orm 8-26-28—10M

STATE OF MICHIGAN

Office of the Michigan Public Utilities Commission } ss.

RECEIVED MAR 24 1930 RIGHT OF WAY DIV.

I, J. Carl Sheil, Secretary of the Michigan Public Utilities Commission,

Do Hereby Certify, That I have compared the annexed copy of Permit No. U-6753

with the original permit

recorded in

and that it is a true and correct transcript therefrom, and of the whole of such original.

Rescan Entire Done A.A.C. RW 34636 p205

In Testimony Whereof, I have hereunto set my hand and affixed the seal of the Commission, at Lansing, this 21st day of March in the year of our Lord one thousand nine hundred thirty

Carl Sheil

Secretary, Michigan Public Utilities Commission

RECORDED RIGHT OF WAY NO. 34636 p205

MEW

Form 14

STATE OF MICHIGAN

BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. U-6753

In Re Application of Detroit Edison Company (Detroit)

Pursuant to Act No. 171 of the Session Laws of 1893, as amended, application having been made to Michigan Public Utilities Commission by said Detroit Edison Company

for permission to string wires across the tracks of the Grand Trunk Railway System

and said Detroit Edison Company

having conformed to the Commission's rules governing the filing of notices and issuing of permits for the construction of electrical lines and said rail way company having waived the right of notice and hearing provided for in said act

THEREFORE, It is ordered that said Detroit Edison Company

be permitted to string the following described wires across the tracks of said railroad at the following described place:

In West Fourth Street, with:

In City of Royal Oak, Oakland County, Michigan:-) 1 - 5/16" galvanized steel guy wire.

as indicated on the attached plans, when, as and if approved.

At the point of crossing said wires shall be constructed in accordance with this Commission's rules and regulations.

Given under our hands and the Official Seal of this Commission at the City of Lansing, State of Michigan, this 21st day of March A. D. 19 30.

MICHIGAN PUBLIC UTILITIES COMMISSION
By

ROBERT H. DUNN
Chairman,

SAMUEL ODELL
Commissioner,

ALVA M. CUMMINS
Commissioner,

RUSSELL A. GORMAN
Commissioner,

JAMES BICE
Commissioner.

Countersigned

J. Carl Sheil
Secretary

MEW

RECORDED RIGHT OF WAY NO. 34636 Page 5

R 583 A

Form 4a-5-18-25-6M

STATE OF MICHIGAN
Office of the Michigan Public Utilities Commission, } **ss.**

I, Peter Fagan, Secretary of the Michigan Public Utilities Commission,

Do Hereby Certify, That I have compared the annexed copy of Permit No. U-2499

with the original permit

~~recorded in~~

and that it is a true and correct transcript therefrom, and of the whole of such original.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of the Commission, at Lansing, this fourteenth day of October in the year of our Lord one thousand nine hundred twenty-five

Secretary, Michigan Public Utilities Commission.

MEW

file 1949

file 1949

RECORDED RIGHT OF WAY NO. 34636 P205

Form 14B—1-19-24—12,500

STATE OF MICHIGAN

BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. U-2499

In Re Application of Detroit Edison Company (Detroit)

Pursuant to Act No. 171 of the Session Laws of 1893, as amended, application having been made to Michigan Public Utilities Commission by said Detroit Edison Company

for permission to string wires across the tracks of the Grand Trunk Railway System

and said Detroit Edison Company

having conformed to the Commission's rules governing the filing of notices and issuing of permits for the construction of electrical lines and said rail way company having waived the right of notice and hearing provided for in said act

THEREFORE, It is ordered that said Detroit Edison Company

be permitted to string the following described wires across the tracks of said railroad at the following described place:

City of Royal Oak, Oakland County, Michigan:-) In West Fourth Street, 300 ft. South of mile-post 13, with:

5 - #16 copper wires, 110 volts, traffic light control.

as indicated on the attached plans, when, as and if approved.

At the point of crossing said wires shall be constructed in accordance with this Commission's rules and regulations.

