Gang
Labor	8	MH	\$ 36	\$		Signal maintainer, ST
Labor	4	MH	\$ 53	\$		Signal maintainer, OT
Per Diem	4	MD	\$ 90	\$		Surfacing Gang
Per Diem	16	MD	\$ 90	\$	1,443	Track Crew & HE Operators
Per Diem	1	LS	\$ 525	war and the second	CONTRACTOR AND PROPERTY OF THE	Train Crew, Work Train
Materials	Subtotal			\$	26,852	
Crossing Panel, Gauge, Concrete	4	EA	\$ 1,074	\$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TORRE HOUSE STORY HOUSE HOUSE WARE	Concrete modular crossing panels
Crossing Panel, Field	8	EA	\$ 464	\$	3,710	II The control wind wind their wind that "Mile" their wind their w
Crossing Panel, Ramp, Left	2	EA	\$ 80	\$	159	II
Crossing Panel, Ramp, Right	2	EA	\$ 80	\$	159	H
Crossing Panel, Ramp, Center	2	EA	\$ 157	\$	313	II

(AB)

Maska Railroad Corporation

SNIDER ROAD CROSSING ESTIMATE

Location: MP160.80

ARRC No: xxxxx Other No: xxxxx

Crossing 868319F at 90°, assume 2012 construction, replace an existing 24 ft. timber crossing with concrete modular crossing panels

Prepared by: TJ Sheffield on 2011.06.17

REIMBURSABLE

Prepared by: 1J Sheffield on 2011.06.1	/	nangel dende besone til hill til til til til til til til til til		·	REIMBURSABLE	
Description	Qty	Unit	Unit Price		Total	Notes / Comments
Panel Installation Jewelry	1	LOT	\$ 501	\$	501	Lag screws, drill bits, drive socket
Ties, 10 ft.	50	EA	\$ 77	\$	3,840	Ties, 10 ft. assume an 80 ft. track panel is required
Ties, 10 ft. transition	0	EA	\$ 77	\$	-	Ties, 10 ft. assume track panel covers transition ties, otherwise ten ties on each end
Plates, pandrol	100	EA T	\$ 15	\$	1,509	Plates, pandrol
E-clips, pandrol	8	BG	\$ 39	\$	313	THE
Screws, pandrol	10	BG	\$ 58	\$	581	THE STATE THE STATE OF THE STAT
Angle bars	4	PR	\$ 118	\$	472	Angle bars for joints at end of panel
Bolts, track	2	PAIL	\$ 71	\$	143	Bolt, nut and washer assembly, 20 per pail
Ballast	150	TN	\$ 27	\$	4,061	Ballast, Curry, inventory price
Rail	160	LF	\$ 21	\$	3,428	Rail, 115RE, new, for track panel
4" RSG Conduit	4	LGTH	\$ 325	\$	1,299	4" conduit, signal, 20 ft. lengths
4" RSG Conduit, Coupling	3	EA	\$ 11	\$	33	4" conduit, couplings
4" RSG Conduit, Cap	4	EA .	\$ 39	\$	157	4" conduit, end caps
6" CMP Perf Pipe	5	LGTH	\$ 253	\$	1,266	Drain pipe, 6" perforated, 20 ft. lengths
6" CMP Perf Pipe, Bands	4	EA .	\$ 15	\$	60	Drain pipe, 6" coupling bands
6" CMP Perf Pipe, Elbows	4	EA	\$ 91	\$	366	Drain pipe, 6" elbows, 45 deg.
TOFC material	1	LS	\$ 186	\$	186	Straps, binders, dunnage timber
Contracts	Anno-months and a street of the street of th	Subto	tal	\$	8,202	
Asphalt, Underlayment	36	TN	\$ 95	\$	3,402	Asphalt delivery, ARRC rolls out, 6" thick, 12 ft. wide x 80 ft. long track panel, 150 pcf
Asphalt, Contractor Mob	1	LS	\$ 1,500	\$	1,500	Asphalt, contractor, mobilization
Asphalt, Saw cuts	0	LF	\$ 4	\$		By others, asphalt saw cuts, contractor, both sides of road
Asphalt, Removal	0	SY	\$ 15	\$	1 Comple segue (COS) 2000 (FAM' 6000)	By others, asphalt removal, contractor, road width 24 ft.
D1, Sub-base	0	TN	\$ 60	\$	- 1000 1000 1000 1000 1000 1000 -	By others, D1 material, delivered & placed, 4" thick, for road pullback, both sides
Asphalt, Paving	0	TN	\$ 240	\$	· · · · · · · · · · · · · · · · · · ·	By others, asphalt, delivered & placed, 4" thick, 150 pcf, for pullback, both sides
Dumpster	4	DY	\$ 750	\$	3,000	Deliver to site, pick up and dispose
Portable Toilet	4	DY	\$ 75	\$	300	Portable toilet during construction
Traffic Control Plan	1	LS	\$ 2,500	tutor white	s years panel, const. years speci, codar	Assume City of Wasilla provides the Traffic Control Plan
Timber Crossing		- Construction of the Principle of the State		\$	en.	
Utility Construction	and the second s	AND		\$	40	The Collection of the Collecti
Signal Construction	- American de principa de la compansión de	AND ANY RESIDENCE OF THE PERSON OF THE PERSO	die er de her Clais de Lagrang de services par en apparent par en apparent de la company de la company de la c	\$	and the state of t	
Flagging		harmadaurian da Parisis ar Alberta de la PARTE (PARTE (PARTE)		\$	3,400	
Equipment	***************************************	Subto	tal	\$	500	
ARRC Equipment	6	DY	\$ 83	\$	500	Flagging, vehicle
Rental Equipment	0	DY	\$ 56	\$	-	
Rental Equipment Op \$	0	HR	\$ 5	\$	-	AND MINE STOP OVER THAT WERE AND THAT THAT THAT OF FOR NOTE STORE AND WHAT WAS AND THAT THAT THAT THAT THAT THAT THAT THA
abor		Subto	tal	\$	2,940	
Labor, ST	40	МН	\$ 42	\$	1,680	Flagman, ST, assume flagging required during activity by others
Labor, OT	20	MH	\$ 63	` \$		Flagman, OT, assume flagging required during activity by others
Materials		Subto	tal	\$	-	
Contracts	Subtotal					

