

FILE

24

WHEELING & LAKE ERIE RAILWAY COMPANY

Dan Reinsel
Signal & Communication Supervisor

100 East First Street
Brewster, OH 44613

Tel. 330-767-7202

dreinsel@wlerwy.com

Fax: 330-767-3213

27 July 2009

Mr. George Martin
PUCO Railroad Section
180 East Broad Street
Columbus, OH 43215-3793

09-331-RR-FED

RE: Estimate for W. North Street. DOT 002-132C

Dear Mr. Martin,

Accompanying this letter are engineering drawings and a material list for the W. North Street crossing project. I will await approval from the PUCO/ORDC before ordering the materials. Estimated cost of crossing system:

Material Package	\$95,000.00
Installation Labor (not to exceed)	\$35,000.00
Installation of conduits/bores	\$6,000.00
Stone Fill	\$1,500.00
Hauling (fill and debris removal)	\$1,100.00
Curb & Roadway modifications	\$10,000.00
Electric service	\$3,300.00
Est. Total	\$151,900.00

PUCO

2009 JUL 28 PM 2:59

RECEIVED-DOCKETING DIV

Respectfully,

Dan Reinsel

Dan Reinsel

c: PUCO Docketing

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business
Technician Mr Date Processed 7/28/09

Qty	Part Number	Vendor Name	Category	Description
2	18145706	Reynolds	Battery	Battery, 250 NiCad
19	SP-250	SART	Battery	Battery, SPL 250 NiCad
3	027003-001	BA	Battery	Tray, Holds 4, 12" x 27"
1	027003-001	BA	Battery	Charger, LECTRA 2V, 20 AMP
2	407141V	RECO	Bonding	Bond, Joint Head, 3/16 x 7/12 x 5 (min order is 100)
100	SR52483	ETCO	Bonding	Bond, Joint Head, 3/16 x 7/12 x 5 (min order is 100)
1	18047	PTM	Bonding	Bond, Joint Head, 3/16 x 7/12 x 5 (min order is 100)
1	MUTCD Blue 30x30	The Sign Company	Bungalow	Sign, Emergency Notification, Blue 30" x 30"
2	MUTCD Blue 30x18	The Sign Company	Bungalow	Sign, Emergency Notification, Blue 30" x 18"
2	HAY00615W-UT	HAX	Cable	Boatleg, HAX Bootleg Kit for under track
2	44X07815N-HV5	HAX	Cable	Boatleg, HAX Bootleg Kit for under track
750	1058-02	GETS	Cable	House Wire, #10, Blue
750	0127892-002	GETS	Cable	House Wire, #16, Blue
50	N69M	Reynolds	Cable	House Wire, #6 Black, Insulated, THHN, Battery Lead Wire
50	N69M	Reynolds	Cable	House Wire, #6 Green, Insulated, THHN, Battery Lead Wire
30	REGOR/55MX	Reynolds	Cable	House Wire, #6 Red, Insulated, THHN, Battery Lead Wire
250	1094-02	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
100	012243-209	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
250	1023-01	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	91160-0101	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	91170-1	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	950204-001C	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	967-8020	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	042003-113	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	07055-232865	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	071367-4X	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	035200-X	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	EB-3965	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	070-0065	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
8	070-5005	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
8	070-5003	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	80093-2433	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	07000-W00090	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	15K-1001	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	2020-001-01	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
2	070519-X270	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
1	110-A-8	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933
100	BAJERS	GETS	Cable	Underground, 2c/6 TWIS, Okonite #150-12-9933

2 SBGR1616	Erico	Grounding	One Shot 6-8, for 5/8" Ground Rod, 1 Input (min order is 6)
4 SBN11616	Erico	Grounding	One Shot 6-8, for 5/8" Ground Rod, 3 Inputs (min order is 6)
6 615380	Erico	Grounding	Rod, Copper, 5/8" x 6' (min order is 5)
1 250844-2B01	GETS	MISC	Repeater, NOAXD, includes (2) SIM, (2) RVD, (2) 44Hz RS, (1) ITLM, (1) BMM, (1) JPK
5 1C347	Carlton Bates	MISC	Locks, Master - Keyed WLE
2 808-1000	Allied	MISC	Sensor, Hermetic Switch, Door Switch
2 808-1020	Allied	MISC	Actuator, Hermetic Switch, Door Switch
6 12005001	Rebel	MISC	Detector, 1/4" 89g
16 013986-000	GETS	Power	Insulated Nut
1 1110-7D	WCH	Resistor	Adjustable, 569 ohm
1 250849-004	GETS	Shunt	FSS-1E (Fred 211, 285, 346, 430, 525 Hz)
250 P93752VW72	Reynolds	Tag	Brady Label, 2" x 0.645", Heat Shrink for Wire Labeling (1000 per roll)
3 220-0301	Rebel	Terminal Block	Terminal Block, 2-3/8" Center 2 Post w/ Flat Washer and Nut
2 1220-0507	Rebel	Terminal Block	Connector, 2-3/8" Straight
1 220-0516	Rebel	Terminal Block	Link Test 2-3/8"
6 220-0300	Rebel	Terminal Block	Terminal Block, 206 W/O Hardware
100 220-0000	Rebel	Terminal Block	Nut, AAR, Crown
50 220-0003	Rebel	Terminal Block	Nut, AAR, Flat
100 220-0003	Rebel	Terminal Block	Washer, AAR, Flat
50 220-0008	Rebel	Terminal Block	Nut, 6-6/8" Gold Test
2 022700-1X	Safertan	Terminal Block	Equalizer, Heavy Duty
10 022615-1X	Safertan	Terminal Block	Adapter, Heavy Duty, Lightning
6 B2700042C1W4	Erico	Terminal Block	Terminal Block, Kit w/ AAR Hardware
150 NCT14	Vantex	Terminal Block	Terminal Ring, 1/4", 16-12 Gauge, Yellow (pack of 100)
150 N814	Vantex	Terminal Block	Terminal Ring, 1/4", 16-16 Gauge, Blue (pack of 100)
8 T6-14N	Vantex	Terminal Block	Terminal Ring, 1/4", 6 Gauge, Blue
50 220-0509	Rebel	Terminal Block	Link Test Straight

WEST

BLDG.

PRIVATE DRIVE

UTILITY POLE

SEE APPENDIX SHEET FOR DETAILS ON GATE #2 PLACEMENT.

