

April 1, 1977

Mr. Paul Rudder, Superintendent
Southern Railway System
P. O. Box 1791
Knoxville, Tennessee 37901

Dear Mr. Rudder:

The City of Harriman, Tennessee acting by and through the Harriman Utility Board, request the approval of our application for crossing over your Cincinnati to Chattanooga line near Harriman junction to provide electric service to Southern Railway signal system in accordance with our Drawing Number 82-B.

We submit the following data covering this application.

- 1) Type Utility Electric
- 2) Type of Wire 3/8" Utility Grade Guywire
- 3) Maximum Voltage 0
- 4) Three (3) Prints
- 5) Harriman Utility Board Members:

Bill Newcomb
Rhea Gallaher
Bob Moody
Ed Browder
Allan Watson

Very truly yours,

Jack Howard
ASSISTANT MANAGER

JH:el

Enclosures: 1 Application
 3 Prints

SOUTHERN RAILWAY SYSTEM

APPLICATION FOR WIRE CROSSING

ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Knoxville Division:

The undersigned hereby makes application to cross the right of way of the Southern Rail way

Company with a line of wires, as described below, forming a part of the applicant's line extending from Riggs Chapel to Harriman Junction

and hereby agrees to construct, install, maintain and renew said crossing in strict accord with the applicable requirements of the latest issue of REPORTS OF JOINT ENGINEERING COMMITTEE OF ASSOCIATION OF AMERICAN RAILROADS AND EDISON ELECTRIC INSTITUTE ON CROSSINGS OF ELECTRICAL SUPPLY LINES AND FACILITIES OF STEAM AND ELECTRIFIED RAILROADS, regardless of anything in the following descriptions which may be in conflict with such specifications, and further agrees, before attempting to effect the same, to execute, promptly upon submission, a contract, in form required by the Railway Company to cover said crossing.

DESCRIPTION OF PROPOSED CROSSING

Proposed crossing to be located 1500' ft. ~~N of M. P. 258~~ 256.5 of M. P.

between Harriman and Oakdale and will be ~~undergrade~~ overgrade.

Angle between center line of main track and supply line crossing span to be 69 degrees.

The line will approach the crossing from ~~S or W~~ S W sides in a generally S W direction at S 50° W degrees.

Number of tracks to be crossed 3 Number of pole lines to be crossed 0

Number of poles on right of way of Railway Company 1 Number of guys or anchors 3

Distance from crossing poles or towers to center line of nearest main track N or E 75 ft.

S or W ft.

Distance from crossing poles or towers to center line of nearest side track N or E ft.

S or W ft.

If proposed line will parallel the Railway right of way on either side of crossing, state approximate length of parallel:

 ft. and separation between proposed line and Railway communication lines: ft.

Type of Supports ~~Poles.~~ Poles have ~~Poles.~~ (Double) ~~(Single)~~ (Single) vertical construction employing ~~Clevises~~ (Clevises)

If wood poles are used, give kind of timber Southern Pine Length of pole 45 ft.

Circumference at top 23 in. Circumference six feet from butt 40 in.

Depth of pole to be set in ground 6.5 ft. Show on drawing location of all guys and anchors.

A. C. Voltage 7620 No. phases 1 Operation { Delta } { Star }

Configuration to be shown on drawing

Cycles.....0..... No. wires.....1..... Is neutral ground employed in supply line?.....Yes.....

Will voltage be increased later?..... If so, to what voltage.....

D. C. Voltage ----- Amperes. ----- No. wires. ----- Configuration to be shown on drawing.

Size of wire ----- gauge { AWG }
 { Solid } { Bare }
 { Stranded } { Insulated }
 ----- Material of wire ----- { Hard }
 { Soft } drawn.

Insulators, Material Type $\left. \begin{array}{l} \text{Pin-type} \\ \text{Rigid Dead-end} \\ \text{Suspension} \end{array} \right\} \text{Voltage Rating} \dots\dots\dots$

Height of lowest wire above top of rail.....29 ft. Height of lowest crossarm of wire support above ground

39 ft.

Minimum vertical separation between nearest crossing wire and Railway communication wires.....ft.

Railway signal wires.....ft.

Length of crossing span. 137 ft.

Length of spans adjacent to crossing span N. or E.....580.....ft. S. or W.....ft.

Maximum sag in crossing span..... 0.1 ft. at 60 degrees Far.

Maximum stress in each gauge of wire: $3/8"$ gauge 11500 lbs. gauge

lbs. gauge lbs. under applicable loading conditions.

Applicant will attach drawing showing layout of proposed crossing and details of construction.

UNDERGRADE CROSSING

Depth below base of rail.....ft. Size and character of duct.....

Number of ducts.....ft. Type of protection for ducts.....
Applicant to give full description of material to be used and method of installation.

Name of applicant seeking crossing.....

Incorporated under the laws of the State of.....

Location of principal office..... State of.....

If not incorporated, give names and addresses of principal owners:

(Town) (State) Signed _____

Application Approved: _____, 19____ Title _____

..... Superintendent Superintendent Communications

Chief Engineer M. W. & S. Signal and Electrical Superintendent