

N.C.
FILE

29

RECEIVED-DOCKETING DIV

2011 NOV -7 AM 10:16

**Public Utilities
Commission of Ohio**

PUCO

Memo

11-5679-RR-FED

To: Docketing Division
From: George Martin, Grade Crossing Planner, Rail Division
Re: In the matter of the authorization of RJ Corman Railroad Company (Cleveland) to install active grade crossing warning devices in Stark County
Date: November 7, 2011

The Ohio Rail Development Commission (ORDC) has authorized funding for RJ Corman Railroad Company (Cleveland) (RJCL) to install mast-mounted flashing lights, roadway gates, and one set of cantilevered flashing lights at Stark County, near Beach City, Justus Ave/CR 307A. A diagnostic survey (attached) was held at the crossing on March 8, 2011, and the upgrades were recommended.

The project will be actual cost and will be paid for with federal funds. ORDC has already approved the plan and estimate (attached).

Staff requests an Entry with construction to be completed within 9 months. Upon issuance of the Entry RJCL may commence construction.

C: Legal Department

Please serve the following parties of record

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 MI Date Processed NOV 07 2011

Ms Susan Kirkland
Ohio Rail Development Commission
1980 West Broad St
Columbus, Oh 43223

Ms. Deborah Hawley
RJ Corman Railroad Group
PO Box 788
Nicholasville, Ky 40340

Mr Keith Bennet, PE, PS
Stark County Engineer
5165 Southway St SW
Canton, Oh 44706-1998

Ohio Edison
76 S Main St
Akron, Oh 44308

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Akron, Oh 44308



The Public Utilities
Commission of Ohio

Rail Division
180 East Broad Street
Columbus, OH 43215

Diagnostic Review Team Survey

Date: 3/8/11 1:45 PM

Location Data

Street or Road Name:

JUSTUS AVE

Route/Road Number (i.e. CR 307A) (include SLM if State or US route)

AAR-DOT
No:

142576V

County:

STARK

Township:

City (In
or Near)

BEACH CITY

Railroad
Name:

RJCL

Railroad
Division:

Branch/Line
Name:

Nearest RR

Timetable Station:

BEACH CITY

RR Milepost:

84.2

On-Site Review Team

(Include: Name - Organization - Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. MIKE FORTÉ ORDC 614-374-9287
3. BRIAN COLE Stark County Engineer 330-477-6781
4. Dave Torrence Stark County Engineer 330-477-6781
5. Jim Boles RJ CORMAN RAILROAD 502/507-9135
- 6.
- 7.
- 8.
- 9.
- 10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs	☒ Yes	☐ No	2
'Stop' Signs	☐ Yes	☒ No	
'Stop Ahead' Signs	☐ Yes	☒ No	
Pavement Markings	☒ Yes	☐ No	2
Crossbucks	☒ Yes	☐ No	2 BUCKEYE
Number of Tracks Signs	☐ Yes	☒ No	
Inventory Tags	☒ Yes	☐ No	2
Interconnected Highway Traffic Signal	☐ Yes	☒ No	
Mast-Mounted Flashing Lights	☐ Yes	☒ No	
Cantilever Flashing Lights	☐ Yes	☒ No	Number: Length:
Side Lights	☐ Yes	☒ No	
Automatic Gates	☐ Yes	☒ No	Number: Length:
Bells	☐ Yes	☒ No	
Sidewalk Gate Arms	☐ Yes	☒ No	
'No Turn' Signs	☐ Yes	☒ No	
Illumination	☒ Yes	☐ No	1
Is crossing flagged by train crew?	☐ Yes	☒ No	
Other	☐ Yes	☐ No	

Safety Data (Obtain crash reports, if possible, prior to review)

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 2/13/08	
Hazard Ranking 134	Date Run: 2/7/11	165 3/21/11

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	4 (2/4/11)	2 - 3/8/11
< 1 per day		
Day thru trains	2	2
Night thru trains	2	
Daytime switching movements		
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	25	
Typical train speed		
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ Yes ☐ No

If multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☒ No

Can one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☐ No SINGLE

Are there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No

If yes, Crossing DOT #(if different) _____

If yes, distance _____ (take measurement between track centerlines at closest point along roadway)

Roadway Data

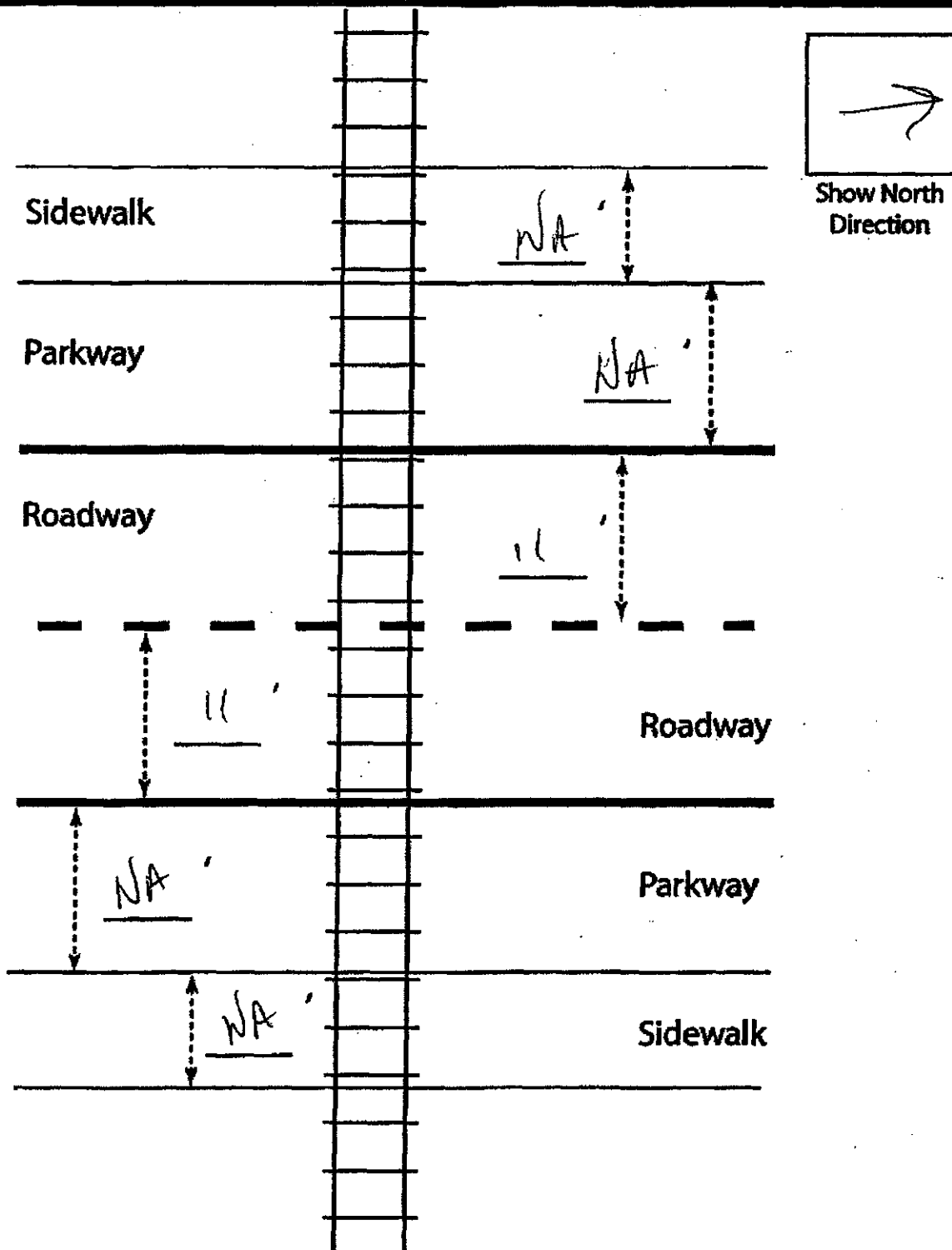
Local Highway Authority:
(Who maintains this roadway?)

