

# I. Components

## A. Wire

1. track power: #18 or larger -
2. switch machine power: #18 or larger -
3. intercom: standard intercom cable
4. signal & panel indicator lights: #22 solid
5. ground wires (track power & switch machine): ~~#18~~ braided open, braided grounding cable

## B. Switch Machines

rotary and/or twin-coil machines as better suits the purposes of circuitry & availability.

## C. ~~Re~~ Controls

1. rotary switches for track power & turnout control dependent upon panels
2. push-button switches where desirable for yard & ladders & roundhouse controls
3. relays: IBM wire-contact where adequate; guardian type 200 series for heavy duty applications

C. cont'd

4. transistors

detection: 2N455 or better if  
~~Twin-T~~ detection is used

D. Lights

1. indicator: 18 volt grain-of-wheat  
and/or 18 volt bayonet type

2.

## II. Throttle Controls

A. Mainline

TAT III<sup>or equiv.</sup> on all cabs for  
ease of interchangeability & selective operation.

B. Yard & Roundhouse

TAT III (or equiv.); or CONVENTIONAL  
THROTTLE

# ~~III. Indicator Lights~~

## II. cont'd

### C. Interurban

TAT ~~III~~ (or equiv.) ; OR CONVENTIONAL  
THROTTLE

## III. Systems

### A. Mainline

1. selective block control with common ground provided by each cab
2. automatic reversing in all reversing blocks with provision for manual ~~override~~ override
3. Twin-T detection system
  - a. signals
  - b. block occupancy
  - c. automatic reversing
  - d. automatic emergency braking
4. power routing through turnouts  
~~by of contacts~~ means of contacts

III. cont'd

B. Yards — Freight

1. Power routing thru turnout contacts
- 2.

C. Yards — Passenger

1. Power routing thru turnout contacts.
- 2.