

**General Report** No. 1786.

**Individual Report** No. 9.

**Risk** No. 19.

**Risk:** Car House, Repair and Paint Shop.

**Class:** 1-B.

**Location:** Merritt and Fourth Sts., Columbus, Ohio.

**Owner and Occupant;** The Columbus Railway & Light Co.

**Date:** May, 1909.

**See Map** No. 4.

#### SUMMARY.

A 1 story brick car house used for car storage, repairing and painting and occupied by the Columbus Traction Co. for the care and storage of its cars, the operation of this company having been taken over by The Columbus Railway and Light Co. The building is new and of rather substantial construction but is in a single area the walls not being so constructed as to separate it into fire divisions. All the principal repairing and painting necessary for the maintenance of the rolling stock of the Columbus Traction Company's ownership is done here. Private protection is good and public protection fair.

#### PROMINENTLY DESIRABLE FEATURES.

Risk is one story and new, a large portion of the rolling stock is kept out in open storage, hazards are fairly well cared for and the fire protection is good.

#### PROMINENTLY UNDESIRABLE FEATURES.

Walls intended as division walls have not been made standard cutoffs and the entire risk is subject to a single fire, occupancy includes both repairing and painting, pits have not been constructed standard, oils and paints are stored in the risk and the heater stack does not have sufficient clearance at the roof.

#### CONSTRUCTION.

A 1 story brick building 20 feet to the eaves. Area is 19700 square feet divided into three general sections, the repair shop, the paint shop and the office, employes rooms, blacksmith shop etc., the last mentioned general division being sub-divided into six rooms of special occupancy the partitions being brick walls extending through the roof but having door openings with tin clad doors not standard. Outside walls are 12 inch and buttressed every 15 feet except the walls above the track doors in front which are of frame metal covered. The division wall between the paint shop and the repair shop is 12 inch, extending 18 inches above the roof and having one door opening protected by double standard fire doors; but with the continuous frame end at the front it is not a standard cutoff. The wall between the repair shop and the small rooms of special occupancy is 12 inch but extends to the roof only and has numerous door openings with tin clad doors not of standard construction or hanging. Roof is composition gravel on 7-8 wooden sheathing with wooden rafters and Howe trusses supporting. There are skylights in each section but all have metal clad sides metal frames and wired glass panes. Floors throughout are of concrete. Pits have concrete bottoms and sides with tracks laid on wooden stringers supported by wooden posts with the space between planked over. Finish throughout is open but several small decks have been constructed in the rear of the two main rooms which are to be used for storage purposes. Track openings have Kinnear metal rolling doors.

## EXPOSURE.

The only exposure is from the frame shipping department of the Columbus Chain Co. at a distance of 60 feet.

## OCCUPANCY.

The North section is occupied as a paint shop and car storage house, the center section as a repair shop or pit room and car storage, and the South section is divided up and occupied as an office, employes rooms, machine shop, blacksmith shop, woodworking shop, and heater room respectively. The total capacity of the building's trackage in cars is 24 the greater portion of the rolling stock kept at this location being stored outside.

## HAZARDS.

**Heating** is by steam with pipes well run but with 36 inch heater stack with only 6 inches clearance at the roof sheathing. **Lighting** is electric with wiring in excellent condition. **Electric motor** in the machine shop has wiring properly installed, resistance mounted on a slate base and lightning arrester on the pole outside service being from the trolley system. **Trolley wires** are properly supported on insulated hangers and are provided with the necessary **cutout switch** and **lightning arrester**. **Rails** are properly bonded and run clear to the street. One barrel each of car **oil** and gear grease is kept in the pits. **Oily waste** is well cleaned up and deposited in metal waste cans. **Repairs** here include all ordinary work necessary for the keeping up of the cars except rebuilding, the woodworking being hand work only and the painting not extensive but all the paints used are kept stored in the risk. **Cars** are electric heated and lighted with wiring not nearly standard. **Trolley poles** are drawn down out of contact with the trolley wire during the storage of cars.