Given under our hands and the Official Seal of this Commission at the City of Lansing, State of Michigan, this 14th day of October A. D. 19 25.

MICHIGAN PUBLIC UTILITIES COMMISSION
By

SHERMAN T. HANDY
Chairman,

SAMUEL ODELL
Commissioner,

SAMUEL D. PEPPER
Commissioner,

ROLPH DUFF
Commissioner,

WILLIAM W. POTTER
Commissioner.

MEW

RECORDED RIGHT OF WAY NO. 34636 p205

FILE No. 1949

GRAND TRUNK RAILWAY SYSTEM

OFFICE OF SUPERINTENDENT

T. KING
SUPERINTENDENT

DURAND, MICH.,

October 13, 1925

FILE

4730-10

Michigan Public Utilities Commission,
Lansing, Michigan

Gentlemen:

Referring to application dated Oct. 8th, 1925, from the Detroit Edison Company for permission to cross the tracks of the Detroit, Grand Haven & Milwaukee R. R. Company on West Fourth Street, 300 feet south of M.P. 13, in the City of Royal Oak, Royal Oak Township, Oakland County, Michiga, with five 110 volt, 60 cycle, traffic light control wires.

I can see no objections to construction of this crossing providing all work is done in accordance with specifications of the Michigan Public Utilities Commission. With this understanding you may accept letter as our formal waiver of hearing before the Commission.

Yours truly,

Superintendent.

WH/gf

CC-Mr. F. L. Hinks, Right of Way Agt. Detroit Edison Company, Detroit, Michigan.
Refers to your favor of 8th inst.

U 2499
RX-283

form 5-26-28—10M

STATE OF MICHIGAN
Office of the Michigan Public Utilities Commission, } ss.

I, J. Carl Sheil, Secretary of the Michigan Public Utilities Commission,

Do Hereby Certify, That I have compared the annexed copy of Permit No. U-5488

2849

RECORDED RIGHT OF WAY NO. 34636 p205

2849

with the original permit

recorded in

and that it is a true and correct transcript therefrom, and of the whole of such original.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of the Commission, at Lansing, this 27th day of March in the year of our Lord one thousand nine hundred twenty-nine

Carl Sheil

Secretary, Michigan Public Utilities Commissoin

MEW

Form 14

STATE OF MICHIGAN

BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. U-5488

In Re Application of Detroit Edison Company (Detroit)

Pursuant to Act No. 171 of the Session Laws of 1893, as amended, application having been made to Michigan Public Utilities Commission by said Detroit Edison Company

for permission to string wires across the tracks of the Grand Trunk Railway System

and said Detroit Edison Company

having conformed to the Commission's rules governing the filing of notices and issuing of permits for the construction of electrical lines and said rail way company having waived the right of notice and hearing provided for in said act

THEREFORE, It is ordered that said Detroit Edison Company

be permitted to string the following described wires across the tracks of said railroad at the following described place:

In City of Royal Oak, Oakland County, Michigan:-) In West Fourth Street, 300 ft. S. of mile post 13, with:

3 - #4 copper wires, 120/240 volts, single-phase.

as indicated on the attached plans, when, as and if approved.

At the point of crossing said wires shall be constructed in accordance with this Commission's rules and regulations.

Given under our hands and the Official Seal of this Commission at the City of Lansing, State of Michigan, this 27th day of March A. D. 19 29.

MICHIGAN PUBLIC UTILITIES COMMISSION
By

JAMES BICE
Chairman,

ROBERT H. DUNN
Commissioner,

SAMUEL ODELL
Commissioner,

Commissioner,

Commissioner.

Countersigned

J. Carl Sheil
Secretary

RECORDED RIGHT OF WAY NO. 31636 p205

MEW

O & C 137

GRAND TRUNK RAILWAY SYSTEM

OFFICE OF SUPERINTENDENT

T. King,
Superintendent

RECEIVED
MAR 19 1929
RIGHT OF WAY DIV.

