12-Oct-16

Detailed Estimate for Grade Crossing Warning Devices

City/State: RYAN, IL
MilePost: D-313.55
State Proj. No.:
S&E Proj. No.: 04.1112
Man Days: 210

Road: 680E/TR 84A
DOT/AAR: 479884K
County: VERMILION
File Number: 061-04.459

*****Purchases - Others*****		
Meals and Lodging:	$28,724.98	
Rental of Equipment:	$39,266.93	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 35 Days)		
Construction Supervision Vehicle:	$6,006.52	
Purchases - Other Total:		$73,998.43
*****Material And Additives*****		
Material Cost:	$159,149.00	
Sales and Use Tax:	$15,915.00	
Material Handling Freight:	$15,914.94	
Material Total:		$190,978.94
*****Labor And Additives*****		
Labor Cost:	$67,620.00	
(6 man crew at $1,932.00 a day for: 35 days)		
Payroll Tax & Overheads:	$57,652.81	
Preliminary Engineering:	$23,810.79	
Construction Supervision:	$19,751.80	
Labor Total:		$168,835.40
	Project Cost:	$433,812.77
	Scrap / Salvage Credit:	$0.00
	Project Total:	**$433,813.00**

Estimated on: 12-Oct-16

Estimated by: ndr3j

Estimate valid for 1 year from date of estimate

Norfolk Southern Railway

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	RYAN
Road:	680E/TR 84A
Mile Post:	D-313.55
Drawing Number:	LFDS31355
State ProjectNumber:	
County:	VERMILION
A A R Number:	479884K
Project Number:	04.1112
File Number:	061-04.459
New File Number:	CX1112031
WBS:	F-03511
Store Number:	S803
Supervisor:	R.J. CRAVENS
Tax Code:	

Vendor to supply the following copies after pricing:

1 Set - Material Management with original Invoice
2 Sets - with plans shipped in car with material
1 Set - S&EGen. Supt. Construction w/copy of invoice

Location: RYAN IL S&E Proj. No.: 04.1112 AFE No.: F-03511 Drawing No.: LFDS31355

Store No.: S803 P.O.Number: Date Required: Date Shipped: Vendor: Railroad Signal Design

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
3	670-360693-4	EA	$5.55	$16.65	AAR/DOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY S'TRAN.						
1	165-006505-4	EA	$1,075.23	$1,075.23	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE						
8	670-119241-4	EA	$25.01	$200.08	ARRESTOR, LIGHTNING HEAVY DUTY CLEAR VIEW SAFETRAN 022585-1X						
29	105-002620-4	EA	$302.42	$8,770.18	BATTERY, NICAD 340AH, MODEL SPL340						
1	670-503047-4	EA	$181.50	$181.50	BELL, CROSSING ELECTRONIC GENERL SIGNAL, EB-3-360-5 CR 02-044350						
3	001-000011-4	EA	$5,000.00	$15,000.00	BERM WALL, 4' HIGH X 5' WIDE, 35LF						
2	670-980689-4	EA	$75.48	$150.96	BRACKET HIGH WIND, (RIGID 3'), WIG- 191036, WALRUS TUSK TYPE						
2	670-561375-4	EA	$1,197.90	$2,395.80	BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 38' AND LESS						
1	670-356949-4	EA	$94.05	$94.05	CABLE, 10' GENERATOR HOOK UP, SERRMI P/N 40524. FEMALE CONNECTOR						
500	465-939422-4	LF	$2.93	$1,465.00	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
2700	465-292862-4	LF	$1.36	$3,672.00	CABLE, UG 2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR						
500	465-292929-4	LF	$4.55	$2,275.00	CABLE, UG 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
1500	465-954727-4	LF	$1.96	$2,940.00	CABLE, UG 7 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL FLAT						
1900	465-791835-4	FT	$3.84	$7,296.00	CABLE, UG AC ENTRANCE 3C#6-7X OKONITE FMPF-L 094-078 TR W/G 1 X 8 7X W010 BRZ TAPE 600V PRODUCT CODE 206-11-6070						
3	670-010671-4	EA	$738.15	$2,214.45	CHARGER, BATTERY CRAGG MODEL 40 DTC-12V, 40 AMP, P/N 520940						
3	670-128745-4	EA	$162.75	$488.25	CHOKE, BATTERY SAFETRAN NO 8A065A FOR GRADE CROSSING PREDICTOR						
120	165-544477-4	FT	$3.22	$386.40	CONDUIT, 4"x10' PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4						

