

1-28-81

To: Records Center

From: Sharon Sounart
Real Estate and Rights of Way Department

Subject: DECo. Spur Track to Enrico Fermi P.P. Crossing of the Brownstown-Enrico Fermi #3, 345-kv Transmission line over The Detroit & Toledo Shore Line Railroad at Approximately 410 Feet West of LeRoux Road.

The attached papers are for records center storage. Information about the completed transaction is shown in the following summary.

*DET + TOL
Shore Line*

R.R. 1	R.R. INVOICE NO. M.P.S.C. NO. OR R.E. & R/W NO. 4	Update 10 Type	D.E.C.O. RECORDS CENTER FILE NO. 15	R.X. NO. OR MAP NO. 20	Facility 21	Agreement Date 27
04		11		4324	4	110680

Payment Frequency 28	Rental 29	OH-UG Code 33	Division 34	County 35	City or Township 36	Section 45
X	XXXXX	1	6	02	FRENCHT R	12

Location																				
47									80											
	A	P	P	R	O	X	4	1	0	F	T	W	L	E	R	O	U	X	R	D

- Update Type Codes
 1 = New Agreement
 2 = Revised Agreement
 3 = Terminated Agreement

~~The Accounts Payable Department is requested to start or change the rental payment effective~~

Approved *RS Sounart*

- cc: Accounts Payable
 Service Planning
 System Engineering
 Transmission & Distribution

RECORDED RIGHT OF WAY NO.

33610

**Detroit
Edison**

2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

January 8, 1981

Mr. John Lonskey
Department of Transportation
2 North Plaza
Jackson, MI 49202

Gentlemen:

The Detroit Edison Company plans to construct, operate,
and maintain an overhead line in Frenchtown Township,
Monroe County

The line will cross the tracks of the Detroit & Toledo
Shoreline Railroad Company. The wires to be installed
are:

One 345-kV Transmission line
Three phase with two ground wires

RECEIVED

JAN 13 1981

JACKSON DISTRICT #8
Michigan State Highway Department

The railroad has given the following waiver of hearing:

- Waiver dated 11-6-80 enclosed
- Blanket Waiver on file with the MPSC.

The proposed crossing is shown on drawing No. RX- 4324

- This is a new crossing.
- This is a re-construction.

Please grant a State Highway Permit to the Detroit Edison
Company for the proposed crossing.

APPLICATION NO. 5800004-81R
Permit No. JN-27-81

Date 1-15-81
By John Lonskey

APPROVED

JAN 15 1981
J. E. Langens
/ss
DISTRICT UTILITIES ENG.
M.D.S.H. & T.

Very truly yours,

R. G. DuPont
R. G. DuPont
Office Supervisor
RE & R/W Department
406 G. O.

RECORDED RIGHT OF WAY NO.

33610

11-19-80

THE DETROIT AND TOLEDO SHORE LINE RAILROAD COMPANY

131 WEST LAFAYETTE AVENUE

DETROIT, MICHIGAN 48226

W. G. BLADES
VICE PRESIDENT & GENERAL MANAGER

D&TSL File No. 9.20
Det. Edison - RX 4324

November 6, 1980

Mr. R. G. DuPont
Office Supervisor
Real Estate & R/W Department
Detroit Edison
2000 Second Avenue
Detroit, Michigan 48226

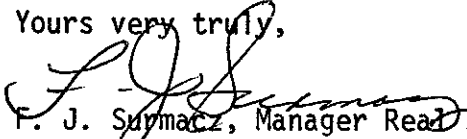
Dear Mr. DuPont:

In accordance with your letter of August 4, 1980 requesting a waiver of hearing for authority to construct and maintain a crossing over The Detroit and Toledo Shore Line Railroad Company's tracks, this letter will serve as the Shore Line's consent and approval to construction of said crossing at a point you have described as approximately 410 feet west of Leroux Road, in Frenchtown Township, Monroe County, Michigan, to consist of the following:

One 345,000 volt, 60 cycle, 3 phase transmission line with two groundwires.

This construction will be on private property, and therefore, a license will not be required.

Yours very truly,



F. J. Surmacz, Manager Real Estate & Tax
Grand Trunk Western Railroad Company
For: The Detroit and Toledo Shore Line Railroad Company

RECORDED RIGHT OF WAY NO. 33610

**Detroit
Edison**

2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

October 21, 1980

Mr. Frank J. Surmacz
Manager-Real Estate & Tax
Grand Trunk Western Railroad Company
131 West Lafayette Boulevard
Detroit, Michigan 48226

Dear Mr. Surmacz:

Enclosed are the two crossing requests which I have been trying to secure from The Detroit & Toledo Shoreline Railroad Company. Also, all of the correspondence regarding this matter is enclosed.

Anything you can do to assist in bringing this matter to a close will be appreciated. As you can see, it has been an ongoing problem for two years.

Thank you for your assistance.

Sincerely,



R. G. DuPont
Office Supervisor
Real Estate & R/W Department
406 G. O.

RGD:ss

Enc.

RECORDED RIGHT OF WAY NO.

33610

Detroit
Edison

2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

Mr English
Mr. E. L. Marks, Chief Engineer
The Detroit & Toledo Shoreline Railroad Co.
4820 Schwartz Road
Toledo, Ohio 43611

9-14-78

RX 4324

NO
JUST A WAIVER
we own spur
AGR. NEEDED

Proposed Overhead Wire Crossing:

One 345 K. V. Transmission line
3 Phase with two ground wires

Specific Location

Detroit Edison Co. Spur Track to Enrico Fermi P. P.

Crossing of the Brownstown-Enrico Fermi #3, 345 KV transmission line over the Detroit & Toledo Shore Line Railroad at approximately 410 feet west of Leroux Road.

R. R. Valuation Station _____ R. R. Mile Post _____

City/Village _____ Township Frenchtown

County Monroe Detroit Edison Plan Attached R/X 4324 Sect 17

This is a New Crossing This is a Reconstruction of Existing Crossing

Previous Agreement Information (if any) Date _____ (R. R. Plan) _____

Blanket Waiver of Hearing Covers _____ Waiver of Hearing Requested
(Waiver of Hearing to be mailed to applicant listed below)

All construction will be done in accordance with the rules and regulations of the Michigan Public Service Commission.

John A. Haddow
JOHN A. HADDOW

RECORDED
RIGHT OF WAY NO.

33610

BW 9996

Name of Company

The Detroit Edison Company

Name and Location of Crossing

Crossing of the Brownstown-Enrico Fermi #3, 345 kV transmission line over the Detroit & Toledo Shore Line Railroad at approximately 3,000 feet south of Post Road and approximately 410 feet west of Leroux Road.

Northwest 1/4 of section 17, Frenchtown Township, Monroe County, Michigan.

Circuits

One 345,000 volt, 60 cycle, 3 phase transmission line with two groundwires.

Towers and Crossarms

See attached drawings EH and 4T.

Conductors

Six 1431 Mcm 45/7 ACSR with two 7/16" steel groundwires.

Insulators

Thirty-two 5-3/4 x 10" 40,000# per phase in suspension.
Thirty-four 5-3/4 x 10" 40,000# per phase in deadend.

Guy and Guy Attachments

None

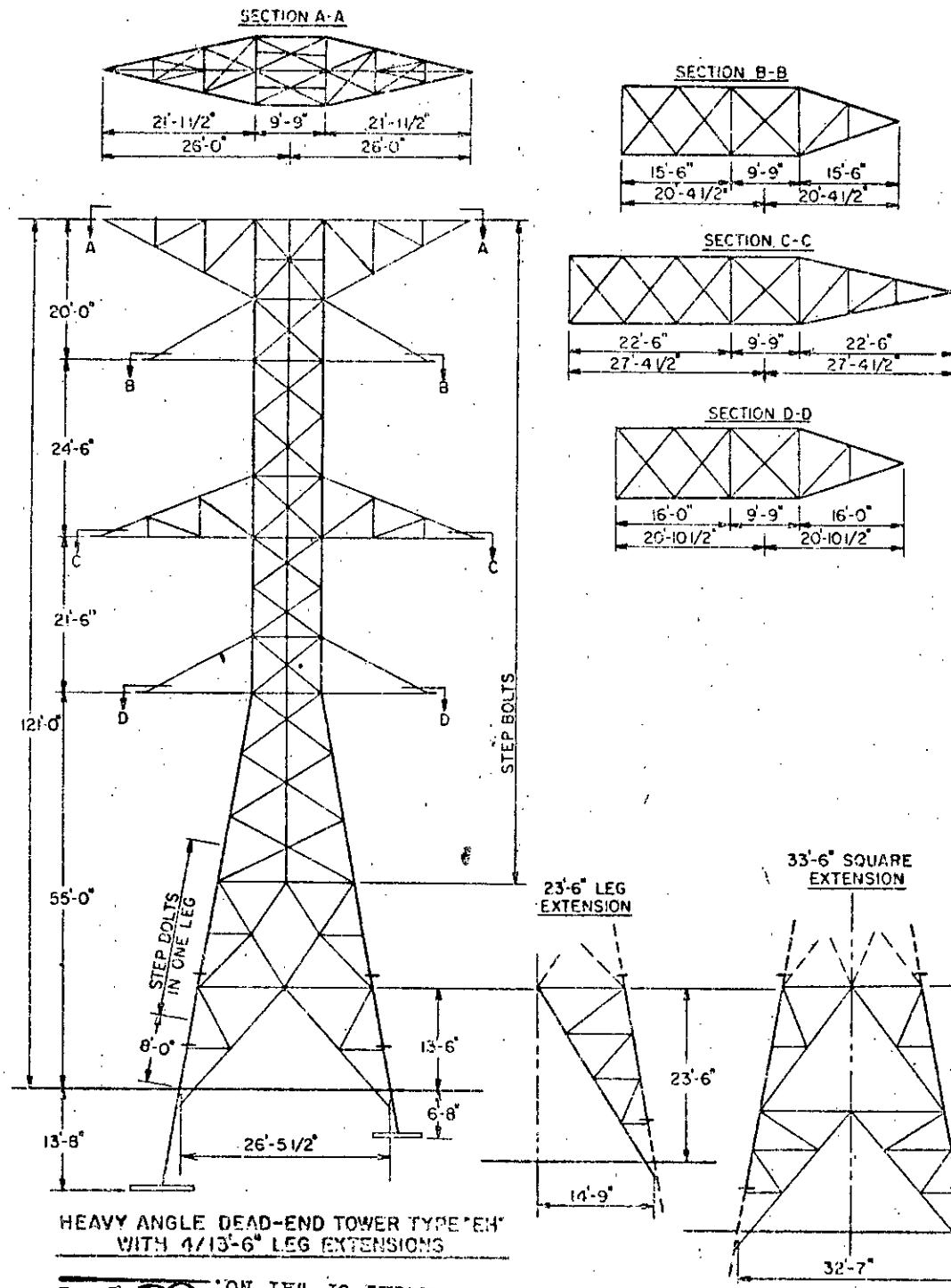
Suspension and Deadend Details

See attached drawing, ED1-7308

System Engineering Department
CVP/nld 9/5/78

RECORDED RIGHT OF WAY NO.

33610



LOADS

1. Vertical
 - a. 2 Groundwires @ 1100# = 2200#
 - b. 6 Two-Conductor Bundles @ 5000# = 30000#
 - Total = 32200#
- 2a. Transverse-Wind on Wires (1/2" ice, 8# wind)
 1. 2 Groundwires @ 1100# = 2200#
 2. 6 Two-Conductor Bundles @ 3000# = 18000#
 - Total = 20200#
- 2b. Transverse-Angle in Line
 1. 2 Groundwires @ 6000# = 12000#
 2. 6 Two-Conductor Bundles @ 22000# = 132000#
 - Total = 144000#
3. Longitudinal
 - a. 2 Groundwires @ 6000# or = 12000#
 - b. 6 Dual Conductors @ 22000# = 132000#
 - Total = 144000#
4. Wind on Tower (from any direction) of 13 psf on 1-1/2 times projected area of one face
5. Vertical Load of Tower
6. Torsion
 - a. 1 Groundwire @ 6000# = 6000#
 - b. 3 Two-Conductor Bundles @ 22000# = 66000#
 - Total = 72000#
7. Vertical-Heavy (1" ice)
 - a. 2 Groundwires @ 2400 = 4800#
 - b. 6 Two-Conductor Bundles @ 8000# = 48000#
 - Total = 52800#

Combine

- 1.65x(1+2a+2b+4+5) = Intact (on Angle)
- 1.65x(1+1/2x2a+3+4+5) = Dead End
- 1.25x(1+1/4of2a+4+5+6) = Torsional
- 1.65x(7) = Heavy Vertical

Material

Steel per ASTM spec. A7, latest revision & ASTM spec A242, latest revision

Coating

All material galvanized to ASTM spec. 123, latest revision

Connections

Bolted with 3/4" diameter machine bolts, ASTM spec A394, latest revision

Ultimate Unit Stresses

	A7	A242
Tension, net section	33,000#/in ²	45,000#/in ²
Compression, Gross Section;	33,000#/in ² -	49,500#-218L/r/in ²
L/r<100	130L/r/in ²	(39,000#Max.)
L/r<150	33,000#/in ² -	43,000#-170L/r/in ²
L/r<200	130L/r/in ² -	39,000#-145L/r/in ²
	24,000#/in ² -	70L/r/in ²

Shear on Bolts
Root of Thread = 45,000psi

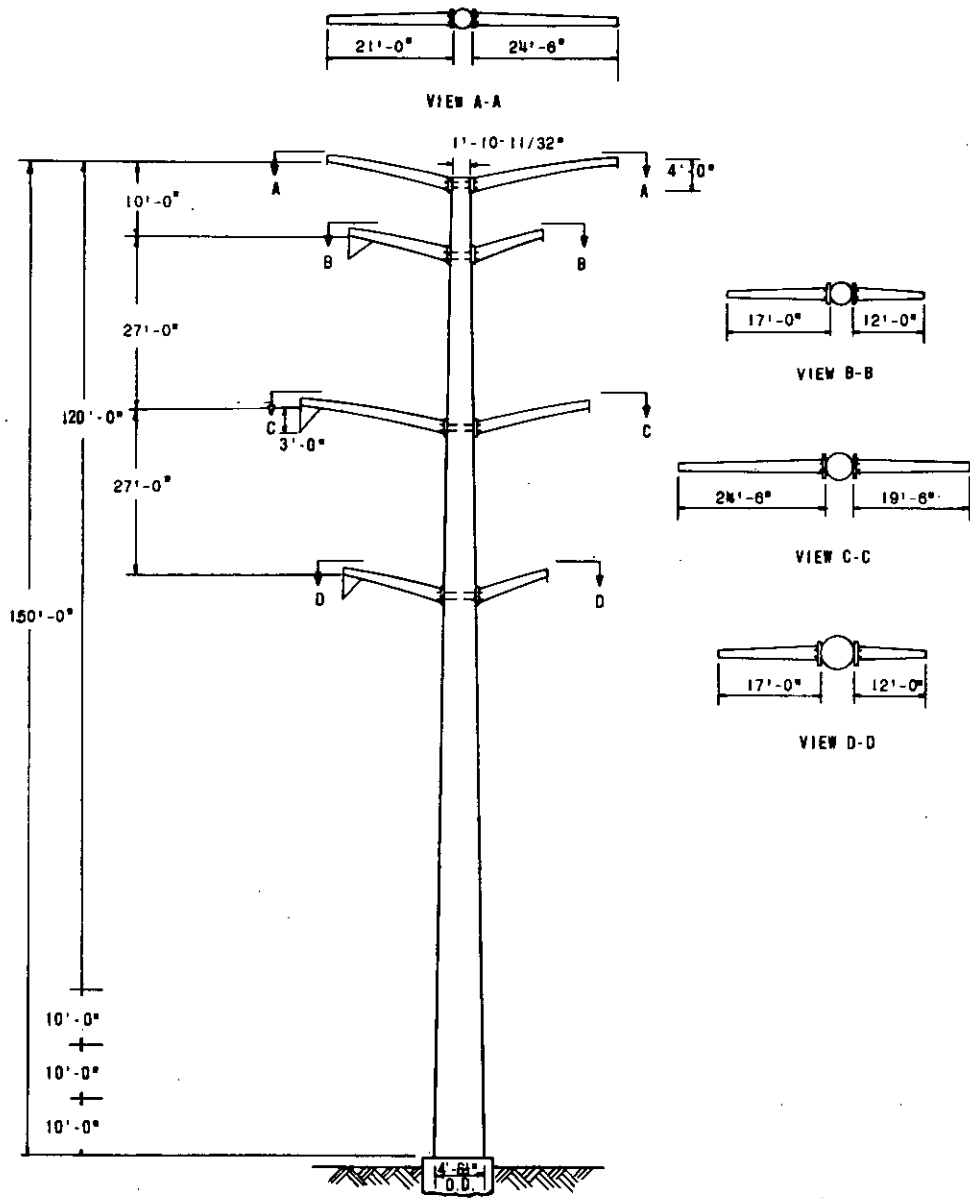
nom. diameter = 30,000psi
Bearing on Bolts = 60,000psi

