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PUCO

07-1154-RR-FED

January 21, 2008

Mr. Robert Marvin
Director of Transportation
The Public Utilities Commission of Ohio
180 East Broad St.
Columbus, OH 43215

Subject: Oregon, Wood County, OH - Replace FLS&G & GCP4000- CR 10 (East Broadway Rd.);
DOT 509 368N; Milepost QTE-7.55; OH0663

Dear Mr. Marvin:

Enclosed for you review and approval please find circuit plans and the Signal Force Account Estimate in the amount of \$154,628 for the above referenced project.

We await receipt of your further advice and /or approval of the project cost and authority to proceed.

If I can be of further assistance, please feel free to call.

Sincerely,

Mel McNichols
Principal Engineer, Public Projects

Cc: George Martin

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Technician And Date Processed 5/7/08

**CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE**

Page 1

ACCT. CODE : 709 -

ESTIMATE SUBJECT TO REVISION AFTER: 7/19/2008		DOT NO.: 509 368N
CITY: Oregon	COUNTY: Wood	STATE: OH
DESCRIPTION: Replace FLS&G & GCP4000 - CR 10 (E. Broadway Rd.)		
DIVISION: Western Division	SUB-DIV: Toledo Branch	MILE POST: QTE-7.55
AGENCY PROJECT NUMBER: 07-1154-RR-FED		

PRELIMINARY ENGINEERING:

200 Labor (Non Contract)	\$ 1,350
200 Additive 42.41%	\$ 573
230 Expenses	\$ 235
212 Contracted & Administrative Engineering Services	\$ 500
Subtotal	\$ 2,658

CONSTRUCTION ENGINEERING/INSPECTION:

200 Labor (Non Contract)	\$ -
200 Additive 42.41%	\$ -
230 Expenses	\$ -
212 Contracted & Administrative Engineering Services	\$ 500
Subtotal	\$ 500

FLAGGING SERVICE: (Contract Labor)

070 Labor (Conductor-Flagman)	\$ -
050 Labor (Foreman/Inspector)	\$ -
070 Additive 76.28% (Transportation Department)	\$ -
050 Additive 77.52% (Engineering Department)	\$ -
230 Per Diem (Engineering Department)	\$ -
230 Expenses	\$ -
Subtotal	\$ -

SIGNAL & COMMUNICATIONS WORK: (Details Attached) \$ 134,434

TRACK WORK: (Details Attached) \$ -

ACCOUNTING & BILLING:

040 Labor	\$ 1,800
040 Additive 65.54%	\$ 1,180
Subtotal	\$ 2,980

PROJECT SUBTOTAL

900 <u>CONTINGENCIES:</u> 10.00%	\$ 140,571
	\$ 14,057

GRAND TOTAL *** \$ 154,628**

DIVISION OF COST:

Agency 100.00%	\$ 154,628
Railroad	\$ -
TOTAL *****	\$ 154,628

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: Deb Baldino
DATE: 1/21/2008 REVISED:

Form Last Revised: December 19, 2006 HAG

Project Summary Sheet

**CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE**

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ACCT. CODE : 709 -
Pub EB - OH EB3 (OH)

ESTIMATE SUBJECT TO REVISION AFTER:		7/19/2008	DOT NO.: 509 368N
CITY: Oregon	COUNTY: Wood		STATE: OH
DESCRIPTION: Replace FLS&G & GCP4000 - CR 10 (E. Broadway Rd.)			
DIVISION: Western Division	SUB-DIV: Toledo Branch	MILEPOST: QTE-7.55	
DRAWING NO.: QTE00755.H01	DRAWING DATE: 1/8/2008	REGION:	
AGENCY PROJECT NUMBER: 07-1154-RR-FED			

PRELIMINARY ENGINEERING:

200	Labor (Non Contract)	5	Days @	\$ 270.00	\$	1,350
200	Additive 42.41%				\$	573
230	Expenses				\$	235
212	Contracted & Administrative Engineering Services				\$	500
	Subtotal				\$	2,658

CONSTRUCTION ENGINEERING/INSPECTION:

200	Labor (Non Contract)	0	Days @	\$ 270.00	\$	-
200	Additive 42.41%				\$	-
230	Expenses				\$	-
212	Contracted & Administrative Engineering Services				\$	500
	Subtotal				\$	500

FLAGGING SERVICE: (Contract Labor)

70	Labor (Conductor-Flagman)	0	Days @	\$ -	\$	-
50	Labor (Foreman/Inspector)	0	Days @	\$ 235.00	\$	-
70	Additive 76.28% (Transportation Department)				\$	-
50	Additive 77.52% (Engineering Department)				\$	-
230	Expenses (Engineering Department)	0	Days @	\$ 75.00	\$	-
230	Expenses	0	Days @	\$ 45.00	\$	-
	Subtotal				\$	-

COMMUNICATIONS WORK:

Temporary (Details Attached)	\$	-
Permanent (Details Attached)	\$	-
Subtotal	\$	-

**CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE**

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ACCT. CODE : 709 -
Pub EB - OH EB3 (OH)

TRACK: LABOR

50	Traffic Control	0	MAN-HRS	\$ 21.00	\$ -
50	Remove Existing Crossing	0	MAN-HRS	\$ 21.00	\$ -
50	Renew Cross Ties	0	MAN-HRS	\$ 21.00	\$ -
50	Renew Rail	0	MAN-HRS	\$ 21.00	\$ -
50	Install OTM	0	MAN-HRS	\$ 21.00	\$ -
50	Install Field Welds	0	MAN-HRS	\$ 21.00	\$ -
50	Install Geo-Textile Fabric	0	MAN-HRS	\$ 21.00	\$ -
50	Install Sub-Drains	0	MAN-HRS	\$ 21.00	\$ -
50	Install Ballast	0	MAN-HRS	\$ 21.00	\$ -
50	Line and Surface	0	MAN-HRS	\$ 21.00	\$ -
50	Install Crossing Materials	0	MAN-HRS	\$ 21.00	\$ -
50	Install Bituminous Pavement	0	MAN-HRS	\$ 21.00	\$ -
50		0	MAN-HRS	\$ 21.00	\$ -
50		0	MAN-HRS	\$ 21.00	\$ -
50	Clean-Up	0	MAN-HRS	\$ 21.00	\$ -
50	Additive 77.52%				\$ -
230	Per Diem	0	MAN-DAY	\$ 90.00	\$ -
	Subtotal				\$ -