- NOTE:
1. "ELECTRONIC" ISLAND WIDTH NO LESS THEN 120 FT.
 2. ISLAND WIRES NO LESS THEN 50 FT. FROM EDGE OF ROADWAY.
 3. EQUIPMENT SET TO COMPLY WITH MUTCD STANDARDS.
 4. ELECTRIC SERVICE POLE PLACED SO AS NOT TO INTERFERE WITH GATE MOVEMENT.
 5. CURB WORK TO COMPLY WITH CITY OF AKRON STANDARDS.



NORTH STREET

GRASS STRIP

SIDEWALK

SIDEWALK REALIGNED FOR GATE CLEARANCE

A/C SERVICE POLE

GRASS STRIP

SIDEWALK

GRASS STRIP

SIDE WALK

SIDEWALK

GRASS STRIP

EAST TO BRITAIN

BUNGALOW

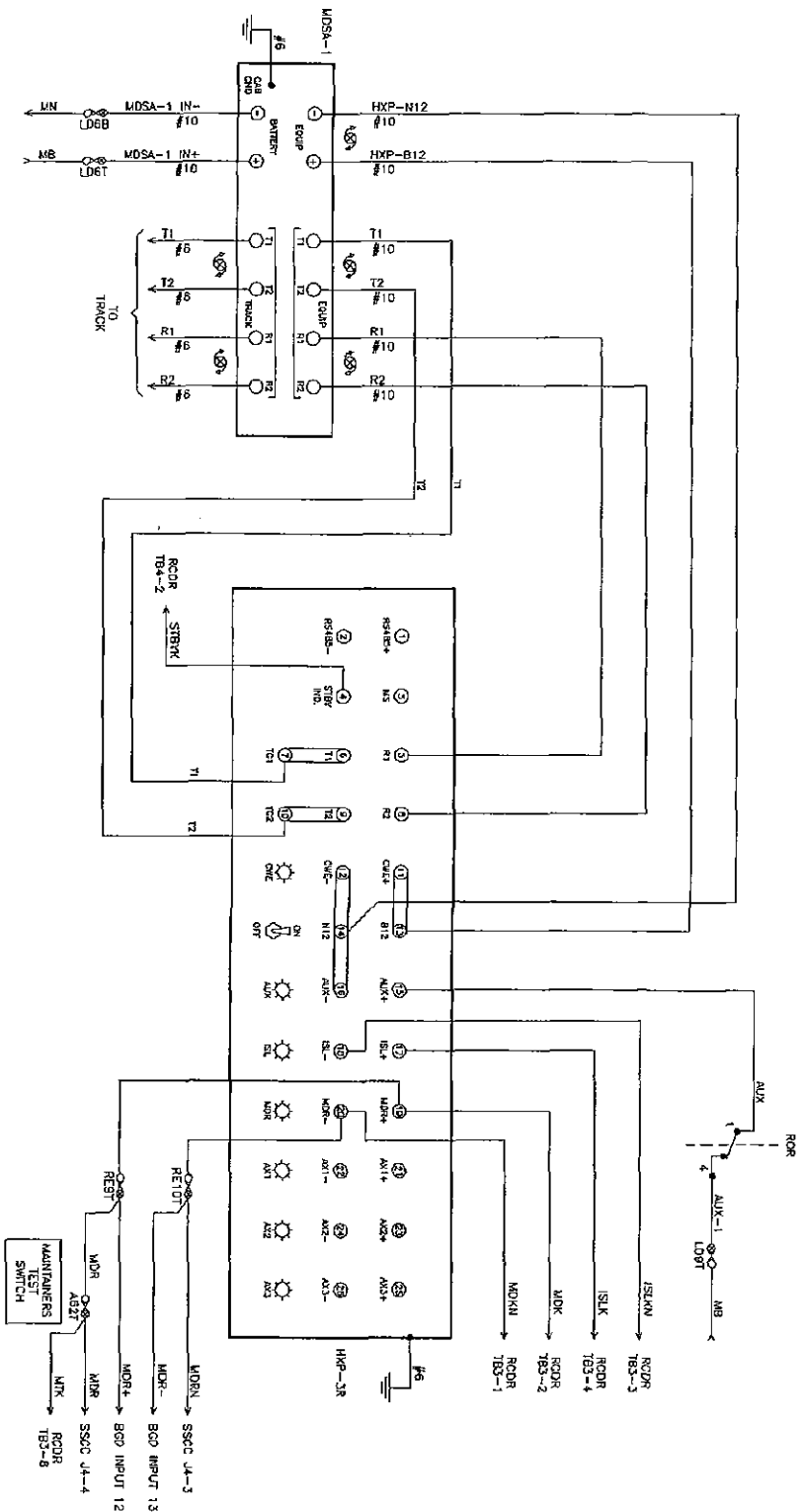
APPROACH AND WARNING TIME CALCULATION	
MINIMUM WARNING TIME	20 SEC
PLUS CLEARANCE TIME (CS)	2 SEC
PLUS BUFFER TIME	5 SEC
TOTAL WARNING TIME	27 SEC
TOTAL WARNING TIME	27 SEC
PLUS EQUIPMENT RESPONSE	5 SEC
PLUS ADVANCE FREQUENCY	NA SEC
TOTAL APPROACH TIME	32 SEC
MAXIMUM TRAIL SPEED	20 MPH
THUS RATION OF FT/SEC TO MPH	1.467
TOTAL APPROACH DISTANCE	837 FT.

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2761 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

W&L

Whooling & Lano Eto
Railway

LOCATION	WEST NORTH STREET	AKRON, OHIO
PROJECT NO.	07/21/2009	LAYOUT
DATE	07/21/2009	DATE
BY	AKRON	BY
APP'D	A - 161.3	APP'D
CHECKED	007-M-002-1225	CHECKED
SCALE	N.T.S.	SCALE
SHEET	01 OF 18	SHEET



Whooling & Lato ETO Railway		LOCATION WEST NORT STREET AKRON, OHIO	
		DATE 07/21/2009	
DESIGNED BY J. A. - 161.3	CHECKED BY J. A. - 161.3	DATE 07/21/2009	BY J. A. - 161.3
PROJECT CROSSING CONTROL CIRCUITS		SCALE N.T.S.	CD OF 18

PROGRAM INFORMATION

* - FIELD ADJUSTMENT TO BE MADE ACCORDING
TO THE HWP-3 INSTRUCTION MANUAL.