HEAVY ANGLE DEAD-END TOWER TYPE "EH"
 THE DETROIT EDISON COMPANY
 GENERAL ENGINEERING DEPARTMENT
 DRAWN BY W.E.S.
 CHECKED BY R.O.S.
 DATE 1-8-38
 SCALE NONE
 EH


RECORDED RIGHT OF WAY NO. 33610

STEEL POLE TYPE 4T (4")

LOADS			
1a.	Vertical (1/2" ice)		
	1. 2 Groundwires @ 1,300#	=	2,600
	2. 6 Two-Conductor Bundles @ 7,000#	=	42,000
	Total		44,600
1b.	Vertical (no ice)		
	1. 2 Groundwires @ 500#	=	1,000
	2. 6 Two-Conductor Bundles @ 4,100#	=	24,600
	Total		25,600
1c.	Vertical (1" ice)		
	1. 2 Groundwires @ 2,850#	=	5,700
	2. 6 Two-Conductor Bundles @ 11,350#	=	68,100
	Total		73,800
2a.	Transverse - Wind on wires (8# wind, 1/2" ice)		
	1. 2 Groundwires @ 950#	=	1,900
	2. 6 Two-Conductor Bundles @ 2,900	=	17,400
	Total		19,300
2b.	Transverse - Wind on wires (25# wind, no ice)		
	1. 2 Groundwires @ 1,100#	=	2,200
	2. 6 Two-Conductor Bundles @ 5,350	=	32,100
	Total		34,300
2c.	Transverse - Angle in line (0°F. 8# wind, 1/2" ice)		
	1. 2 Groundwires @ 500#	=	1,000
	2. 6 Two-Conductor Bundles @ 2,000#	=	12,000
	Total		13,000
2d.	Transverse - Angle in line (60°F. 20# wind, no ice)		
	1. 2 Groundwires @ 400#	=	800
	2. 6 Two-Conductor Bundles @ 1,800#	=	10,800
	Total		11,600
2e.	Transverse - Angle in line (0°F. no wind, 1" ice)		
	1. 2 Groundwires @ 800#	=	1,200
	2. 6 Two-Conductor Bundles @ 2,500#	=	15,000
	Total		16,200
3a.	Longitudinal (Broken Wire)		
	1. 1 Groundwire @ 6,600# or		
	2. 1 Sub-Conductor @ 14,000#		
4.	Wind on Tower		
	a. 8 psf on 1.2 times the largest projected area of octagonal pole		
	b. 25 psf on 1.2 times the largest projected area of octagonal pole		
5.	Vertical Load of Steel Pole		
COMBINE			
1.	$1.65 \times (1a+2a+2c+4a+5)$	=	Intact
2.	$1.65 \times (1a+2a+2c+4a+5) + 1.10 \times (3a)$	=	One Broken Sub-Conductor or Groundwire
3.	$1.10 \times (1b+2b+2d+4b+5)$	=	High Wind
4.	$1.27 \times (1c+2e+5)$	=	Heavy Vertical
MATERIAL			
	Steel Poles - ASTM A572 Grades 50 to 65 with Charpy "V" Notch of 15ft-lbs @ -20°F		
	Base Plates - ASTM A588 Modified to 55 KSI yield with Charpy "V" Notch of 15ft-lbs @ -20°F		
COATING			
	All material galvanized to ASTM A123		

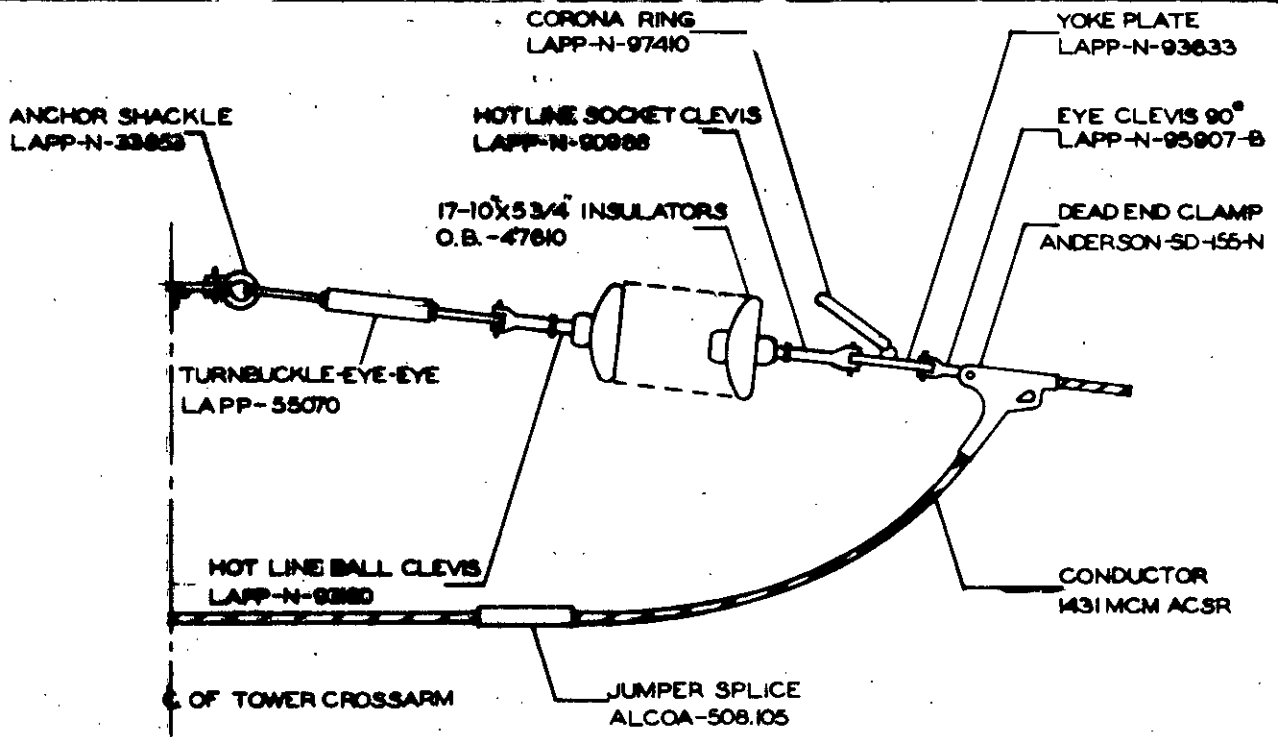


STEEL TRANSMISSION POLE
 TYPE 4T (4")

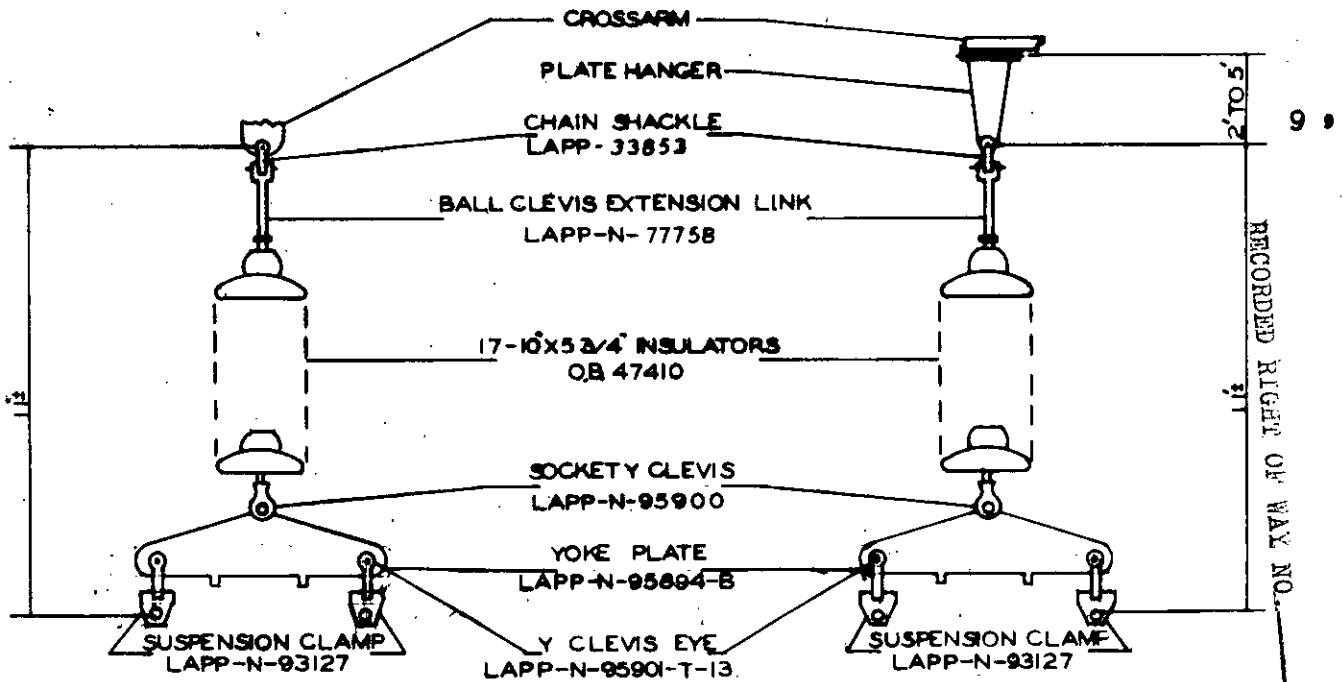
APPROVED

 THE DETROIT EDISON COMPANY
 GENERAL ENGINEERING DEPARTMENT
 DRAWN BY
 DATE 8-1-70
 SCALE NONE
 DRAWING NUMBER
 TYPE 4T

REV. 5/23/73 B.F.C.

RECORDED RIGHT OF WAY NO. 33610



DEAD - END DETAILS (LAPP OR EQUIVALENT)
TOWER TYPES 4M-4N-4P, POLE TYPE 4X



SUSPENSION DETAILS (LAPP OR EQUIVALENT)

TOWER TYPE 4K POLE TYPES 4R-4S

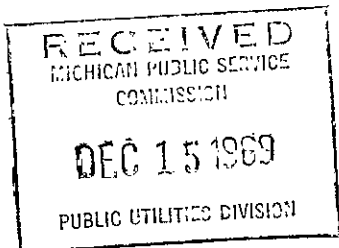
POLE TYPES 4T-4U-4W

345 KV SUSPENSION
AND
DEAD-END DETAILS

APPROVED <i>JSTV</i>	THE DETROIT EDISON COMPANY GENERAL ENGINEERING DEPARTMENT	
LAYOUT BY	DRAWN BY C. VAN PARIS	
DATE 10-15-70	DRAWING NUMBER	
SCALE NONE	ED-1-7308	

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE
DETROIT, MICHIGAN 48226
December 11, 1969



Permit No. ED2-8-6426

Michigan Public Service Commission
Lansing 13, Michigan

Gentlemen:

I, Martin F. Wider, Superintendent of Transmission Div.
of The Detroit Edison Company, Detroit, Michigan, hereby certify that the
wire crossing, covered by Wire Crossing Permit No. ED2-8-6426,
issued 9-29-69, has been constructed in accordance with
specifications of the Michigan Public Service Commission and construction
standards of The Detroit Edison Company, approved by Michigan Public Service
Commission on July 19, 1939, file ED 2-9.01, and that this crossing will be
maintained as provided in such specifications and construction standards.

Yours very truly,

Martin F. Wider

RECORDED RIGHT OF WAY NO.

33610

RX No. 3918

Location Frenchtown Twp.,

Sec. 17, Monroe County

Railroad Detroit and Toledo

Shore Line

R.R. Waiver File No. 9.20

Subscribed and sworn to before me this

11th day of December, 1969.

Joseph V. Strouse

Joseph V. Strouse

Notary Public, Wayne

County, Michigan.

My Commission expires 1-23-71

INTERDEPARTMENT CORRESPONDENCE

December 10, 1969

TO RECORDS CENTER:

Attached is fully executed copy of agreement/permit from:
xxxxx

~~Detroit and Toledo Shore Line Railroad R. R. Agreement File No. 312.22~~

Facilities Covered:

Crossing No. 1

One 120,000 volt transmission circuit with 2 ground wires.

Crossing No. 2

One 120,000 volt transmission circuit with 2 ground wires.

Specific Location:

Crossing No. 1

In the Detroit Edison Company property 2250 feet Southeast of Toll Road.

Crossing No. 2

In the Detroit Edison Company property 2300 feet Southeast of Toll Road.

R. R. Valuation Station _____ Mile Post _____

City/Village _____ Township Frenchtown, Section 17

County Monroe Detroit Edison Plan No. RX-3918

Agreement/Permit Date September 3, 1969 R. R. Plan No. Used DECo Plan

Preparation Fee none Annual Rental none

Supersedes and Cancels Agreement dated _____ R/W No. _____

This is a Supplemental Agreement and is to be made a part of R/W _____

Attached Grand Trunk Western Railroad Permit No. _____ to be made a part of R/W No. 9064.

I. W. Gamble

I. W. Gamble, Supervisor of Rights of Way
Properties and Rights of Way Department

RECORDED RIGHT OF WAY NO. 33610

THE DETROIT AND TOLEDO SHORE LINE RAILROAD COMPANY

131 WEST LAFAYETTE AVENUE

DETROIT, MICHIGAN 48226

C. J. McPHAIL
GENERAL MANAGER

December 8, 1969

J. W. GAMBLE

JW
DEC 9 1969

PROP. & R/W DEPT.

File: 312.22
9.20 Frenchtown Twp.
(Det. Ed.-SL Fermi Toll Rd)

Mr. I. W. Gamble, Supervisor
Rights of Way Department
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan, 48226

Dear Mr. Gamble:

Attached is a fully executed copy of License Agreement for your overhead 120 KV Transmission Circuits over our tracks at crossings 1 and 2 southeast of Toll Road, Frenchtown Township, Monroe County, Michigan.

Yours truly,

C. J. McPhail

RECORDED RIGHT OF WAY NO. 33610

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE
DETROIT, MICHIGAN 48226

December 1, 1969

Railroad File No. _____

Mr. C. J. McPhail, General Manager
The Detroit and Toledo Shore Line Railroad Company
131 West Lafayette Boulevard
Detroit, Michigan 48226

Dear Mr. McPhail:

We are returning agreement/~~permit~~, in duplicate, covering our facilities over your tracks and/~~rights of way~~ as shown on our Plan RX-3918

and located as follows: **Crossing No. 1: In the Detroit Edison Company property, 2250 ft. Southeast of Toll Road.**

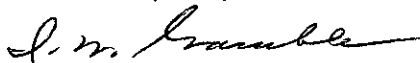
Crossing No. 2: In Detroit Edison Company property, 2300 ft. Southeast of Toll Road.

City/Village _____ Township, Frenchtown, Sec. 27,

County Monroe. The agreement/~~permit~~ has been signed for our Company.