TRACK: MATERIAL

220	Cross Ties, Main Line	0	EA	\$ 31.00	\$ -
220	Rail, 136RE, New	0	LF	\$ 17.00	\$ -
220	Misc. OTM	1	LOT	\$ -	\$ -
210	Geo-Textile Fabric	0	RL	\$ 250.00	\$ -
210	Sub-Drains	0	LF	\$ 6.00	\$ -
220	Ballast	0	NT	\$ 5.75	\$ -
220	Field Welds	0	EA	\$ 100.00	\$ -
		0		\$ -	\$ -
		0		\$ -	\$ -
210	Concrete Full Width	0	TF	\$ 225.00	\$ -
210	Concrete/Rubber Xing (CSX)	0	TF	\$ 135.00	\$ -
210	Rubber Crossing, Full Depth	0	TF	\$ 280.00	\$ -
210	Timber/Asphalt Crossing (CSX Standard)	0	TF	\$ 42.00	\$ -
220	Crossties, 10' Length	0	EA	\$ 39.00	\$ -
210	Bituminous Material	0	NT	\$ 80.00	\$ -
210	Sales Tax on Material 0.00%				\$ -
210	Material Handling 5.00%				\$ -
	Subtotal				\$ -

CONTRACT:

215	Asphalt Paving (In Place)	0	NT	\$ 120.00	\$ -
241	Disposal of Waste Materials	0	TF	\$ 10.00	\$ -
215	Maintenance of Traffic	0	DAY	\$ 300.00	\$ -
	Subtotal				\$ -

**CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE**

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ACCT. CODE : 709 -
Pub EB - OH EB3 (OH)

241	<u>EQUIPMENT RENTAL:</u>					
	Subtotal				\$	-
50	<u>WORK TRAIN:</u>	0	DAY	\$ 2,100.00	\$	-
	Subtotal				\$	-
	<u>SALVAGE:</u>					
228	Rail	0	NT	\$ 65.00	\$	-
228	OTM	0	NT	\$ 75.00	\$	-
	Subtotal				\$	-
	<u>SIGNAL WORK:</u>					
210	Material - Field & Consumables				\$	58,055
210	Material - Sales Tax				\$	-
220	Material - Shop				\$	-
60	Construction Labor				\$	17,797
65	Shop Labor				\$	800
230	Per Diem				\$	7,035
200	RR Engineering,Preliminary				\$	4,005
200	RR Engineering,Construction				\$	2,670
60	Additives to Construction Labor (67 man-days)				\$	13,797
65	Additives to Shop Labor (5 man-days)				\$	620
200	Additives to Engineering (67 man-days)				\$	2,831
241	Equipment Expense (15 work days)				\$	9,750
241	Waste Management (15 work days)				\$	180
212	Contract Engineering				\$	10,795
211	Freight				\$	3,600
216	AC Power Service				\$	2,500
228	Salvage				\$	(1)
900	Other				\$	-
	Subtotal				\$	134,434
	<u>ACCOUNTING & BILLING:</u>					
40	Labor	9	Days @	\$ 200.00	\$	1,800
40	Additive 65.54%				\$	1,180
	Subtotal				\$	2,980
	<u>PROJECT SUBTOTAL:</u>				\$	140,571
900	<u>CONTINGENCIES:</u> 10.00%				\$	14,057
	GRAND TOTAL *****				\$	154,628

CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE

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ACCT. CODE : 709 -
Pub EB - OH EB3 (OH)

DIVISION OF COST:

Agency	100.00%	\$	154,628
Railroad	0.00%	\$	-
TOTAL	*****	\$	154,628

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:

Deb Baldino

DATE: 1/21/2008

REVISED:

ACCT. CODE : 709 -

Pub EB -

OH

EB3 (OH)

ESTIMATE SUBJECT TO REVISION AFTER:

7/19/08

DOT NO.: 509 368N

CITY: Oregon

COUNTY: Wood

STATE: OH

DESCRIPTION: Replace FLS&G & GCP4000 - CR 10 (E. Broadway Rd.)

DIVISION: Western Division

SUB-DIV: Toledo Branch

MILEPOST: QTE-7.55

DRAWING NO.: QTE00755.H01

DRAWING DATE: 1/8/2008

REGION:

AGENCY PROJECT NUMBER: 07-1

Amount		
Task	Task Desc	Total
40	Labor General Office	\$2,980
50	Labor Roadway	
60	Labor Signal	\$31,594
65	Labor Signal1	\$1,420
70	Labor Transportation	
200	Labor NonContract	\$11,429
210	Invoice Material	
	Material - Field & Consu	\$58,055
211	Invoice Freight	\$3,600
212	Invoice Contract Eng	\$11,795
215	Invoice Misc	
216	Invoice Utilities	\$2,500
220	Material New	
	Material - Shop	
228	Scrap Credit	-\$1
230	ExpenseRpts	\$7,270
241	Invoice Rental	\$9,930
900	Other	
900	Contingencies	\$14,057
	Material New	
Grand Total		\$154,628

Estimate No. 113036
CSX Transportation
CR-10 (E. Broadway Rd.), Replace FLS&G & GCP4000.
Oregon, OH