AB

Naska Railroad Corporation

SNIDER ROAD CROSSING ESTIMATE

Location: MP160.80

ARRC No: xxxxx Other No: xxxxx

Crossing 868319F at 90°, assume 2012 construction, replace an existing 24 ft. timber crossing with concrete modular crossing panels

Prepared by: TJ Sheffield on 2011.06.17	
---	--

REIMBURSABLE

Description	Qty	Unit	Unit Price	Total	Notes / Comments
Construction Subtotal				\$ 75,400	
Mobilization	5.00%			\$ 3,800	Control and and made and
Construction Total		940. 30E W20 MM W20	1000 NOV -000 -000 YMAN - 1000 N	\$ 79,200	CHAIN TOWN THEN THEN THEN THEN SHEET ONLY SHEET WHAT THEN THEN THEN THEN THEN THEN THEN THE
Design & Support					
Engineering and Design		212.2		\$ -	egoto e e provincia de la compansión de la
Management				\$ 2,400	
Project Management	2.00%			\$ 1,600	
Project Management Support	1.00%			\$ 800	
Construction Management	0.00%			\$	
Quality Assurance Mgmt	0.00%			\$	
Design & Support Total				\$ 2,400	
Project Subtotal				\$ 81,600	
Reimbursable Total	* Rei	imbursable rate is	51.02%	\$ 41,600	
Grand Total (Rounded)	*Note	: Reimbursable R	ate Applied	\$ 123,200	

Assumptions and Scope

Assume one 24 ft. concrete modular road crossing replaces an existing timber crossing.

Assume a road closure.

Assume no temporary timber plank (detour) crossing is needed. Highway traffic will be detoured to Lucille Lane Crossing.

Assume by others: Pull-back on both sides of the crossing, with road approaches to match Parks Highway, prior to the concrete panels.

Assume by others: Saw cuts for the lanes, plus shoulders, at the skew angle of the crossing.

Assume by others: Removal and disposal of existing asphalt, D1 for road approachs prior to ARRC crossing work.

Assume by others: Traffic control plan, detour signs and barriers.

Assume remove old panels, rail and ties, excavate, pave, place signal conduits and CMP drains, backfill with mainline ballast, install a new 80 ft. track panel.

Assume the track panel uses new 10 ft. ties throughout on 19-1/2" centers, with new pandrol plates, pandrol screws and 115RE rail.

Assume a company work train delivers ballast for the crossing.

Assume the Surfacing Gang surfaces through the crossing.

Assume no crossing signal construction is needed.