CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE

ACCT. CODE : 709 - IL0428

ESTIMATE SUBJECT TO REVISION AFTER: **11/11/2015** **DOT NO.:** 283191T
CITY: Lansing **COUNTY:** Cook **STATE:** IL
DESCRIPTION: 186th St. - Installation of FLS&G with CWT detection equipment.

DIVISION: Chicago **SUB-DIV:** Elsdon **MILE POST:** DG-29.42
AGENCY PROJECT NUMBER: Proj #: C-91-015-15; Agmt #: RR115015

	PRELIMINARY ENGINEERING:			
200	Labor (Non Contract)		$	-
200	Additive		$	-
230	Expenses		$	-
212	Contracted & Administrative Engineering Services		$	4,000
	Subtotal		$	4,000
	CONSTRUCTION ENGINEERING/INSPECTION:			
200	Labor (Non Contract)		$	-
200	Additive		$	-
230	Expenses		$	-
212	Contracted & Administrative Engineering Services		$	1,500
	Subtotal		$	1,500
	FLAGGING SERVICE: (Contract Labor)			
070	Labor (Conductor-Flagman)		$	-
050	Labor (Foreman/Inspector)		$	-
070	Additive 117.39%	(Transportation Department)	$	-
050	Additive 118.86%	(Engineering Department)	$	-
230	Per Diem	(Engineering Department)	$	-
230	Expenses		$	-
	Subtotal		$	-
	SIGNAL & COMMUNICATIONS WORK:	(Details Attached)	$	243,379
	TRACK WORK: (Details Attached)		$	-
	PROJECT SUBTOTAL		$	248,879
900	**CONTINGENCIES:**	10.00%	$	24,888
	GRAND TOTAL	**********	$	273,767

DIVISION OF COST:

	Agency	100.00%	$	273,767
	Railroad		$	-
	TOTAL	**********	$	273,767

NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by: BSE **Approved by:** DSM **CSXT Public Project Group**
DATE: 5/15/2015 **REVISED:** **DATE:** 5/21/2015

Estimate No. 126191

CSX Transportation

FAU 1623 (186th St) - Upgrade existing crossing control circuitry. 4/15/2015 - Due date adjusted to 5/14/2015. Plans needed for the design have been received

Lansing, IL

DOT: 283191T OP: IL0428 CSX Project: IL2014043

Summary

Material	$ 105,161
Sales Tax	$ 0
Labor:	
Construction Labor (99 man-days)	$ 36,132
Shop Labor (6 man-days)	$ 1,941
Subsistence (99 man-days)	$ 12,870
Railroad Engineering, Preliminary	$ 2,342
Railroad Engineering, Construction	$ 5,420
Additives to Construction Labor	$ 42,947
Additives to Shop Labor	$ 2,307
Additives to Track Labor	$ 0
Additives to Engineering	$ 0
Equipment Expenses (32 work days)	$ 0
Waste Management (20 work days)	$ 240
Contract Engineering	$ 20,010
Freight	$ 7,510
Poleline Removal	$ 0
AC Power Service	$ 2,500
Salvage	$ -1
VAC TRUCK	$ 4,000
TOTAL ESTIMATE COST	$ 243,378

Date: 05/15/2015
Estimated By: Olonda McIver

NOTE: This estimate should be considered void one year from date of estimate.

Shop Material List for CSX Project: IL2014043 (Effective: 05/15/2015)
INSTALL FLS&G w/GCP-4000-186th St.
Lansing, IL - DG 29.42