Will you please return one fully executed copy of this agreement/~~xxx~~ to us for our records.

Yours very truly,



I. W. Gamble
Supervisor of Rights of Way
Properties and Rights of Way Dept.

JVS:mls
enc.

RECORDED RIGHT OF WAY NO. 3361D

THE DETROIT AND TOLEDO SHORE LINE RAILROAD COMPANY

131 WEST LAFAYETTE AVENUE

DETROIT, MICHIGAN 48226

D. H. MITCHELL
GENERAL AGENT SALES—
INDUSTRIAL DEVELOPMENT

November 19, 1969

I. W. GAMBLE

ls
NOV 20 1969

[Signature]
PROP. & R/W DEPT.

File: 9.20 Frenchtown Twp.
(Det. Ed-SL Fermi Toll Rd)

Mr. I. W. Gamble, Supervisor
Rights-of-Way
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

Dear Mr. Gamble:

Further mine September 3, 1969, attached is License Agreement covering permission to Detroit Edison for crossing of the "Fermi-Custer" and the "Fermi-Luzon" overhead 120 KV transmission circuits, etc., over our tracks at crossings 1 and 2, southeast of Toll Road, Frenchtown Township, Monroe County, Michigan.

Will you please have the original and copies signed in behalf of your company and witnessed, returning same to us for completion. A fully executed copy will be returned to you immediately.

Yours truly,

[Signature]
INDUSTRIAL AGENT

DHM:po

RECORDED RIGHT OF WAY NO. 33610

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE
DETROIT, MICHIGAN 48226

October 15, 1969

RECEIVED
MICHIGAN PUBLIC SERVICE
COMMISSION

OCT 16 1969

PUBLIC UTILITIES DIVISION

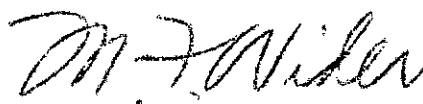
Permit No. ED2-8-6427

Michigan Public Service Commission
Lansing 13, Michigan

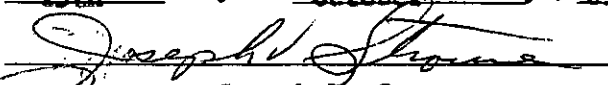
Gentlemen:

I, Martin F. Wider, Superintendent Transmission Division
of The Detroit Edison Company, Detroit, Michigan, hereby certify that the
wire crossing, covered by Wire Crossing Permit No. ED2-8-6427,
issued 9-30-69, has been constructed in accordance with
specifications of the Michigan Public Service Commission and construction
standards of The Detroit Edison Company, approved by Michigan Public Service
Commission on July 19, 1939, file ED 2-9.01, and that this crossing will be
maintained as provided in such specifications and construction standards.

Yours very truly,



RX No. 3918
Frenchtown Township, Monroe County
Location in the DECO property
2300' Southeast of Toll Road
Railroad Detroit & Toledo
Shore Line Railroad Company

Subscribed and sworn to before me this
15th day of October, 19 69.

Notary Public, Joseph V. Strouse
Wayne
County, Michigan.
My Commission expires January 23, 1971

JVS/enc

RECORDED RIGHT OF WAY NO. 33610

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE
DETROIT 26, MICHIGAN

September 22, 1969

Michigan Public Service Commission
Lansing 13, Michigan

Gentlemen:

The Detroit Edison Company, Detroit, Michigan, hereby makes application for authority to string the following wires over the tracks of the **Detroit and Toledo Shore Line Railroad Company, Frenchtown Township, Section 17, Monroe County, Michigan.**

Crossing No. 1

One 120,000 volt transmission circuit with 2 ground wires.

NOTE: This is a relocation of Crossing No. 1 shown on RX-3427 to be incorporated on new Print RX-3918.

In the Detroit Edison Company property 2250 feet Southeast of Toll Road.

The proposed wire crossing will be constructed in accordance with specifications of the Michigan Public Service Commission and the construction standards of The Detroit Edison Company, approved by the Michigan Public Service Commission on July 19, 1939, File ED 2-9 01.

Det Shore Line R.R. File 9.20

Dated 9-3-69

- Enclosed is a waiver of hearing granted by the Railroad Company.
- Waiver of hearing by the Railroad Company is covered by blanket waiver.
- This application covers reconstruction of existing crossing and will cancel and supersede wire crossing permit No. ~~ED 2-9 01~~ dated ~~7-19-39~~
- This is a new crossing.

RECORDED RIGHT OF WAY NO.

33612

Reference number of construction drawing is RX-³⁹¹⁸

Yours very truly,

I. W. Gamble
I. W. Gamble
Supervisor of Rights of Way
Properties and Rights of Way
Department

Permit No. ED2-8-6426
Date 9/29-69
By MFSC

JVS/snc
Enclosures

Check in circle indicates statement applicable.

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE
DETROIT 26, MICHIGAN

September 22, 1969

Michigan Public Service Commission
Lansing 13, Michigan

Gentlemen:

The Detroit Edison Company, Detroit, Michigan, hereby makes application for authority to string the following wires over the tracks of the **Detroit and Toledo Shore Line Railroad Company, Frenchtown Township, Section 17, Monroe County, Michigan.**

Crossing No. 2

One 120,000 volt transmission circuit with 2 ground wire.

NOTE: This is a relocation of Crossing No. 2 shown on RX-3717 to be incorporated on new Print RX-3915.

In The Detroit Edison Company property 2300 feet Southeast of Toll Road.

The proposed wire crossing will be constructed in accordance with specifications of the Michigan Public Service Commission and the construction standards of The Detroit Edison Company, approved by the Michigan Public Service Commission on July 19, 1939, File ED 2-9.01.

Detamore Line S.R. file 9.20

Dated 9-3-69

- Enclosed is a waiver of hearing granted by the Railroad Company.
- Waiver of hearing by the Railroad Company is covered by blanket waiver.
- This application covers reconstruction of existing crossing and will cancel and supersede wire crossing permit No. ~~104-551~~ dated ~~10-1-65~~.
- This is a new crossing.

Reference number of construction drawing is RX-³⁹¹⁵

Yours very truly,

Permit No. ED2-8-6427
Date 9-30-69
By MPSC

I. W. Gamble
Supervisor of Rights of Way
Properties and Rights of Way
Department

JVS/sac
Enclosures

Check in circle indicates statement applicable.

RECORDED RIGHT OF WAY N
33610

THE DETROIT AND TOLEDO SHORE LINE RAILROAD COMPANY

131 WEST LAFAYETTE AVENUE

DETROIT, MICHIGAN 48226

D. H. MITCHELL
GENERAL AGENT SALES—
INDUSTRIAL DEVELOPMENT

September 3, 1969

I. W. GAMBLE

SEP 4 1969

PROP. & R/W DEPT.

File: 9.20 Frenchtown Twp.
(Det. Ed.-SL-Ferri)

Mr. I. W. Gamble, Supervisor
Rights of Way Properties
and Rights of Way Department
Detroit Edison Company
2000 Second Avenue
Detroit, Michigan 48226

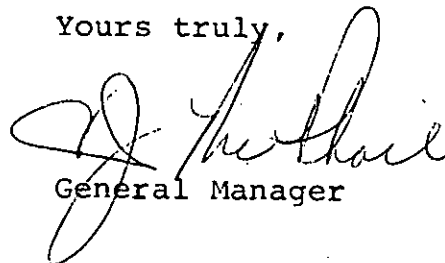
Dear Mr. Gamble:

This will acknowledge receipt of your two letters dated August 19, 1969, to relocation of existing overhead wires, two 120 KV Transmission circuits with three ground wires over our tracks at crossing #1, 2250'; and crossing #2, 2300', southeast of Toll Road on Detroit Edison property, in Frenchtown Township, Monroe County, Michigan, shown in your Print RX-3918 of August 15, 1969.

We have no objections to your request and will prepare the license agreement to cover.

In the meantime, this letter covers our waiver of hearing before the Michigan Public Service Commission.

Yours truly,


General Manager

cc: D. H. Mitchell

RECORDED RIGHT OF WAY NO.

33610

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE

DETROIT, MICHIGAN 48226

August 19, 1969

TO:

Mr. C. J. McPhail, General Manager
The Detroit and Toledo Shore Line Railroad Company
131 West Lafayette Boulevard
Detroit, Michigan 48226

Proposed Overhead Wire Crossing:

Two 120,000 volt transmission circuits with 3 ground wires (Crossing No. 1)

(NOTE: This is a relocation of Crossing No. 1 shown on RX-3717 to be incorporated on new print RX-3918)

Specific Location

Crossing No. 1: In The Detroit Edison Company property 2250 feet Southeast of Toll Road.

R. R. Valuation Station _____ R. R. Mile Post _____
City/Village _____ Township Frenchtown, Section 17
County Monroe Detroit Edison Plan Attached RX-3918

This is a New Crossing _____ This is a Reconstruction of Existing Crossing See note above

Previous Agreement Information (if any) Date _____ (R. R. Plan) _____

Blanket Waiver of Hearing Covers _____ Waiver of Hearing Requested In duplicate
(Waiver of Hearing to be mailed to applicant listed below)

All construction will be done in accordance with the rules and regulations of the Michigan Public Service Commission.

JVS/snc
Enclosure

I. W. Gamble
I. W. Gamble, Supervisor of Rights of Way
Properties and Rights of Way Department

RECORDED RIGHT OF WAY NO. 33610

THE DETROIT EDISON COMPANY

2000 SECOND AVENUE

DETROIT, MICHIGAN 48226

August 19, 1969

TO:

Mr. C. J. McPhail, General Manager
The Detroit and Toledo Shore Line Railroad Company
131 West Lafayette Boulevard
Detroit Michigan 48226

Proposed Overhead Wire Crossing:

Two 120,000 volt transmission circuits with 3 ground wires (Crossing No. 2)

NOTE: This is a relocation of Crossing No. 2 shown on RX-3426A
to be incorporated on new print RX-3918.

Specific Location

Crossing No. 2: In The Detroit Edison Company property 2300 feet
Southeast of Toll Road.

R. R. Valuation Station _____ R. R. Mile Post _____
City/Village _____ Township Frenchtown, Section 17
County Monroe Detroit Edison Plan Attached RX-3918

This is a New Crossing _____ This is a Reconstruction of Existing Crossing See note above

Previous Agreement Information (if any) Date _____ (R. R. Plan) _____

Blanket Waiver of Hearing Covers _____ Waiver of Hearing Requested In duplicate
(Waiver of Hearing to be mailed to applicant listed below)

All construction will be done in accordance with the rules and regulations of the Michigan Public Service Commission.

JVS/snc
Enclosure

I. W. Gamble
I. W. Gamble, Supervisor of Rights of Way
Properties and Rights of Way Department

RECORDED RIGHT OF WAY NO. 33610

STATE OF MICHIGAN
BEFORE MICHIGAN PUBLIC SERVICE COMMISSION

Standard Railroad Wire-Crossing Permit No. **ED2-8-6426**

In Re Application of **The Detroit Edison Company**
2000 Second Avenue
Detroit, Michigan 48226

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

The Detroit Edison Company

for permission to string wires across the tracks of the

Detroit and Toledo Shore Line Railroad Company

and said

The 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 road company having waived the right of notice and hearing provided for in said act

THEREFORE, It is ordered that said

The Detroit Edison Company

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

Township of
Frenchtown

County of
Monroe

State of
Michigan

Crossing #1 (Towers #7434 - #6807)
Crossing of Enrico Fermi-Custer 120 kv, 60 Hz, 3 phase transmission line having two (2) ground wires, located approximately 2250' southeast of Toll Road on Enrico Fermi Power Plant property, R9E, T6S
3 - #795 MCM (26/7) ACSR Phase Conductors
2 - 3/8" 7 strd. Beth "C" Steel Ground Wire

Per Drawing EX-3918

RECORDED
INDEXED
MAY 10 1969
33610

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

At the point of crossing said wires shall be installed 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 **twenty-ninth** day of **September** A.D. 19 **69**

MICHIGAN PUBLIC SERVICE COMMISSION

Willis F. Ward

.....
William A. Boos, Jr. Chairman,

.....
Commissioner,

Lenton G. Sculthorp

.....
Commissioner.

Countersigned

Earl B. Klomprens

.....
Secretary

STATE OF MICHIGAN SS.
Office of the Michigan Public Service Commission

I, Earl B. Klomparens, Secretary of the Michigan Public Service Commission Do Hereby Certify,
That I have compared the annexed copy of Railroad Wire Crossing Permit

No. ED2-8-6426

RECORDED RIGHT OF WAY NO. 33610

with the original, 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 day of in the year of our Lord one thousand nine hundred

Earl B. Klomparens
Secretary

DATA SHEET TO ACCOMPANY DRAWING RX-3918

Revision of Crossing RX-3427 Covered Under Permit #ED2-8-4613
Dated 7/7/59 and Referred to Herein as Crossing No. 1 and,

Revision of Crossing RX-3717 Covered Under Permit #ED2-8-5631
Dated 10/4/65 and Referred to Herein as Crossing No. 2.

NOTE: Existing circuits are to be reconstructed.

Name of Company

The Detroit Edison Company

Name and Location of Crossings

Crossing of the "Enrico Fermi - Custer" (formerly "Enrico Fermi - Monroe") 120 KV and the "Enrico Fermi - Luzon" 120 KV transmission lines over the Detroit and Toledo Shore Line Railroad. Crossing No. 1 (Enrico Fermi - Custer) is located approximately 2250 ft. southeast of Toll Road on Enrico Fermi Power Plant Property in Frenchtown Township in Monroe County, Michigan. Crossing No. 2 (Enrico Fermi - Luzon) is located approximately 2300 ft. southeast of Toll Road on Enrico Fermi Power Plant Property in Frenchtown Township in Monroe County, Michigan.

Circuits

Crossing No. 1: One 120,000 volt, 60 cycle, 3 wire, 3 phase, transmission circuit with two ground wires.

Crossing No. 2: One 120,000 volt, 60 cycle, 3 wire, 3 phase, transmission circuit with one ground wire.

Conductors

Crossing No. 1: 3-795 MCM 26A1/7St ACSR Conductors with 2-3/8" bethanized "C" 7-strand steel ground wires.

Crossing No. 2: 3-477 MCM 26A1/7St ACSR Conductors with 1-3/8" bethanized "C" 7-strand steel ground wire.

Tower and Steel Crossarms

Per attached prints #T8414. Note: provision made on tower peak to permit attachment of three ground wires.

Poles & Wood Crossarms

Wood Poles - Western Red Cedar, Class 1 and Class 2. For heights and structure types see RX-3918, and ED-1375 for Crossing No. 1 and ED-5841 for Crossing No. 2. Double wood crossarms 3-5/8" x 8-1/2" x 16'-0", x 22'-0".

Insulators

5-3/4" x 10" insulators OB 32440 or equivalent in suspension; 7 on wood, 8 on steel. 5-3/4" x 10" insulators OB 47410 or equivalent in deadend; 8 on wood, 9 on steel.

Guy and Guy Attachments

See ED-1375 and ED-5841.

Guy Clamps and Insulators

See ED-1375 and ED-5841.

RECORDED RIGHT OF WAY NO.

33610

Guy Anchor and Anchor Rods

See ED-1375 and ED-5841.

Suspension and Deadend Details

Shown on drawing RX-3918.

