

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-5352

2807

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 28th

day of January in the year of our Lord

one thousand nine hundred twenty-nine

Secretary, Michigan Public Utilities Commission.

MEW

2807

RECORDED RIGHT OF WAY NO.

5464
2/22

STATE OF MICHIGAN
BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

U-5352

Standard Railroad Wire-Crossing Permit No.

Detroit Edison Company (Detroit)

In Re Application of

Pursuant to Act No. 171 of the Session Laws of 1898, as amended, application having been made to Michigan Public Utilities Commission by said **Detroit Edison Company**

Grand Trunk Railway System

for permission to string wires across the tracks of the

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

Detroit Edison Company

THEREFORE, It is ordered that said

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

In Orion Township,)
Oakland County,)
Michigan:-)

4380 ft. South of G.T. Mile Post #9
in SE 1/4 of Sec. 16, T.4 N., R.10 E.,
removing - 6 - #4 copper wires,
secondary circuit, single and three-
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, Michigan, this 28th day of January 1929.
A. D. 19

MICHIGAN PUBLIC UTILITIES COMMISSION
By

JAMES BICE

Chairman,

BYRON P. HICKS

Commissioner,

ROBERT H. DUNN

Commissioner,

SAMUEL ODELL

Commissioner,

SIDNEY E. DOYLE

Commissioner.

Countersigned

J. Carl Shell

Secretary

RECORDED RIGHT OF WAY NO. 34636-10130

Rx 309A

10/10/50

10/10/50

10/10/50

10/10/50

10/10/50

10/10/50

10/10/50

RECEIVED BY THE OFFICE OF THE ATTORNEY GENERAL

OFFICE OF THE ATTORNEY GENERAL

CHICAGO

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-2649

with the original permit .

~~rec'd of file~~

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 18th

day of January in the year of our Lord

one thousand nine hundred twenty-six



Secretary, Michigan Public Utilities Commission.

MEW

RECORDED RIGHT OF WAY NO. 34636
p120

2015

2015

STATE OF MICHIGAN
BEFORE MICHIGAN PUBLIC UTILITIES COMMISSION

Standard Railroad Wire-Crossing Permit No. U-2649

In Re Application of Detroit Edison Company (Detroit)

Pursuant to Act No. 171 of the Session Laws of 1898, 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 Orion Township, } In Section line road, 4380 ft. South of mile-
Oakland County, } post #9, Sec. 16, T-4-N, R-10-E, with
Michigan:- }
3 - #4 copper wires, 120/240 volts, Single-phase;
3 - #4 " " , 240 " , three- " ;
3 - #4 " " , 4800 " , " - " .

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 16th day of January A. D. 19 26.

MICHIGAN PUBLIC UTILITIES COMMISSION

By

SHERMAN T. HANDY

Chairman,

SAMUEL ODELL

Commissioner,

SAMUEL D. PEPPER

Commissioner,

ROLEPH DUFF

Commissioner,

WILLIAM W. POTTER

Commissioner.

RECORDED RIGHT OF WAY NO. 34636

BEFORE THE NATIONAL ELECTORAL COMMISSION
STATE OF MICHIGAN

IN RE: STATE OF MICHIGAN

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... 1/2" ... 3/16" ... 1/2" ...

... guy traps at each end, for 1/2 days.

Material of

3.0. 1. 2500' - 3" porcelain interlocking strand type ...
... 1/16" ... 24, 000 volt circuits ...

... 1/16" ... 24, 000 volt circuits ...

Notes

... ON ... carried 5' across.

RECORDED RIGHT OF WAY NO. 34636

P120

... 4" ... 24, 000 volt circuits ...

... 1/2" ... 3/16" ... 1/2" ...

... galvanized steel braces.

... 1/2" ... 24, 000 volt circuits ...

... 1/2" ... 24, 000 volt circuits ...

1. ... 24, 000 volt circuits ...

A - 1-1/2" ... for all or ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

Notes

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

... 24, 000 volt circuits ...

Clamps

One 1 5/8" x 6" three bolts galvanized steel clamp at each end, for 5/8" and 5/16" guys.
Two 1/2" Crosby guy flange at each end, for 1/2 guys.

Insulators

Two O.S. #25000 - 3/4" 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.S. #25007 - 4" porcelain interlocking strain type insulators on 1/2" guys for 24,000 volt circuits and one per guy for lower voltages.

Guy Anchors

Four Black "Everatick" on 1/2" guys buried 7' deep.
94 Guys ON 3/8" and 5/16" guys buried 6' deep.