DOT: 509368N

OP: OH0663

CSX Project: OH2007095

Summary

Material	\$ 58,055
Sales Tax	\$ 0
Labor:	
Construction Labor (67 man-days).....	\$ 17,797
Shop Labor (5 man-days).....	\$ 800
Subsistence (67 man-days).....	\$ 7,035
Railroad Engineering, Preliminary	\$ 4,005
Railroad Engineering, Construction	\$ 2,670
Additives to Construction Labor	\$ 13,797
Additives to Shop Labor	\$ 620
Additives to Engineering	\$ 2,831
Equipment Expenses (15 work days).....	\$ 9,750
Waste Management (15 work days).....	\$ 180
Contract Engineering	\$ 10,795
Freight	\$ 3,600
Poleline Removal	\$ 0
AC Power Service	\$ 2,500
Salvage	\$ -1

TOTAL ESTIMATE COST	\$ 134,434
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Date: 01/15/2008

Estimated By: Warren Wroten

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

Shop Material List for CSX Project: OH2007095 (Effective: 01/15/2008)
Replace FLS&G
Oregon, OH - QTE 7.55

Catalog Num	Cond	Unit Price	Qty	Cost	Description
020-0003386	1	6781.00	1	6781.00	HOUSE 6X8L ALUM INCLUDES 5 SHELF, FARADAY CLOSET, 240V
020-0016116	1	337.12	1	337.12	DRIVER MODEL TD-1A TRACK ELECTRO PNEUMATIC
020-0016117	1	203.84	1	203.84	GENERATOR MODEL ACG-2T AC ELECTRO PNEUMATIC
020-0017120	1	11.00	6	66.00	BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
020-0017125	1	3.50	6	21.00	BLOCK TERMINAL 2 POST AAR 14.1.8 WITH 1 AAR 14.1.11
020-0018234	1	30.69	1	30.69	CABLE CONVERTER PROTOCOL/MEDIA WAYSIDE ACCESS
020-0021965	1	8.96	1	8.96	EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
020-0022651	1	41.58	2	83.16	PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0022701	1	65.00	25	1625.00	ARRESTER LPC 15012-1 0-30V DC OR 0-24V AC RATED AT 15 AMP
020-0025595	1	17.42	1	17.42	WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
020-0053360	1	415.52	3	1246.56	CHARGER BATTERY ELC 12/20 S 20 AMP 10-19.9 VDC ROTARY SW
020-0053510	1	233.11	1	233.11	KIT 240V AC EMERGENCY GENERATOR CABLE AND
020-0055602	1	11.39	1	11.39	RELAY POTTER BRUMFIELD KHAU17D12-12V 160 OHMS
020-0056514	1	9.32	4	37.28	SOCKET RELAY POTTER & BRUMFIELD 27E166 NEWARK
020-0056920	1	32.69	1	32.69	RESISTOR ADJUSTABLE 0.770 TO 8.00 OHMS SAFETRAN 029603-4X
020-0064060	1	15.64	2	31.28	PLATE MOUNTING FOR 2 TYPE KHAU RELAY SOCKETS ON GRS B1
020-0660077	1	568.96	1	568.96	ARRESTER GE 9L10KAC213 FOR 240 VOLT SINGLE PHASE 3 WIRE
020-0770060	1	12.66	6	75.96	ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
020-0770105	1	22.40	1	22.40	ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
020-1940055	1	8.50	1	8.50	CONTAINER CIRCUIT PRINT 24" SCHEDULE 20 4" PVC PIPE WITH
020-2503079	1	477.60	2	955.20	MODULE SAFETRAN GROUND FAULT DETECTOR (A80297-2) USED WITH
020-2503090	1	839.79	1	839.79	CONVERTER PROTOCOL/MEDIA WAYSIDE ACCESS GATEWAY (WAG)
020-2503200	1	768.82	1	768.82	KIT SAFETRAN GCP-4000 ILOD PKG. FOR USE WITH SEAR-III
020-2503202	1	1064.85	1	1064.85	KIT SAFETRAN GCP-4000 KEY DOWN PACKAGE ADDS REMOTE KEY
020-2503268	1	9882.80	1	9882.80	PREDICTOR SAFETRAN GCP-4000 EXTERNAL TRACK ONLY

Shop Material List for CSX Project: OH2007095 (Effective: 01/15/2008)
 Replace FLS&G
 Oregon, OH - QTE 7.55

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-2901190	1	11.39	3	34.17 RELAY POTTER BRUMFIELD KHAU17A12-120 3900 OHMS
020-3430130	1	316.80	1	316.80 RELAY SAFETRAN 400023 500 OHMS CONTACTS 6FB HEAVY DUTY
020-3430150	1	272.25	1	272.25 RELAY SAFETRAN 400510 2.0 OHMS CONTACTS 4FB-2F-1B CSX
020-3650044	1	33.86	1	33.86 RESISTOR ADJUSTABLE 1.530 TO 16.00 OHMS SAFETRAN 029603-7X
020-3652615	1	30.36	1	30.36 RESISTOR ADJUSTABLE 0.340 TO 3.00 OHMS 2.24A 15W SAFETRAN
020-4200100	1	6.04	2	12.08 CONNECTOR BUS 1" CENTERS 1/2" X 36" 18 GAGE PUNCHED 1/4" X
020-4200340	1	1.42	6	8.52 LINK TEST ASSEMBLY 1" CENTERS COMPLETE WITH INSULATED
020-4200350	1	2.04	14	28.56 LINK TEST ASSEMBLY 2-3/8" CENTERS COMPLETE WITH
020-8000067	1	14.49	2	28.98 LOCK AMERICAN H10SIGRA CSX SIGNAL PADLOCK WITH BLACK
022-8005160	1	586.77	1	586.77 KIT CDMA AND VHF RADIO MATERIAL FOR USE WITH CSX
Total Cost: \$				26,306.13