HWP-3R ADJUSTMENTS

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	8.37	
2	WARNING TIME	3/2 SEC	
3	TLX	*	
4	TO	*	
5	MO RESTART	0	

OPTION ADJUSTMENTS

NO.	ABBREVIATION	TRACK 1	TRACK 2
1	TK-EVA	UP	
2	TK-FO	525 HZ	
3	OW/ND	G	
4	UNL-B	B (8)	
5	NBS-G	*	
6	CWENT	DL (90 SEC.)	
7	LOS	DL (16 SEC.)	
8	U-LOS	DL (3 SEC.)	
9	BC	135 *	
10	P-COMP	*	
11	AX1	N/A	
12	AX2	N/A	
13	AX3	N/A	
14	MDR-AX	N/A	
15	MDR-AX	N/A	
16	OF-TK 1 OR 2	DL (0)	
17	CI-LOS	DL (0)	
18	PI-DET	DL (15)	
19	PI-RX	DL (10)	
20	MD-TIR	DL (0)	
21	MAN-RT	DL (0)	
22	FS-DET	DL (0)	
23	FS-RX	DL (0)	
24	FS-TU	DL (10)	
25	POS-ST	DL (0)	
26	POS-RX	DL (0)	
27	POS-TU	DL (0)	
28	AR-TIR	DL (0)	
29	AR-RX	DL (0)	
30	AR-TU	DL (10)	
31	AO-RX	UP	
32	PF-EVA	DL *	

NOTES FOR 56 AND 57:

- 1) ACTUATOR 1 SELECTS NORMAL APPROACH WHEN SET TO ON POSITION.
- 2) WITH ACTUATOR 1 IN OFF POSITION ACTUATOR 2 SELECTS SHORT APPROACH WHEN OFF AND SELECTS VERY SHORT WHEN ON.
- 3) ACTUATOR 3 AND 4 RESERVED FOR FUTURE USE.

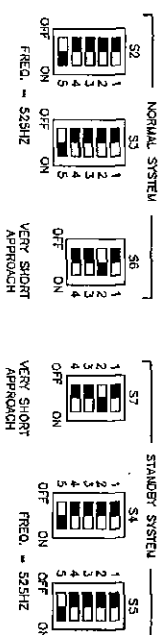
AX ADJUSTMENTS

NO.	ABBREVIATION	AX 1	AX 2	AX 3
1	TK-ASN			
2	OF-TK1			
3	OF-TK2			
4	WT			
5	UN-RST			
6	CW/ND			
7	CI-LOS			
8	PI-DET			
9	PI-RX			
10	POS-ST			

