



**Detailed Estimate for Grade Crossing Warning Devices**

City/State: BARRY, IL  
MilePost: DH-492.32  
State Proj. No.:  
S&E Proj. No.: 04.0185  
Man Days: 108

Road: TR-148  
DOT/AAR: 479588Y  
County: PIKE  
AFE: F11542  
File Number:

<b>***Purchases - Others***</b>	
Meals and Lodging:	\$14,515.20
Rental of Equipment:	\$25,704.00
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 27 Days)	
Construction Supervision Vehicle:	\$8,972.21
Purchases - Other Total:	\$49,191.41
<b>***Material And Additives***</b>	
Material Cost:	\$87,211.00
Sales and Use Tax:	\$4,361.00
Material Handling Freight:	\$4,360.55
Material Total:	\$95,932.55
<b>***Labor And Additives***</b>	
Labor Cost:	\$30,240.00
(4 man crew at \$1,120.00 a day for: 27 days)	
Payroll Tax & Overheads:	\$40,170.82
Preliminary Engineering:	\$10,335.70
Construction Supervision:	\$16,940.45
Labor Total:	\$97,686.97
Project Cost:	\$242,810.93
Scrap / Salvage Credit:	\$0.00
<b>Project Total:</b>	<b>\$242,810.93</b>

Estimated on: 10-Dec-09

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:	BARRY
Road:	TR-148
Mile Post:	DH-492.32
Drawing Number:	SFDH49232
State ProjectNumber:	
County:	PIKE
A A R Number:	479588Y
Project Number:	04.0185
File Number:	
New File Number:	CX0122585
A F E Number:	F11542
Store Number:	08601
Supervisor:	A.W. HARDWICK
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&E Gen. Supt. Construction w/copy of invoice	

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
3	670-360693-4	EA	\$5.50	\$16.50	AAR/DOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 DAY LEAD TIME. SUPPLIED BY S'TRAN.						
1	165-006505-4	EA	\$1,051.54	\$1,051.54	AC SERVICE, COMPLETE LESS METER BASE, ASSEMBLED ON 30' POLE						
13	105-288384-4	EA	\$279.96	\$3,639.48	BATTERY,GNB 368AH MODEL 50G15 SINGLE CELL 2.25 VOLTS, FOR USE WITH CROSSINGS DESIGNED AFTER 09/09						
700	670-065806-4	EA	\$3.95	\$2,765.00	BOND, WIRE 7-1/2 IN. X 3/16 IN., IGNITER, MOLDS, POWDER, CADWELD						
1800	670-065872-4	LF	\$0.92	\$1,656.00	BONDSTRAND, 3/16 IN WIRE 4/64 IN PVC INSULATION OUTER WIRES TINNED ONLY, ALSO USED TO MAKE 4 AND 6 HOLD LONG BONDS.						
2	670-980689-4	EA	\$76.10	\$152.20	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	\$61.67	\$61.67	CABLE, 10' GENERATOR HOOK UP, SERRMI P/N 40524. FEMALE CONNECTOR						
400	465-939422-4	LF	\$2.28	\$912.00	CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH CONDUCTOR WITH 5/64 IN INSULATION 10 MIL						
600	465-292862-4	LF	\$0.98	\$588.00	CABLE, UG 2-6 TWISTED, S-23 OKONITE 113-12-3933 SOLID TINNED CONDUCTOR						
400	465-292929-4	LF	\$2.94	\$1,176.00	CABLE, UG 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL						
300	465-791835-4	FT	\$2.63	\$789.00	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						
1	670-155602-4	EA	\$704.00	\$704.00	CHARGER, BATTERY CRAGG MODEL 40 ETC-12V 40 AMP TEMP COMPENSATED						
100	165-544477-4	FT	\$3.41	\$341.00	CONDUIT, 4"x10' PVC, SCHEDULE 80 BELL CONNECTOR AT ONE END, 1/2 PT. GLUE IN KIT 670-123298-4						
900	670-918555-4	EA	\$4.13	\$3,717.00	CONNECTOR, WEB TRACK 1IN X 4IN LONG, FOR SHUNT CONN TO RAIL, INCLUDES WELD METAL & MOLDS (ERICO #SBTBBU4A)						

APPROVED BY STATE | APPROVED BY RAILROAD | CAR NUMBER | SEAL NUMBER

Location: BARRY

IL

S&amp;E Proj. No.: 04.0185

AFE No.: F11542

Drawing No.: SFDH49232

Store No.: 08601

P.O.Number:

Date Required:

Date Shipped:

