

Rockford to Dubuque Passenger Rail Extension

Appendix C - Capital Cost Estimate

FRA Standard Cost Category	Pay Item Description	Unit	Unit Cost, Year 2021 (thousands)	Quantity	Amount (thousands)	
10 TRACK STRUCTURES & TRACK						
10.04.01	Tay St Bridge (Open Deck Bridge) Rehabilitation	EA	\$2,400	1.0	\$ 2,400	
10.04.02	North Fork Kent Creek Bridge Rehabilitation	EA	\$1,200	1.0	\$ 1,200	
10.04.04	Bridge Over CP Line Rehabilitation	EA	\$1,200	1.0	\$ 1,200	
10.04.05	Bridge rehabilitation - CN Corridor	EA	\$1,200	12.0	\$ 14,400	
10.04.06	Bridge replacement - CN Corridor	EA	\$5,000	5.0	\$ 25,000	
10.11.02	Single Track New Construction on New 5' Embankment within Existing Railroad Right-of-Way	MI	\$2,082	0.8	\$ 1,561	
10.11.01	Elevate and Surface Curves	MI	\$91	16.0	\$ 1,456	
10.11.01	Track Undercut	MI	\$394	10.0	\$ 3,941	
10.11.02	Timber & Surface w/ 33% Tie Replacement	MI	\$348	0.2	\$ 66	
10.11.03	Timber & Surface w/ 66% Tie Replacement	MI	\$520	6.8	\$ 3,533	
10.11.04	Timber & Surface w/ 40% Tie Replacement	MI	\$385	81.2	\$ 31,239	
10.11.05	Replace Existing Rail with 136# CWR	MI	\$556	88.2	\$ 48,996	
10.12.01	Power Operated #20 Turnout	EA	\$948	11.0	\$ 10,427	
10.12.02	Power Operated #15 Turnout	EA	\$781	4.0	\$ 3,125	
10.12.04	Manual Operated #10 Turnout	EA	\$643	7.0	\$ 4,504	
10.12.09	Single Track Diamond	EA	\$370	2.0	\$ 740	
Total Allocated Cost (thousands)					\$ 153,788	
Allocated Contingency					30%	\$ 46,136
Total for Category 10 TRACK STRUCTURES & TRACK					\$ 199,924	
20 STATIONS, TERMINALS, INTERMODAL						
20.01.01	Platform - Freeport	LF	\$1.46	500.0	\$ 729	
20.01.02	Platform - Galena	LF	\$1.46	330.0	\$ 481	
20.01.03	Platform - Dubuque	LF	\$1.46	500.0	\$ 729	
20.01.04	Parking lot, site work, sidewalks, and ramps - Freeport	EA	\$800	1.0	\$ 800	
Total Allocated Cost (thousands)					\$ 2,739	
Allocated Contingency					30%	\$ 822
Total for Category 20 STATIONS, TERMINALS, INTERMODAL					\$ 3,561	
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS						
30.02	Light maintenance facility	EA	\$825	1.0	\$ 825	
Total Allocated Cost (thousands)					\$ 825	
Allocated Contingency					30%	\$ 248
Total for Category 30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BL					\$ 1,073	

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40 SITEWORK, RIGHT OF WAY, LAND, EXISTING IMPROVEMENTS					
40.01.01	Remove Existing Turnout	EA	\$80	1.0	\$ 80
40.01.02	Removal of Track on Existing Roadbed	MI	\$176	0.8	\$ 132
40.02.01	Culvert Extension	EA	\$78	1.0	\$ 78
40.02.02	Drainage Improvements (cross country)	MI	\$92	10.0	\$ 920
40.05.01	Fencing, 6 ft Chain Link (both sides)	MI	\$169	5.8	\$ 972
40.07.01	Major Roadway Improvements at Grade Crossing	EA	\$165	58.0	\$ 9,570
Total Allocated Cost (thousands)					\$ 11,752
Allocated Contingency		30%			\$ 3,525
Total for Category 40 SITEWORK, RIGHT OF WAY, LAND, EXISTING IMP			\$15,277		\$ 15,277
50 COMMUNICATIONS & SIGNALING					
50.01.01	New 1 track Control Point	EA	\$2,011	3.0	\$ 6,032
50.01.02	Install Additional PTC for Second Track	MI	\$620	2.3	\$ 1,396
50.01.03	Install CTC System (Single Track)	MI	\$287	0.8	\$ 215
50.02.01	Conventional Gates single mainline track	EA	\$241	3.0	\$ 722
50.02.02	Grade crossing warning system train speed adjustment	EA	\$6	62.0	\$ 341
Total Allocated Cost (thousands)					\$ 8,707
Allocated Contingency		30%			\$ 2,611.98
Total for Category 50 COMMUNICATIONS & SIGNALING			\$11,319		\$ 11,319
60 ELECTRIC TRACTION					
Total Allocated Cost (thousands)					\$0
Allocated Contingency					\$0
Total for Category 60 ELECTRIC TRACTION					\$0
Subtotal (10-60), 2021 dollars					\$231,153
70 VEHICLES					
70.02.01	Siemens Charger Locomotive	LS	\$9,536	1.0	\$ 9,536
70.02.02	Single-level car	LS	\$5,515	3.0	\$ 16,545
70.02.03	Cab/coach car	LS	\$6,894	1.0	\$ 6,894
Total Allocated Cost (thousands)					\$ 32,975
Allocated Contingency		30%			\$ 9,893
Total for Category 70 VEHICLES			\$42,868		\$ 42,868

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80 PROFESSIONAL SERVICES					
80.02.01	Design engineering (Cats 10, 40, 50, and 60)	5%			\$ 8,712.31
80.02.02	Design engineering - Stations and Facilities (Cats 20 and 30)	10%			\$ 356.41
80.03	Program Management (Cats 10 through 60)	2%			\$ 4,623.07
80.04.01	Construction Management & Inspection (Cats 10 through 60)	10%			\$ 23,115.34
80.04.02	Engineering Services During Construction (Cats 10 through 60)	1%			\$ 2,311.53
80.07	Integration, Testing, Commissioning (Cats 10 through 60)	1%			\$ 2,311.53
Total for Category 80 PROFESSIONAL SERVICES			\$41,430		\$ 41,430
Subtotal (10-80)					\$315,451
90 UNALLOCATED CONTINGENCY		5%			\$15,773
100 FINANCE CHARGES					
Total Capital Costs (10-100)					\$331,224