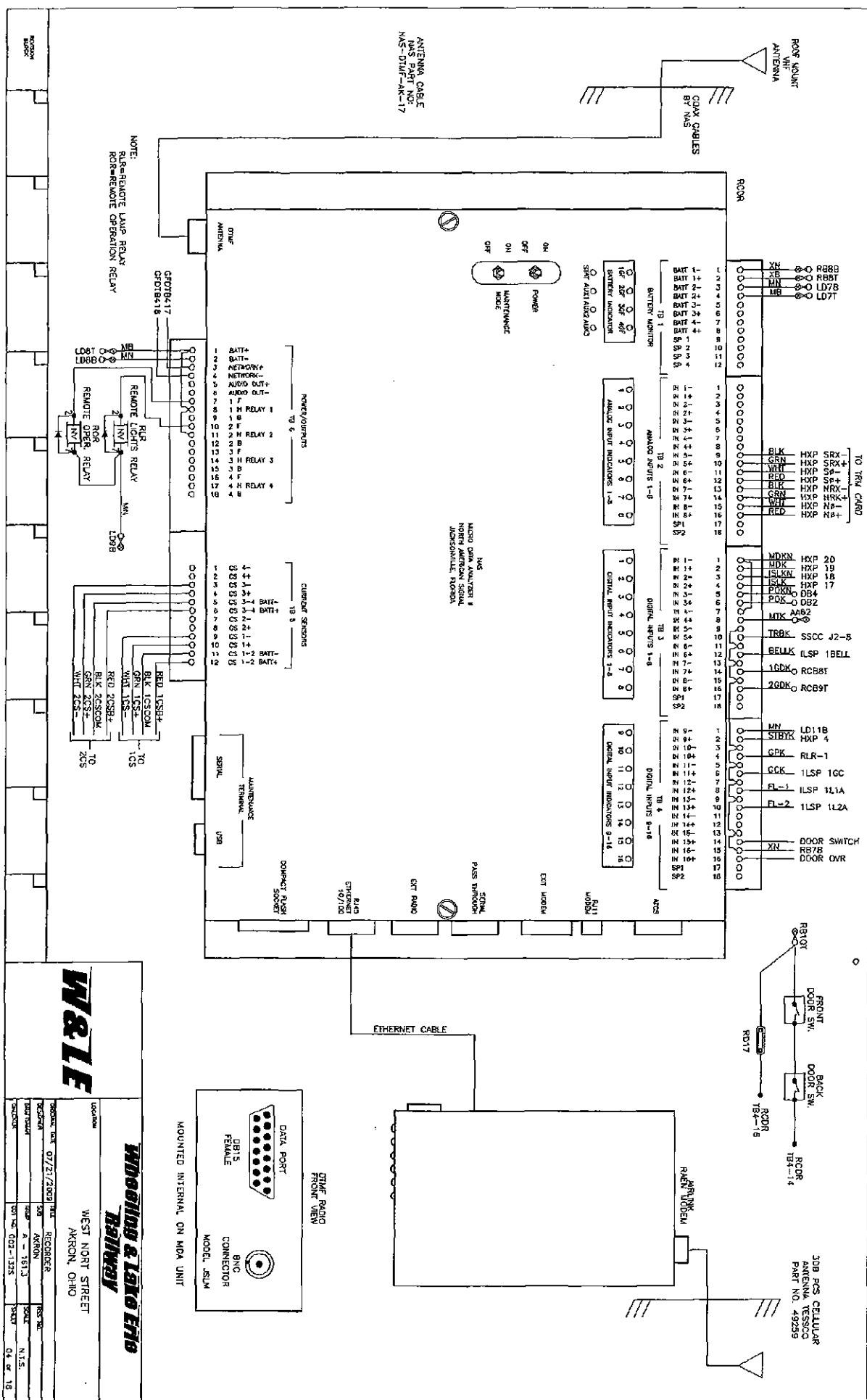
SWITCH INFORMATION

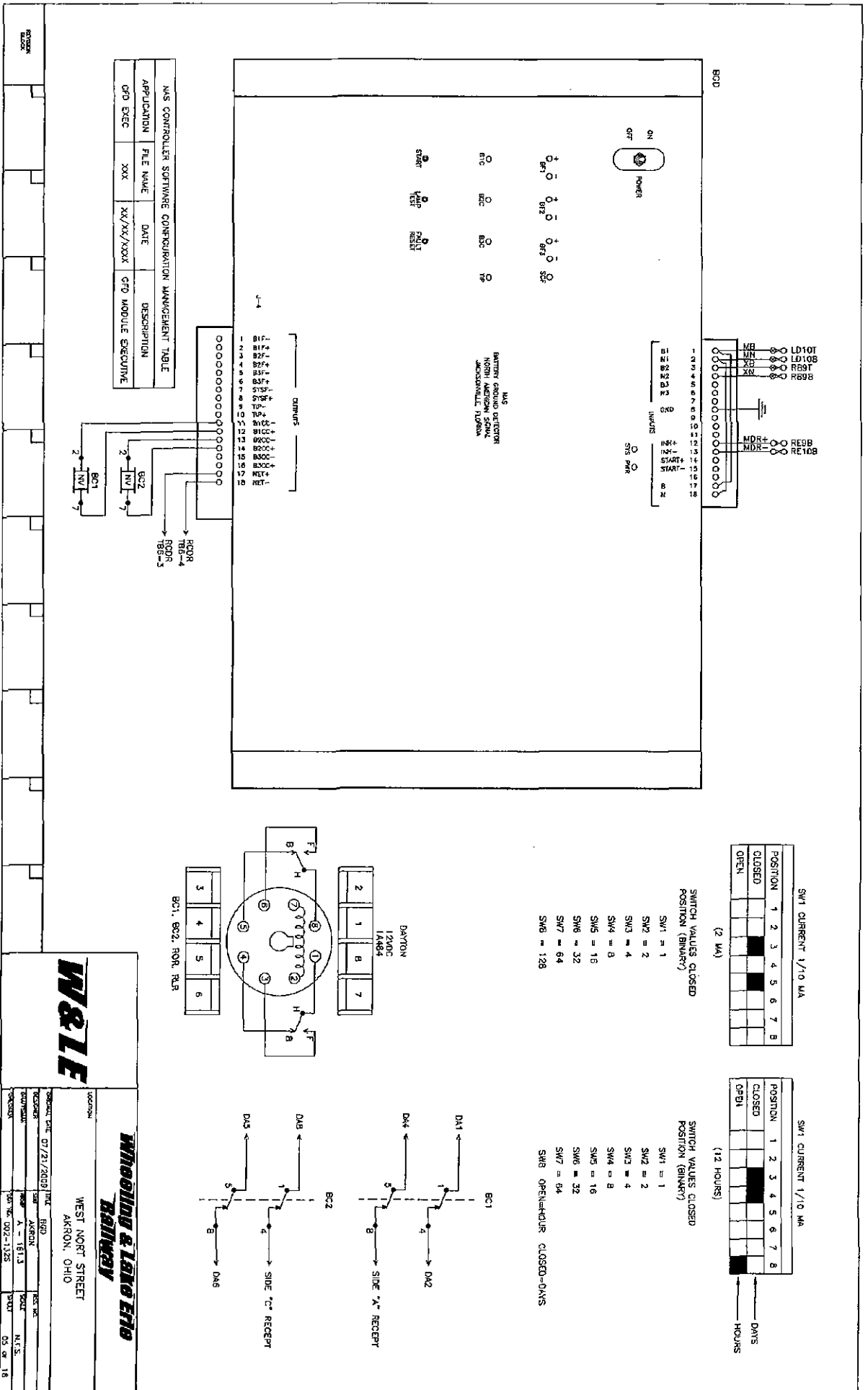
SWITCH	TRACK 1	TRACK 2
MASTER/SLAVE	MASTER	
RST-FAULT JUMPER	0	
RST-LOS JUMPER	1	
TLX W1 JUMPER	PINS 1-2	
TLX W2 JUMPER	PINS 1-2	
TLX W3 JUMPER	PINS 2-3	
MANU. TIMEOUT	3 MIN	
CW/ND	CW	
STANDBY/AUTO/NORMAL	AUTO	

NOTE: DL= DEFAULT LEVEL
NA= NON APPLICABLE



W&L		Whooling & Lyle Etc	
Location		WEST NORT STREET AKRON, OHIO	
PROJECT NO.	DATE	REV.	DESCRIPTION
07/21/2008	07/21/2008	1	HWP PROGRAM INFORMATION
DESIGNED BY	DATE	DESIGNED BY	DATE
AKRON	10/1/3	AKRON	10/1/3
PROJECT NO.	DATE	REV.	DESCRIPTION
002-1255	07/21/2008	1	03 OF 18