Field Material List for CSX Project: OH2007095 (Effective: 01/15/2008)
Replace FLS&G
Oregon, OH - QTE 7.55

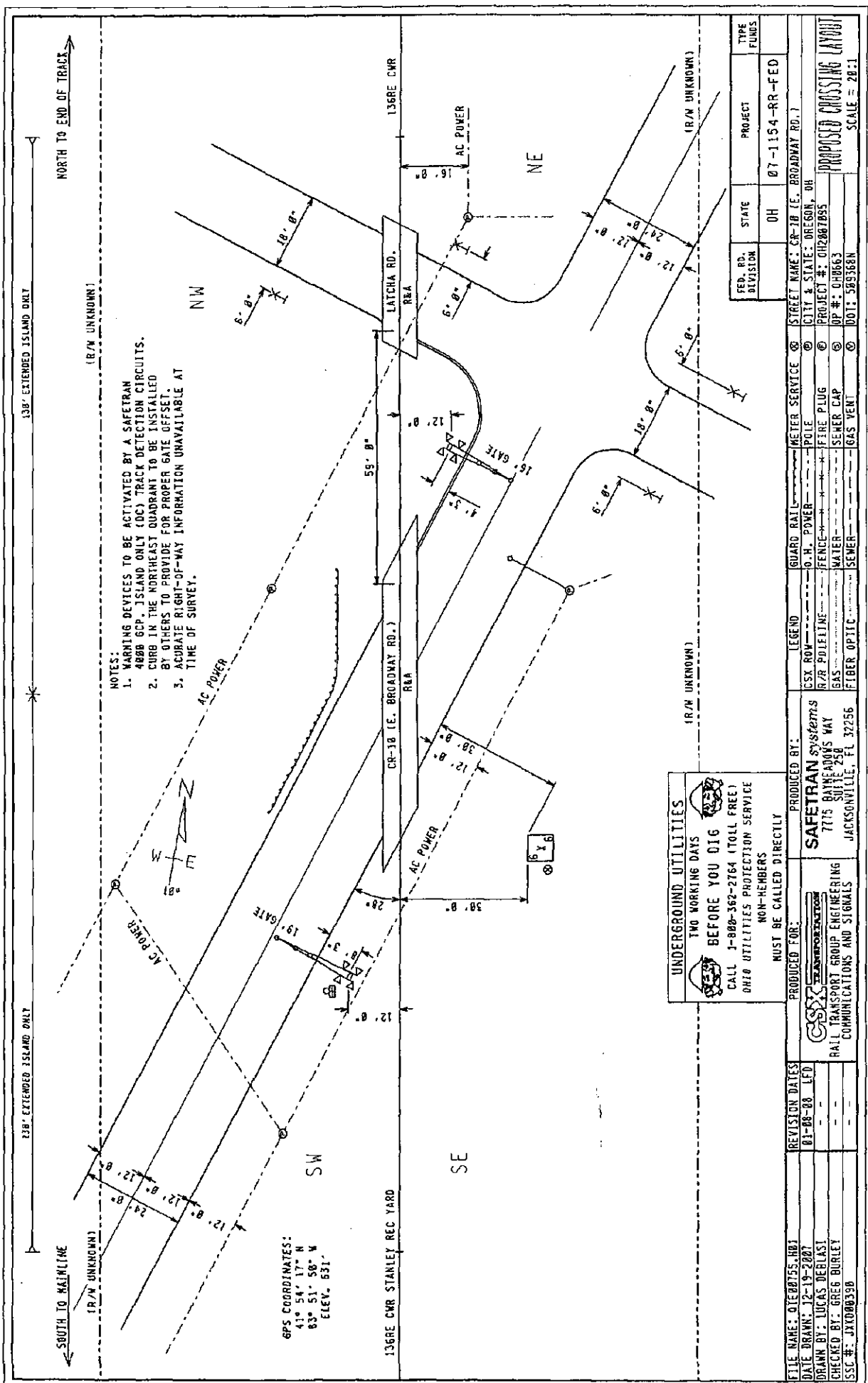
Catalog Num	Cond	Unit Price	Qty	Cost	Description
013-5000070	1	222.00	4	888.00	JOINT INSULATED ENCAPSULATED 132RE-136RE 36-1/2" LONG 6" X
020-0013475	1	1.94	30	58.20	CONNECTOR TRACK "CHICKEN HEAD" WITH 3/16" BOND STRAND
020-0013908	1	6.72	450	3024.00	CABLE UG COMPOSITE 19 CONDUCTOR INCLUDES 13
020-0016115	1	115.36	1	115.36	RECTIFIER TRACK CIRCUIT EPC 800-004080-000 MODEL RING-10
020-0025143	1	28.00	1	28.00	PLATE SHUNT HOLDER CSX SK SS91-02 STEEL PLATE 20 IN SQ
020-0052475	1	11.20	4	44.80	ARM EXTENSION 10-1/2" ALUM WITH 3/8" DIAMETER MOUNTING
020-0053065	1	3.32	25	83.00	BOND HEAD OF RAIL TRACK CONNECTOR 3/16" X 6-1/2"
020-0053220	1	2.43	150	364.50	CABLE POWER UG 3 COND NO 6 AWG, SHOW LENGTH ON EACH
020-0054073	1	161.70	1	161.70	BRACKET ASSY GATE ARM CONVERSION INCLS BRKT MTG
020-0054075	1	1052.70	1	1052.70	GATE GARD NORMAL MOVEMENT COMPLETE WITH SHEAR PIN AND
020-0055421	1	18.61	6	111.66	BRACKET SIGN 4" OR 5" MAST W/1/2" U-BOLT FOR ALL SIGNS
020-0056674	1	4930.84	1	4930.84	SIGNAL 0220-L GCWD GATE ASSY DWG SS222 INCLS 18 FBRGL ARM
020-0056678	1	5082.44	1	5082.44	SIGNAL 0221-L GCWD GATE ASSY DWG SS222 INCLS ADJ 19 TO 28
020-0057275	1	1.13	200	226.00	WIRE UG TRACK TWISTED PAIR NO. 6 AWG SOLID CONDUCTOR
020-1040322	1	168.00	30	5040.00	BATTERY SAFT SPL165, 165 AH POCKET PLATE NICKEL CADMIUM
020-1040540	1	26.88	4	107.52	TRAY BATTERY FIBER CO 82687-1-P 12" WIDTH 24" LONG
020-1040550	1	39.20	1	39.20	TRAY BATTERY FIBER CO 82687-3-P 12" WIDTH 38"
020-1150750	1	0.77	40	30.80	BOND STRAND 3/16" DIA 7 STRANDS OF 19 STR EACH 6 WITH
020-1153550	1	2.74	2	5.48	CLIP TRACK WIRE RETAINER UNIVERSAL RAIL BASE WRAP
020-1360014	1	742.10	1	742.10	PACKAGE FOREMANS CARE FOR ALUMINUM TYPICAL BOM FOR USE
020-1360016	1	20.60	1	20.60	PACKAGE SAFETY & SECURMENT WITH 1 EA CAUTION TAG 1 EA
020-1360104	1	1379.66	1	1379.66	LAYOUT METER SERVICE WITH 30' POLE CSX DWG SS351 SH 2 ITEMS
020-2503077	1	369.08	1	369.08	BELL SAFETRAN ELECTRONIC BELL AND SENSOR UNIT (A80301-2)
020-2503078	1	114.39	2	228.78	MODULE SAFETRAN GATE TIP SENSOR (A80281-2) USE WITH
020-2503092	1	20.93	2	41.86	KIT GATE TIP SENSOR RETAINING BRACKET INSTALLATION KIT,