Locust Legs

3/4" x 18" round galvanized steel rods on "Everatick" anchors.
5/8" x 6" round galvanized steel rods on 6" cone anchors.

Locust Arm Attachments

5/8" Galvanized steel center bolts.
5/8" Galvanized steel spacer bolts.
4" x 4" treated pine space blocks.
1/4" x 1 1/2" x 28" flat galvanized steel braces.
3/8" galvanized steel bolts at arm end of braces.
1/2" x 5" galvanized steel lag screws at pole end of braces.

Pins

1 1/2" x 14" x 1 3/8" locust pins for 24,000 volt circuits.
1 1/2" x 10-1/8" x 1" locust pins for all other circuits.

Insulators

One O.B. #11623 pin type and four Locke #8049 disc type insulators per wire, per crossing pole on 24,000 volt circuits.
(One O.B. #11623 and two Locke #8049 for dead ends).
Two O.B. #12247 porcelain pin type insulators per wire, 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 pin type and two Colonial #11940 disc type insulators per wire for #0000 primary circuits and one #20 Hemingray glass pin type and two #25009 strain type insulators per wire for #0000 secondary circuits per crossing pole.

Ties

Standard top groove tie on 24,000 volt, 4,800 volt, 2,400 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.
#6 soft, solid, weatherproof copper tie wires on all other circuits.

Checked by: *R. B. ...*

RECORDED RIGHT OF WAY NO. 34636
P120

DATA SHEET TO COMPANY
DRAWING RX-309A

1-19-13
[Signature]

Name of Company

The Detroit Edison Company.

Name and Location of Crossing

Over the G.T.F.E. in section line Rd. approx. 4380' south of the mile post #9, S.E. $\frac{1}{4}$ Sec. 16, Town 4 north, Range 10 East, Orion Twp., Oakland County, Mich.

Circuits

Existing one 4800 volt, 60 cycle, 3 wire, 3 phase distribution circuit.
Removing one 3 phase and one single phase secondary circuit.

Poles

Pole (A) & (C) 45' Idaho Cedar, 28" top circumference, 45" butt circumference at ground line set 6'-6" in clay soil.
Poles (B) & (D) 40' Idaho Cedar, 28" top circumference, 43" butt circumference at ground line set 6' in clay soil.
Pole (K) 35' Michigan Cedar, 22" top circumference, 38" butt circumference at ground line set 6' in clay soil.

Guys and Guy Attachments

One 1/2" Guy from pole (A) 31' above ground to anchor (G) 30' from butt of pole (A).
One 1/2" Guy from pole (B) 30' above ground to anchor (F) 30' from butt of pole (B).
One 5/16" Guy from pole (K) 27' above ground to anchor (J) 21' from butt of pole (K).
One 5/16" Guy from pole (B) 31' above ground to stub (E) 15' above ground.
One 5/16" Guy from stub (E) 15' above ground to anchor (H) 7' from butt of stub (E).
All Guy wire double galvanized stranded steel with a minimum ultimate strength of 55,000 pounds per square inch.

Cross Arms

Existing one 3 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " x 96" Douglas Fir double cross arm on pole (A) & (B).
Proposed one 3 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " x 96" Douglas Fir double Buck arm and one 3 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " x 96" Douglas Fir double Buck arm on pole (A).
Removing one 3 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ " x 96" double cross arm from poles (A) & (B).

Conductors

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

*Blunket
Mason*

RECORDED RIGHT OF WAY NO. 34636
p120

DATA SHEET TO ACCOMPANY
DRAWING RX-309A

1-19-73
J. E. [Signature]

Name of Company

The Detroit Edison Company.

Name and Location of Crossing

Over the G.T.F.R. in section line Rd. approx. 4380' south of the
mile post #9, S.E. $\frac{1}{4}$ Sec/ 16, Town 4 north, Range 10 East, Orion
Twp., Oakland County, Mich.

Circuits

Existing one 4800 volt, 60 cycle, 3 wire, 3 phase distribution circuit.
Removing one 3 phase and one single phase secondary circuit.

Poles

Pole (A) & (C) 45' Idaho Cedar, 28" top circumference, 45" butt circum-
ference at ground line set 6'-6" in clay soil.
Poles (B) & (D) 40' Idaho Cedar, 28" top circumference, 43" butt circum-
ference at ground line set 6' in clay soil.
Pole (K) 35' Michigan Cedar, 22" top circumference, 38" butt circumference
at ground line set 6' in clay soil.