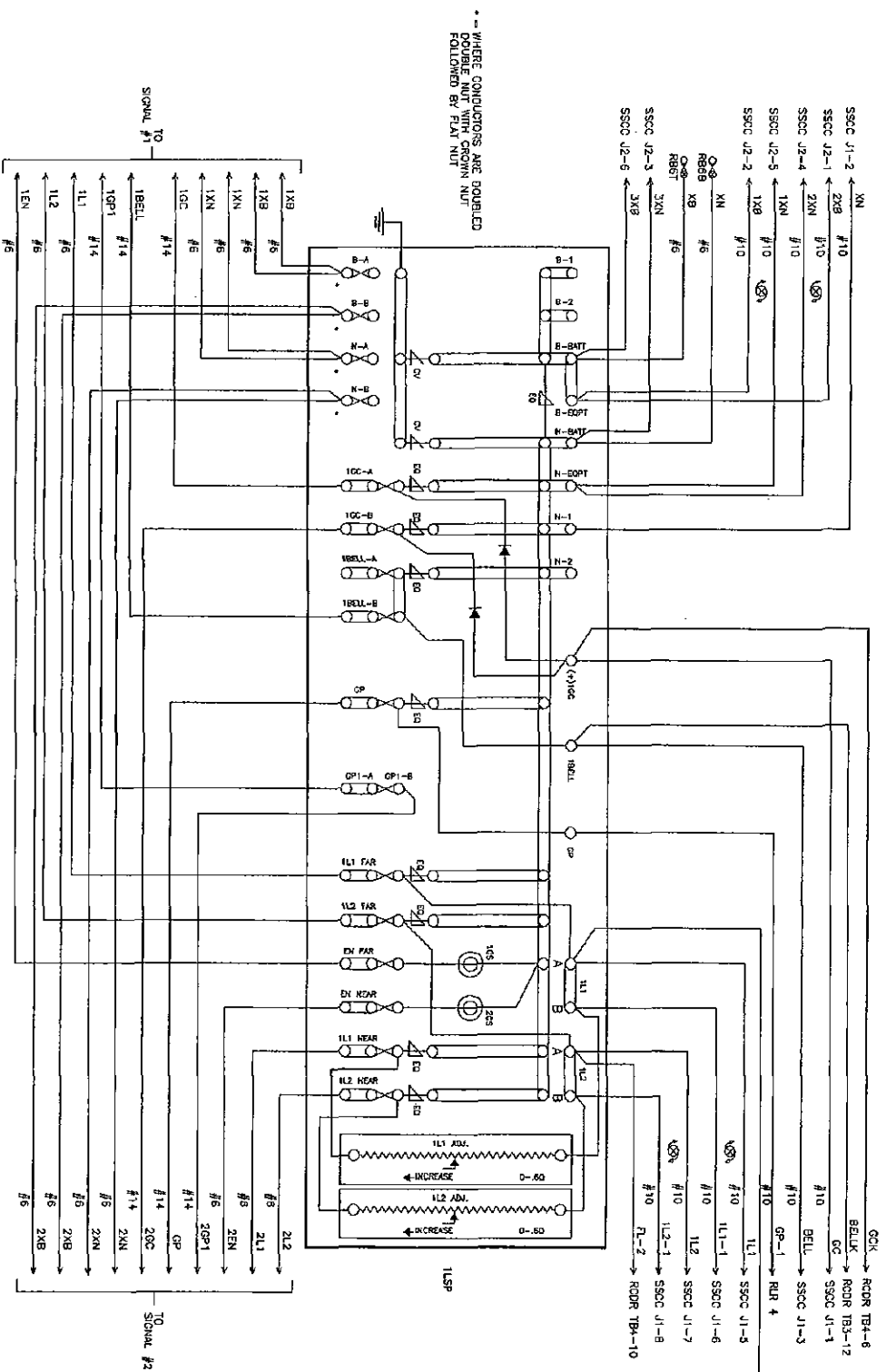




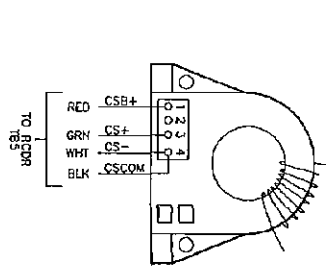
Wheeling & Lake Erie Railway

WEST NORT STREET
AKRON, OHIO

Processing Date	07/21/90	Unit	SSCC III	ISS No.	
DISCLOS		SUB	AKRON	DOCL	N.T.S.
DISCLOS		REQD	A - 151.3		
DISCLOS		REF NO	002-1325	DATE	06 of 18



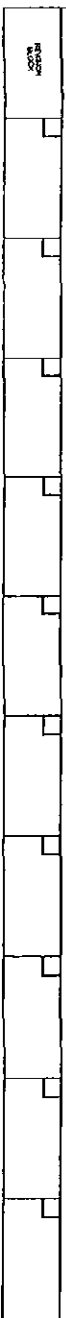
WHERE CONNECTIONS ARE DOUBLED
DOUBLE WITH GREEN NUT
FOLLOWED BY FLAT NUT



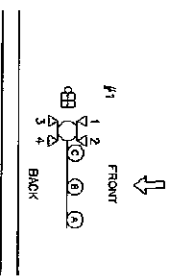
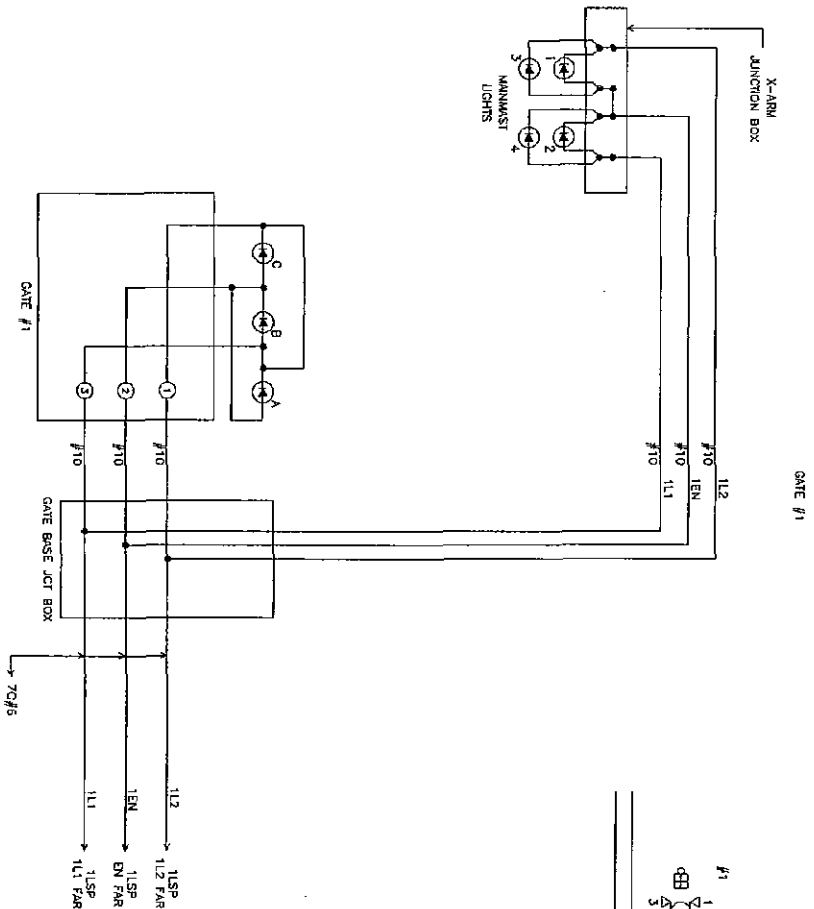
WILE

Wheeling & Lake Erie Railway

LOCATION	WEST NORT STREET AKRON, OHIO
DATE	07/21/2001
DESIGNER	LSP
CHECKER	AKR
REVISION	1 - 1613
DATE	07/21/2001
BY	AKR
DATE	07/21/2001

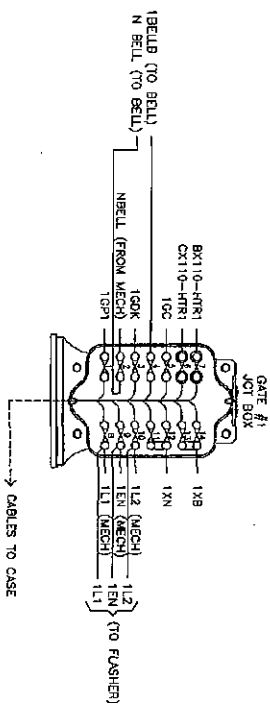


LOCATION	WEST NORTH STREET AKRON, OHIO			
DATE	07/21/2009	TIME	07:21	UNIT NO.
TOOLSET	DD	AKRON	VAL	N.T.S.
DEPTH	161.3		VAL	N.T.S.
TOOLSET	DD	AKRON	VAL	N.T.S.
DEPTH	161.3		VAL	N.T.S.