Catalog Num	Cond	Unit Price	Qty	Cost	Description
N/A		45000.00	1	45000.00	PREDICTOR SAFETRAN GCP-4000 6 TRK DUAL CASE FOR 4 TRK
020-0017120	1	11.48	6	68.88	BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
020-0017125	1	3.54	6	21.24	BLOCK TERMINAL 2 POST AAR 14.1.8 WITH 1 AAR 14.1.11
020-0021965	1	8.96	1	8.96	EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
020-0022651	1	106.29	1	106.29	PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0025595	1	20.72	1	20.72	WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
020-0053360	1	386.40	3	1159.20	CHARGER BATTERY ELC 12/20 S 20 AMP 10-19.9 VDC ROTARY SW
020-0055602	1	11.39	1	11.39	RELAY POTTER BRUMFIELD KHAU17D12-12V 160 OHMS
020-0056514	1	7.46	4	29.84	SOCKET RELAY POTTER & BRUMFIELD 27E166 NEWARK
020-0064060	1	16.12	2	32.24	PLATE MOUNTING FOR 2 TYPE KHAU RELAY SOCKETS ON GRS B1
020-0167501	1	38.36	28	1074.08	ARRESTER HYBRID LOW VOLTAGE,2, 0-30V DC OR 0-24V
020-0660077	1	603.13	1	603.13	ARRESTER GE 9L10KAC213 FOR 240 VOLT SINGLE PHASE 3 WIRE
020-0750090	1	0.10	3	0.30	NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
020-0770060	1	14.26	20	285.20	ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
020-0770105	1	22.40	8	179.20	ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
020-1000354	1	6076.25	1	6076.25	HOUSE SIGNAL 6FT X 6FT WITH PTC UPGRADE PTMW P/N 91000354
020-1940055	1	20.16	1	20.16	CONTAINER CIRCUIT PRINT 24" SCHEDULE 20 4" PVC PIPE WITH
020-2503073	1	1068.30	1	1068.30	MODULE SAFETRAN VHF COMMUNICATOR (A80276-3) USED
020-2503081	1	67.57	1	67.57	MODULE SAFETRAN ECHELON TERMINATION UNIT (A80078) USE
020-2901192	1	6.83	3	20.49	RELAY POTTER BRUMFIELD KHAU-17A12-240 12000 OHMS
020-3180290	1	4878.63	1	4878.63	KIT, SEAR II FOR REMOTE MONITORING, ALARMS & TESTING,
020-3430130	1	415.71	1	415.71	RELAY SAFETRAN 400023 500 OHMS CONTACTS 6FB HEAVY DUTY
020-3652615	1	42.71	1	42.71	RESISTOR ADJUSTABLE 0.340 TO 3.00 OHMS 2.24A 15W SAFETRAN
020-4200340	1	1.74	10	17.40	LINK TEST ASSEMBLY 1" CENTERS COMPLETE WITH INSULATED
020-4200350	1	2.06	9	18.54	LINK TEST ASSEMBLY 2-3/8" CENTERS COMPLETE WITH

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Catalog Num	Cond	Unit Price	Qty	Cost	Description
020-4201045	1	0.15	400	60.00	NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-8000067	1	14.87	2	29.74	LOCK AMERICAN H10SIGRA CSX SIGNAL PADLOCK WITH BLACK
022-8005160	1	521.80	1	521.80	KIT CDMA AND VHF RADIO MATERIAL FOR USE WITH CSX

Total Cost: $ 61,837.97

Estimate ID: 126191

Field Material List for CSX Project: IL2014043 (Effective: 05/15/2015)
INSTALL FLS&G w/GCP-4000-186th St.
Lansing, IL - DG 29.42