Durand, Michigan March 18th, 1929

FILE 10-4730

Mr. T. L. Hinks
Right of Way Agent,
Detroit Edison Company,
2000 Second Avenue,
Detroit, Michigan.

Dear Sir:

Replying to your favor 9th instant for permission to cross tracks and right of way of the Detroit, Grand Haven and Milwaukee Railway Company in West Fourth Street, 300 feet south of Mile Post 13 in the City of Royal Oak, Oakland County, Michigan, with one 120/240 volt, 60 cycle three wire, single phase secondary circuit.

I have no objections to construction of the above crossing, providing all work is done in accordance with specifications of the Michigan Public Utilities Commission and with this understanding you may accept letter as formal waiver of hearing before the Commission.

Yours truly,

Superintendent

WH/hg

P. S. In regard to the above. Although the crossing is to be located in public street it will be in territory which will be affected by new line and for this reason have referred the matter to our Chief Engineer for comment and on receipt of reply will advise you further in the matter.

RECORDED RIGHT OF WAY NO. 34636

DATA SHEET TO ACCOMPANY
DRAWING RX-283A

Name of Company
The Detroit Edison Company

Name and Location of Crossing
Over the G.T.R. tracks in West Fourth Street, 300' south of G.T.R. Mile Post #13, N.E. ¼ of N.E. ¼ of Sec. 21, Town 1 North, Range 11EEast, City of Royal Oak, Royal Oak Twp., Oakland County, Mich.

Circuits
Existing four 110 volt, 60 cycle, traffic Ltg. control wires.
Existing one 120/240 volt, 60 cycle, 3 wire, single phase secondary circuit.
Proposed one 5/16" GUY WIRE

Poles
Poles (B) & (C) 50' Idaho Cedar, 28" top circumference, 47" butt circumference at ground line set 7'-0" in clay soil.
~~Pole (A) 45' Idaho Cedar, 28" top circumference, 48" butt circumference at ground line set 6'-6" in clay soil~~.
Pole (D) 50' Idaho Cedar, 28" top circumference, 43" butt circumference at ground line set 7' in clay soil.

Guys and Guy Attachments
One 1/2" Guy from pole (B) 47' above ground to anchor (A) 16' from butt of pole (B)
One 3/8" Guy from pole (C) 37' above ground to pole (D) 18' a above ground.
All Guy wire double galvanized stranded steel with a minimum ultimate strength of 55,000 pounds per square inch.

Cross Arms
Existing two 3½" x 4½" x 96" Douglas Fir double cross arm per pole

Conductors
Existing 4 #6 Medium hard drawn solid T.B.W.P. copper wires.
Existing 3 #4 Medium hard drawn solid T.B.W.P. copper wires.

RECORDED RIGHT OF WAY NO. 34436 page 5

Guys and Guys Attachments
One 5/16" Guy from pole (B) 41' above ground to pole (C) 41' above ground

Blanket Permit

RAILROAD CROSSING DRAWINGS

Guy Clamps

One 1 5/8" x 6" three bolts galvanized steel clamp at each end, for 3/8" and 5/16" guys.
One ½" Crosby guy clamp at each end, for ½" guys.

Guy Insulators

Two O.B. #26500 or equivalent 3½" porcelain interlocking strain type insulators on 3/8" and 5/16" guys for 24,000 volt circuits and one per guy for lower voltages.

Two O.B. #25009 or equivalent 4" porcelain interlocking strain type insulators one ½" guys for 24,000 volt circuits and one per guy for lower voltages.

Guy Anchor

Four blade 8" expanding anchor on ½" guys buried 7½' deep.
8" Cone on 3/8" and 5/16" guys buried 5½' deep.

Anchor Rods

¾" x 8' round galvanized steel rods on expanding anchors.
5/8" x 6' round galvanized steel rods on 8" Cone anchors.