## ADMINISTRATION.

The construction of the risk makes it one easy to care for and at the time of inspection it was found in good condition generally. Employes appear careful and competent and good discipline is maintained. Insurance on the building is carried under general form of the Columbus Railway & Light Co. and the rolling stock under general form of the Columbus Traction Co. (SEE VALUE SHEET).

## PROTECTION.

Private protection consists of a 3 inch outlet vertical pipe in each main section with 100 feet of standard 2 5-8 inch hose attached, twelve approved chemical extinguishers distributed, and nightwatch service with watchman reporting by A. D. T. system. Public protection includes double hydrant at risk and another within 500 feet with excellent fire department within 1-2 mile.

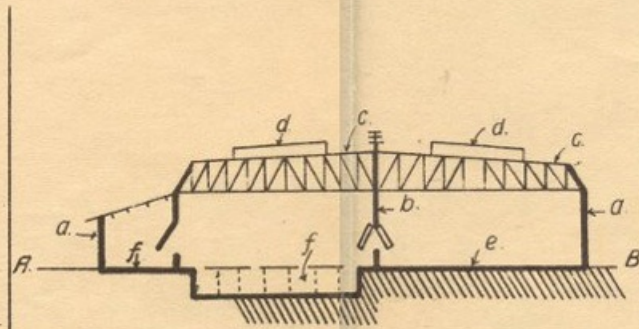
## RECOMMENDATIONS.

1. Provide collar and rain shield around the heater stack allowing not less than 18 inches clearance from the wood work.
2. Provide outside storage house, not exposing, for the storage of the main supply of oils and paints.
3. Make all car wiring standard.
4. Extend the division wall through the frame end sufficient to cut off exposure between the two sections.

# THE COLUMBUS RAILWAY AND LIGHT

## MERRITT ST. CAR BARN AND REPAIR SHOP INDIVIDUAL REPORT NO. 9.

- a - 12" BRICK WALLS WITH BUTTRESSES 15 FEET BETWEEN CENTERS
- b - 12" DIVISION WALL WITH DOUBLE STANDARD FIRE DOORS AT OPENING AND 18" PARAPETS, BUT WITH FRAME END COMMUNICATING BETWEEN SECTIONS.
- c - COMPOSITION TAR AND GRAVEL ROOF ON  $\frac{1}{8}$ " WOODEN SHEATHING WITH WOODEN RAFTERS AND TRUSSES SUPPORTING.
- d - WIRED GLASS SKYLIGHT WITH METAL FRAMES AND METAL COVERED ROOF HOUSE.
- e - CONCRETE FLOOR.
- f - COMMUNICATING PITS WITH CONCRETE BOTTOMS AND SIDES, AND WITH TRACKS ON WOODEN STRINGERS, AND POSTS PLANKED OVER BETWEEN.



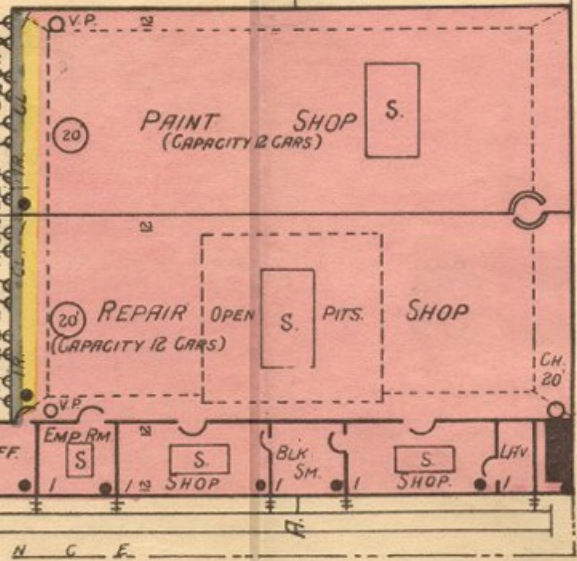
MERRITT ST.

ST.

FENCE

S. FOURTH ST.

STEEL ROLLER DOORS



T & O. C. Tool Ho.

T & O. C. R. R.