Field Material List for CSX Project: OH2007095 (Effective: 01/15/2008)
Replace FLS&G
Oregon, OH - QTE 7.55

Catalog Num	Cond	Unit Price	Qty	Cost	Description
020-3262360	1	0.83	2	1.66	SCREW LAG 1/2" X 4-1/2" FETTER DRIVE LAG HOT DIP GALV
020-3901895	1	84.00	2	168.00	TIP FLEX HWY CROSSING GATE 24 IN LONG RED & WHITE STRIPES
020-3930010	1	3.70	2	7.40	KIT GATE ARM WARNING STICKER KIT INCLUDES 1-EA 5"X3"
020-4200340	1	1.42	29	41.18	LINK TEST ASSEMBLY 1" CENTERS COMPLETE WITH INSULATED
020-4200900	1	0.22	6	1.32	CONNECTOR SHEATHING AMP 329860 FOR NO. 14 WIRE
020-4201042	1	0.20	40	8.00	NUT HEX BINDING (RSA NUT) AAR 14.1.11-6 14-24 NS-2 THD CONE
020-4201043	1	0.18	250	45.00	NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-4201044	1	0.10	200	20.00	WASHER AAR 14.1.11 ROUND COPPER NICKEL PLATED FOR AAR
020-9999991	1	100.00	1	100.00	BLOCKING AND BRACING FOR PROJECTS BURCO DIST
250-0001827	1	13.49	1	13.49	BREAKER CIRCUIT SQ D QO235
360-0006100	1	34.32	1	34.32	STOOL STEP WOOD 14"X 20" SIGNAL MAINTAINERS CSXT
360-0800145	1	4.19	1	4.19	BROOM WAREHOUSE CORN HVY DUTY ID300
Total Cost: \$				24,620.84	

Consumables List for CSX Project: OH2007095 (Effective: 01/15/2008)
Replace FLS&G
Oregon, OH - QTE 7.55

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	40	2000.00 FILL MATERIAL, 1 CUBIC YARD
N/A		800.00	1	800.00 WALKWAY ROCK, 10 CUBIC YARDS
020-0017605	1	0.28	350	98.00 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE
020-0017607	1	0.67	500	335.00 WIRE CASE TW PR NO 10 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017625	1	0.40	150	60.00 WIRE CASE TW PR NO 14 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017630	1	0.12	200	24.00 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	0.41	100	41.00 TERMINAL RING AMP 35628 YELLOW PLASTI-BOND HVY DUTY
020-1710045	1	2.81	250	702.50 CONDUIT SDR 13.5 4" POLYETHYLENE TRENCHLESS
020-2060072	1	666.40	2	1332.80 FOUNDATION HELICAL SCREW-IN ASSEMBLY 7' X 10" COMPLETE
020-2060074	1	476.00	2	952.00 EXTENSION 10" X 3' USE WITH XING GATE AND SIGNAL MAST
020-3261970	1	9.41	2	18.82 DECAL ASSY 2" BLACK PRESSURE SENSITIVE VINYL PRE-MASKED
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	0.47	120	56.40 TERMINAL RING AMP 35627 BLACK PLASTI-BOND WIRE SIZE 10-12
020-4251290	1	0.56	30	16.80 TERMINAL WIRE AMP 322051 BLUE WIRE SIZE NO 6 AWG 1/4" STUD
020-4251295	1	0.60	6	3.60 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	0.20	100	20.00 SCREW 10 X 1" SHT METAL PAN HD TYPE A COARSE THREAD
Total Cost: \$				7,127.86



FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
OH	07-1154-RR-FED		

FILE NAME: Q1E00755.H01	REVISION DATES:	PRODUCED BY:	LEGEND:	GUARD RAIL:	METER SERVICE:	STREET NAME:
DATE DRAWN: 12-19-2007	01-08-08 LFD	SAFETRAN Systems	CSX ROW ---	O.H. POWER ---	POLE ---	CR-18 (E. BROADWAY RD.)
DRAWN BY: LUCAS DERLASH		7715 BAYNEARDS WAY	R/W POLYLINE ---	FENCE ---	FIRE PLUG ---	CITY & STATE: OREGON, OH
CHECKED BY: GREG BURLEY		SUITE 250	GAS ---	WATER ---	SEWER CAP ---	PROJECT #: 012007055
SSC #: JYX000390		JACKSONVILLE, FL 32256	FIBER OPTIC ---	SEWER ---	GAS VENT ---	UP #: 018663

INDEX

CONTENTS

SH. NO.	REVISION NO.	REVISION NO.								
		1	2	3	4	5	6	7	8	9
SB1	INDEX AND REVISIONS									
SB2	TRACK AND SIGNAL PLAN									
PB1	MINIMUM PROGRAM STEPS REPORT CNE-SS									
EP1	POWER DISTRIBUTION									
CB1	RECORDING/TESTING DEVICE CONSIST CNE-SS									
CB2	DETECTION CIRCUITRY CNE-SS									
CB3	RECORDING/TESTING CIRCUITRY CNE-SS									
CB4	CROSSING WARNING DEVICE GATE CIRCUITRY									
CB5	CROSSING WARNING DEVICE LIGHT CIRCUITRY									
CB6	CROSSING WARNING DEVICE CIRCUITRY									
CB7	SEAR III CONFIGURATION & FUNCTIONS									

☒ = PLANS SENT TO FIELD (DISTRIBUTED)
☐ = PLANS AS-1W-SERVICED (UP TO DATE)

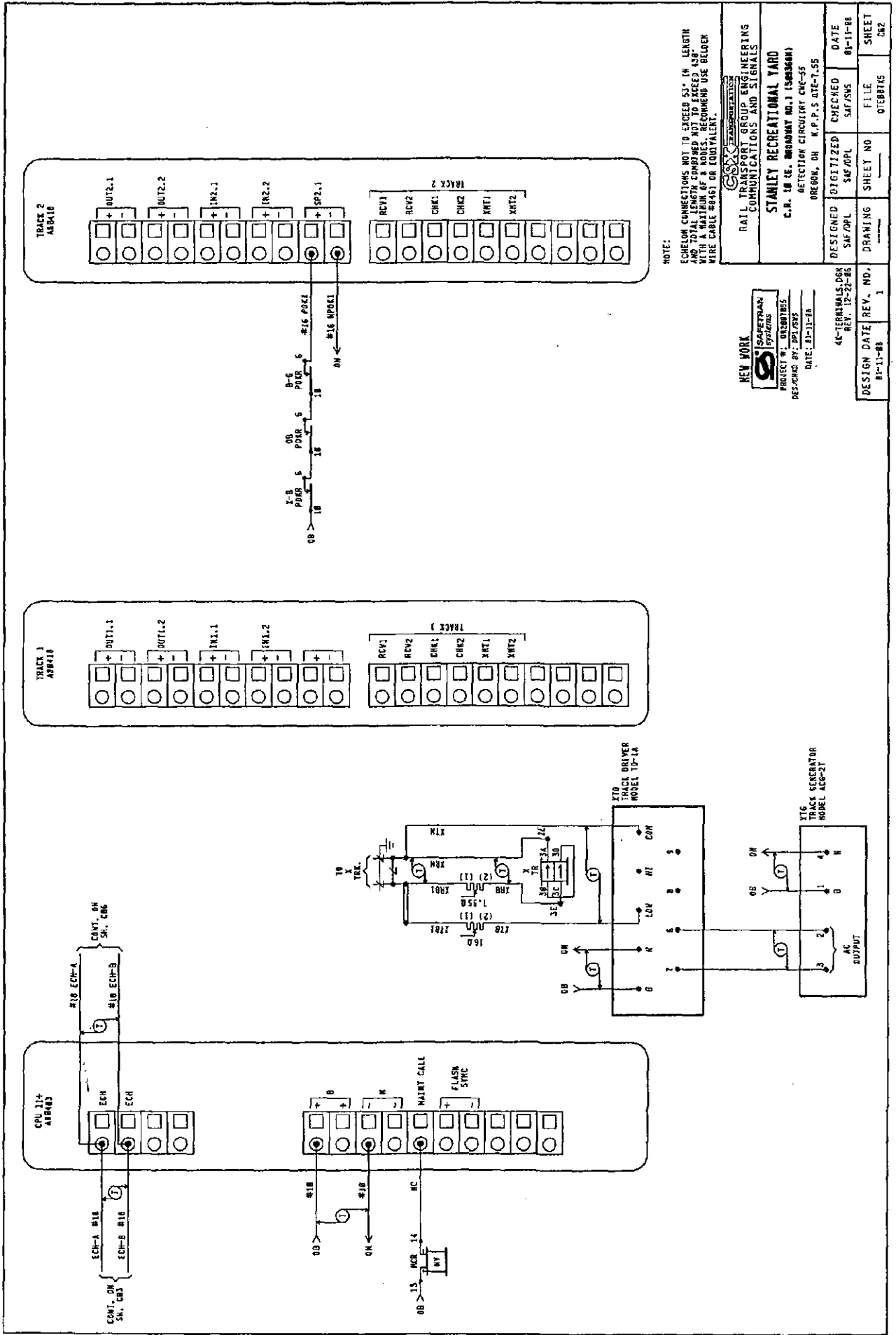
REVISIONS			
REV. NO.	PROJECT NO.	DESIGN DATE	IN SERVICE DATE
1	00-087895	81-11-88	

TO BE COMPLETED ON A.I.S.

HAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS STANLEY RECREATIONAL YARD C.R. 10 (E. BRIDGWAY RD. 1) (S4836881) INDEX AND REVISIONS OREGON, OH. N.P.S. QIC-7.55			
DESIGNED	DIGITIZED	CHECKED	DATE
SAF/DPL	SAF/DPL	SAF/MS	81-11-88
DRAWING	SHEET NO.	FILE	SHEET
		QIC68815	181

NEW WORK
 90
 PROJECT NO: 00-087895
 DESIGNER: B.T. BRIDGES
 DATE: 81-11-88

DESIGN DATE	REV. NO.
81-11-88	1



NEW WORK

SAFETRAIN
SYSTEMS

PROJECT NO. 012801815
DESIGNED BY: JPT/JSB
DATE: 8-11-88

RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

STANLEY RECREATIONAL YARD

C.R. 10 (E. MOUNTAIN NO. 1) 1503364M1
DETECTION CIRCUITRY CAC-35
OREGON, OR R.P.S. ATE-7-55

DESIGNED
SAF/PL

DIGITIZED
SAF/PL

CHECKED
SAF/PL

DATE
08-11-88

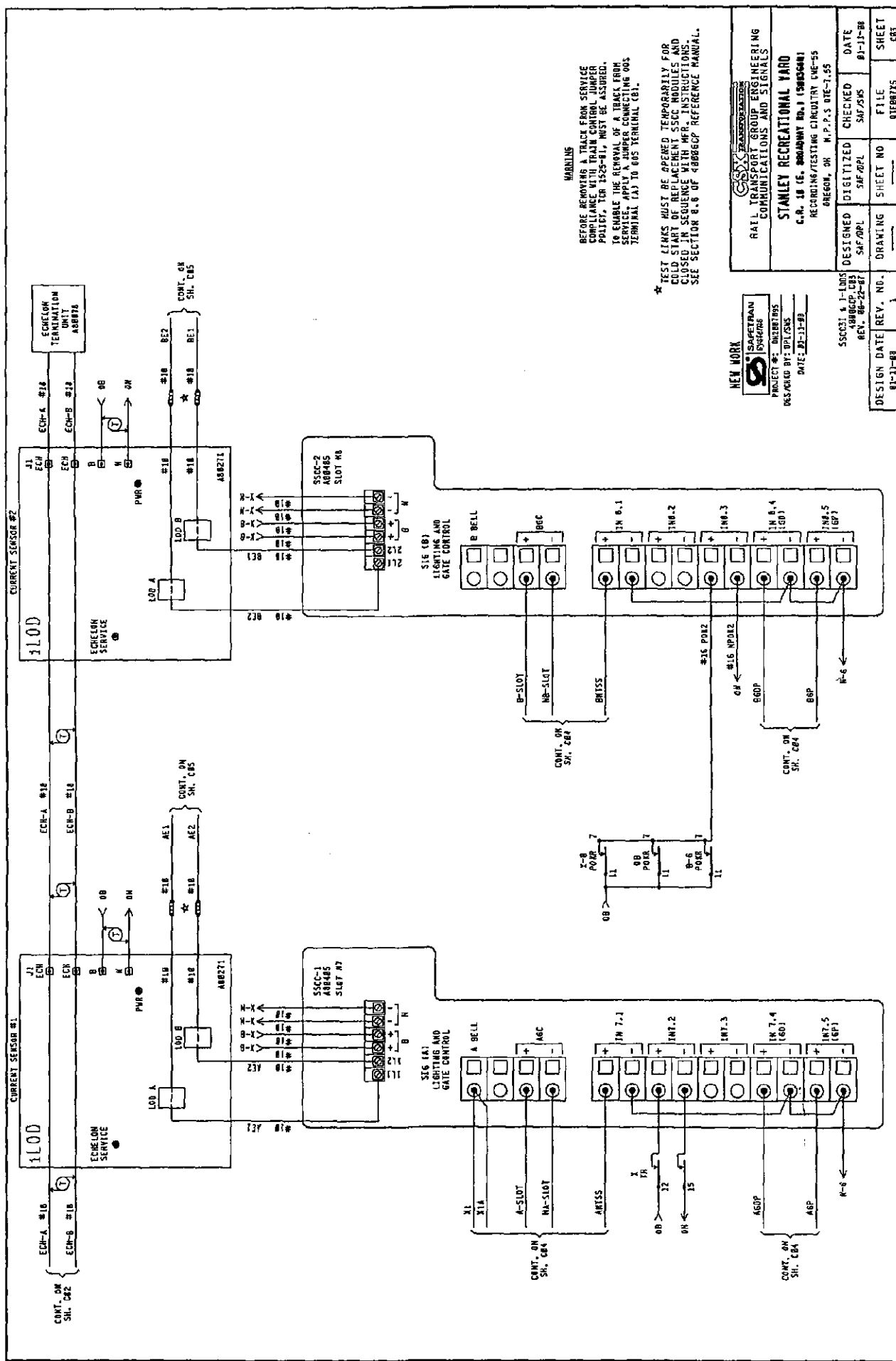
4C-TERMINALS, DGN
REV. 12-22-86

DESIGN DATE
8-11-88

REV. NO.
1

DRAWING
012801815

SHEET
082



WARNING

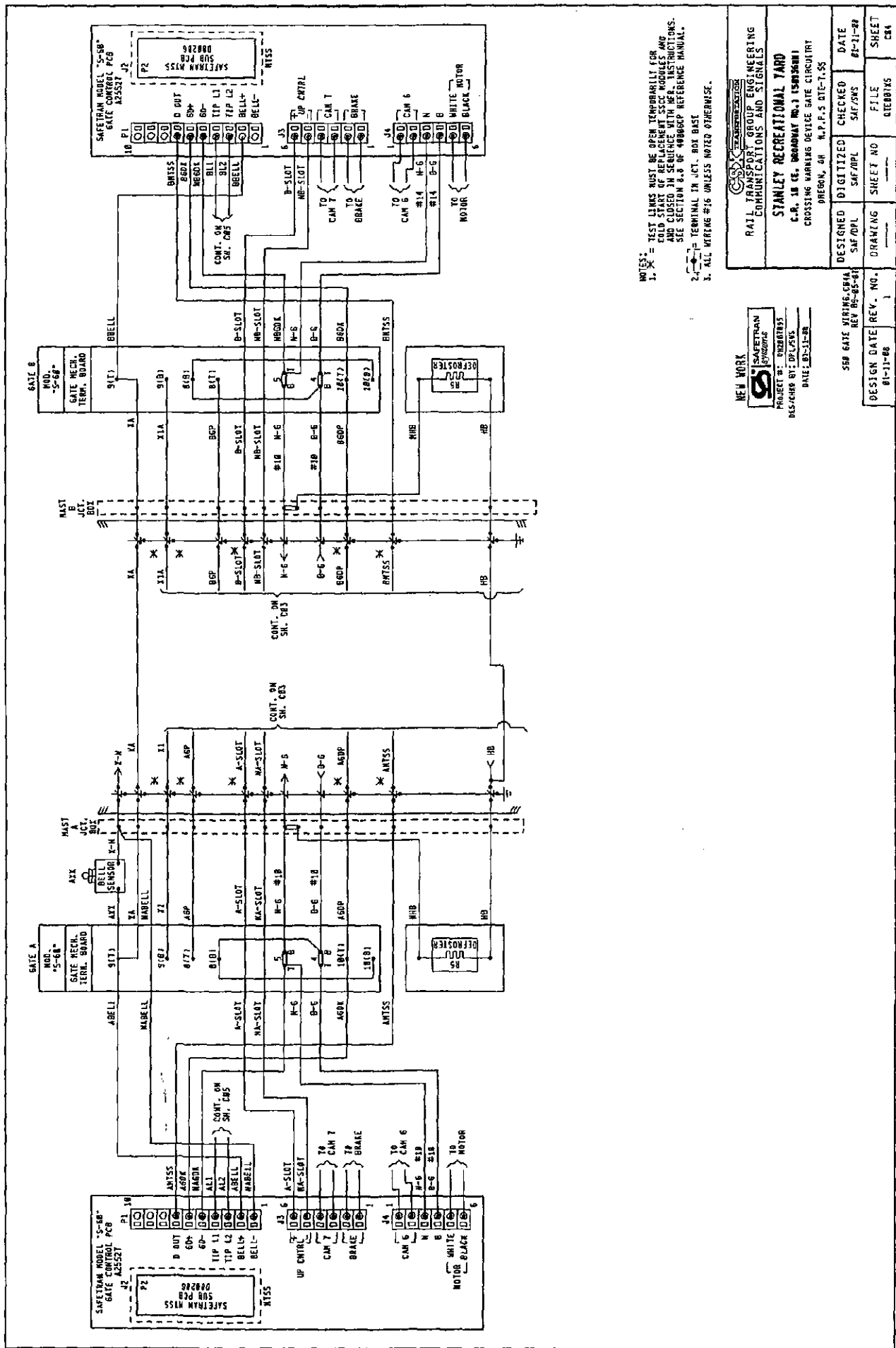
BEFORE REMOVING A TRACE FROM SERVICE COMPLIANCE WITH TRAIN CONTROL JUMPER POLICY, TCR 1525-B1, MUST BE ASSURED. TO ENABLE THE REMOVAL OF A TRACE FROM SERVICE, APPLY A JUMPER CONNECTING 005 TERMINAL (A) TO 005 TERMINAL (B).

★ TEST LINKS MUST BE OPENED TEMPORARILY FOR COLD START OF REPLACEMENT SSCC MODULES AND CLOSED IN SEQUENCE WITH MFR. INSTRUCTIONS. SEE SECTION 8.6 OF 48886CP REFERENCE MANUAL.