Catalog Num	Cond	Unit Price	Qty	Cost	Description
014-8006169	1	10.35	2	20.70	SIGN PERMANENT EMERGENCY NOTIFICATION (VEHICLE
020-0010447	1	9.83	2	19.66	BOX GROUND ROD CONNECTION ENCLOSURE COMPLETE WITH 7"
020-0010449	1	15.78	2	31.56	BOX, 9 INCH DIA. "FLOWER POT" ENCLOSURE WITH HD
020-0013686	1	75.64	4	302.56	BOOTLEG KIT CSX RAIL CONN W/15 FT 3/16 IN BDSTRAND 6/64
020-0013687	1	39.99	2	79.98	SPLICE TRACK WIRE TO BONDSTRAND (FLOWER POT KIT)
020-0013870	1	1.44	1000	1440.00	CABLE UG 5 COND NO 14 AWG SOLID C CSX SPEC SS796 SHOW
020-0013908	1	7.03	300	2109.00	CABLE UG COMPOSITE 19 CONDUCTOR INCLUDES 13
020-0052475	1	11.20	4	44.80	ARM EXTENSION 10-1/2" ALUM WITH 3/8" DIAMETER MOUNTING
020-0053220	1	2.59	300	777.00	CABLE POWER UG 3 COND NO 6 AWG, SHOW LENGTH ON EACH
020-0054075	1	963.20	2	1926.40	GATE SAVER COMPLETE WITH SHEAR PIN AND RETURN SPRING
020-0055421	1	18.61	4	74.44	BRACKET SIGN 4" OR 5" MAST W/1/2" U-BOLT FOR ALL SIGNS
020-0056181	1	46.37	2	92.74	SIGN MULTIPLE TRACK "2 TRACKS" COMPLETE WITH 2 EACH
020-0056421	1	18.61	4	74.44	BRACKET SIGN 4" OR 5" MAST FOR ALL SIGNS REQUIRING 5/8"
020-0056678	1	6295.13	2	12590.26	SIGNAL 0221-L GCWD GATE ASSY DWG SS222 INCLS ADJ 19 TO 28
020-0057275	1	1.17	600	702.00	WIRE UG TRACK TWISTED PAIR NO. 6 AWG SOLID CONDUCTOR
020-0167501	1	38.36	4	153.44	ARRESTER HYBRID LOW VOLTAGE,2, 0-30V DC OR 0-24V
020-1020095	1	1678.83	2	3357.66	PLATFORM HIGHWAY CROSSING ACCESS FOUNDATION COMPLETE
020-1040322	1	127.75	20	2555.00	BATTERY SAFT SPL165, 165 AH POCKET PLATE NICKEL CADMIUM
020-1040324	1	186.48	9	1678.32	BATTERY SAFT SPL250, 250 AH POCKET PLATE NICKEL CADMIUM
020-1040540	1	31.36	4	125.44	TRAY BATTERY FIBER CO 82687-1-P 12" WIDTH 24" LONG
020-1040550	1	45.92	1	45.92	TRAY BATTERY FIBER CO 82687-3-P 12" WIDTH 38"
020-1304014	1	6.14	38	233.32	KIT BOND, CADWELD PLUS WEB OF RAIL BOND 3/16 DIA. 4" LARGE
020-1360014	1	860.68	1	860.68	PACKAGE FOREMANS CARE FOR ALUMINUM TYPICAL BOM FOR USE
020-1360016	1	22.49	1	22.49	PACKAGE SAFETY & SECURMENT WITH 1 EA CAUTION TAG 1 EA
020-1360104	1	1670.80	1	1670.80	LAYOUT AC METER SERVICE WITH 30’ POLE CSX DWG SS351 SH 2

Field Material List for CSX Project: IL2014043 (Effective: 05/15/2015)
INSTALL FLS&G w/GCP-4000-186th St.
Lansing, IL - DG 29.42

Catalog Num	Cond	Unit Price	Qty	Cost	Description
020-2060078	1	53.00	8	424.00	BOLT 1" - 8 X 8" INCLUDES NUT AND 3 FLAT WASHERS, USE ON
020-2500448	1	78.20	2	156.40	INDUCTOR 8V617-4000 DUMMY LOAD SAFETRAN
020-2500590	1	451.58	2	903.16	SHUNT SAFETRAN P/N 6000-62775-8621 NARROW BAND
020-2500605	1	374.82	4	1499.28	SHUNT SAFETRAN 62775-86 NARROW BAND 86HZ
020-2530280	1	312.12	6	1872.72	FILTER EPC 800-080055-107 TF-86
020-3901895	1	100.52	2	201.04	TIP FLEX HWY CROSSING GATE 24 IN LONG RED & WHITE STRIPES
020-3920200	1	178.08	2	356.16	BELL GCWD ELECTRONIC 4" OR 5" MAST 8 TO 13 VOLTS DC GSI PN
020-3930010	1	3.70	2	7.40	KIT GATE ARM WARNING STICKER KIT INCLUDES 1-EA 5"X3"
020-4200340	1	1.74	51	88.74	LINK TEST ASSEMBLY 1" CENTERS COMPLETE WITH INSULATED
020-4200900	1	0.29	10	2.90	CONNECTOR SHEATHING AMP 329860 FOR NO. 14 WIRE
020-4201042	1	0.15	40	6.00	NUT HEX BINDING (RSA NUT) AAR 14.1.11-6 14-24 NS-2 THD CONE
020-4201043	1	0.12	250	30.00	NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-4201044	1	0.11	200	22.00	WASHER AAR 14.1.11 ROUND COPPER NICKEL PLATED FOR AAR
020-7300030	1	189.28	2	378.56	BRACKET BELL FITS SAFETRAN JUNCTION BOX MOUNT, 5" BENT
020-9999991	1	100.00	1	100.00	BLOCKING AND BRACING FOR PROJECTS BURCO DIST
250-0001836	1	15.21	1	15.21	BREAKER CIRCUIT SQ D QO260
360-0006100	1	35.07	1	35.07	STOOL STEP WOOD 14"X 20" SIGNAL MAINTAINERS CSXT
360-0800145	1	7.54	1	7.54	BROOM WAREHOUSE CORN HVY DUTY 1-1/8" DIA HANDLE

