Terminology of Overhead Catenary Parts and Assemblies

Blue Line Overhead

This material has been compiled to assist Blue Line personnel in the proper identification of overhead catenary parts and assemblies. Please use this terminology in reporting any problems or potential problems which you may encounter.

POWER DIVISION
Transmission and Distribution Area
Superintendent – Paul F. White
Supervisor – Sean J. Carney
Engineer – Joseph A. Vassallo, Jr.
(FLEXIBLE and RIGID) PICKUP ASSEMBLIES

CONDUCTIVE FLEXIBLE PICKUP ASSY.

NON-CONDUCTIVE RIGID PICKUP ASSY.
SINGLE and CROSSOVER/OVERLAP EQUALIZER ASSEMBLIES

SINGLE EQUALIZER ASSEMBLY
(FOUND AT MOST BEAM LOCATIONS)

- MESSENGER WIRE
- MESSENGER CLAMPS
- 4/0 EQUALIZER CABLE
- TROLLEY WIRE

CROSSOVER/OVERLAP EQUALIZER ASSEMBLIES
(FOUND AT CROSSOVER AND BALANCE WEIGHT LOCATIONS)

- MESSENGER WIRES
- 4/0 EQUALIZER CABLES
- TROLLEY WIRES

Direction of Travel

16° Typ.

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FIXED and SPRING TENSION DEADENDS (at Crossovers)

FIXED MESSENGER AND TROLLEY WIRE DEADEND ASSEMBLY
(FOUND AT ONE END OF CROSSOVER LOCATIONS)

- MESSENGER WIRE
- MESSENGER WIRE DEADEND SHOE
- TROLLEY WIRE DEADEND SHOE
- TURNBUCKLE
- BEAM
- INSULATOR STICK
- GUY WIRE
- INSULATOR STICK
- TROLLEY WIRE

SPRING-TENSION MESSENGER AND TROLLEY WIRE DEADEND ASSEMBLY
(FOUND AT ONE END OF CROSSOVER LOCATIONS)

- SPRING TENSION DEVICES (STD's)
TYPICAL BRACKET ARM ASSEMBLY

600VDC FEEDER CABLE (Thick heavy BLACK cable)

4/0 FEED TAP CABLE (Black in color)

BEAMCLAMP

GUY WIRE

MESSENGER WIRE (Copper in color)

BRACKET ARM PIPES (Green in color)

BEAM (POLE) ie: 357/123 (Green in color)

TROLLEY WIRE (Copper in color)

PULLOVER TUBE (Grey in color)
**NOTE:**
1. TENSION IN MESSENGER WIRE = 4000 POUNDS
2. TENSION IN TROLLEY WIRE = 3000 POUNDS
YARD ASSEMBLIES

MESSENGER/TROLLEY WIRE
YARD ASSEMBLIES
(Found in Upper Yard Area)

PULLEY WHEEL

CROSS SPAN

MESSENGER WIRE

SPREADER

FLEXIBLE PICKUP

TROLLEY WIRE

BEAM ie: 354/49

SINGLE TROLLEY WIRE YARD ASSEMBLIES
(Found in Inner Yard)

BEAM ie: 354/49

CROSS SPANS

PULLEY WHEEL

STITCH ROPE

PULLOVER

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**TROLLEY WIRE and MESSENGER WIRE**

**INSULATOR ASSEMBLIES**

**MAINLINE ASSEMBLY:**
(also known as: CUTOUT, NOBO and DBI (double-beam insulator))

**CUTOUT**
(ie: B15)

**MESSENGER WIRE**

**MESSENGER INSULATOR**

**4/0 TROLLEY WIRE SPLICE**

**DOUBLE-BEAM INSULATOR**

**RUNNERS**

**TROLLEY WIRE**

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**CARHOUSE TROLLEY WIRE**

**INSULATOR ASSEMBLY**
(Found at carhouse doors)

**NOBO**

**MOVEABLE DOOR BRIDGE**

**TROLLEY WIRE**

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**NOTE:** Single **NOBOS** are used throughout the yard area and also at some crossovers
ELASTIC ARM ASSEMBLIES

Elastic Arms:
(found in tunnels and under bridges)

ELASTIC ARM and FIBERGLASS PROTECTIVE SHIELD ASSEMBLY