STARK COUNTY

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	700 (2003)	SAME
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____		
Roadway width: 22 ft.		
Number of highway lanes	2	2
Urban or Rural?	RURAL	RURAL
Vehicle Speed: 55 MPH		
School Bus Operation: ☐ No ☒ Yes 2 Amount		
Hazardous Materials Trucks: ☐ No ☒ Yes 570 Amount		
Shoulders: ☒ No ☐ Yes		
Is the shoulder surfaced? ☒ No ☐ Yes		
Is there existing guardrail along roadway in crossing vicinity? ☐ No ☒ Yes		
Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) _____		

Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None
Pedestrians: ☒ No ☐ Yes	
Is sidewalk present? ☒ No ☐ Yes	
Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes If yes, Distance _____	
Is this intersection signalized? ☐ No ☐ Yes	
Are the signals currently interconnected with the existing crossing warning devices? ☐ No ☐ Yes	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes Explain reasons:	
Type of Development	
☒ Open Space ☐ Industrial ☒ Residential	☐ Institutional ☐ Commercial Location of nearby schools: WITHIN ONE MILE
Utility Information	
Is commercial power available? ☐ No ☒ Yes	
Utility Provider (Company Name) <u>OHIO EDISON</u> Phone Number _____	
Nearest Available Power Source <u>AT XING</u>	
What other utilities are present? <u>UG UTILITIES</u>	
Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown	
Diagnostic Team Recommendations	
	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS / Cants	
☐ AFLS / Gates	
☒ AFLS / Gates / Cants	
☐ Upgrade circuitry	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Other (define)	
Comments:	L&G PLUS CANTILEVER DUE TO HILL.
RE RUN RANKINGS BASED ON TRAIN COUNT, IF WITHIN GOOD RANGE PROCESS FOR L&G -	
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
☒ Other (define)	RANK FELL WITHIN PARAMETERS FOR UPGRADE.

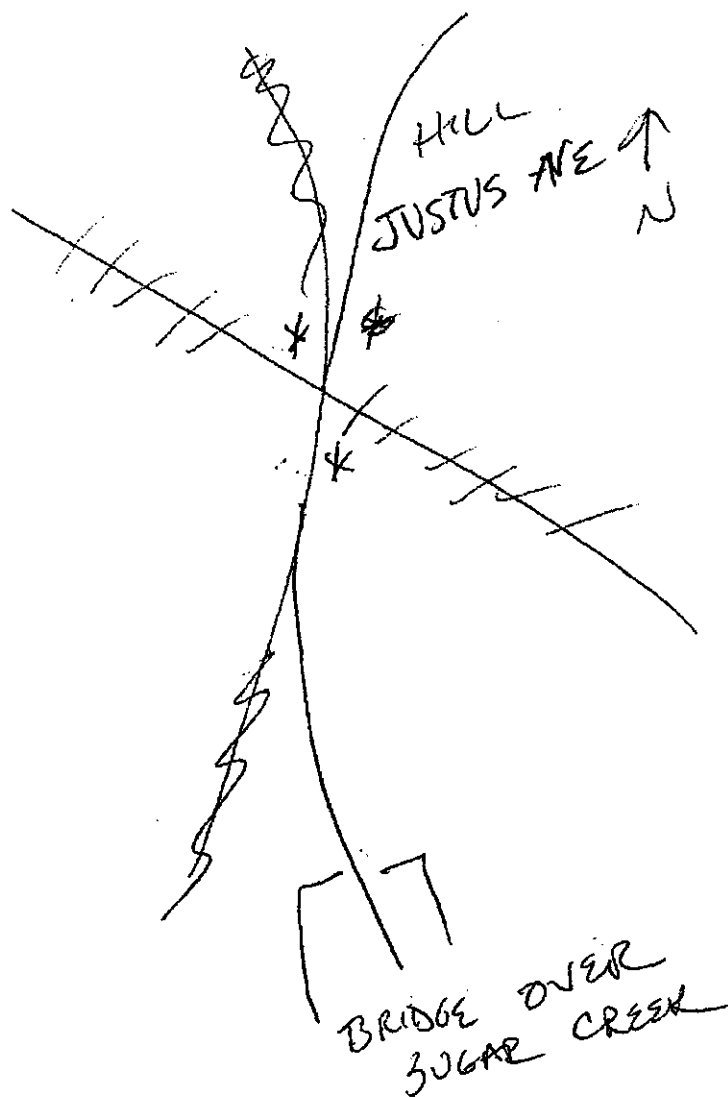
Field Dimensions



Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in SW Quadrant?

Measurements by: GN

Field Sketch



Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in SW Quadrant?

Sketch by CGM

TABLE 1

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at non-gated crossings as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

RJCL, STARK, JUSTUS AVE, 142576 V

TRAFFIC CRASH REPORT

OH-1 (Rev. 10/99)



LOCAL REPORT #

76-0465-76

CRASH SEVERITY

3 1 FATAL 2 FIO 2 INJURY 4 UNKNOWN

PRIVATE PROPERTY

X IF YES

INSTRUMENT

1 NOT BURNED 2 SOLVED 3 DECEASED

PHOTOS TAKEN

X IF YES

CH-2

X

CH-3

X

CH-4

X

OTHER

X

NO I.C. #

OHP76

REPORTING AGENCY

Ohio State Highway Patrol

UNITS

02

UNIT ERROR

01 99 = ANIMAL 99 = UNKNOWN

DATE OF CRASH

02132008

TIME OF CRASH

0822

DAY OF WEEK

WED

CITY

X

VILLAGE

X

TWP

X

NAME (OF CITY, VILLAGE OR TOWNSHIP)

Sugarcreek

COUNTY #

76

LATITUDE

40:39:28.59

LONGITUDE

81:34:37.35

CRASH LOCATION

Justus Ave.

TYPE LOC

1

TYPE LOCATION POINT USED

1 NAMED STREET 2 NUMBERED ROUTE

REFERENCE LINE

DIST REFERENCE OR PREFIX REFERENCE

.1ml S

PREFIX REFERENCE

Dolphin Rd.

REPORT

02

REFERENCE POINT USED

01 STATE LINE 02 INTERSECTION 2 STREETS 03 COUNTY LINE

04 HOUSE NUMBER

05 TOWNSHIP BOUNDARY 06 MILE POST 07 CORPORATION LIMIT

08 PLACE NAME NO REFERENCE

09 DEPART 10 STREET OR ROUTE NO REFERENCE

UNIT #

A 01

OF OCC.