Guy and Guy Attachments

One 1/2" Guy from pole (A) 31' above ground to anchor (G) 30' from butt
of pole (A).
One 1/2" Guy from pole (B) 30' above ground to anchor (F) 30' from butt
of pole (B).
One 5/16" Guy from pole (K) 27' above ground to anchor (J) 21' from butt
of pole (K).
One 5/16" Guy from pole (B) 31' above ground to stub (E) 15' above ground.
One 5/16" Guy from stub (E) 15' above ground to anchor (H) 7' from butt
of stub (E).
All Guy wire double galvanized stranded steel with a minimum ultimate
strength of 55,000 pounds per square inch.

Cross Arms

Existing one 3 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " x 96" Douglas Fir double cross arm on pole (A) & (B).
Proposed one 3 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " x 96" Douglas Fir double Buck arm and one 3 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ "
x 96" Douglas Fir double Buck arm on pole (A).
Removing one 3 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " x 96" double cross arm from poles (A) & (B).

Conductors

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

Blanket
removed

RESERVED RIGHT OF WAY NO.

34636

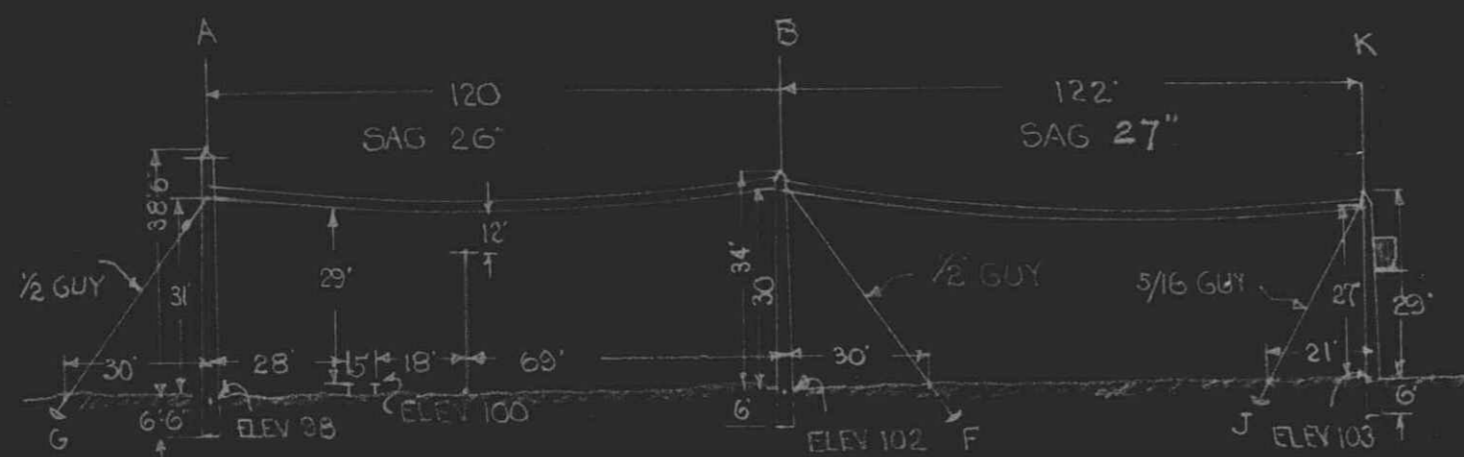
p120



PLAN OF CROSSING



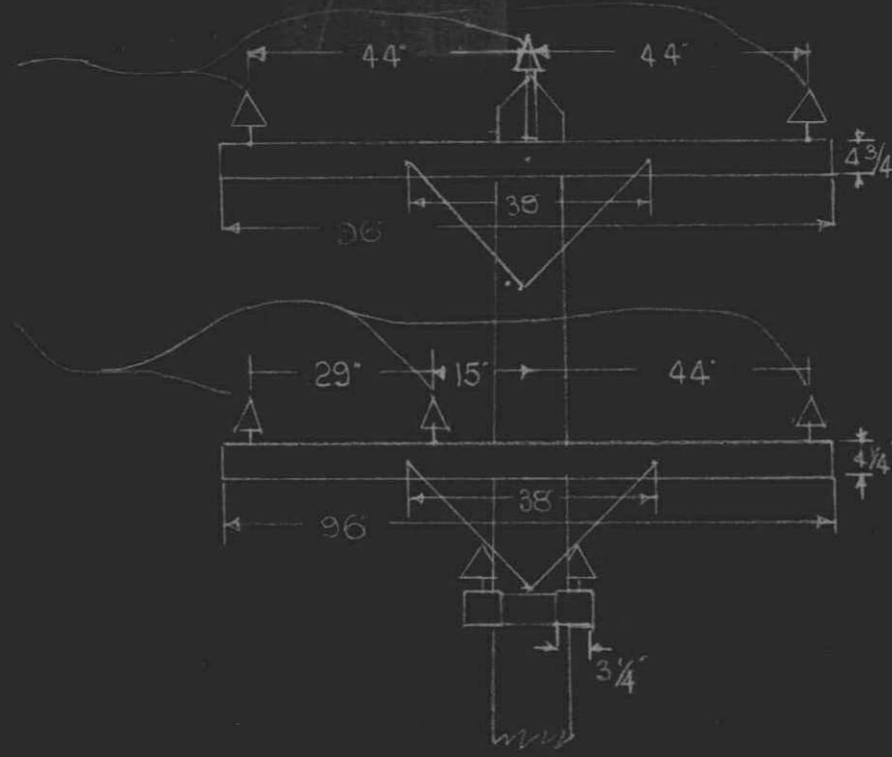
ELEVATION LOOKING EAST



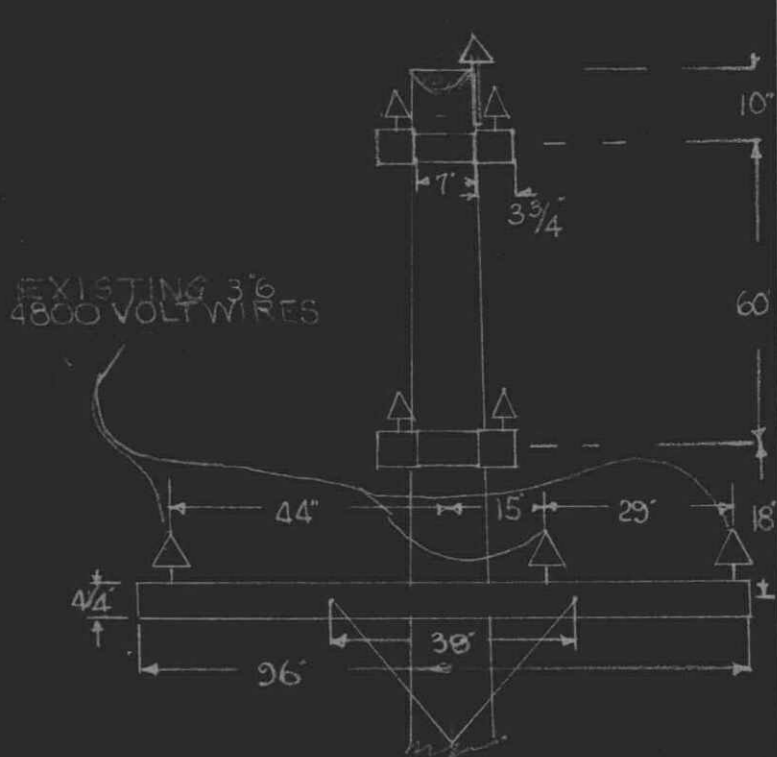
ELEVATION OF CROSSING LOOKING NORTH

PROPOSED 3"Ø
24000 VOLT WIRES
(IMMEDIATE)