General Engineering Dept.
ROS/cjb 9/19/69

RECORDED RIGHT OF WAY NO. 33616

STATE OF MICHIGAN

BEFORE MICHIGAN PUBLIC SERVICE COMMISSION

Standard Railroad Wire-Crossing Permit No. **ED2-8-5427**

In Re Application of **The Detroit Edison Company**
2000 Second Avenue
Detroit, Michigan 48226

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

The Detroit Edison Company
for permission to string wires across the tracks of the

Detroit and Toledo Shore Line Railroad Company
and said

The 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 company having waived the right of notice and hearing provided for in said ~~act~~ **road**

THEREFORE, It is ordered that said

be permitted to string ~~the following described wires~~ **The Detroit Edison Company** across the tracks of said railroad at the following described place:

Township of Frenchtown
County of Monroe
State of Michigan

Crossing #2 (Towers #7434 - #7436)
Crossing of Enrico Fermi - Luzon 120 kv, 60 Hz, 3 phase transmission circuit having one (1) ground wire, located 2300' southeast of Toll Road on Enrico Fermi Power Plant property, B9E, T6S
3 - #477 MCM (26/7) ACSS Phase Conductors
1 - 3/8" Beth "C" 7 Strd. Steel Ground Wire

Per Drawing RX-3918

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

At the point of crossing said wires shall be installed 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 **thirtieth** day of **September**, A.D. 19**69**

MICHIGAN PUBLIC SERVICE COMMISSION

Wilbur E. Ward
Chairman,

William A. Boos, Jr.
Commissioner,

Lenton G. Sculthorp
Commissioner.

Countersigned

Earl B. Klomprens
Secretary

RECORDED PERMIT OF THE M.P.S.C. NO. 33610

STATE OF MICHIGAN SS.
Office of the Michigan Public Service Commission

I, Earl B. Klomparens, Secretary of the Michigan Public Service Commission Do Hereby Certify,
That I have compared the annexed copy of **Railroad Wire Crossing Permit**

No. ED2-8-6427

RECORDED RIGHT OF WAY NO.

33610

with the original, 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 **thirtieth** day of **September** in the year of our Lord one thousand nine hundred **sixty-nine**

Earl B. Klomparens
Secretary

DATA SHEET TO ACCOMPANY DRAWING RX-3918

Revision of Crossing RX-3427 Covered Under Permit #ED2-8-4613
Dated 7/7/59 and Referred to Herein as Crossing No. 1 and,

Revision of Crossing RX-3717 Covered Under Permit #ED2-8-5631
Dated 10/4/65 and Referred to Herein as Crossing No. 2.

NOTE: Existing circuits are to be reconstructed.

Name of Company

The Detroit Edison Company

Name and Location of Crossings

Crossing of the "Enrico Fermi - Custer" (formerly "Enrico Fermi - Monroe") 120 KV and the "Enrico Fermi ✓ Luzon" 120 KV transmission lines over the Detroit and Toledo Shore Line Railroad. Crossing No. 1 (Enrico Fermi - Custer) is located approximately 2250 ft. southeast of Toll Road on Enrico Fermi Power Plant Property in Frenchtown Township in Monroe County, Michigan. Crossing No. 2 (Enrico Fermi - Luzon) is located approximately 2300 ft. southeast ✓ of Toll Road on Enrico Fermi Power Plant Property in Frenchtown Township in Monroe County, Michigan.

Circuits

Crossing No. 1: One 120,000 volt, 60 cycle, 3 wire, 3 phase, transmission circuit with two ground wires.

Crossing No. 2: One 120,000 volt, 60 cycle, 3 wire, 3 phase, transmission circuit with one ground wire. ✓

Conductors

Crossing No. 1: 3-795 MCM 26A1/7St ACSR Conductors with 2-3/8" bethanized "C" 7-strand steel ground wires.

Crossing No. 2: 3-477 MCM 26A1/7St ACSR Conductors with 1-3/8" bethanized "C" 7-strand steel ground wire. ✓

Tower and Steel Crossarms

Per attached prints #T8414. Note: provision made on tower peak to permit attachment of three ground wires.

Poles & Wood Crossarms

Wood Poles - Western Red Cedar, Class 1 and Class 2. For heights and structure types see RX-3918, and ED-1375 for Crossing No. 1 and ED-5841 for Crossing No. 2. Double wood crossarms 3-5/8" x 8-1/2" x 16'-0", x 22'-0".

Insulators

5-3/4" x 10" insulators OB 32440 or equivalent in suspension; 7 on wood, 8 on steel. 5-3/4" x 10" insulators OB 47410 or equivalent in deadend; 8 on wood, 9 on steel.

Guy and Guy Attachments

See ED-1375 and ED-5841.

Guy Clamps and Insulators

See ED-1375 and ED-5841.

RECORDED RIGHT OF WAY NO.

33610

Guy Anchor and Anchor Rods

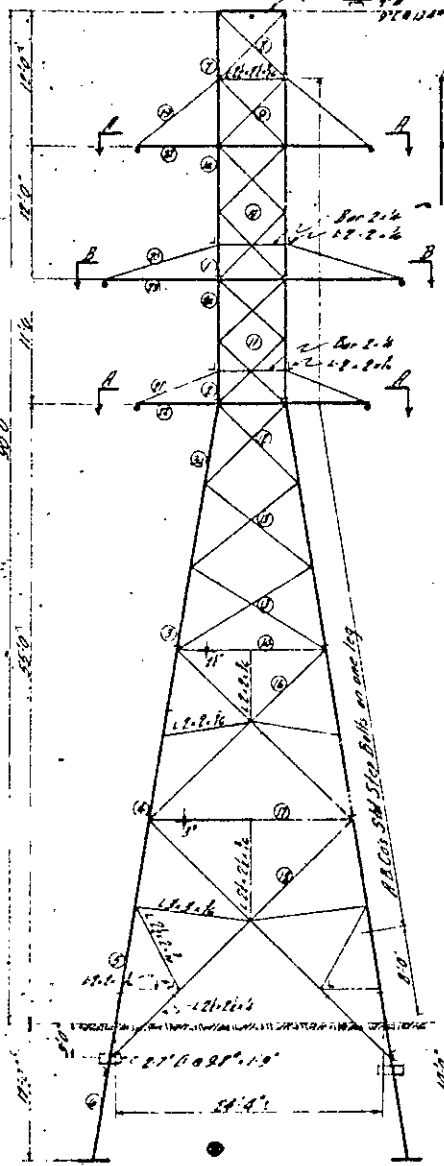
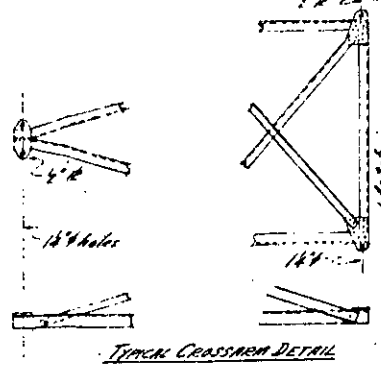
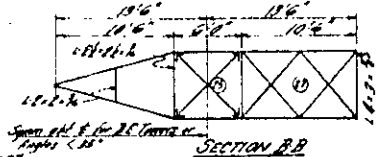
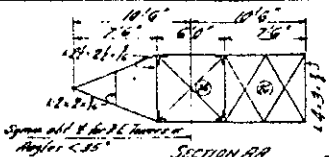
See ED-1375 and ED-5841.

Suspension and Deadend Details

Shown on drawing RX-3918.

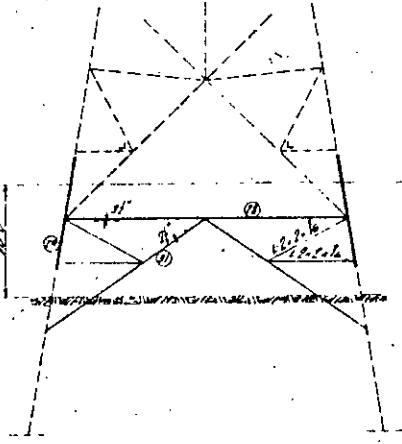
General Engineering Dept.
ROS/cjb 9/19/69

RECORDED RIGHT OF WAY NO. 33610

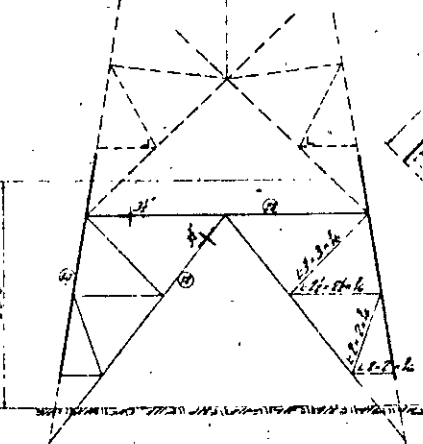


50° ANGLE OF DEAD END TOWER AD

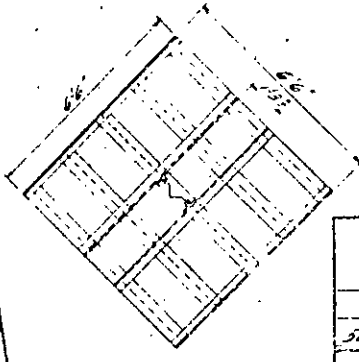
CELLULOSE MATERIAL
 2 1/2" x 1 1/2" = 6'6"
 3" x 3" x 1/4" = 6'6"
 2" x 2" x 1/4" = 6'6"
 4" x 3" x 1/4" = 1'3"



100' SQ. EXTENSION



200' SQ. EXTENSION



PLAN OF GRILLAGE

UNIT	STRESS	SECTION
1a	40.1	2.5 = 5 = 2.5
1	74.7	do
2a	116.5	6 = 6 = 6
2	168.9	do
3a	193.7	8 = 8 = 8
3	285.5	do
* 4	216.0	8 = 8 = 8
* 5	222.5	do
6	192.5	do
7	94.0	3 = 3 = 4
8	51.0	2 = 2 = 2
9	6.1	do
10	145.4	3 = 3 = 3
11	41.6	4 = 4 = 4
12	157.4	3 = 3 = 4
13	126	do
14	12.0	3 = 3 = 4
15	12.2	3 = 3 = 4
16	236.4	21 = 21 = 21
17	148.1	4 = 4 = 4
18	177.4	2 = 2 = 2
19	4.1	2 = 2 = 2
20	9.1	do
21	7.4	do
22	29.8	4 = 4 = 4
23	37.0	4 = 4 = 4
24	4.5	2 = 2 = 2
25	7.3	do
26	12.1	do
27	13.5	2 = 2 = 2
28	11.9	5 = 5 = 5
29	222.0	8 = 8 = 8
30	124.0	do
31	7.2	5 = 5 = 4
32	9.8	5 = 5 = 6

50° ANGLE OF TANGENT P.C. TOWER AD
 Tower is designed to support 1 1/2" steel
 Gal Wire and 7/8" dia (3/4") P.C.S.R. Conductors over
 an normal span of 900' with 50° angle in
 line or the total maximum cable load applied
 to a longest span of the same length.
 The cables are to be so strong that the
 maximum tensions under a wind on 100
 coated cables will not exceed 9500' on the
 groundwire and 2400' on the conductor.

LOADS

(1) Vertical 1 Gal Wire @ 1030' - 1030'
 6 Conductors @ 2000' - 5700'
 Total = 13030'

(2) Transverse - Wind on wires
 1 Gal Wire @ 450' - 450'
 6 Conductors @ 635' - 2770'
 Total = 4460'

(3) Transverse - 50° Angle in line
 1 Gal Wire @ 8030' - 8030'
 6 Conductors @ 10550' - 23300'
 Total = 71830'

(4) Longitudinal 1 Gal Wire @ 9500' - 9500'
 6 Conductors @ 12380' - 26360'
 Total = 54360'

(5) Wind on tower at 6.5' per sq ft on 16
 times projected area of one face.

(6) Dead Load of tower

(7) Torsional load of each of 3 Gal supports
 on one side of tower at 1000' (80% of 12400')
 Total = 30000'

Hangers designed for double vertical load
 Combine -
 Total = 127,750 + 24,160 + 26,840 + 127,500
 Dead End = 148,610 (4 of 24, 24, 5, 1)
 Tower 8 direction = 127,100 + 24,160 + 26,840 + 127,500
 154,400 + 127,500 = 110 + 0

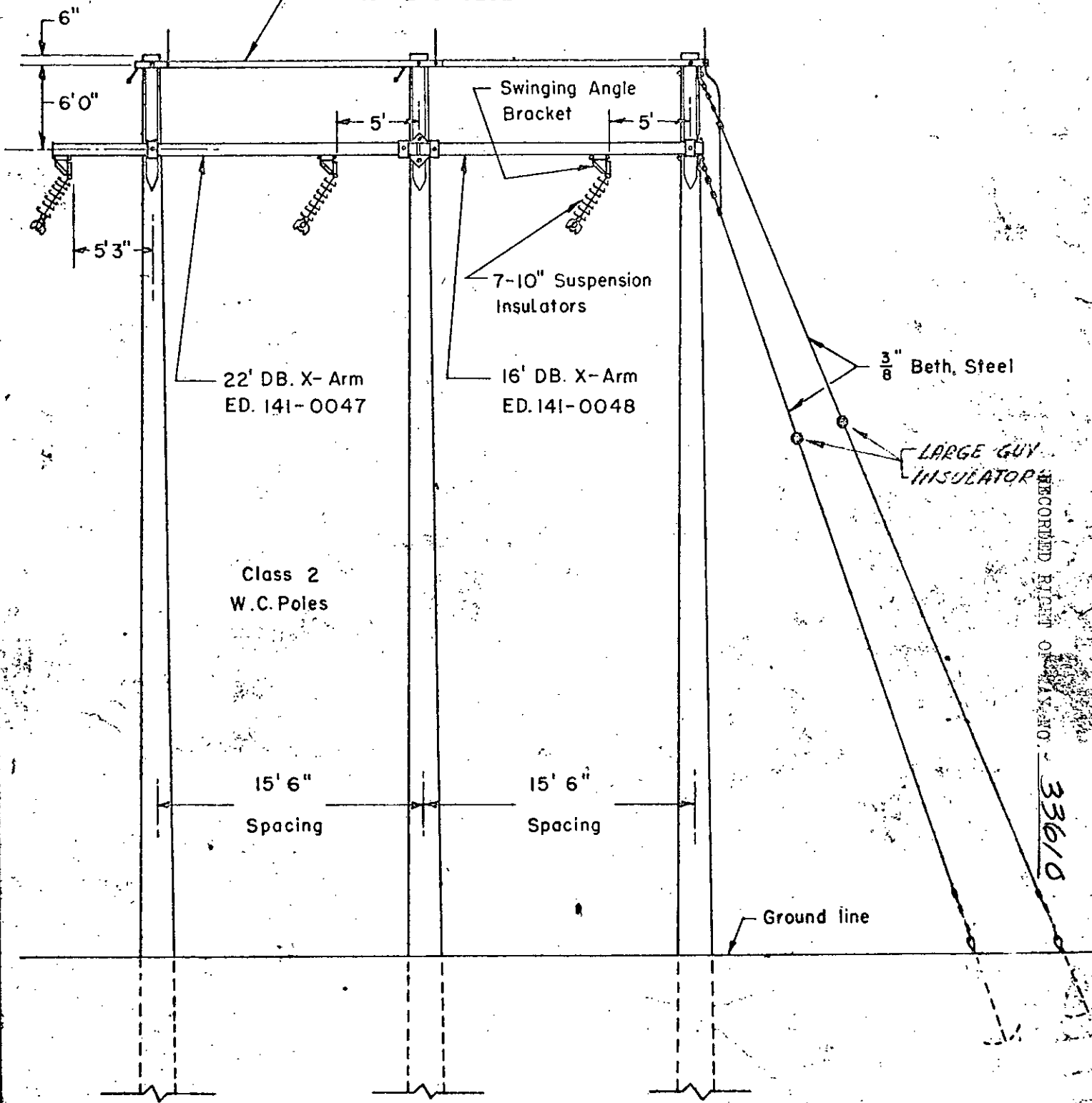
NOTE: For Unit Stresses, Material, Coating and
 Specifications see Draw T-5418