01

NAME (LAST, FIRST, MIDDLE)

Lyon, Dale H

ADDRESS (STREET, CITY, STATE, ZIP CODE)

19 E Canal ST, Navarre, Ohio 44662

SOCIAL SECURITY NUMBER

05141927

DATE OF BIRTH

05141927

AGE

80

SEX

M

HOME PHONE #

(330)879-5924

WORK PHONE #

OL STATE

OH

OL #

RE862796

LP STATE

OH

LP #

DE65UT

INJURED TAKEN BY

1

1 HOME 2 OTHER 3 POLICE

1

TRANSPORTED BY

1

INJURED TAKEN TO

1

OWNER NAME (IF SAME, WRITE "SAME")

SAME

ADDRESS (STREET, CITY, STATE, ZIP CODE)

YEAR

2000

MAKE

DODG

MODEL

Neon

COLOR

RED

INSURANCE COMPANY

State Farm

TOWING SERVICE

Star American Towing

OWNER PHONE #

OFFENSE CHARGED

4511.202

OFFENSE DESCRIPTION

Operating vehicle without reasonable control

CITATION #

Y084646

LOCAL CODE

Y

IF YES

Y

UNIT #

B 02

OF OCC.

01

NAME (LAST, FIRST, MIDDLE)

Train, Conductor

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SOCIAL SECURITY NUMBER

00

DATE OF BIRTH

00

AGE

00

SEX

U

HOME PHONE #

WORK PHONE #

OL STATE

OH

OL #

1804

LP STATE

OT

LP #

1

INJURED TAKEN BY

1

1 HOME 2 OTHER 3 POLICE

1

TRANSPORTED BY

1

INJURED TAKEN TO

1

OWNER NAME (IF SAME, WRITE "SAME")

RJ Corman Railroad Company

ADDRESS (STREET, CITY, STATE, ZIP CODE)

475 W Third ST, Dover, Ohio 44622

YEAR

1983

MAKE

GM

MODEL

GP16

COLOR

RED

INSURANCE COMPANY

Self Insured

TOWING SERVICE

OWNER PHONE #

(330)364-4567

OFFENSE CHARGED

OFFENSE DESCRIPTION

CITATION #

LOCAL CODE

IF YES

UNIT #

C

OF OCC.

NAME (LAST, FIRST, MIDDLE)

ADDRESS (STREET, CITY, STATE, ZIP CODE)

SOCIAL SECURITY NUMBER

DATE OF BIRTH

AGE

SEX

HOME PHONE #

WORK PHONE #

OL STATE

OL #

LP STATE

LP #

INJURED TAKEN BY

1 HOME 2 OTHER 3 POLICE

TRANSPORTED BY

INJURED TAKEN TO

OWNER NAME (IF SAME, WRITE "SAME")

ADDRESS (STREET, CITY, STATE, ZIP CODE)

YEAR

MAKE

MODEL

COLOR

INSURANCE COMPANY

TOWING SERVICE

OWNER PHONE #

OFFENSE CHARGED

OFFENSE DESCRIPTION

CITATION #

LOCAL CODE

IF YES

SEATING POSITION

01 FRONT - LEFT (MC DRIVER)

02 FRONT - MIDDLE

03 FRONT - RIGHT

04 SECOND - LEFT (MC PASS)

05 SECOND - MIDDLE

06 SECOND - RIGHT

07 THIRD - LEFT

08 THIRD - MIDDLE

09 THIRD - RIGHT

10 SEATER SECTION OF CAB

11 ENCLOSED CAB AREA

12 ENCLOSED CAB AREA

13 TRAILING UNIT

14 OTHER

15 NON-MOTORIST

16 UNKNOWN

17 UNKNOWN

18 UNKNOWN

19 UNKNOWN

20 UNKNOWN

21 UNKNOWN

22 UNKNOWN

23 UNKNOWN

24 UNKNOWN

25 UNKNOWN

26 UNKNOWN

27 UNKNOWN

28 UNKNOWN

29 UNKNOWN

30 UNKNOWN

31 UNKNOWN

32 UNKNOWN

33 UNKNOWN

34 UNKNOWN

35 UNKNOWN

36 UNKNOWN

37 UNKNOWN

38 UNKNOWN

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91 UNKNOWN

92 UNKNOWN

93 UNKNOWN

94 UNKNOWN

95 UNKNOWN

96 UNKNOWN

97 UNKNOWN

98 UNKNOWN

99 UNKNOWN

100 UNKNOWN

101 UNKNOWN

102 UNKNOWN

103 UNKNOWN</

[illegible]

Narrative

Unit 1 south on Justus Avenue. Unit 2 backing north-west on the train tracks. Unit 1 lost control due to the snow striking Unit 2. Unit continued north-west striking a railroad sign.

MANNER OF COLLISION OR IMPACT

5

- 1 NOT COLLISION BETWEEN TWO VEHICLES WITH REPORT
- 2 REAR END
- 3 HEAD ON
- 4 REAR TO REAR
- 5 BACKING
- 6 AND LE
- 7 SIDEWIDE, SAME DIRECTION
- 8 SIDEWIDE, OPPOSITE DIRECTION
- 9 UNKNOWN

WEATHER

02

- 01 CLEAR
- 02 CLOUDY
- 03 FOG, SMOG, SMOKE
- 04 RAIN
- 05 SLEET, HAIL, (PRECIP IN DIRECTION)
- 06 SNOW
- 07 SEVERE WEATHERING
- 08 BLOWING SAND, DIRT, DRY, SNOW
- 09 OTHER
- 10 UNKNOWN

LIGHT CONDITIONS

1

- 1 DAYLIGHT
- 2 DAWN
- 3 DUSK
- 4 DARK - LIGHTED HIGHWAY
- 5 DARK - NOT LIGHTED
- 6 DARK - UNKNOWN LIGHTING
- 7 GLARE
- 8 OTHER
- 9 UNKNOWN

SCHOOL BUS RELATED

1

- 1 NO
- 2 YES, DIRECTLY INVOLVED
- 3 YES, INDIRECTLY INVOLVED
- 4 UNKNOWN

WORK ZONE RELATED

1

- 1 NO
- 2 YES
- 3 UNKNOWN

TYPE OF WORK ZONE

1

- 1 LANE CLOSURE
- 2 LANE SHIFTER/SHOVEL
- 3 WORK ZONE CLOSURE OR BARRIER
- 4 INTERMITTENT WORK
- 5 OTHER

LOCATION OF CRASH IN WORK ZONE

1

- 1 BEFORE PROTECTIVE ZONE
- 2 WITHIN PROTECTIVE ZONE
- 3 IN TRANSITION AREA
- 4 ACTIVITY AREA

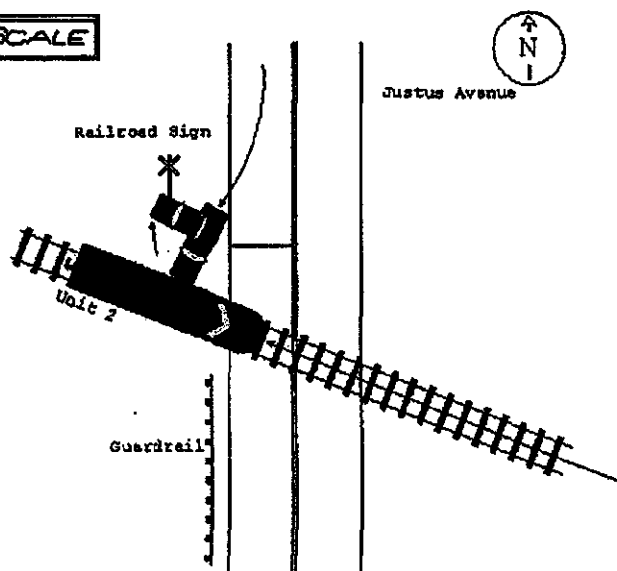
WORKERS PRESENT

1

- 1 NO
- 2 YES
- 3 UNKNOWN

Diagram

NOT TO SCALE



Truck/Bus

UNIT #

11

THE CRASH INVOLVED ONE OR MORE OF THE FOLLOWING:

A TRUCK MOTOR VEHICLE WITH A GVW MORE THAN 10,000 POUNDS OR A TRUCK MOTOR VEHICLE WITH A HAZARDOUS MATERIAL PLACARD, OR A BUS DESIGNED FOR AT LEAST 17 PERSONS, INCLUDING DRIVER.