Vendor: Xorail

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
4	670-090450-4	EA	\$86.46	\$345.84	CONNECTOR, WELDED FAR RAIL HARMON A1000-2W						
4	670-486646-4	EA	\$73.92	\$295.68	CONNECTOR, WELDED NEAR RAIL HARMON A1000-1W						
2	670-793404-4	EA	\$1,189.32	\$2,378.64	COUNTERWEIGHT PKAGE, 17-24'GATE S'TRAN S- MECH ONLY, STAINLESS, TO INCLUDE HUB, SUPPORT ARMS						
4	670-760012-4	EA	\$40.02	\$160.08	COVER, FOR 1 WAY FLASHING LIGHT ASSY. 18 OZ. BLACK VINYL COATED NYLON. ==TO COVER 2 LAMPS==						
1	670-986650-4	EA	\$348.44	\$348.44	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER						
1	670-000004-4	EA	\$700.00	\$700.00	FCC LICENSE FOR MONITOR/RADIO						
6	670-000003-4	EA	\$255.85	\$1,535.10	FILL/STONE #57, QUANTITY IS BASED ON TRUCK LOAD PLUS DELIVERY COST						
2	670-015231-4	EA	\$577.50	\$1,155.00	FOUNDATION, DIXIE,S-2 GATE 2'6"X2'6"X5'6" ASSEMBLED						
2	670-257031-4	EA	\$339.19	\$678.38	GATE, ARM FIBERGLASS-ALUMINUM 17-24 FT., INCLUDES GATE GUARD FOR GATE LIGHT CABLE, NEG P/N 8002-244NFS/CG						
1	670-973180-4	EA	\$32,139.88	\$32,139.88	GCP 4000 1 TRK, REDUNDANT, (2TRK CHASSIS), WIRED RACK FOR 6X6 FARADAY, 2 EA SSCCIII, 1 EA 20 AMP & 1 EA 40 AMP CRAIG CHARGER, WITH SEAR Iii, 2 RELAY RACKS, SAFETRAN T18808.						
1	670-477991-4	EA	\$317.90	\$317.90	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	\$287.93	\$287.93	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	670-764166-4	EA	\$1,224.75	\$2,449.50	LAMP ASSY, 5" MAST MTG. 2W IND. 20" BKGRD, FLX-12 W/BULB S'TRAN #042003-487XNS						
6	165-643547-4	EA	\$5.69	\$34.14	LAMP, 18 WATT 10 VOLT S-11 SC BAY 18S11/1SC CLEAR RWY SIGNAL UJ-71463 GE						
4	255-590880-4	EA	\$17.08	\$68.32	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
2	670-637778-4	EA	\$1,033.34	\$2,066.68	MAST, 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. S'TRAN P# 070519-11AX.						

APPROVED BY STATE

APPROVED BY RAILROAD

CAR NUMBER

SEAL NUMBER

Location: BARRY IL S&E Proj. No.: 04.0185 AFE No.: F11542 Drawing No.: SFDH49232  
 Store No.: 08601 P.O.Number: Date Required: Date Shipped: Vendor: Xorail

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
2	670-850933-4	EA	\$3,540.11	\$7,080.22	MECHANISM, GATE MODEL S-60, WITH DEFROSTER AND MINI TRACKSIDE SENSOR S'TRAN # 0740007-X002B3						
3	670-000001-4	EA	\$726.23	\$2,178.69	MISC. MATERAIL/FILL						
4	670-001347-4	EA	\$47.93	\$191.72	PACKAGE, HARDWARE SIGN 5 IN. MOUNTING, SERRMI A1250-5, HARMON @200965-000, OR						
1	255-646807-4	EA	\$17.09	\$17.09	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX						
1	670-514605-4	EA	\$10.30	\$10.30	PINNACLE, W-C SECT 1-11, 4"& 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X						
1	165-902002-4	EA	\$308.00	\$308.00	PROTECTOR, SURGE 120/240VAC, ERICO P/N EPD120/240TDFL						
4	465-002899-4	EA	\$36.06	\$144.24	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
1	670-024861-4	EA	\$640.86	\$640.86	RELAY RACK, SWING, FARADAY SHELTER FOR EIGHT B1 RELAYS, SAFETRAN P/N 057883-1X						
2	435-805560-4	EA	\$6.25	\$12.50	SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER						
1	670-027556-4	EA	\$2,659.94	\$2,659.94	SEARIII, ACCESSORY PACKAGE, W/2-IL0D, 1-E-BELL, 2-GTS, 1-GFT, 1-VHFC, WITHOUT MTSS/SEAR UNIT						
1	670-281280-4	EA	\$6,559.29	\$6,559.29	SHELTER BARE 6X6, ALUMN, FARADAY, W/CABLE CHUTES BEHIND TERMINAL BOARD, W/GEN. CONN. W/ADJUSTABLE PIERS, ,SAFTETRAN P/N 058400-66-78A						
4	670-586967-4	EA	\$42.98	\$171.92	SHUNT COVER W/LAG SCREWS, 19"X19", SERRMI #40271, ORDER 1 PER SHUNT						
2	670-688850-4	EA	\$392.54	\$785.08	SHUNT, MULTI-FREQ. #62775-3497 SAFETRAN NARROW BAND						
2	670-645460-4	EA	\$600.06	\$1,200.12	SHUNT, MULTI-FREQ. #62775-8621 SAFETRAN NARROW BAND						
2	670-393331-4	EA	\$37.43	\$74.86	SIGN CROSSING MALFUNCTION ASSEMBLY FOR 4" AND 5" MAST, SAFETRAN #T17215						
2	670-806648-4	EA	\$68.73	\$137.46	SIGN, X-BUCK, LESS HARDWARE, SAFETRAN 035200-X CR 02-490546						
2	670-353390-4	EA	\$38.50	\$77.00	SIGN, "2 TRACKS" LESS HARDWARE SAFETRAN 035207-2X						
2	670-006438-4	EA	\$9.71	\$19.42	TAPE, 4" X 96" REFLECTIVE APPLY TO BACK OF X-BUCK SIGN. ONLY IN IA., IN., IL, AL. 035200-555X						

APPROVED BY STATE | APPROVED BY RAILROAD | CAR NUMBER | SEAL NUMBER

Location: BARRY IL S&E Proj. No.: 04.0185 AFE No.: F11542 Drawing No.: SFDH49232  
 Store No.: 08601 P.O.Number: Date Required: Date Shipped: Vendor: Xorail

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date	Date	Date		
1	670-330382-4	RL	\$15.68	\$15.68	TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"						

Total Material: \$87,211.09

APPROVED BY STATE | APPROVED BY RAILROAD | CAR NUMBER | SEAL NUMBER