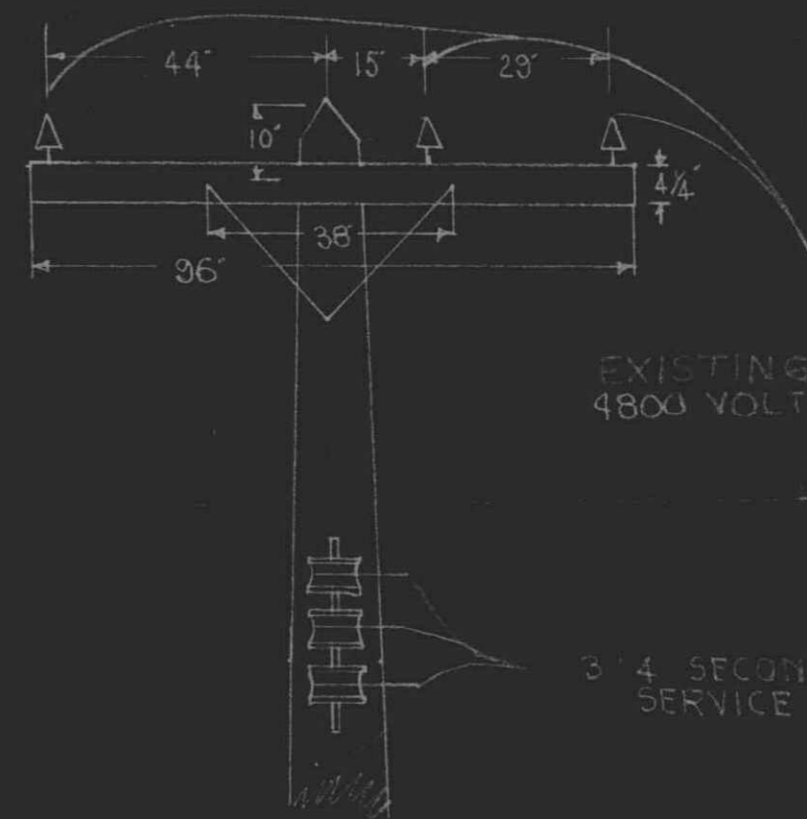
PROPOSED 3 1/2"
4800 VOLT WIRES
(IMMEDIATE)



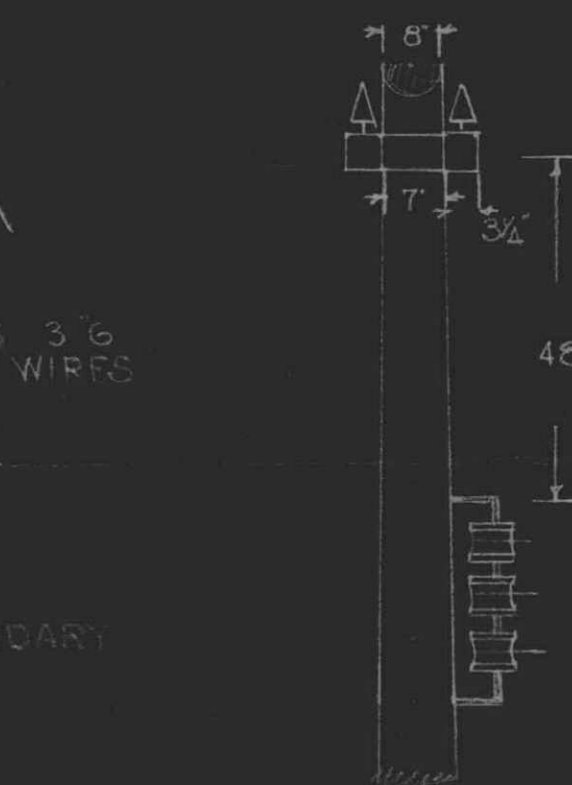
POLE (A) LOOKING NORTH



POLE (A) LOOKING WEST



POLE (B) LOOKING WEST



POLE (B) LOOKING NORTH

EXISTING 3 1/2"
4800 VOLT WIRES

3 1/4" SECONDARY
SERVICE

NOTE

PURPOSE OF LINE
REMOVING SINGLE PHASE AND
3 PHASE SECONDARY WIRES
FROM CROSSING SPAN AND
REBUILDING CROSSING ON
ACCOUNT OF NEW BLOOMFIELD-
OXFORD 24000 VOLT TRANSMISSION
LINE PARALLEL TO RR.

THIS DWG. SUPERCEDES RX-309
PERMIT U-2649 FOR CROSSING
AT THIS LOCATION

U-2649 EXISTING PERMIT.

APPROVED
FOR
MICHIGAN PUBLIC UTILITIES
COMMISSION
J. H. ... CHIEF ENGINEER
FILE U-5352 DATE JAN. 25 1929

CITY 8.17 MILES NORTH OF PONTIAC
COUNTY OAKLAND
TOWNSHIP ORION
SURVEY NO. OF TWP. 4 NORTH
RANGE NO. 10 EAST
SECTION NO. SE 1/4 SEC. 16

THE DETROIT EDISON CO.
PLAN SUBMITTED TO MICH.
PUBLIC UTILITIES COMMISSION
FOR 4800 VOLT CROSSING
OVER GTR SPIR TRACKS
DRAWN BY EFH DATE 1-8-29
CHECKED BY DATE

RECORDED
JAN 25 1920
MICHIGAN
F. G. W. L. D.
REGISTERED

R 34636 P 120

RECORDED RIGHT OF WAY NO. 34636 P 120