THE CRASH RESULTED IN ONE OR MORE OF THE FOLLOWING:

AFKULTY OR INJURY REQUIRING TRANSPORTATION FOR MEDICAL TREATMENT OR AT LEAST ONE VEHICLE WAS TOWED DUE TO CRASH DAMAGE OR REQUIRED INTERMEDIATE DISTANCE BEFORE PROCEEDING UNDER ITS OWN POWER.

CONTACT (FROM SHIPPING PAPERS)

COMPANY PHONE

ADDRESS (STREET, CITY, ST, ZIP CODE)

US DOT

ICC MC

FUCO

TRAILER LP ST.

TRAILER LP YEAR

TRAILER LP #

PLACARD #

DIA

CARGO BODY TYPE

1

- 01 NOT APPLICABLE
- 02 BULKHEAD INCLUDING DRIVER
- 03 VAN/ENCLOSED BOX
- 04 CRANES/SCRAVEL

- 05 POLE
- 06 CAR/D TANK
- 07 FLATBED
- 08 DUMP

- 09 CONCRETE MIXER
- 10 AUTO TRANSPORTER
- 11 BARBARS/REFUSE
- 12 OTHER
- 13 UNKNOWN

WEIGHT (GVWR)

1

- 1 LESS THAN 10,000
- 2 10,001 - 20,000
- 3 MORE THAN 20,000

COL CLASS

1

- 1 CLASS A
- 2 CLASS B
- 3 CLASS C
- 4 CLASS D
- 5 CLASS E

HAZARDOUS MATERIAL PLACARD

1

- 1 NO
- 2 YES
- 3 UNKNOWN

HAZARDOUS MATERIALS RELEASED

1

- 1 NO
- 2 YES
- 3 NOT APPLICABLE
- 4 UNKNOWN

Police Action

DATE CRASH REPORTED

02132008

TIME REC. CALL

0845

DISPATCH

0845

ARRIVED

0922

CLEARED

1100

OTHER

45

TOTAL MINUTES

0180

OFFICER'S NAME

Blubaugh, David

BADGE #

0982

CHECKED BY

LTSHIRKEY

DATE REPORT FILED

11162008

REPORT TAKEN BY

1

1 POLICE AG BICY

2 NO TO RST

REPORT TAKEN AT

1

1 SOME

2 STATION

3 OTHER

SUPPLEMENT

"X" IF YES

LOCAL REPORT #

76-0465-78

**OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION**

TO: Rob Marvin, Director of Transportation, PUCO
Leah Thomas-Dalton, Deputy Chief, PUCO

FROM: Susan Kirkland, Manager, Safety Section, ORDC

BY: Cathy Stout, Safety Section, ORDC

SUBJECT: Stark County, RJ Corman Railroad Company (Cleveland)
Justus Ave (CR307A), 142 576V, PID 90703

DATE: November 4, 2011

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on March 8, 2001. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates plus cantilevers. A copy of the diagnostic review form is attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance – including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review
Plan & Estimate

c: George Martin, PUCO
M. Fortè (file)

RJ Corman RR / Cleveland Line
 Location: Justus Ave., Beech City, Ohio
 DOT#: 142 576V
 Mile Post: CL84.20

28-Sep-11

Estimate for Signal Installation

<u>MATERIAL</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
	1		Signal Grade Crossing Warning System	\$158,698.54	\$158,698.54

<u>LABOR</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
	70	Hrs	Supervisor/Laborer	\$60.00	\$4,200.00
	6	Nights	One Room/Lodging	\$85.00	\$510.00
	7	Days	Meals	\$25.00	\$175.00

<u>EQUIPMENT</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>EXTENSION</u>
	70	Hrs	Work Truck	\$16.39	\$1,147.30

TOTAL PROJECT \$164,730.84



UNDERGROUND UTILITIES
 **NO DIG** BEFORE YOU DIG 
 TWO WORKING DAYS
 CALL 1-800-362-2764 TOLL FREE
 DRAIN UTILITIES PROTECTION SERVICE
 NON-RESIDENTS
 MUST BE CALLED DIRECTLY

- Legend**
- 00 - TEST TERMINAL
 - 1 - EQUALIZER
 - 2 - ARRESTER TO GROUND
 - 3 - TWISTED WIRE 2 TURNS PER FOOT
 - 4 - DC SHUNT EXHAUSTION

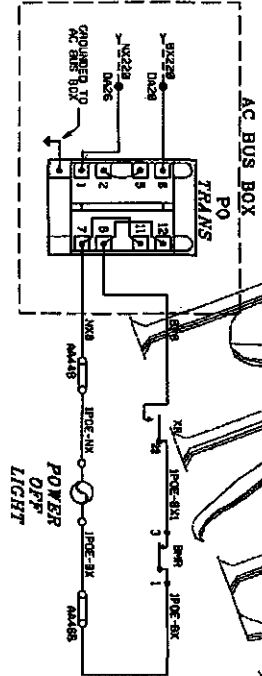
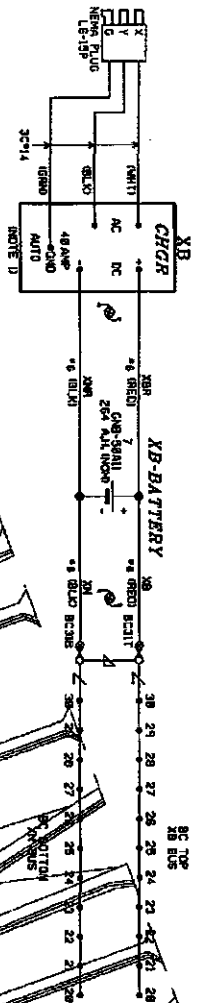
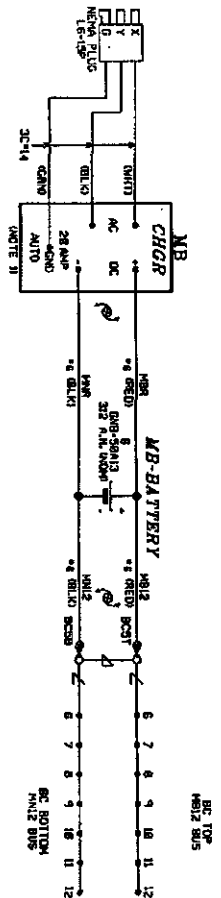