W & L E Wheeling & Lake Erie Railway	
Location: WEST NORTH STREET AKRON, OHIO	
Drawing Date: 07/21/2009 Drawn By: SIB Checked By: A - 151.3 Title: GATE #1 LIGHTS	Part No.: Rev.: Date: 08/09/10

Wheeling & Lake Erie Railway	
LOCATION WEST NORT STREET AKRON, OHIO	W&LE
BOOKING DATE 07/21/2009 TIME 12:00 PM CARRIER 12345678 CARRIER NAME AKRON CARRIER PHONE 1-800-1234 CARRIER FAX 1-800-1234 CARRIER WEBSITE www.wle.com	DATE 07/21/2009 TIME 12:00 PM CARRIER 12345678 CARRIER NAME AKRON CARRIER PHONE 1-800-1234 CARRIER FAX 1-800-1234 CARRIER WEBSITE www.wle.com



CONTACT	CLOSED	FUNCTION
6	45-90°	POWER DOWN
7	0°-89°	POWER UP
8	89°-90°	FLASHING LIGHT
9	5°-90°	BELL
10	0°-5°	WORLDWIDE SALES
11	0°-5°	DATE DOWN INDICATION

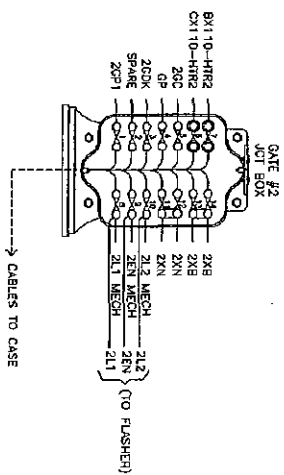
WITH GATE IN UP POSITION

SAFETRAP MODEL S-40
GATE MECHANISM

WILEY

Whooling & Lake Erie Railway

WEST NORT STREET AKRON, OHIO		LOCAL	
ISSUED DATE 07/21/1939	FILE	DATE #1 RECEIVED	FILE #
PERSON	BOB AKRON	RECEIVED	
PRINTING	FROM A - 161.3	DATE	N.T.S.
CHARGE	NO. 800-10325	FILE	11 OF 18



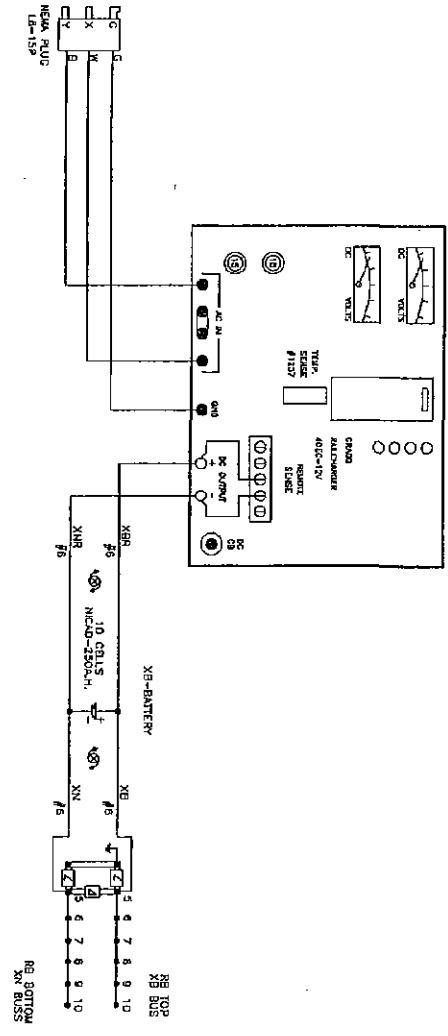
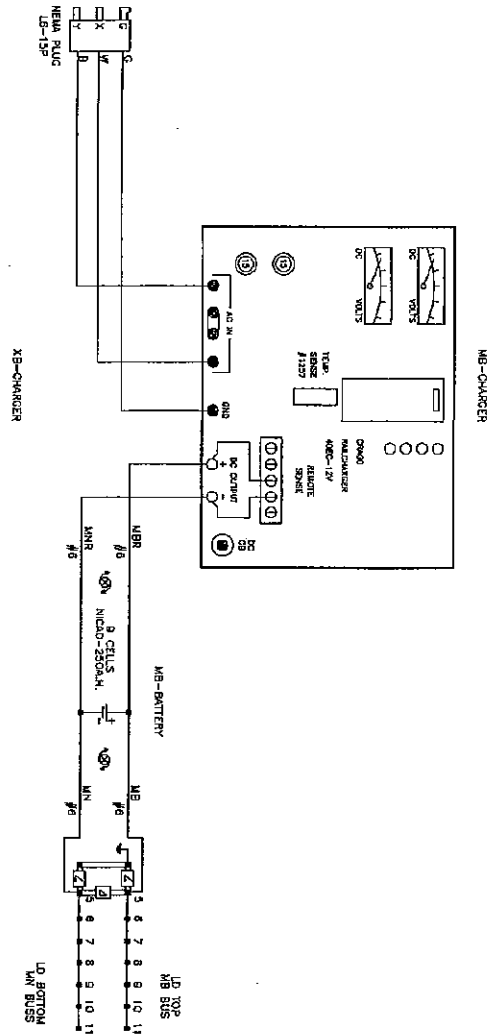
CONTACT	CLOSED	FUNCTION
6	45-50°	POWER DOWN
7	0-89°	POWER UP
8	83-90°	FLASHING LIGHT
9	5-90°	BELL
10	0-5°	HORIZONTAL SWIRL
11	0-5°	GATE DOWN INDICATION

WITH GATE IN UP POSITION

W&LE

Whoo!ing & Lake Erie Railway

WEST NORT STREET					
AKRON, OHIO					
ORDER DATE 07/21/2009					
TOPOGRAPHIC	148	DATE \$2 UNRECORDED			
DRAWN BY	ALAN	ISS NO.			
CHECKED BY	A - 161.3	SHEET	1"-3"		
ELECTRIC	REF NO. 002-1135	SHEET	12 OF 16		