Total Cost: $ 37,094.79

Estimate ID: 126191

Consumables List for CSX Project: IL2014043 (Effective: 05/15/2015)
INSTALL FLS&G w/GCP-4000-186th St.
Lansing, IL - DG 29.42

Catalog Num	Cond	Unit Price	Qty	Cost	Description
N/A		500.00	1	500.00	CELLULAR MODEM RAVEN AIR LINK COMMUNICATIONS
N/A		50.00	30	1500.00	FILL MATERIAL, 1 CUBIC YARD
N/A		800.00	1	800.00	WALKWAY ROCK, 10 CUBIC YARDS
020-0017605	1	0.30	500	150.00	WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE
020-0017607	1	0.72	500	360.00	WIRE CASE TW PR NO 10 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017625	1	0.44	150	66.00	WIRE CASE TW PR NO 14 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017630	1	0.14	200	28.00	WIRE CASE NO 16 AWG FLEX CSX SPEC SS796 FURN 1000 FT SPOOL
020-0017635	1	0.80	130	104.00	WIRE SIGNAL DEL 018 NO 6 COPPER STRANDED SINGLE
020-0028610	1	0.23	100	23.00	TERMINAL RING AMP 35628 YELLOW PLASTI-BOND HVY DUTY
020-0053510	1	208.13	1	208.13	KIT 240V AC EMERGENCY GENERATOR CABLE AND
020-1360540	1	71.65	1	71.65	BREAKER MAIN/GENERATOR BACKFEED RETAINING GENERATOR
020-1710045	1	2.42	250	605.00	CONDUIT SDR 13.5 4" POLYETHYLENE TRENCHLESS
020-2060072	1	442.00	2	884.00	FOUNDATION HELICAL SCREW-IN ASSEMBLY 7’ X 10" COMPLETE
020-2060074	1	366.00	2	732.00	EXTENSION 10" X 3’ USE WITH XING GATE AND SIGNAL MAST
020-3261960	1	18.82	2	37.64	DECAL (DO NOT ORDER, CALL SIGNAL SHOP) ASSY 5" BLACK
020-3261970	1	9.41	2	18.82	DECAL ASSY 2" BLACK PRESSURE SENSITIVE VINYL PRE-MASKED
020-4168917	1	0.50	2	1.00	RESISTOR, FIXED .5W, 20W OHM (REPLACEMENT FOR INVENSYS PN
020-4200880	1	0.53	2	1.06	CONNECTOR TERMINAL 2-3/8" CENTERS AAR 14.1.15-4 NICKEL
020-4200892	1	0.44	27	11.88	CONNECTOR TERMINAL 1" CENTERS AAR 14.1.15-3 NICKEL PLATED
020-4251190	1	0.14	120	16.80	TERMINAL RING AMP 35627 BLACK PLASTI-BOND WIRE SIZE 10-12
020-4251290	1	0.53	30	15.90	TERMINAL WIRE AMP 322051 BLUE WIRE SIZE NO 6 AWG 1/4" STUD
020-4251295	1	0.53	6	3.18	TERMINAL WIRE AMP 322007 BLUE WIRE SIZE NO 6 AWG 3/8" STUD
020-9999992	1	50.00	1	50.00	HOUSE, SIGNAL HANDLING CHARGE, BURCO DISTRIBUTION
450-0019212	1	0.40	100	40.00	SCREW 10 X 1" SHT METAL PAN HD TYPE A COARSE THREAD

Total Cost: $ 6,228.06

Estimate ID: 126191