GE

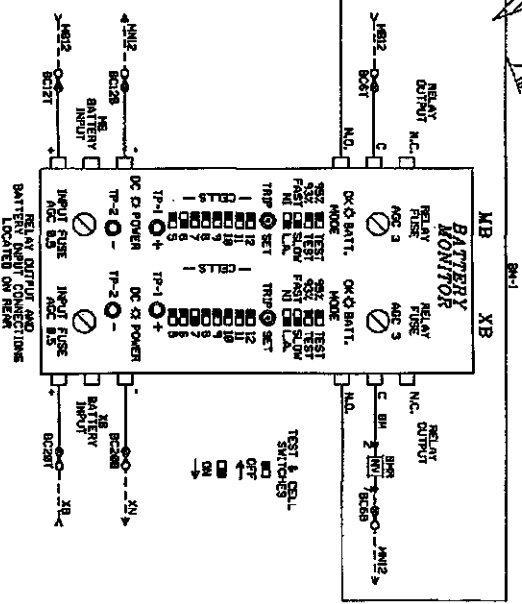
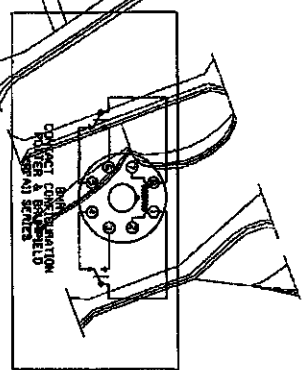
Transportation Systems

R.J. CORMAN RAILROAD

DRAWING NO. JUSTUS	CROSSING TRACK PLAN JUSTUS AVENUE BEACH CITY, OHIO	DATE 07-01-11 DESIGNED M.E.S. DRAWN --- CHECKED --- COT 142 576V MILEPOST 84.30
-----------------------	--	---



NOTES:
1. USE 240 VOLT SETTING.



THE OPERATION OF THE BATTERY AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL THE BATTERY IS FULLY CHARGED. THE SYSTEM OF AN EFFECTIVE BATTERY CHARGING SYSTEM AND BATTERY MONITORING SYSTEM IS REQUIRED TO MAINTAIN THE BATTERY IN A FULLY CHARGED STATE.

GE Transportation Systems
Good Standing
NORTH ELECTRONIC DRIVE
LORAIN, OHIO 44130

R.J. CORMAN RAILROAD

DRIVING NO. JUSTUS

BATTERY CIRCUITS

BEACH CITY, OHIO

PHILADELPHIA 19104

SHEET 2 OF 13

PROGRAM VERSION 41B OR LATER
* FIELD ADJUSTMENT TO BE MADE ACCORDING
TO THE HPE-3 INSTRUCTION MANUAL.

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

HXP-3R ADJUSTMENTS

1	APPL LENGTH	1247'
2	WARNING TIME	30 SEC.
3	LJA	.
4	YC	.
5	NO RESTART	0

OPTION ADJUSTMENTS		TRACK 1
NO	ADJUSTMENT	

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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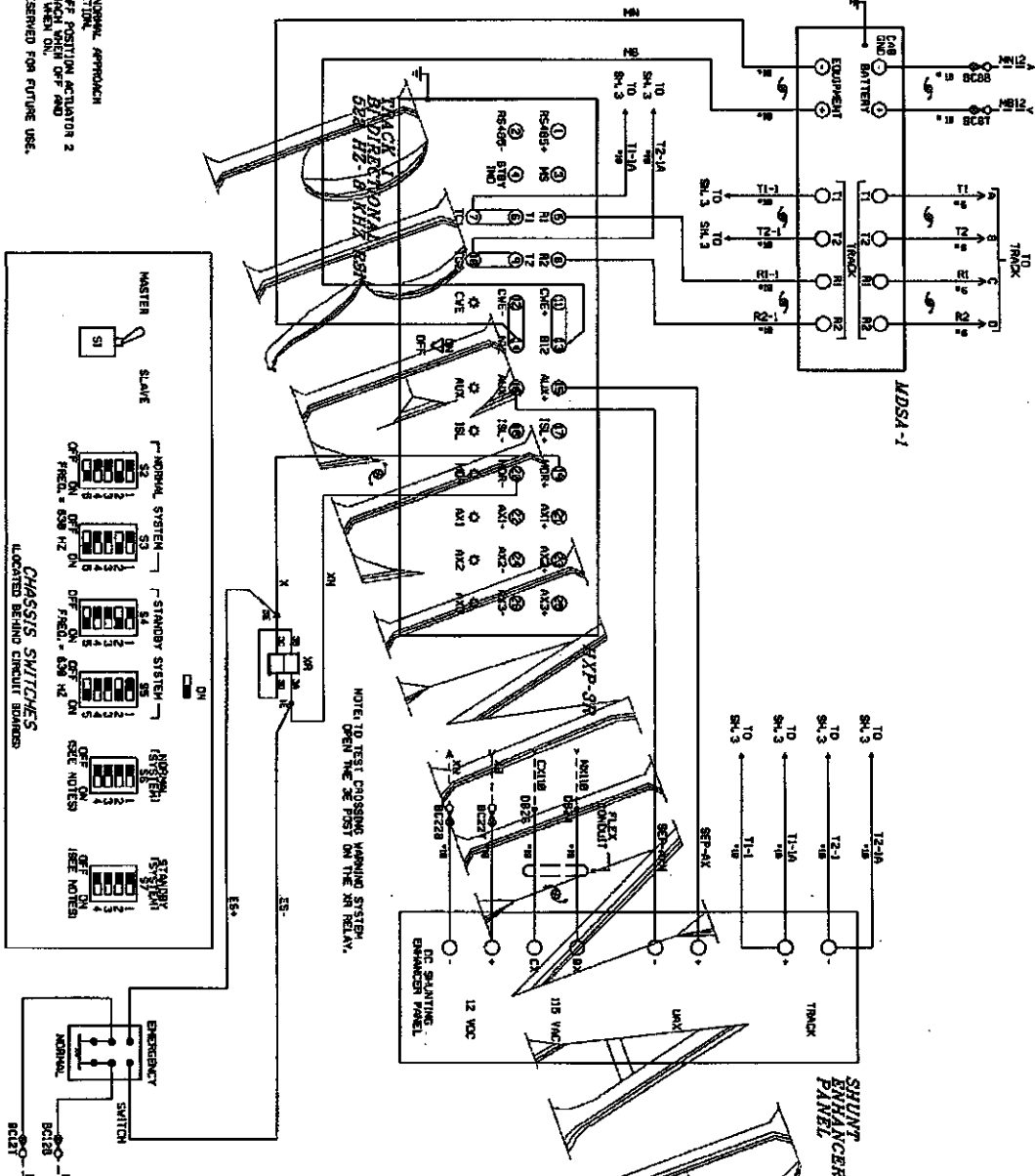
18	PT-ENR	UP
AX ADJUSTMENTS		

	AX 1	AX 2	AX 3
1. NAME			
2. AGENCY			
3. DATE			
4. BY			
5. NO. OF			
6. C/P			
7. C/P			
8. P/L			
9. P/L			
10. P/L			

CIRCUIT BOARD INFORMATION

SWITCH OR JUMPER	TRACK 1
RESI-FAIL-T JUMPER	0
RESI-LOS JUMPER	1
TLM W JUMPER	PINS 1-2
TLM W2 JUMPER	PINS 1-2
TLM W3 JUMPER	PINS 2-3
TLM MINUTE TIMECUT	5 MIN
RIO CV/AND	CV
TLM STANDBY/AUTO/MORNING	AUTO

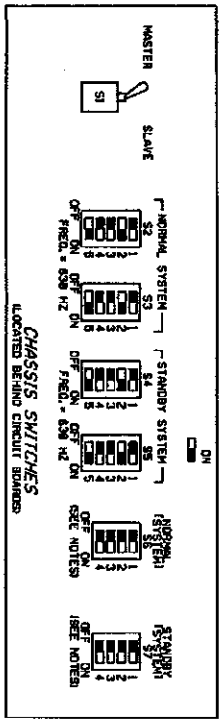
NOTE: DL = DEFAULT LEVEL
NA= NON APPLICABLE



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 VENT SHORT WHEN ON.
- 3) ACTUATOR 3 AND 4 RESERVED FOR FUTURE USE.