BATTERY BUS DETAILS

MB BUS (TOP)	MB BUS (BOTTOM)
12	12
11	11
10	10
9	9
8	8
7	7
6	6
5	5

BATTERY BUS DETAILS

XB BUS (TOP)	XB BUS (BOTTOM)
10	10
9	9
8	8
7	7
6	6
5	5

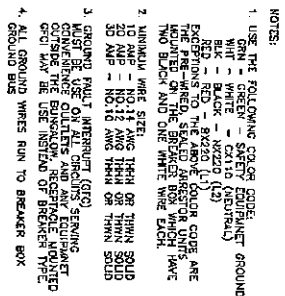
WILE

Whooling & Lath Eto

Helmery

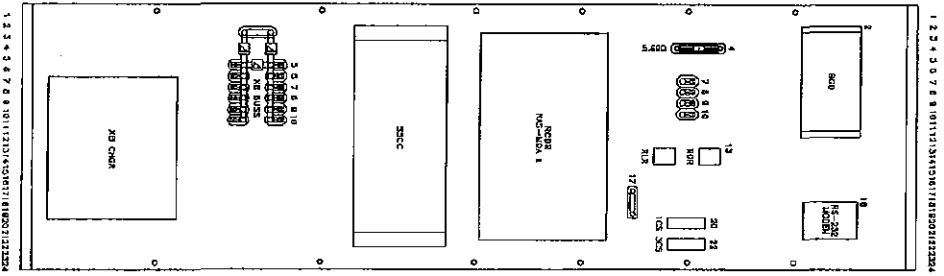
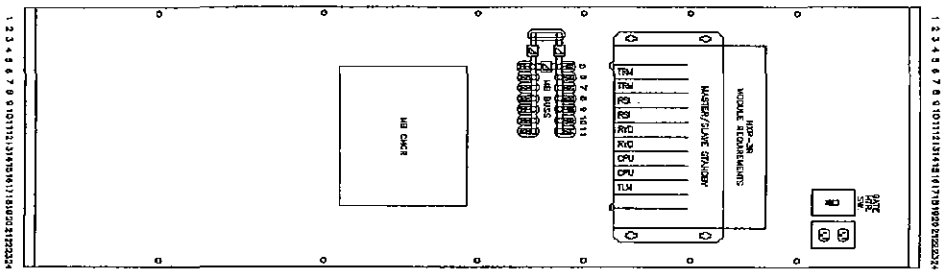
WEST NORT STREET
AKRON, OHIO

DATE: 07/21/2009
BY: JASON
THROW: 1.47
CHECK: 13 of 18



Winchell & Lake Erie Railway

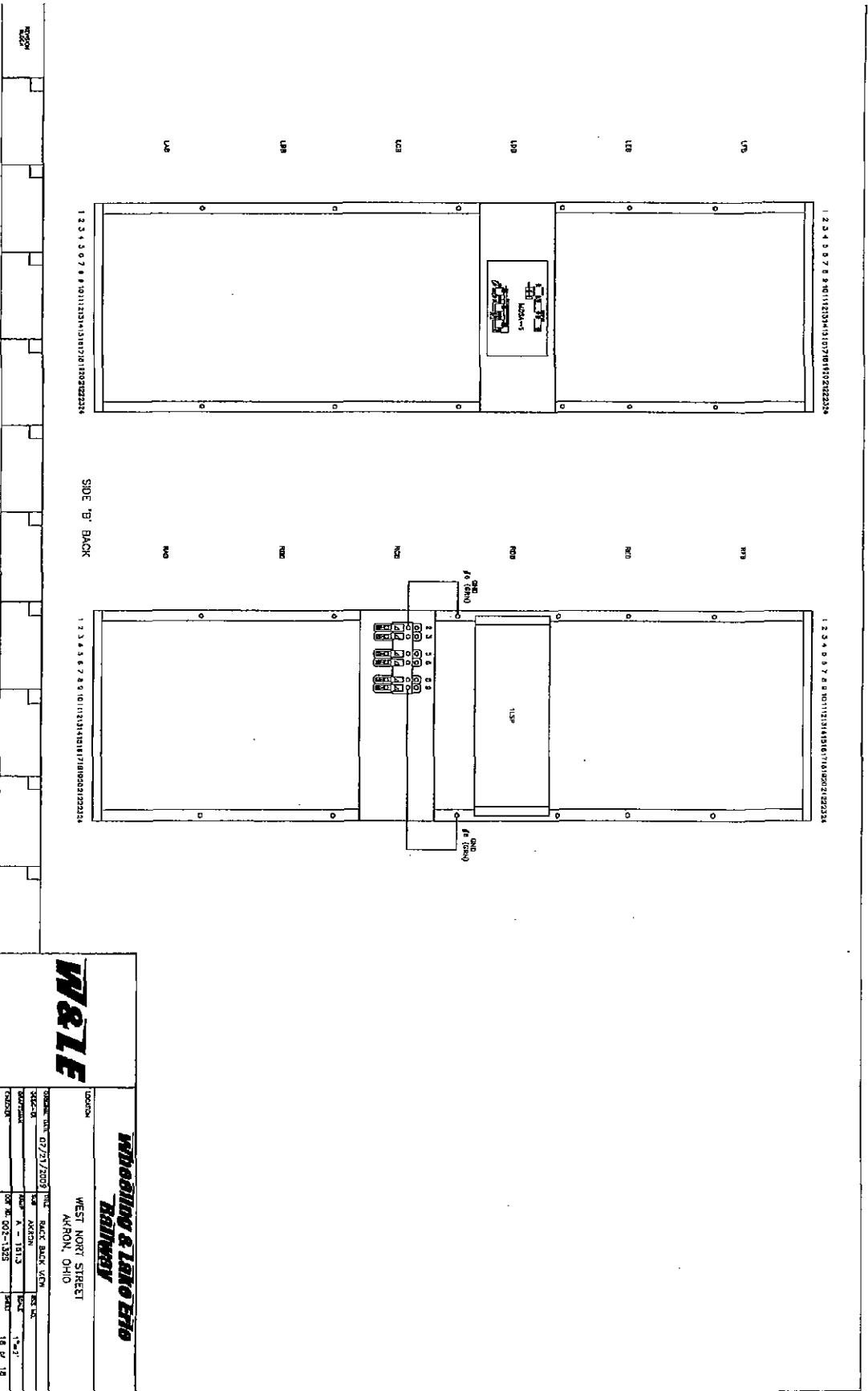
DATE	07/21/2009	TIME	AC POWER DISTRIBUTION
TESTER	AKRON	REF ID	
MEASUREMENT	Watt	Watt	1 = 2
TESTER	002-1325	SWT	14 OF 15