APPROVED BY STATE	APPROVED BY RAILROAD	CAR NUMBER	SEAL NUMBER

Location: RYAN IL S&E Proj. No.: 04.1112 AFE No.: F-03511 Drawing No.: LFDS31355

Store No.: S803 P.O.Number: Date Required: Date Shipped: Vendor: Railroad Signal Design

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
7	670-664917-4	EA	$90.11	$630.77	CONNECTOR KIT, WELDED FAR RAIL, CONSISTING OF RUBBER HOSE PROPERLY DRILLED, BONDSTRAND, 1 SPLICING SLEEVE, 1 REDUCING SLEEVE, 3 CLAMPS, 1 TRACK CLIP, 1 WEB WELDED TRACK CONNECTOR, 1 WELD METAL, SAFETRAN 111359-2X						
7	670-632520-4	EA	$77.63	$543.41	CONNECTOR KIT, WELDED NEAR RAIL, CONSISTING OF, RUBBER HOSE PROPERLY DRILLED, BONDSTRAND, SPLICING SLEEVE, 1 REDUCING SLEEVE, 5 CLAMPS, 1 TRACK CLIP, 1 WEB WELDED TRACK CONNECTOR, 1 WELD METAL, SAFETRAN 111359-1X						
2	670-793404-4	EA	$1,205.32	$2,410.64	COUNTERWEIGHT PKAGE, 17-24'GATE S'TRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS						
4	670-760012-4	EA	$9.95	$39.80	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. ====TO COVER 2 LAMPS====						
1	670-986650-4	EA	$354.27	$354.27	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER						
1	670-000004-4	EA	$700.00	$700.00	FCC LICENSE FOR MONITOR/RADIO						
8	670-000003-4	EA	$255.85	$2,046.80	FILL/STONE #57, QUANITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
1	670-013706-4	EA	$359.64	$359.64	FILTER, ELECTRO CODE 114HZ REJECTION PART # TF-114						
2	670-015231-4	EA	$599.40	$1,198.80	FOUNDATION, DIXIE,S-2 GATE 2'6"X2'6"X5'6" ASSEMBLED						
2	670-005377-4	EA	$338.00	$676.00	GATE ARM, ALUMINUM, 17-24 FT, ARM ASSEMBLY, INCLUDES GATE GUARD FOR GATE LIGHT CABLE. HIGH INTENSITY VERTICAL STRIPES.						
1	670-675667-4	EA	$30,238.53	$30,238.53	GCP4000 - 1 TRK (2TC) - REDUNDANT - 40/40 AMP WIRED RACK EQUIP. FOR 6X8 XING SHELTER, (INCL. 2 TRK CHASSIS A80465, 2 TRK MODS. A80418, 2-SSCC A80405, 2 CPU A80403, 1 SEAR A80410, 1 DISPLAY A80407, , 2-40 AMP CHARGERS) IPN: 003131-1X						
1	670-687087-4	EA	$21,483.70	$21,483.70	GCP4000 - 2 TRK (5TC) - NON-REDUNDANT - 40 AMP WIRED RACK EQUIP. FOR 6X8 REMOTE SHELTER, (INCL. 5 TRK CHASSIS A80440, 2 TRK MODS. A80418, 0 SSCC, 1 CPU A80403, NO SEAR, 1 DISPLAY A80407, 1-40 AMP CHARGER) IPN: 003131-3X						
2	670-468243-4	EA	$45.20	$90.40	INDUCTOR, SIMULATED TRACK SAFETRAN 8V617-0400						

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Location: RYAN IL S&E Proj. No.: 04.1112 AFE No.: F-03511 Drawing No.: LFDS31355

Store No.: S803 P.O.Number: Date Required: Date Shipped: Vendor: Railroad Signal Design