Cross Arms Attachments

5/8" galvanized steel center bolts.
5/8" galvanized steel spacer bolts.
4" x 4" treated pine space blocks.
¼" x 1¼" x 28" flat galvanized steel braces.
3/8" galvanized steel bolts at arm end of braces.
½" x 5" galvanized steel lag screws at pole end of braces.

Pins

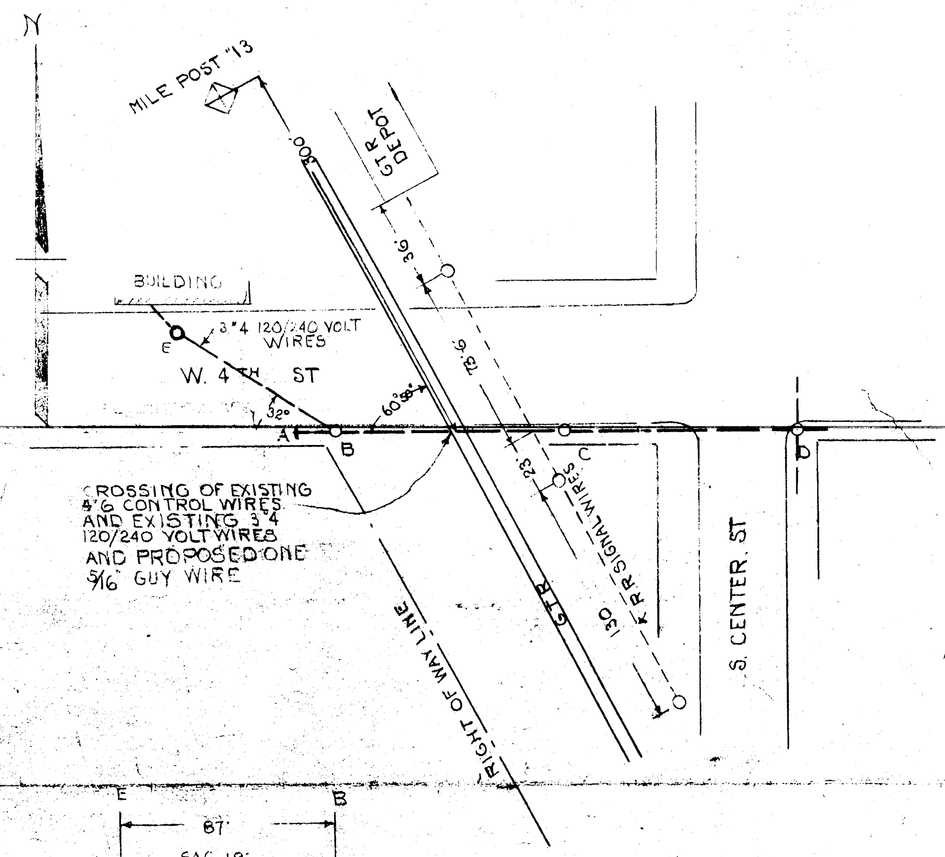
1¾" x 13¾" x 1 3/8" locust pins for 24,000 volt circuits.
1¾" x 10" x 1" locust pins for all other circuits on 3¾"x4¾" arms.
1¾" x 9" x 1" locust pins on all other circuits on 3¼"x4¼" arms.