WHEELING & LAKE ERIE RAILWAY

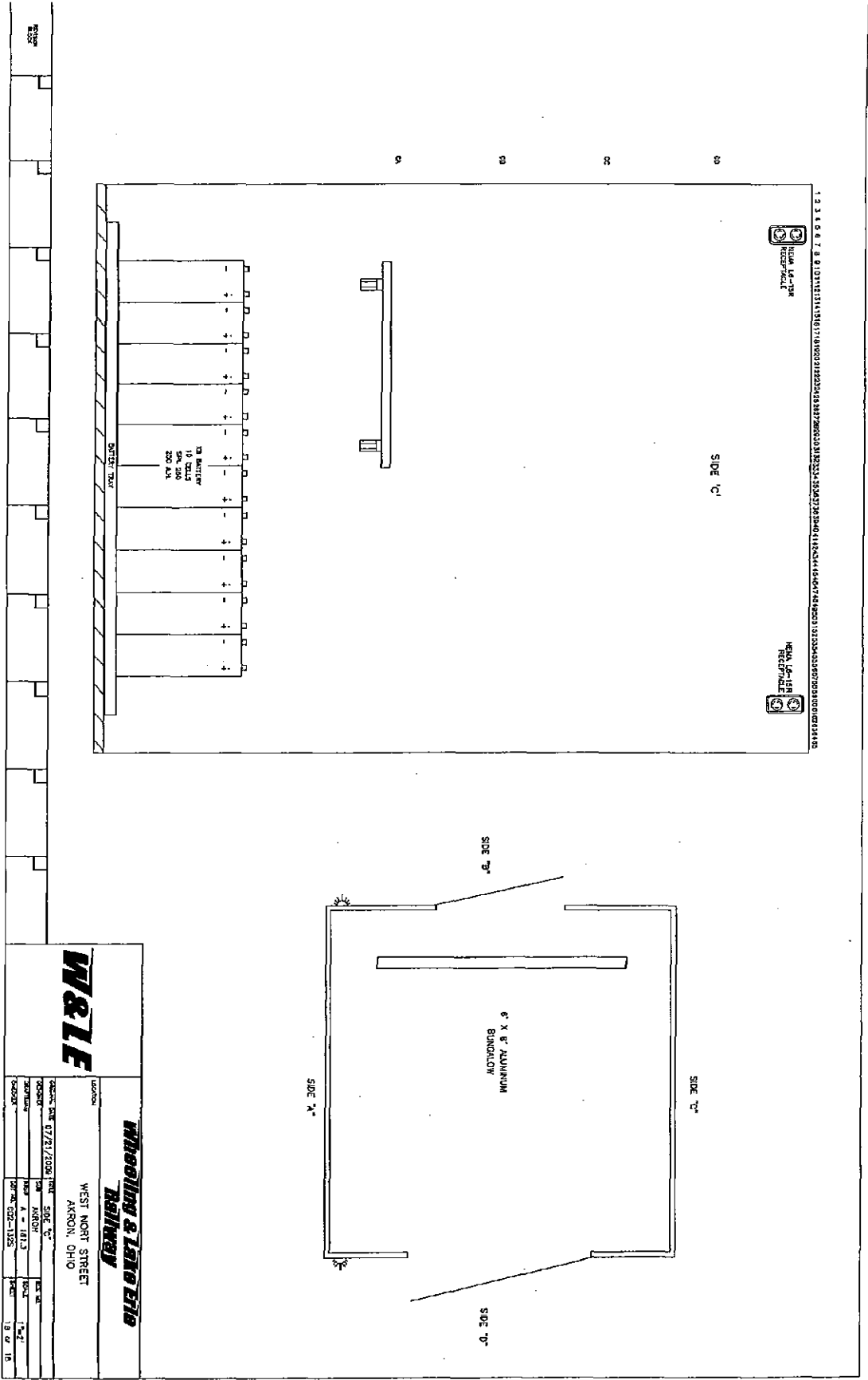
WEST NORT STREET
AKRON, OHIO

DATE	07/21/2008	TIME	1:00 PM	BACK FRONT VIEW	15' x 18'
PROJECT	AKRON	NO.	1513		
OWNER	AKRON	NO.	1513		
DATE	07/21/2008	TIME	1:00 PM	BACK FRONT VIEW	15' x 18'





Customer, Unit #	07/21/2008	DATE	SIDE "A"	ASS NO.
Customer	ASS	ACRON		
Customer	ISS	A - 161.3	WELL	1"=2'
Customer	REF NO.	002-1325	DATE	17 OF 18



W & L E			
Wheeling & Lake Erie Railway			
LOCATION	WEST NORTH STREET ARLON, OHIO		
DATE	07/21/2006	TIME	5:00 PM
PROJECT	NEW 100' X 100' BLDG		
DESIGNER	W & L E	SCALE	1" = 10'
DATE	07/21/2006	BY	W & L E

- | | | | | | |
|----------------------------------|------|---------------------------|---------|-----------------------------|-------|
| WEST NORTH STREET
ARION, OHIO | | INSTRUMENT DATE 7/21/2009 | | INSTRUMENT TYPE 2 PLACEMENT | |
| DEED | BOOK | PAGE | SECTION | TOWNSHIP | RANGE |
| | A | 161.3 | | N.T.S. | |
| DEED | BOOK | PAGE | SECTION | TOWNSHIP | RANGE |
| | A | 162-1325 | | N.T.S. | |

TO REPOST STALLED
VEHICLE ON TRACKS OR
OTHER KIND OF EMERGENCY
CALL
AND REFER TO
CROSSING 002-132S
ON W. NORTH ST.

CASE MOUNTED
CROSSING SIGNS.
BLUE BACKGROUND
WHITE LETTERS.
SEE MUTCD FOR
DIAMENTIONS AND DETAILS.
1 UNITS.

REPORT EMERGENCY
TO
CROSSING 002-132S
ON W. NORTH ST.

MAST MOUNTED
CROSSING SIGNS.
BLUE BACKGROUND
WHITE LETTERS.
SEE MUTCD FOR
DIAMENTIONS AND DETAILS.
2 UNITS.

W&LE

**Whooling & Lake Erie
Railway**

LOCATION			
POSTED DATE 07/21/2008	INT	SIGNS	
REMOVED	REV	ADDITION	
REASON	REV	A - 81.3	TYPE
PERSON	REF NO	002-132S	SEE ATTACHMENT B

002-132S