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
1	670-967245-4	EA	$45.20	$45.20	INDUCTOR, SIMULATED TRACK SAFETRAN 8V617-1800						
2	670-477991-4	EA	$410.00	$820.00	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS,200'#4WIRE,12 4 WIRE ONE-SHOTS. ERICO SBK206						
1	670-123298-4	EA	$361.54	$361.54	KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS,P'GUM PAINT,SLEEVES,TAGS,GLUE, 100 EA WHITE TAGS,)NE CAN BLUE MARKING PAINT ETC...						
2	670-092155-4	EA	$160.00	$320.00	LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC #: 9298-1120						
2	670-005058-4	EA	$1,786.08	$3,572.16	LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003-L487XNS)						
20	670-440826-4	EA	$1.90	$38.00	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						
6	255-590880-4	EA	$17.52	$105.12	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
2	670-637778-4	EA	$1,317.65	$2,635.30	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. S'TRAN P# 070519-11AX.						
2	670-875060-4	EA	$2,596.32	$5,192.64	MECHANISM, GATE MODEL S-60, WITH DEFROSTER , WITHOUT MINI TRACKSIDE SENSOR S'TRAN # 0740007-X002A3						
4	670-000001-4	EA	$726.23	$2,904.92	MISC. EXPENSE, MATERAIL/FILL						
2	670-000007-4	EA	$307.02	$614.04	MISC. EXPENSE, TRACK WORK (I.E. INS JTS, RODS, ETC.)						
1	000-000000-4	EA	$5,000.00	$5,000.00	MISC. EXPENSE, UNDERGROUND BORING						
2	210-863404-4	EA	$4.38	$8.76	NUT, RACO 408-1 SAFETRAN PART NO. 023408-1X INSULATED CR 02-316121						
2	670-001347-4	EA	$59.67	$119.34	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						
1	670-004475-4	EA	$336.93	$336.93	PACKAGE, KIT FOR ADDITIONAL TRACK CONNECTION CROSSING LOCATION. INCLUDES ALL EQUIPMENT, WIRING AND SHOP LABOR. (1 PER WIRE PAIR) IPN: 051000-NSX-0005						
1	255-646807-4	EA	$32.59	$32.59	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX						

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Store No.: S803 P.O.Number: Date Required: Date Shipped: Vendor: Railroad Signal Design

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed Date Quan.	Date Quan.	Date Quan.	Quantity Returned (Credit)	Special Instructions
1	670-514605-4	EA	$11.11	$11.11	PINNACLE, W-C SECT 1-11, 4"& 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X						
4	670-259211-4	EA	$47.25	$189.00	PLUG BOARD KIT, TYPE B-1 & VOLTAGE TEST TERMINAL, SAFETRAN 420000-75X						
2	165-902002-4	EA	$297.48	$594.96	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL						
8	465-002899-4	EA	$40.24	$321.92	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
4	670-707995-4	EA	$510.12	$2,040.48	RELAY, TYPE B1, NEV LINE, 900 OHMS,.008 AMPERES GRS A62-308 OR SAFETRAN @400003						
4	435-805560-4	EA	$2.78	$11.12	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER						
1	670-113448-4	EA	$910.23	$910.23	SEARIIi, (VHFC w/ANTENNA) - VHF COMMUNICATOR, SAFETRAN P/N A80276, 1/ PER CROSSING						
2	670-749325-4	EA	$226.97	$453.94	SHELF, FOLDING, FOR LAPTOP USE IN FARADAY 6X8 SHELTER, SAFETRAN 052852-128X						
2	670-755523-4	EA	$9,325.16	$18,650.32	SHELTER, 6'X8' ALUMN FARADAY W/1EA EQUIPMENT RACK, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN RECEPTICAL, BREAKER BOX GFI OUTLET FOR LAPTOP SHELF SAFETRAN 058400-68-85						
5	670-586967-4	EA	$44.91	$224.55	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT						
3	670-688850-4	EA	$369.89	$1,109.67	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND						
2	670-645460-4	EA	$575.56	$1,151.12	SHUNT, MULTI-FREQ. #62775-8621 SAFETRAN NARROW BAND						
2	670-393331-4	EA	$53.74	$107.48	SIGN CROSSING MALFUNCTION ASSEMBLY FOR 4" AND 5" MAST, SAFETRAN #T17215						
2	670-016346-4	EA	$149.68	$299.36	SIGN, X-BUCK, HI-INTENSIVE REFLECTIVE FRT. & BACK FOR ALL STATES, SAFETRAN# 035200-91X						
3	670-330382-4	RL	$18.06	$54.18	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"						
14	670-478560-4	EA	$20.56	$287.84	TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR						
10	670-007238-4	EA	$117.04	$1,170.40	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-						
2	450-986008-4	EA	$30.45	$60.90	WRENCH, TEST POST TYPE B DWG 55393-3, GR.1						

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Total Material: $159,149.43

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