CONNECTIONS - Bolts, 3/4" bolts

* Drawings showing trapezoid members

TRANSMISSION TOWERS	
THE DETROIT TOWER CO.	
DETROIT, MICH.	
50° ANGLE OF TANGENT P.C. TOWER AD	
NORMAL SPAN P.O.S. CIRCUITS CONDITIONS GROUND WIRE	AMERICAN BRIDGE CO. PITTSBURGH, PA.
REVISIONS	INCHES: 2 T-5417
DATE: 1/21/24	ORDER No. Q 3467
BY: [Signature]	DRAWING T-5418
BY: [Signature]	DATE: 1/21/24

13' DB Steel
 Ground Wire X-Arm
 ED.-240-0202



Class 2
 W.C. Poles

22' DB. X- Arm
 ED. 141-0047

16' DB. X- Arm
 ED. 141-0048

Swinging Angle
 Bracket

7-10" Suspension
 Insulators

$\frac{3}{8}$ " Beth. Steel

LARGE GUY
 INSULATOR

15' 6"
 Spacing

15' 6"
 Spacing

Ground line

RECORDED FILED IN CLASS NO. 33610

For Construction Details
 See Dwg. 6S5773-15

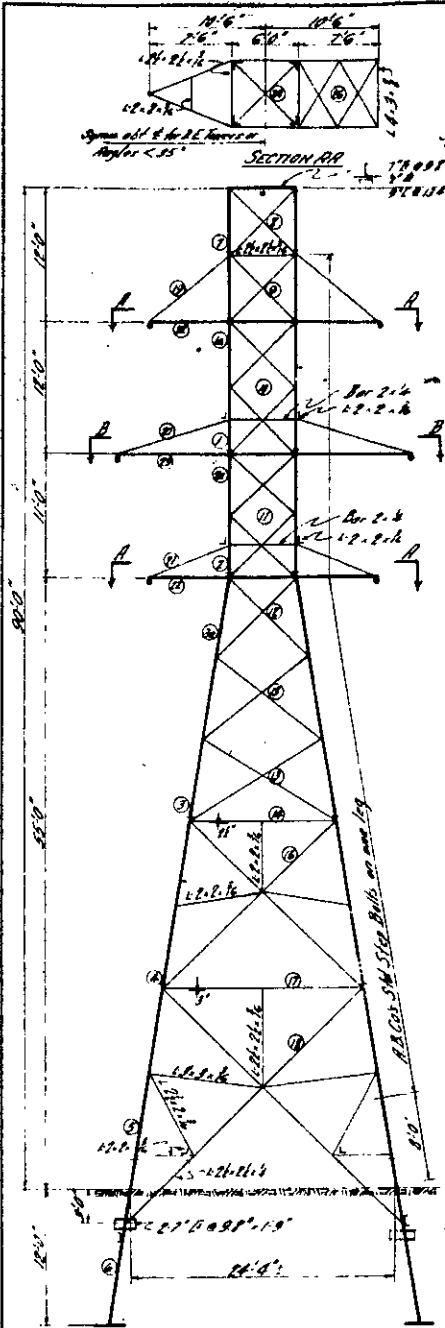
APPROVED	LAYOUT
APPROVED	DRAWN
APPROVED	SCALE

**LA-LIGHT ANGLE
 STRUCTURE 120 KV.**

THE DETROIT EDISON COMPANY
 ELECTRICAL ENGINEERING DIVISION

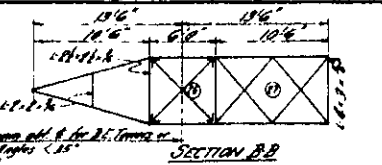
DATE 9-3-53 DWG. NO. ED-1375

RECORDED RIGHT OF WAY NO 33610



50° ANGLE OF DEAD END TOWER AD

GRILLAGE MATERIAL
 2 15" x 15" x 3/8" x 6'6"
 5 6" CB x 9.85" x 6'6"
 2 4" x 4" x 1/2" x 6'6"
 4 2" x 3" x 1/2" x 6'6"

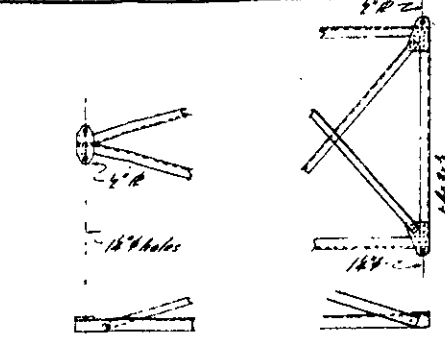


SECTION BB

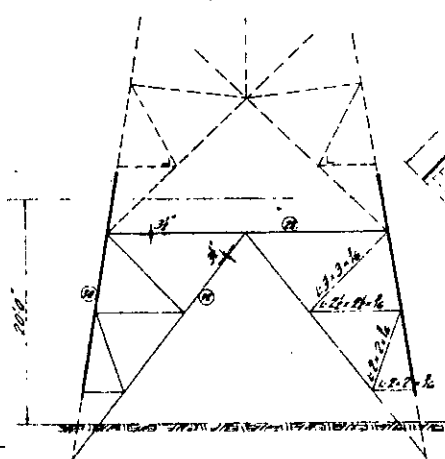


10'0" SQ EXTENSION

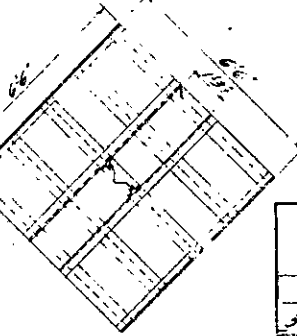
NOTE: Bolter at pedestal same as T-1500 Order J-5400 Tower CR



TYPICAL CROSS-SECTION DETAIL



20'0" SQ EXTENSION



PLAN OF GRILLAGE

Member	U/I	Stress	SECTION
1a	4.1	4.5	5 x 2 1/2
1	26.2	do	
2a	14.9	6	6 x 3
2	163.9	do	
3a	193.7	8	8 x 2
3	288.5	do	
4	216.0	8	8 x 2
5	272.4	do	
6	227.5	do	
7	94.1	3	3 x 4
8	51.5	2	2 x 6
9	61	do	
10	245.4	3	3 x 6
11	416.1	4	4 x 4
12	25.7	3	3 x 6
13	176	do	
14	125.3	3	3 x 6
15	112.1	3	3 x 6
16	236.4	2 1/2	2 1/2 x 6
17	147.1	4	3 x 4
18	127.1	2	2 x 6
19	4.1	Bar	2 x 6
20	21	do	
21	7.8	do	
22	29.8	4	3 x 6
23	370.1	4	4 x 6
24	4.6	2	2 x 6
25	7.3	do	
26	12.2	do	
27	13.5	2	2 x 6
28	11.3	5	3 1/2 x 6
29	228.0	8	8 x 2
30	2240	do	
31	7.5	2 1/2	2 1/2 x 4
32	9.3	6.5	2 1/2 x 6

50° ANGLE OF TANGENT D.E. TOWER AD
 Tower is designed to support 1 1/2" Steel
 Grid Wire and 6-795,000 C.P.S. R.C. Conductors
 on a normal span of 900' with 50° angle in
 line or the total maximum cable loads applied
 to a longitudinal span of the same length.
 The cables are to be so strung that the
 maximum tensions under 4" wind on 3" ice
 coated cables will not exceed 9500' in the
 ground wire and 2400' in the conductor.

- LOADS
- (1) Vertical: 1 Grid Wire @ 1030' - 1030'
 6 Conductors @ 2000' - 12000'
 Total - 13030'
 - (2) Transverse - Wind on wires
 1 Grid Wire @ 451' - 450'
 6 Conductors @ 635' - 3810'
 Total - 4260'
 - (2a) Transverse - 50° Pivote in line
 1 Grid Wire @ 8030' - 8030'
 6 Conductors @ 10550' - 63300'
 Total - 71330'
 - (3) Longitudinal 1 Grid Wire @ 9600' - 9600'
 6 Conductors @ 12480' - 36840'
 Total - 46440'
 - (4) Wind on tower at 6.5' per sq ft on 16
 times projected area of one face.
 - (5) Dead Load of tower
 - (6) Torsional load at each of 3 Chd supports
 on one side of tower at 1000' (20.8 x 11.11111)
 total - 30000'
- Hangers designed for double vertical load
 Conductors:-
 Interval 127', 124', 84', 145', 26', 244', 4', 127' - 5'
 Dead End 165' (1.4 of 24, 24.5')
 Tension 3 broken 127', 244', 244' to 145', 145' - 26', 26'
 254' - 4', 177' - 5', 144' - 4'

NOTE: For Unit Stresses, Material, Coating and Specifications see Drawg T-1418
 CONNECTIONS: - Bolter & 4 bolts

TRANSMISSION TOWERS
 THE DETROIT IRON CO.
 DETROIT, MICH.

50° ANGLE OF TANGENT D.E. TOWER AD

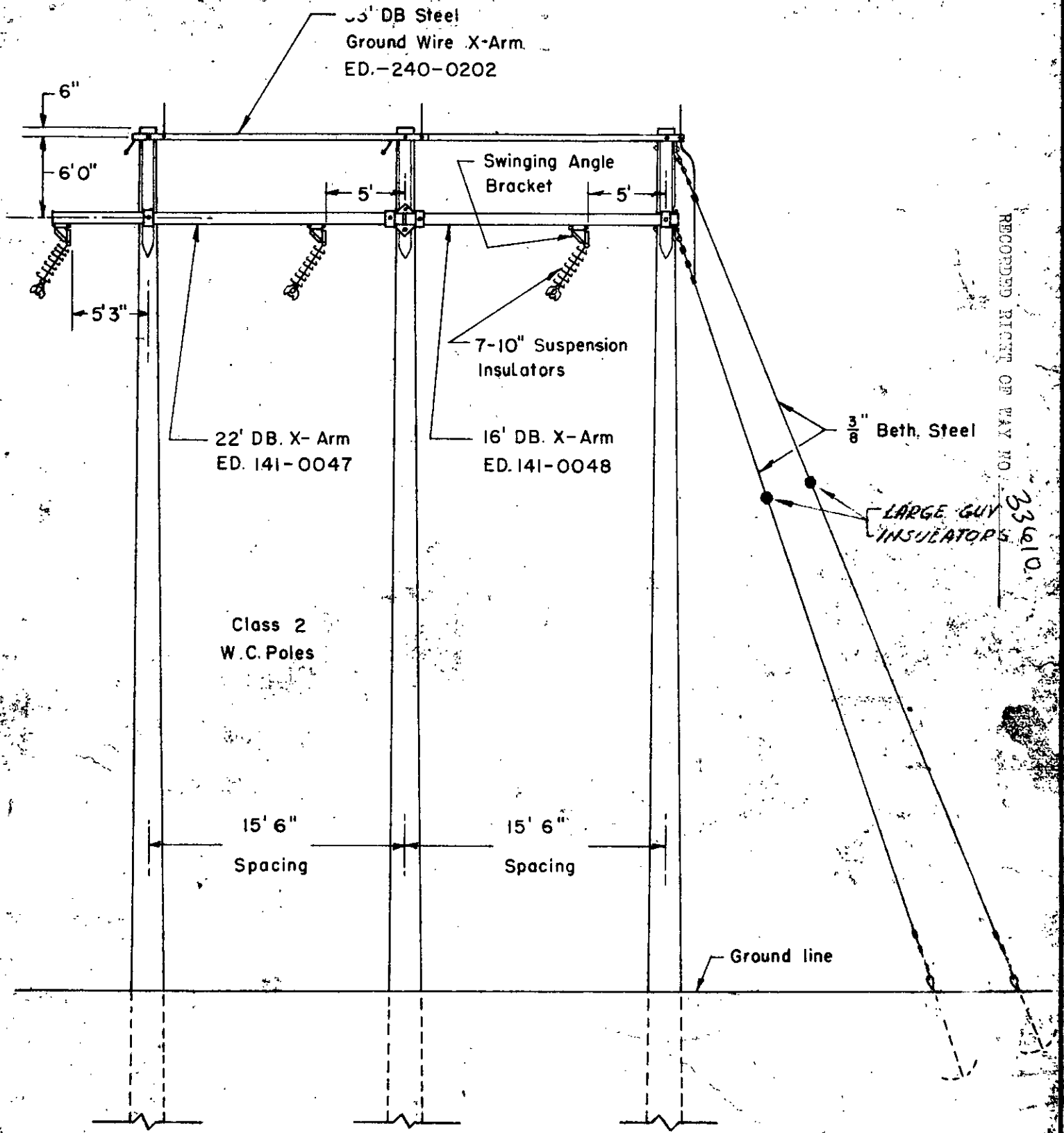
AMERICAN BRIDGE CO.
 PITTSBURGH, PA.

INQUIRY NO. T-5447
 ORDER NO. Q 3467
 DRAWING T-841A
 DATE 12/1/22 SCALE

REVISIONS

12/1/22 Traced

Copyright American Bridge Co., 1922



RECORDED RIGHT OF WAY NO. 33610

Class 2
W.C. Poles

15' 6"
Spacing

15' 6"
Spacing

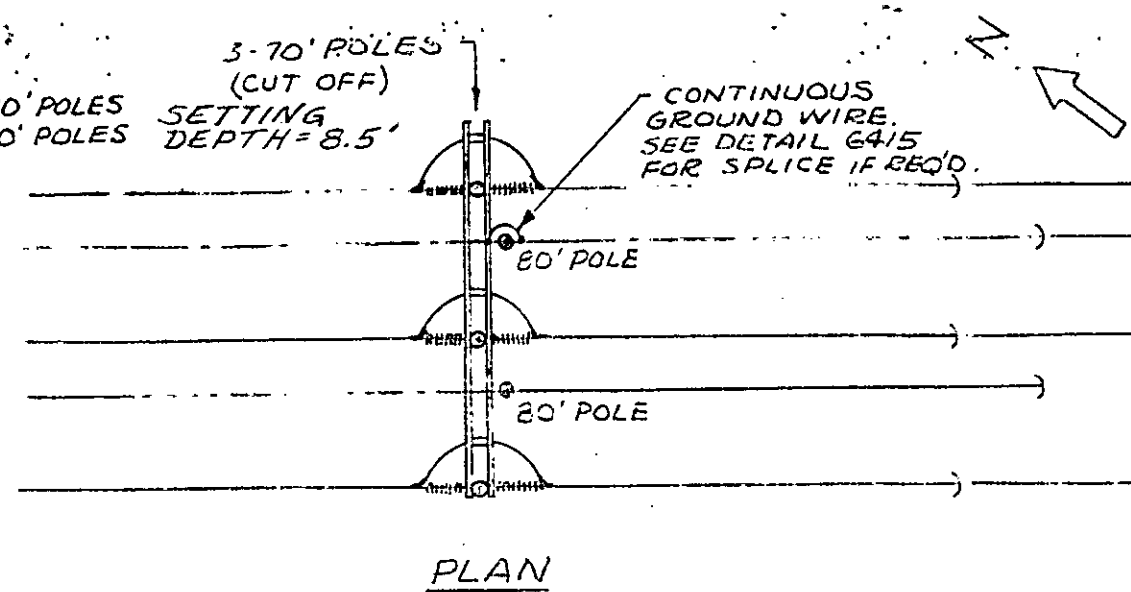
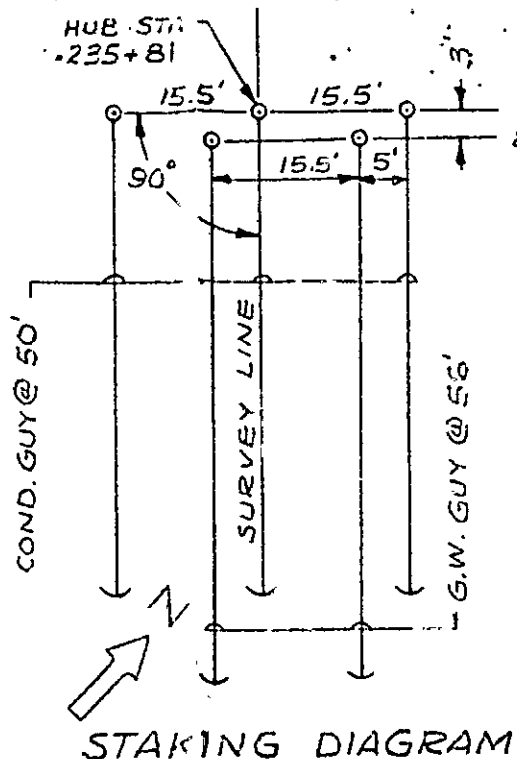
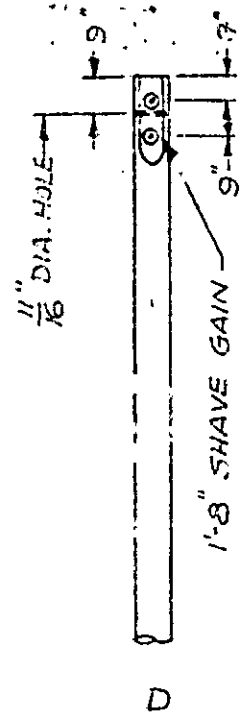
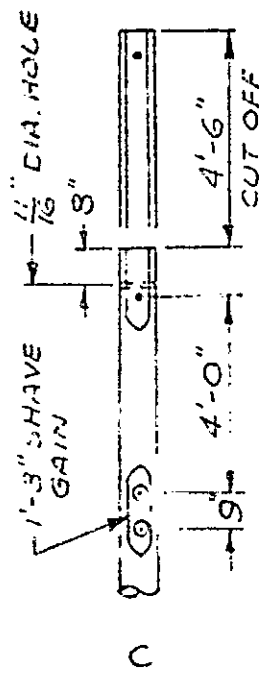
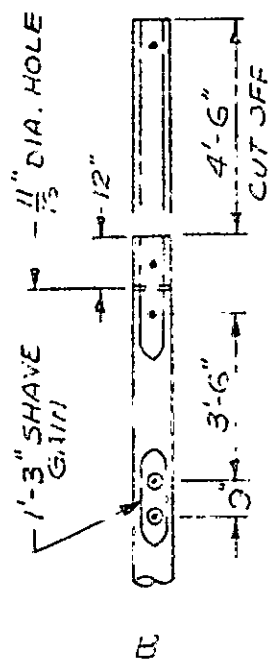
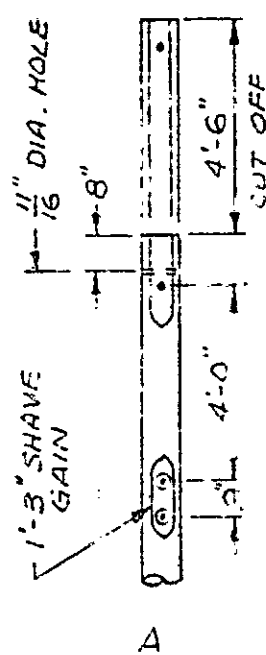
Ground line