CHASSIS SWITCHES LOCATED BEHIND CIRCUIT BOARDS

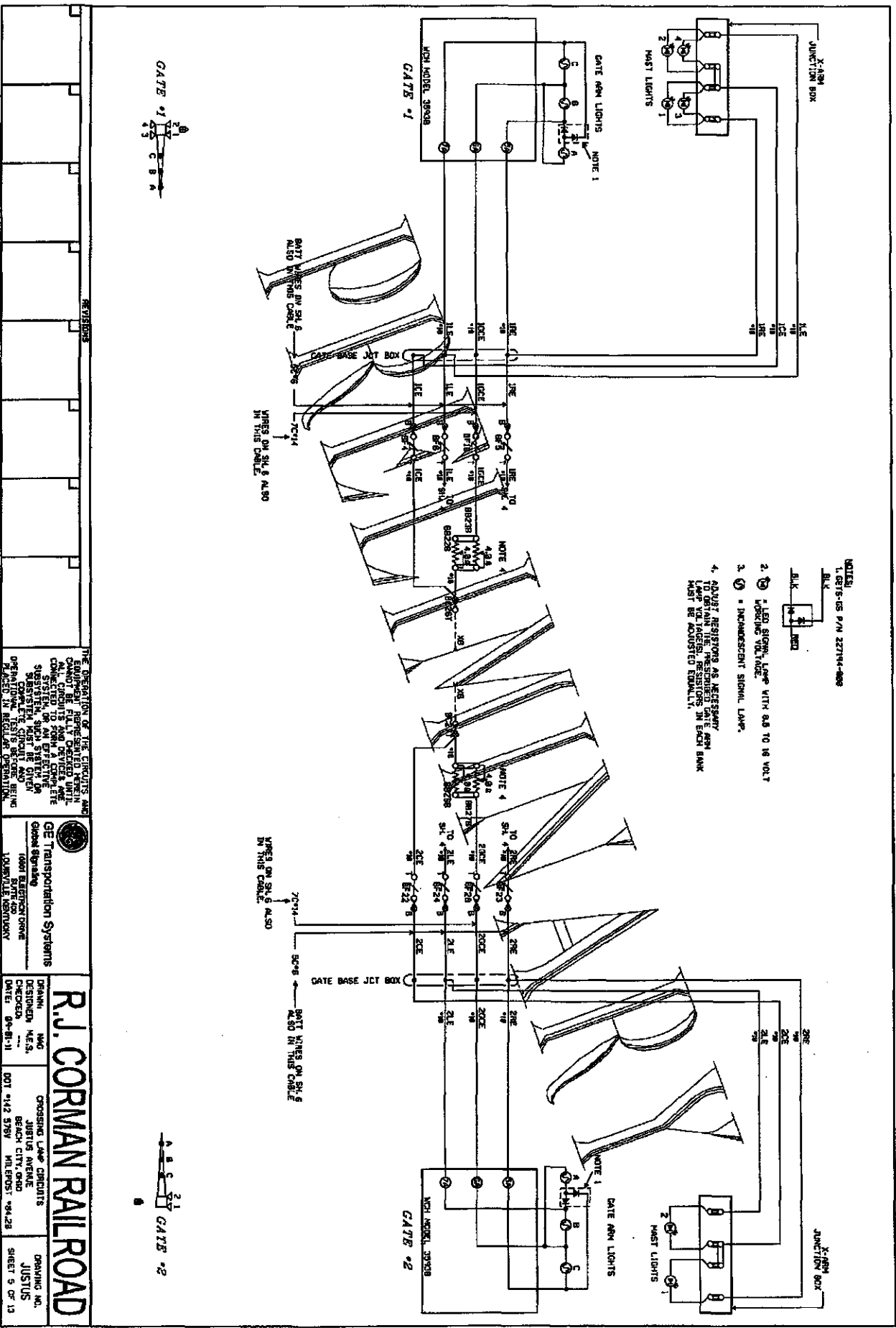


THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

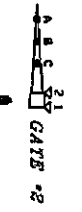
 **GE Transportation Systems**
Global Signaling
19801 ELECTRON DRIVE
SUITE 400
LOUISVILLE, KENTUCKY

R.J. CORMAN RAILROAD		DRAWING NO. JUSTUS
PREPARED BY MAD	DATE 9-11-11	SHEET 3 OF 13
DESIGNED BY M.E.G.		
CHECKED BY ---		
JOB NO. DOT 9142 EXAV		
PROJECT HAZARDOUS		
JOB NO. 9142 EXAV		

UNIVERSITY MICROFILMS
JUSTUS
SHEET 3 OF 13



- NOTES:
1. SETS-OS P/W 227194-000
 2. 1-LED SIGNAL LAMP WITH 240 TO 16 VOLT
 3. 1-INCANDESCENT SIGNAL LAMP
 4. ADJUST RESISTORS AS NECESSARY TO OBTAIN THE PRESCRIBED GATE ARM LAMP BURNING TIMES IN EACH BANK MUST BE ADJUSTED EQUALLY.



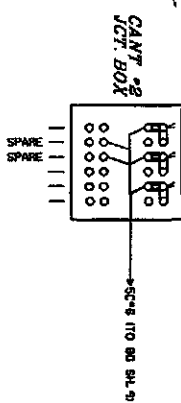
THE OPERATION OF THE CIRCUITS AND COMPONENTS OF THIS SYSTEM SHALL BE THE RESPONSIBILITY OF THE OPERATOR. THE OPERATOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM AND FOR THE PROPER OPERATION OF THE SYSTEM. THE OPERATOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE SYSTEM AND FOR THE PROPER OPERATION OF THE SYSTEM.