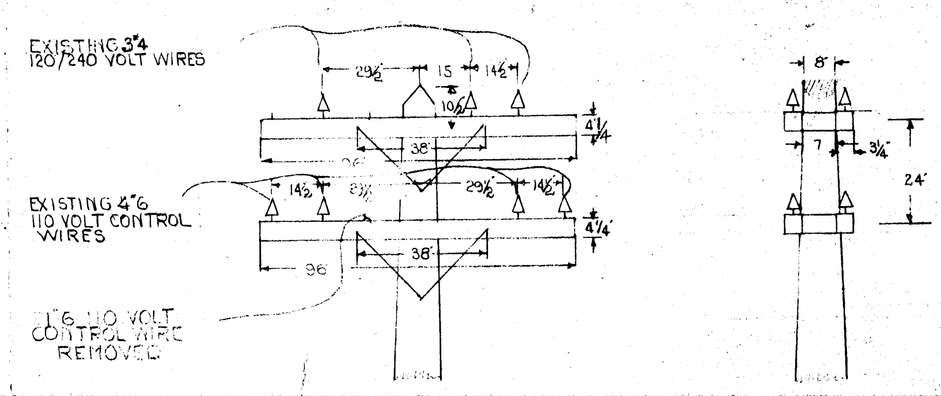
Insulators

One O.B. #11623 or equivalent pin type and four Locke #8049 or equivalent disc type insulators per wire, per crossing pole on 24000 volt circuits. (one O.B.#11623 or equivalent and two Locke #8049 or equiv.for dead ends)
Two O.B. #12847 or equivalent porcelain pin type insulators per wires per crossing pole for 4800 volt, 2400 volt, series lighting and private telephone circuits.
Two #20 Hemingray glass insulators per wire, per crossing pole for 120/240 volt secondary circuits.
One O.B.#12847 or equivalent pin type and two Colonial #11940 or equivalent disc type insulators per wire for #0000 primary circuits and one #20 Hemingray glass pin type and two O.B.#25009 or equivalent strain type insulators per wire for #0000 secondary circuits per crossing pole.

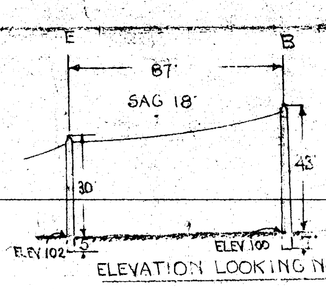
Ties

Standard top groove tie on 24,000 volt, 4800 volt, 2400 volt, series lighting and private telephone circuits.
Standard side groove tie on 120/240 volt secondary circuits.
#8 soft, solid, bare copper tie wire for 24,000 volt circuits.
#4 or #6 soft, solid, weatherproof copper tie wires on all other circuits using weatherproof copper wire.
#6 bare aluminum tie wire on A.C.S.R. conductors.



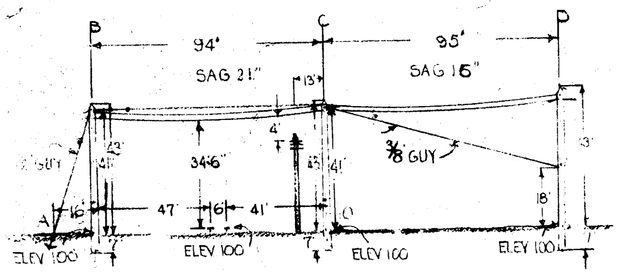


POLES (B) AND (C) LOOKING WEST LOOKING SOUTH



ELEVATION LOOKING NORTH

PLAN OF CROSSING



ELEVATION OF CROSSING LOOKING NORTH

PURPOSE OF LINE
RAISING LEAD TO CLEAR NEW HIGHER R.R. SIGNAL WIRES

REVISION
3-12-30 POLES (B) (C) CHANGED FROM 45' TO 50' POLES. POLE A REMOVED. 4"6 CONTROL WIRE REMOVED FROM CROSSING SPAN. 5/16" GUY WIRE INSTALLED IN CROSSING SPAN

EXISTING PERMIT U-5488

U-6753

VILLAGE
~~CITY~~ ROYAL OAK
COUNTY OAKLAND
TOWNSHIP ROYAL OAK
SURVEY NO. OF TWP. 1 NORTH
RANGE NO. 11 EAST
SECTION NO. NE¼ OF NE¼ OF SEC 21

THE DETROIT EDISON CO.
PLAN SUBMITTED TO MICH. PUBLIC UTILITIES COMMISSION
FOR 120/240 V CROSSING
OVER GTR TRACKS
DRAWN BY FEH DATE 3-6-29
CHECKED BY DATE 3-6-29

DRAFTING & SURVEYING BUREAU RX # 283 A