For Construction Details
See Dwg. 6S5773-15

APPROVED	LAYOUT
APPROVED	DRAWN
APPROVED	SCALE

LA-LIGHT ANGLE STRUCTURE 120 KV.

THE DETROIT EDISON COMPANY ELECTRICAL ENGINEERING DIVISION	
DATE	DWG. NO.
9-3-53	ED-1375

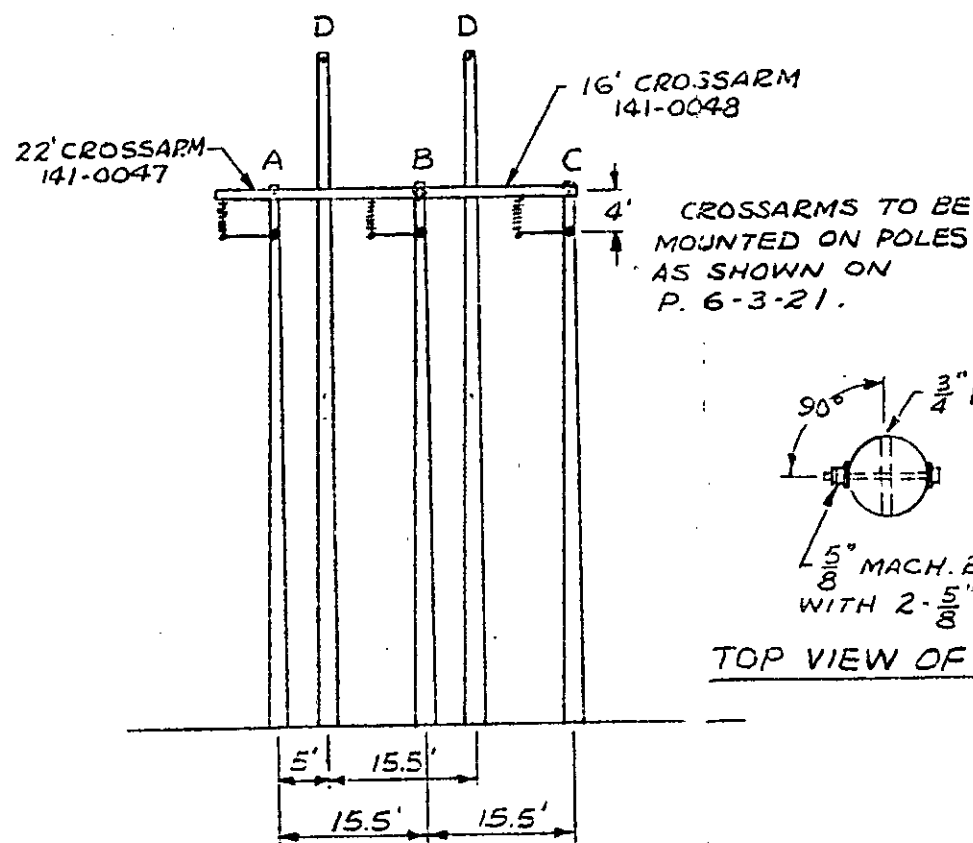


- INDICATES EXISTING HOLE
- ⊙ INDICATES 1 1/16" DIA. HOLE TO BE BORED & DAPPED FOR 4" T.E.CO. SHEAR PLATE

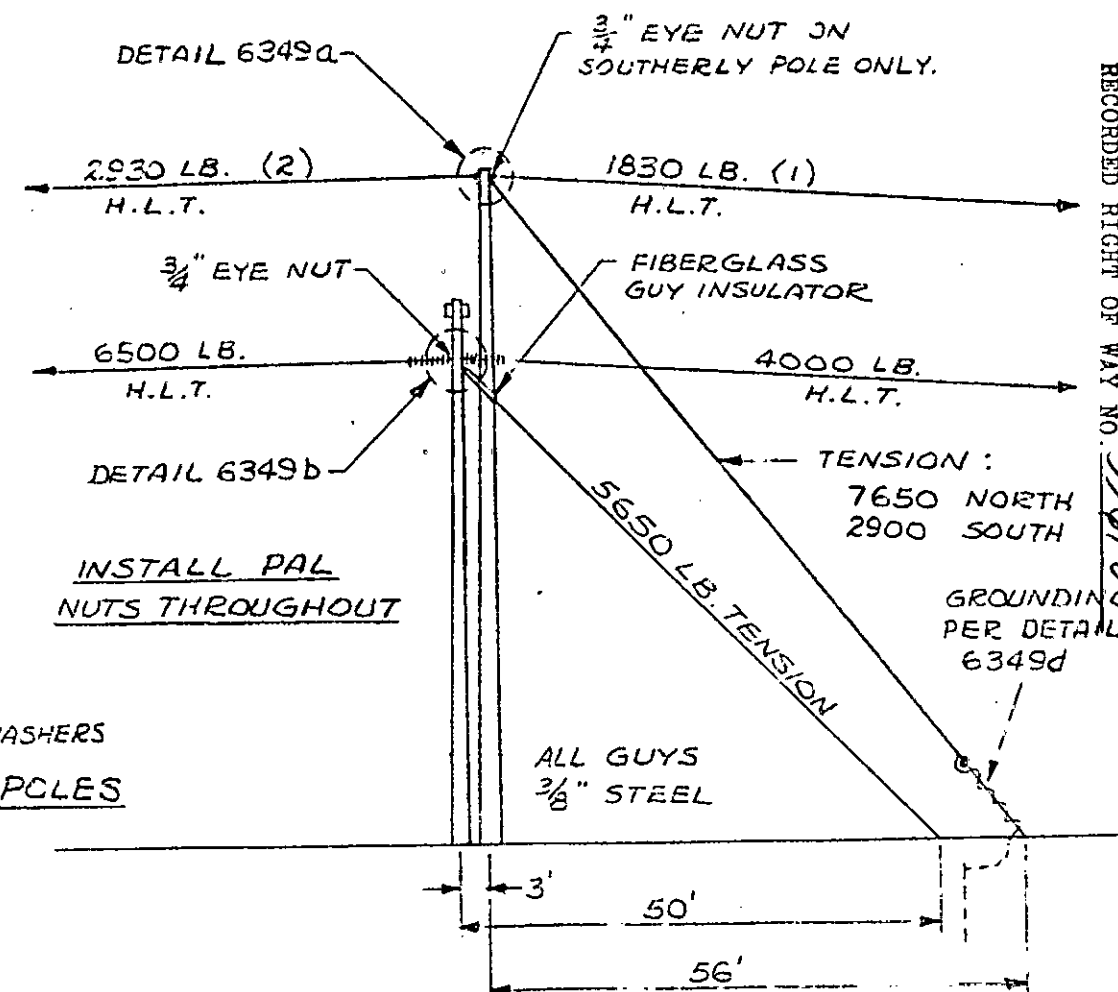
POLE FRAMING

POLE FRAMING NOTES:

POLE A TO BE MADE FROM 70' CI FRAMED PER DETAIL 6332.
 POLE B TO BE MADE FROM 70' CI FRAMED PER DETAIL 6333.
 POLE C TO BE MADE FROM 70' CI FRAMED PER DETAIL 6334.
 POLE D (2 REQ'D) MADE FROM UNFRAMED 80' CI POLE.
 TREAT ALL EXPOSED WOOD WITH 5% PENTA SOLUTION.



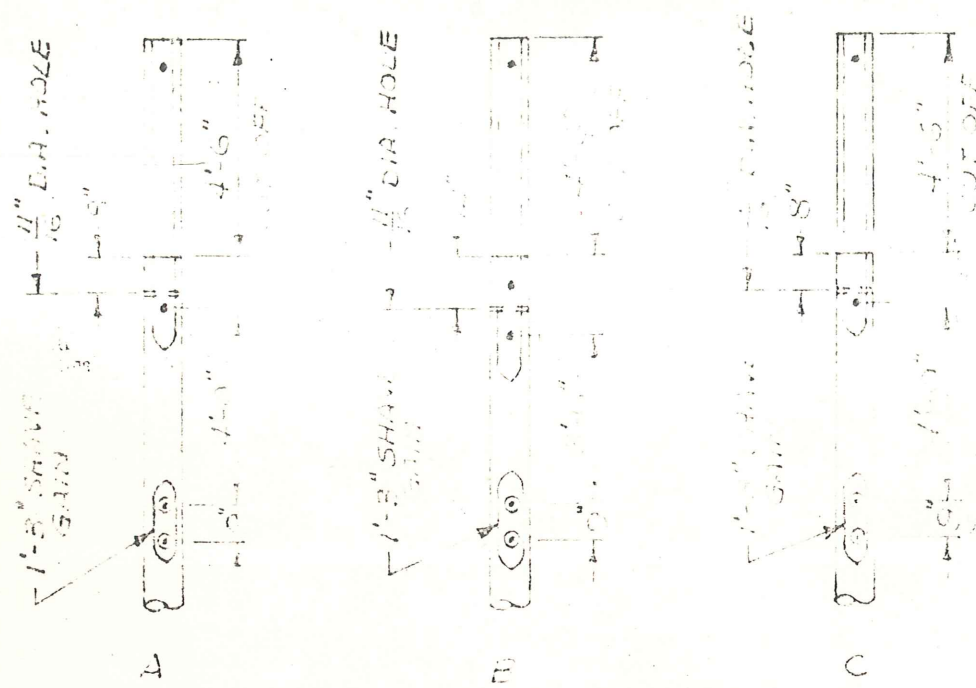
**ELEVATION
LOOKING
SOUTHEAST**



ELEVATION LOOKING NORTHEAST

LAYOUT OF SPECIAL 5-POLE DEADEND STRUCTURE # 7436 FERMI - LUZON 120 KV LINE	APPROVED	THE DETROIT EDISON COMPANY GENERAL ENGINEERING DEPARTMENT	
		LAYOUT BY	DRAWN BY
		DATE	7/1/65
		SCALE	1" = 20'
			ED-5841

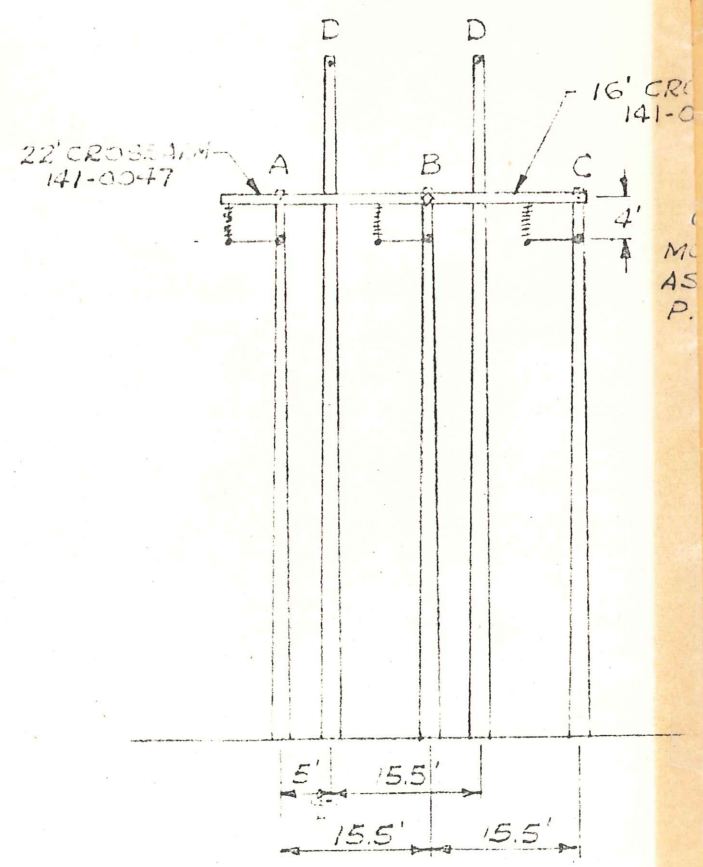
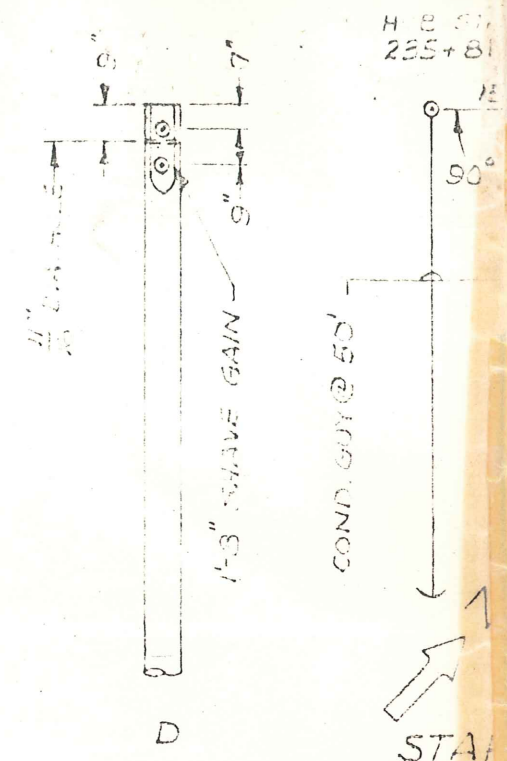
RECORDED RIGHT OF WAY NO. 336109