NEW WORK

SAFETYMAN
PROJECT # 012807105
DESIGNED BY: DPL/SMS
DATE: 02-13-80

RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS		DESIGNED	CHECKED	DATE
STANLEY RECREATIONAL VARD		SAF/OP	SAF/SMS	01-13-80
C.R. 10 16, BROADWAY RD. J (SWISSCARI)		DIGITIZED	SHEET NO	SHEET
RECORDING/TESTING CIRCUITRY CUE-55		SAF/OP	FILE	012807105
ONEIDA, OR M.P.S. DIE-7.55		DRAWING	REVISIONS	CBS
SSCC-1 & 2-1005		REV. NO.	1	
48886CP.CBS		DESIGN DATE	02-13-80	
REV. 00-22-87				



NOTES:
 1. TEST LINES MUST BE OPEN TEMPORARILY FOR COLD START OF RELAY AND MOTOR. AND CLOSED IN SEQUENCE WITH MFR. INSTRUCTIONS. SEE SECTION 8.8 OF 48860P REFERENCE MANUAL.
 2. TERMINAL IN JCT. BOX MUST
 3. ALL WIRING #16 UNLESS NOTED OTHERWISE.

NEW WORK
 SAFETRAM
 PROJECT BY: ORZATISS
 DES/CHKD BY: DPL/AS
 DATE: 03-11-88

RAIL TRANSPORT GROUP ENGINEERING
 COMMUNICATIONS AND SIGNALS

STANLEY RECREATIONAL YARD
 C.R. 10 CE. ROADWAY NO. 1 1501501
 CROSSING WARNING DEVICE GATE CIRCUITRY

DESIGNED	DIGITIZED	CHECKED	DATE
SF/DPL	SF/DWS	SF/DWS	01-21-88
DRAWING	SHEET NO	FILE	SHEET
1	---	01001015	001

DESIGN DATE	REV. NO.
01-11-88	1

588 GATE WIRING DATA	REV 05-85-01
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