GE Transportation Systems
 1000 ELECTRIC DRIVE
 PITTSBURGH, PA 15222

R.J. CORMAN RAILROAD
 DRAWN: JWG
 CHECKED: JWG
 DATE: 04-01-11

CROSSING CAMP CIRCUITS
 JUSTUS AVENUE
 BEACH CITY, OHIO
 WILSONS #4-28

DRAWING NO.
 JUSTUS
 SHEET 5 OF 13

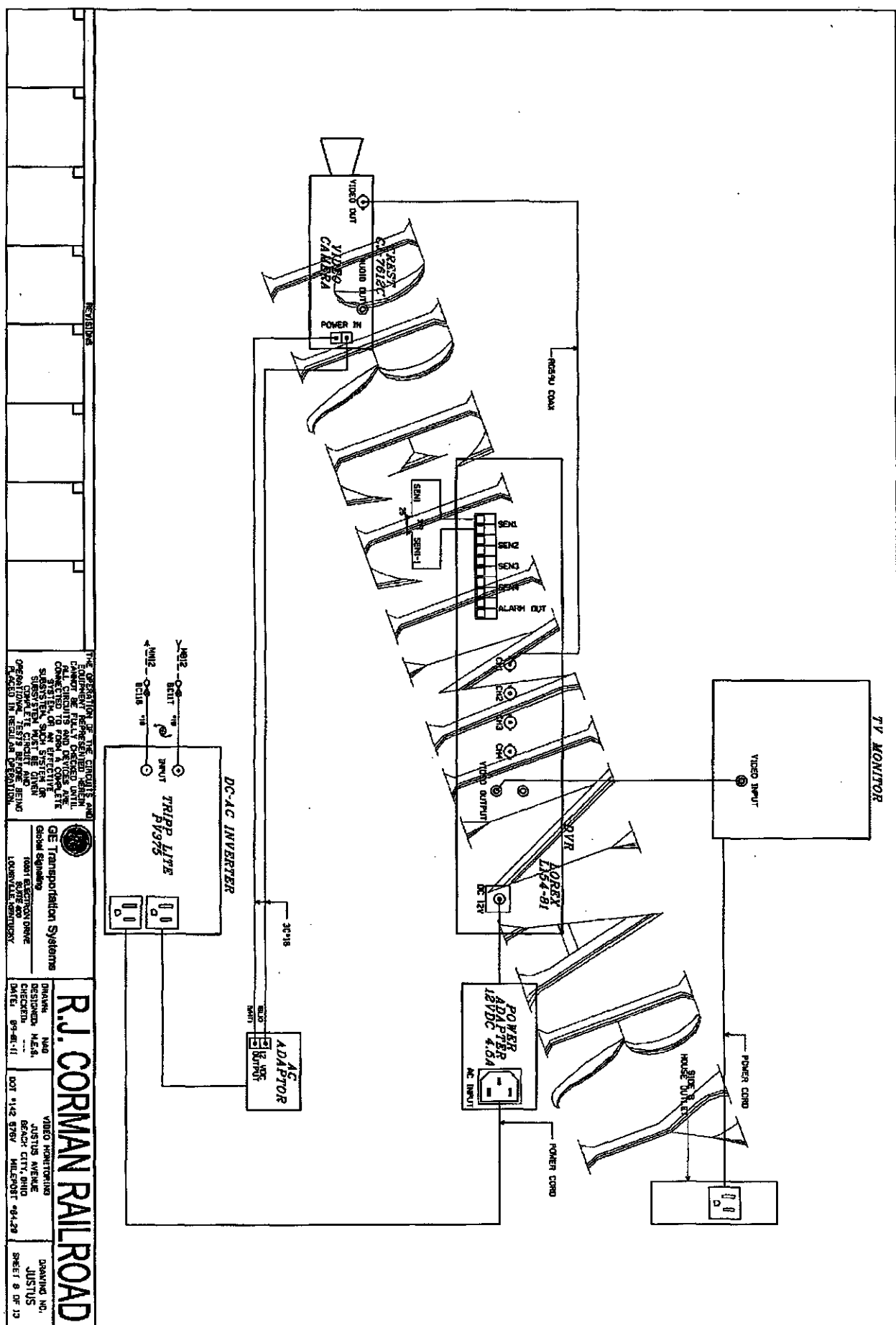


8 5
4 3
CANT *2
2 1

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REMAINED IDENTICAL. THE CIRCUITS COULD NOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE SUBSYSTEM, SUCH AS A CPU SUBSYSTEM, CAN BE GIVEN COMPLETE CHECKING AND OPERATIONAL TESTS BEFORE BEING PLACED IN OPERATION.

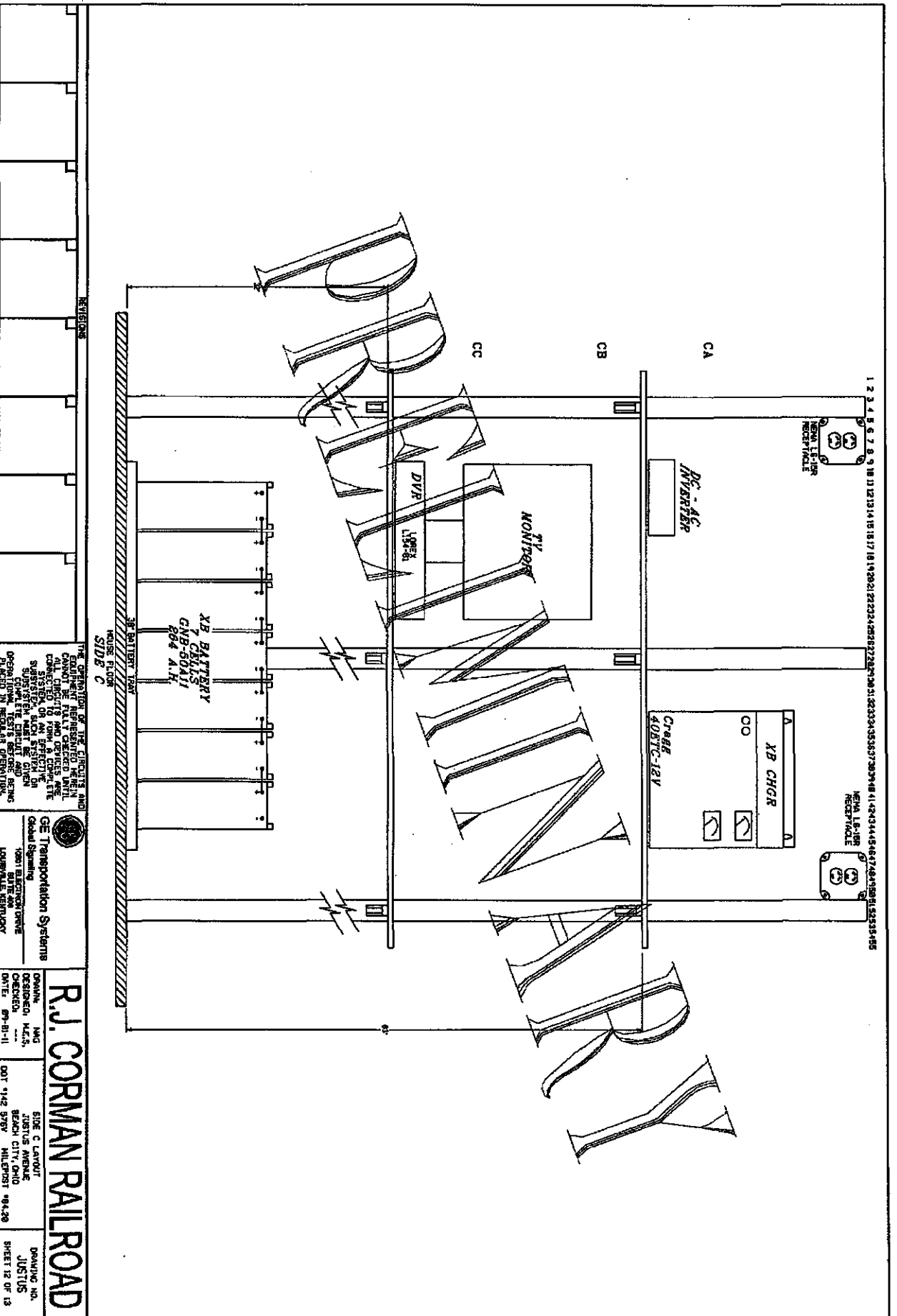

GE Transportation Systems
 Diesel Signaling
 16001 ELECTRON DRIVE
 SUITE 400
 LOUISVILLE, KENTUCKY