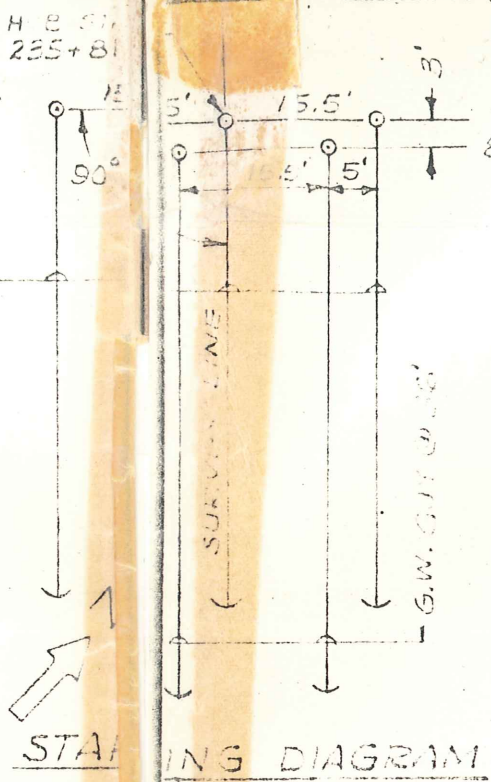
- INDICATES EXISTING HOLE
- ⊙ INDICATES 1/2" DIA. HOLE TO BE BORED & DAPPEL AND 4" T.E. CO. SHEAR PLATE

POLE FRAMING

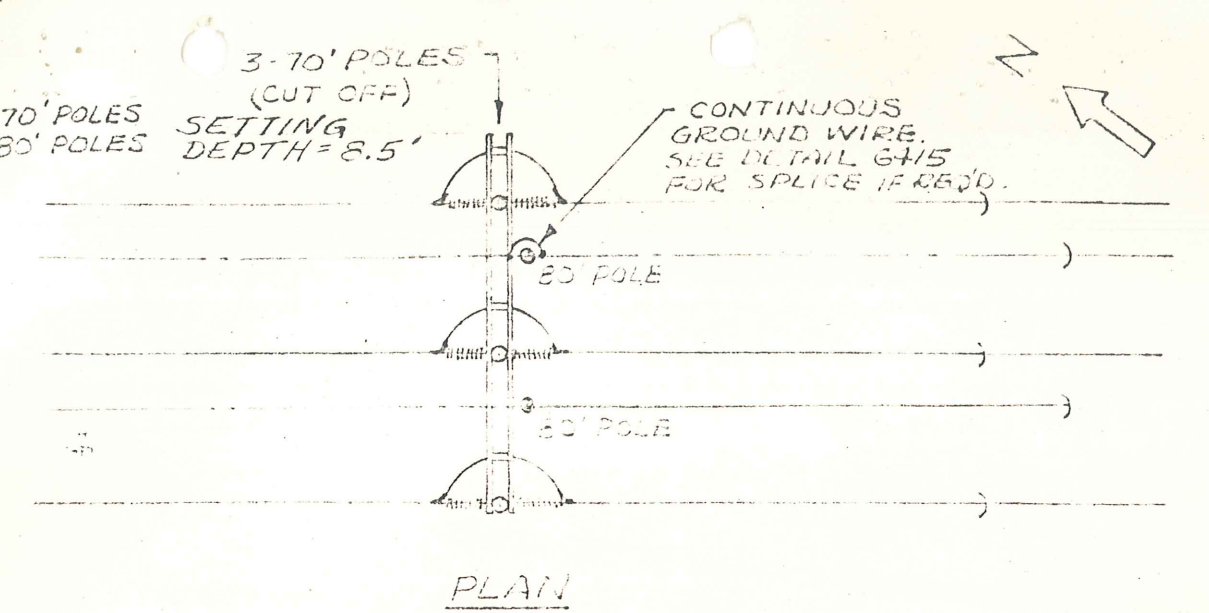
POLE FRAMING NOTES:
 POLE A TO BE MADE FROM 70' CI FRAMED PER DETAIL 6332.
 POLE B TO BE MADE FROM 70' CI FRAMED PER DETAIL 6333.
 POLE C TO BE MADE FROM 70' CI FRAMED PER DETAIL 6334.
 POLE D (2 REQ'D) MADE FROM UNFRAMED 80' CI POLE.
 TREAT ALL EXPOSED WOOD WITH 5% PENTA SOLUTION.



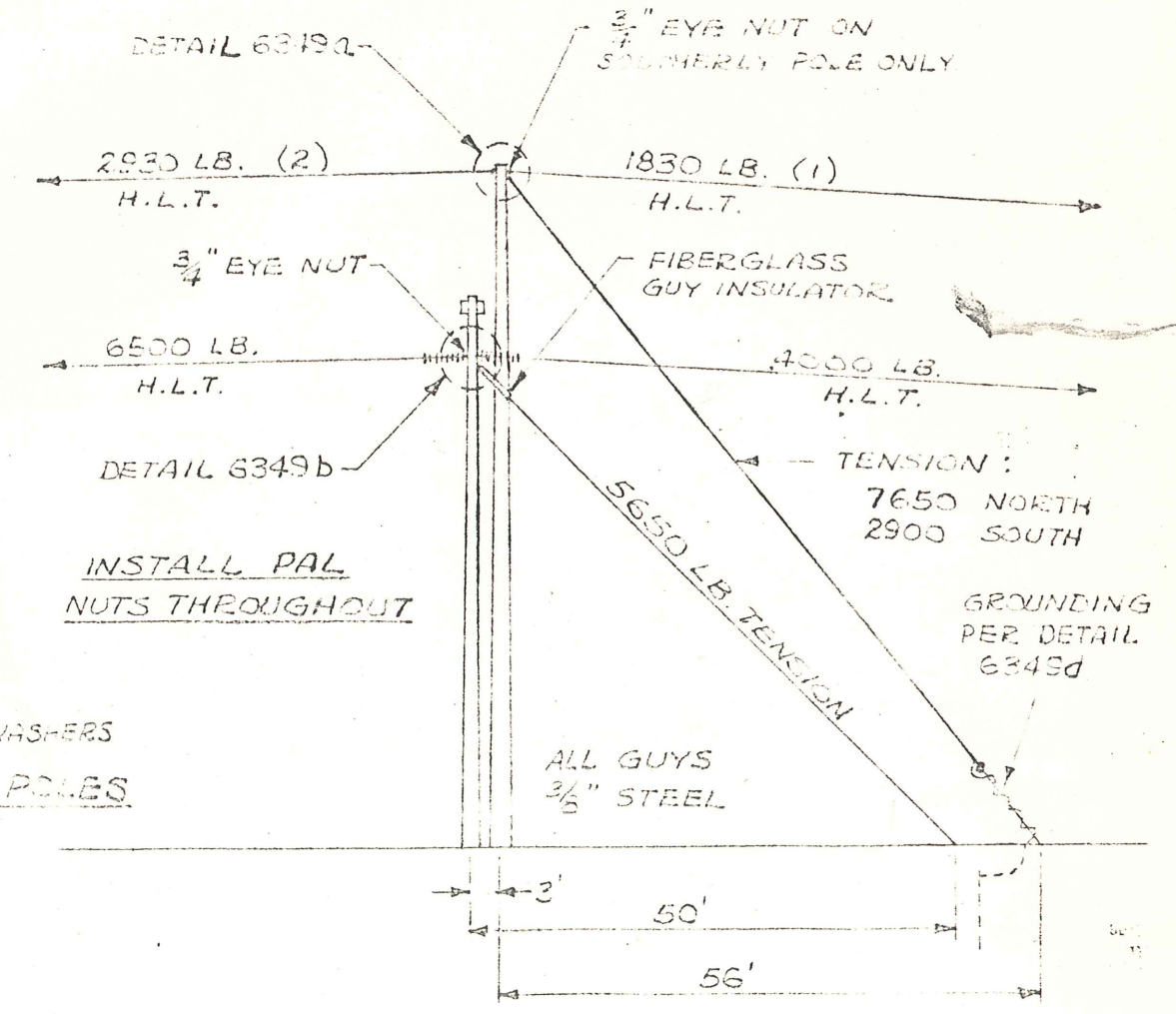
**ELEVATION
 LOOKING
 SOUTHEAST**



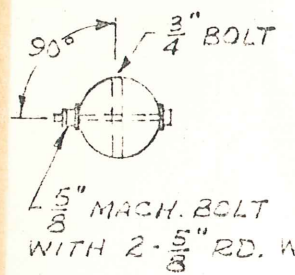
STARTING DIAGRAM



PLAN



ELEVATION LOOKING NORTHEAST



TOP VIEW OF ALL POLES

LAYOUT OF SPECIAL 5-POLE DEADEND STRUCTURE # 7436 FERMI - LUZON 120 KV LINE	APPROVED	THE DETROIT EDISON COMPANY GENERAL ENGINEERING DEPARTMENT	
		LAYOUT BY	DRAWN BY
		DATE	7/1/65
		SCALE	1" = 20'

RECORDED RIGHT OF WAY NO. 33610

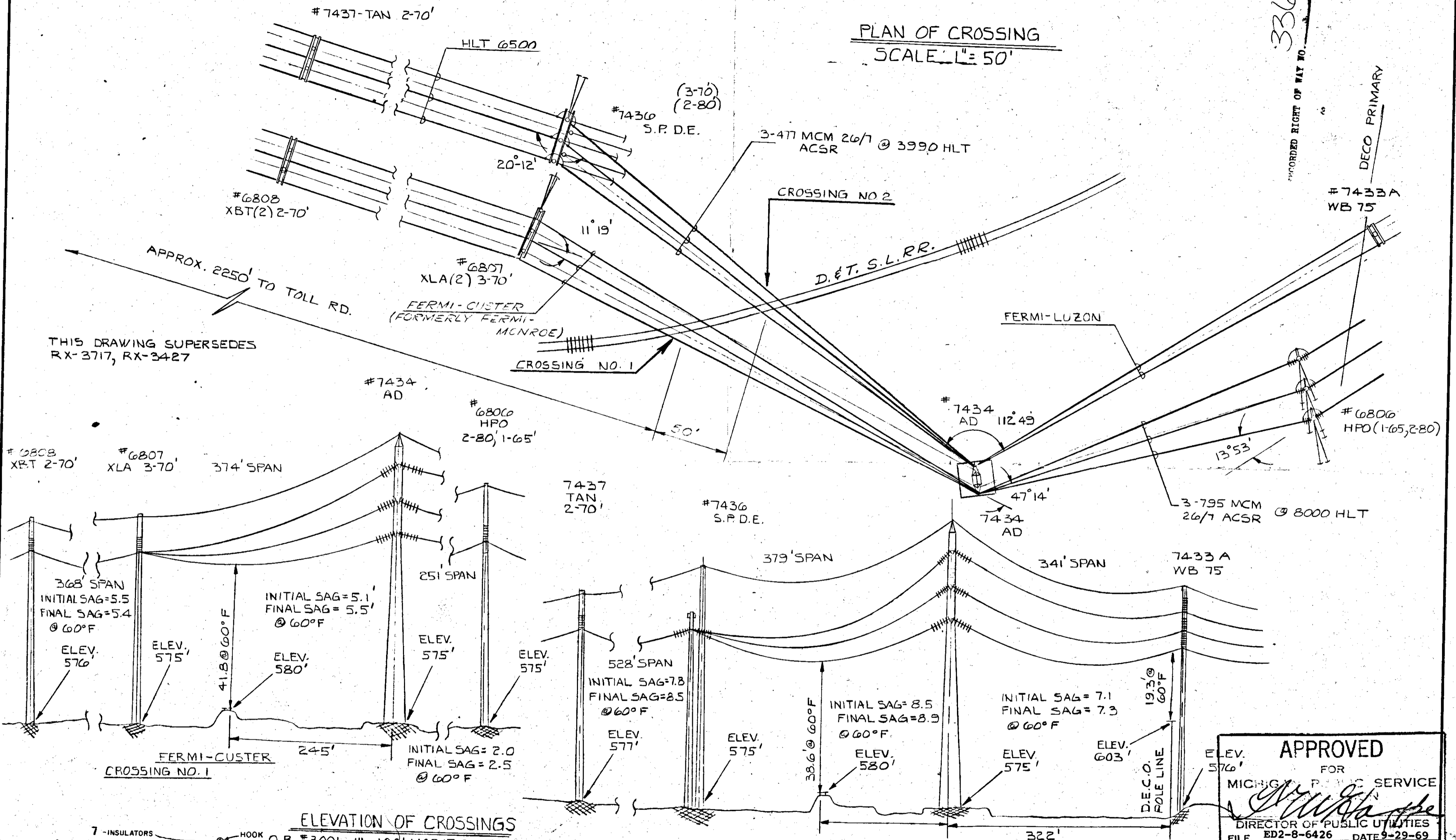
FERMI-CUSTER 120 KV LINE
FERMI-LUZON 120 KV LINE

PLAN OF CROSSING
SCALE 1"=50'

33610

RECORDED RIGHT OF WAY TO

DECO PRIMARY



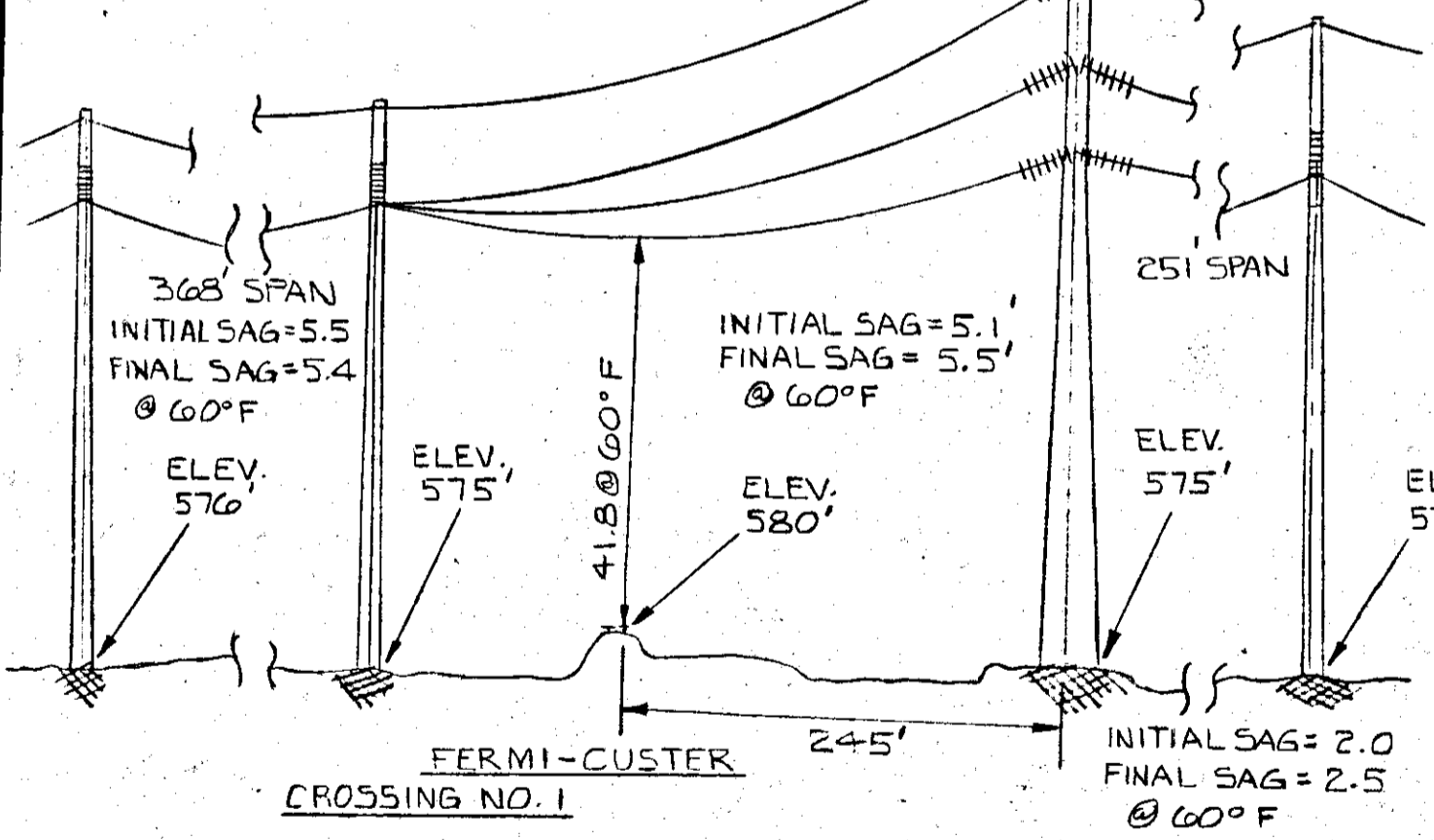
THIS DRAWING SUPERSEDES
RX-3717, RX-3427

APPROX. 2250' TO TOLL RD.

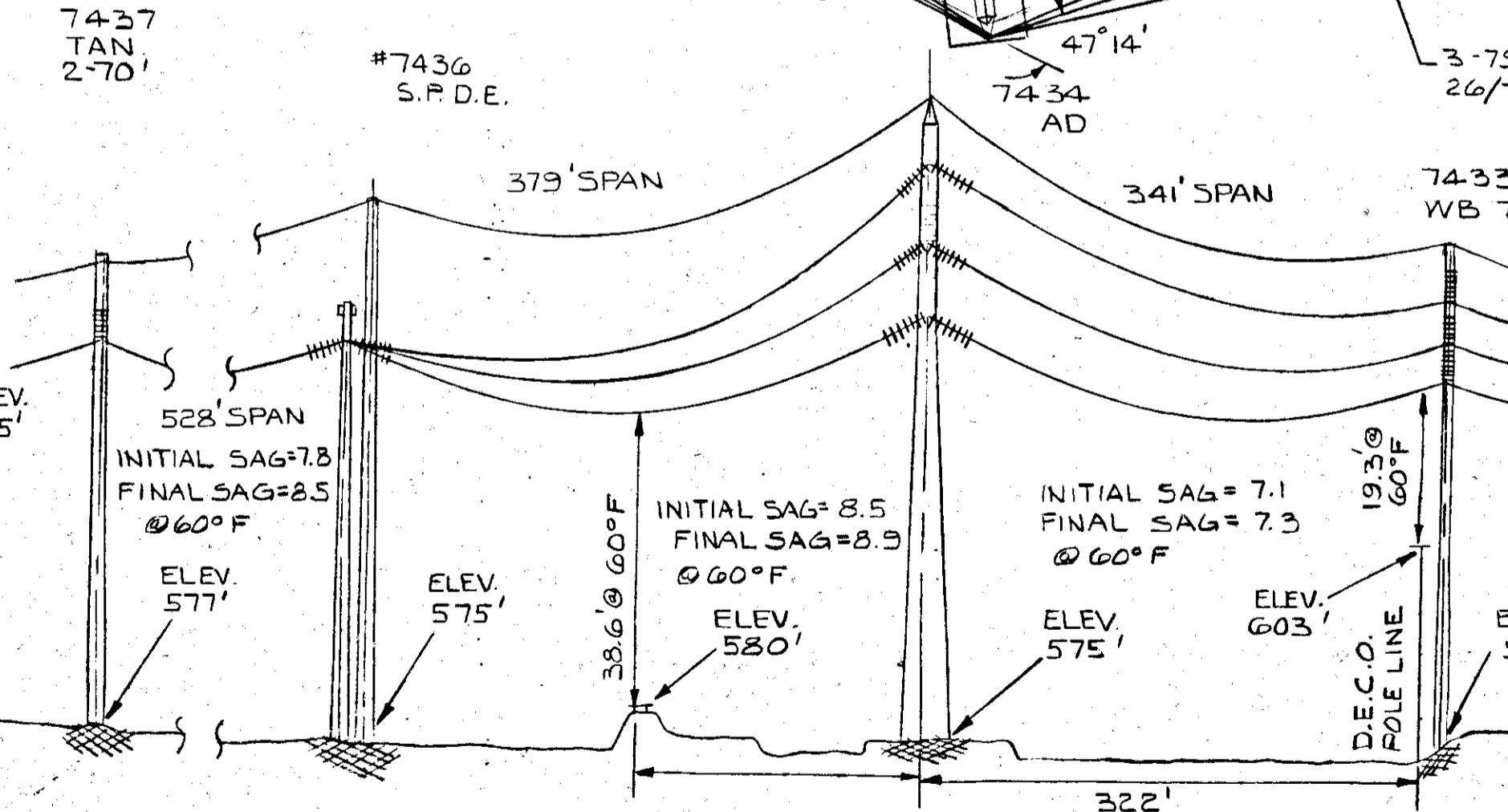
FERMI-CUSTER
(FORMERLY FERMI-MCNROE)

FERMI-LUZON

#6808 XBT 2-70' #6807 XLA 3-70' 374' SPAN

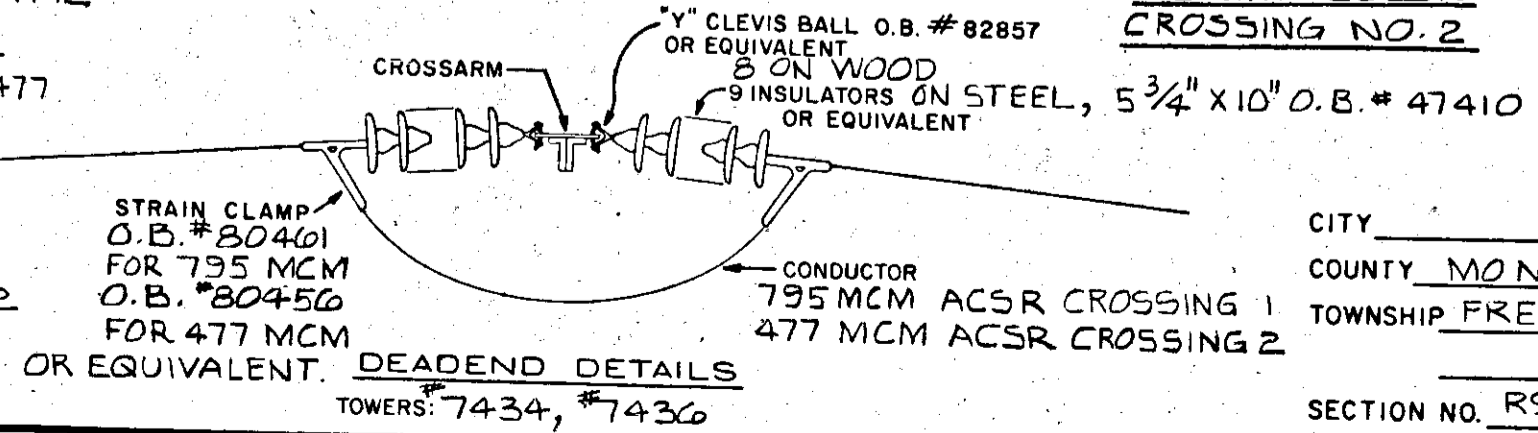
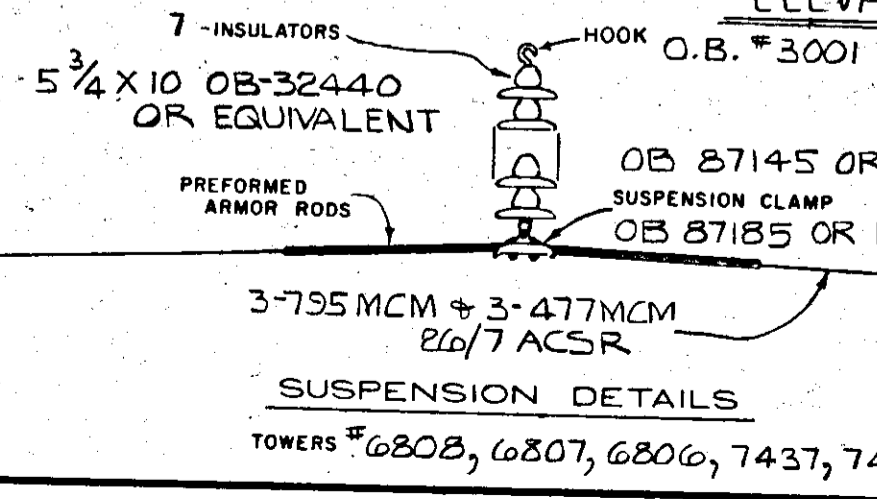


ELEVATION OF CROSSINGS
1"=100' HORIZONTAL
1"=20' VERTICAL



FERMI-LUZON
CROSSING NO. 2

APPROVED
FOR
MICHIGAN PUBLIC SERVICE
[Signature]
DIRECTOR OF PUBLIC UTILITIES
FILE ED2-8-6426 DATE 9-29-69



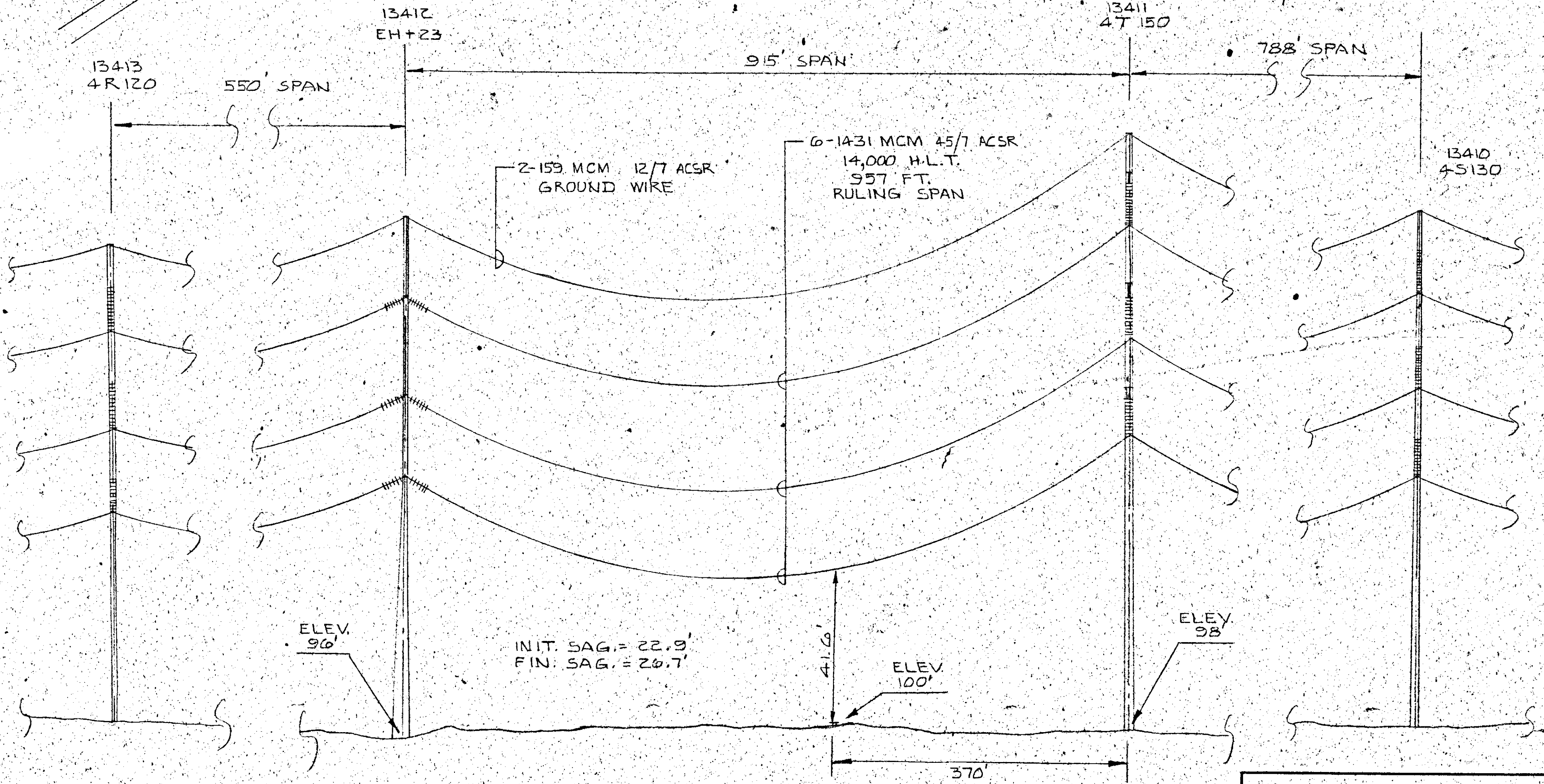
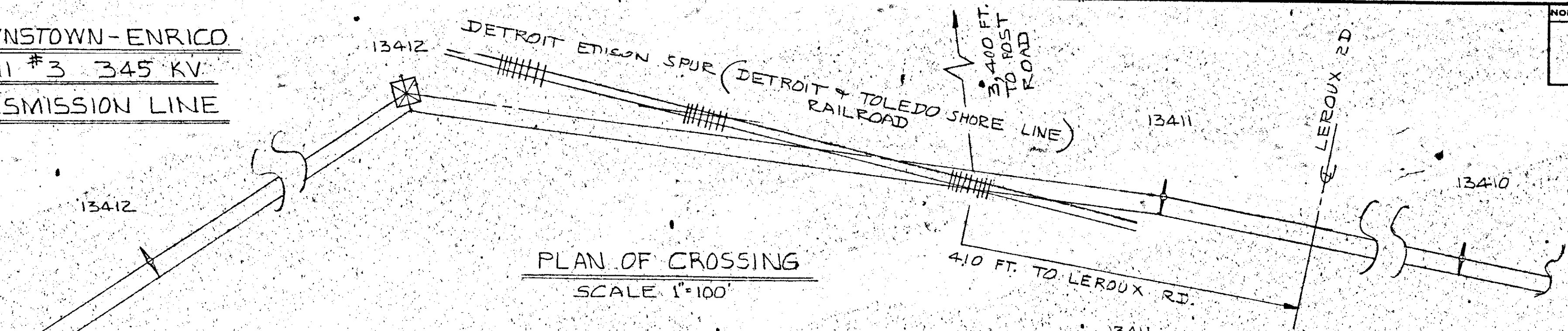
THE DETROIT EDISON COMPANY
PLAN SUBMITTED TO
MICHIGAN PUBLIC SERVICE COMMISSION
FOR 120,000 VOLT CROSSING
OVER DETROIT TOLEDO SHORE LINE R.R.
DRAWN BY C. VAN PARIS DATE 9/19/69
APPROVED BY *[Signature]* DATE 9/19/69
PERMIT NO. ED DRAWING NO. RX-3918

CITY _____
COUNTY MONROE
TOWNSHIP FRENCHTOWN
SECTION NO. R9E, T6S

RECORDED RIGHT OF WAY NO. 33610

33610

BROWNSTOWN-ENRICO
FERMI #3 345 KV
TRANSMISSION LINE



ALL DIMENSIONS AT 60° FINAL

RECORDED RIGHT OF WAY NO. 33610

CITY _____
 COUNTY MONROE
 TOWNSHIP FRENCHTOWN
T. 6-7S. - R. 9-10E.
 SECTION NO. N.W. 1/4 17

THE DETROIT EDISON COMPANY PLAN SUBMITTED TO MICHIGAN PUBLIC SERVICE COMMISSION FOR 345,000 VOLT CROSSING OVER D. & T. S. L. R. R. DRAWN BY C. VAN PARIS DATE 9-1-78 APPROVED BY <i>John S. Hanson</i> DATE 9-6-78	
PERMIT NO. _____	DRAWING NO. RX-4324

RECORDED RIGHT OF WAY NO. 33610

33610