DRAWING NO. JUSTUS		DRAWING NO. JUSTUS	
SHEET 7 OF 13		SHEET 7 OF 13	
CROSSING LAKE CIRCUTS JUSTUS AVE BROOK CITY, OHIO		CROSSING LAKE CIRCUTS JUSTUS AVE BROOK CITY, OHIO	
DATE: 01-01-81		DATE: 01-01-81	
DRAFTER: M.E.S.		DRAFTER: M.E.S.	
CHECKED BY: ---		CHECKED BY: ---	
DTE: 01-01-81		DTE: 01-01-81	





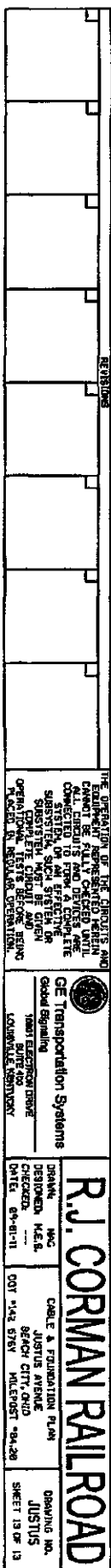
R.J. CORMAN RAILROAD



THE OPERATOR OF THE CIRCUITS AND
CANNOT BE FULLY CHECKED WITH
ALL CIRCUITS AND DEVICES ARE
OPERATING IN THE SYSTEM ON AN EFFECTIVE
SUBSYSTEM, SUCH AS THE SYSTEM IN
THE SYSTEM, SUCH AS THE SYSTEM IN
THE SYSTEM, SUCH AS THE SYSTEM IN
THE SYSTEM, SUCH AS THE SYSTEM IN
THE SYSTEM, SUCH AS THE SYSTEM IN

GE Transportation Systems
Global Signaling
1001 ELECTRON DRIVE
BURLINGTON, MA 01803
1-800-541-7000

R.J. CORMAN RAILROAD
DRAWING NO. **JUSTUS**
SHEET 12 OF 13



THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CREDIT AND DEBITAL CREDIT TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

GE Transportation Systems
Global Signaling
15801 ELECTRON DRIVE
SUITE 400
LOUISVILLE, KENTUCKY

DRAWING NO.	CABLE & FOUNDATION PLAN	DRAWING NO.
DESIGNED BY M.B. CHECKED BY ---	JUSTUS AVENUE SECH. CITY, OHIO	JUSTUS SHEET 13 OF 13
DATE: 8-9-61	DWG. 14-2 G.W. RAILROADS "A-20"	

LEGEND:
 _____ RIGID CONDUIT
 ----- UNDERGROUND CABLE

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 TOLL FREE
ONLINE UTILITIES PROTECTION SERVICE
NCA-MEMBERS
SHALL BE CALLED DIRECTLY

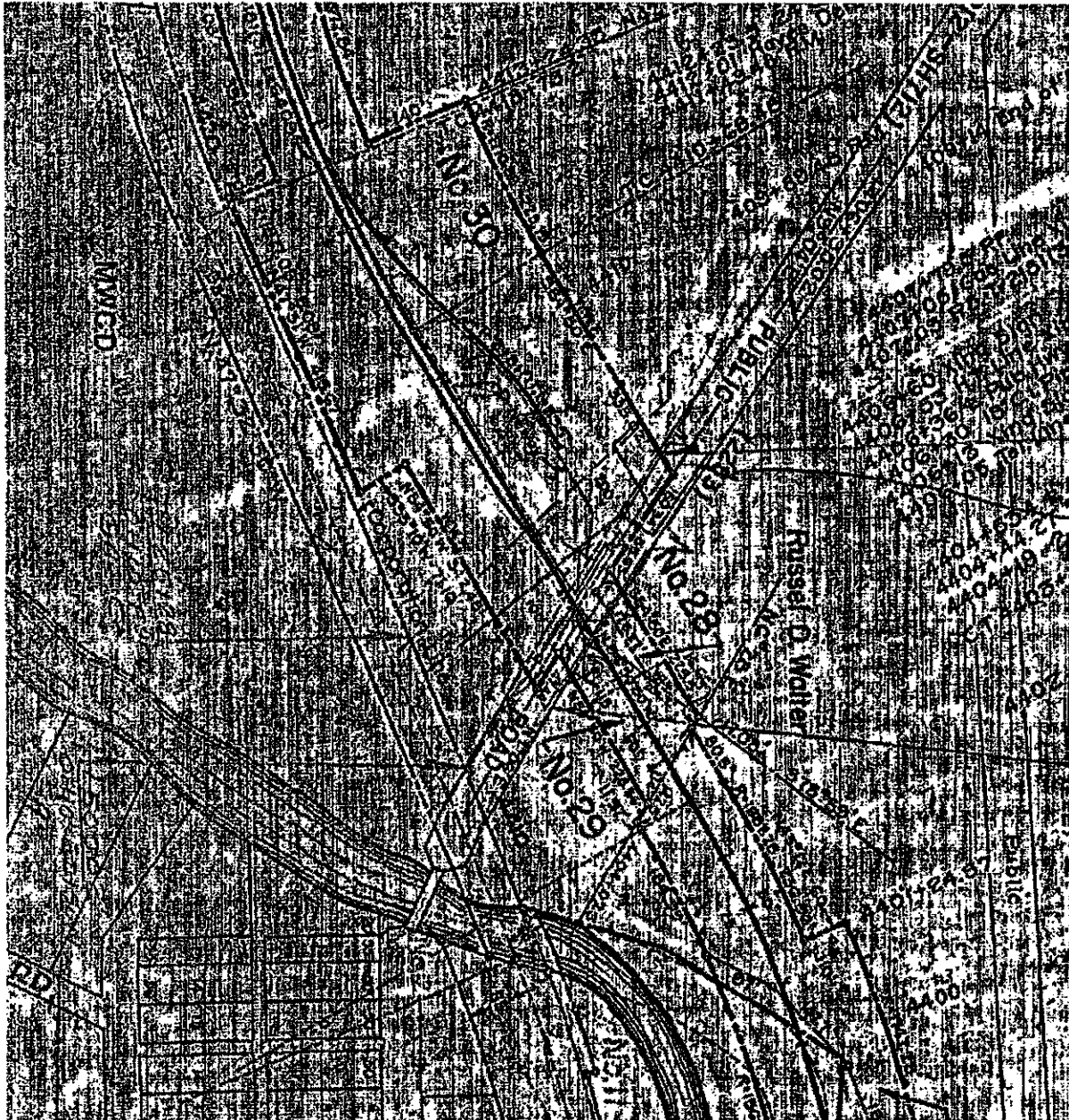
JUSTUS AVE., #142 576V

ROW on west side of track north of crossing 100'

ROW on west side of track south of crossing 50'

ROW on east side of track north of crossing 200'

ROW on east side of track south of crossing 50'



**OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION**

TO: Rob Marvin, Director of Transportation, PUCO
Leah Thomas-Dalton, Rail Division Chief, PUCO

FROM: Susan Kirkland, Manager, Safety Section, ORDC

BY: Cathy Stout, Safety Section, ORDC

SUBJECT: Stark County, RJ Corman Railroad Company (Cleveland)
Justus Ave (CR307A), 142 576V, PID 90703

DATE: November 4, 2011

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on March 8, 2001. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates plus cantilevers. A copy of the diagnostic review form is attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance – including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review
Plan & Estimate

c: George Martin, PUCO
M. Fortè (file)