



LOCAL 60

CONDUCTOR CERTIFICATION
PHYSICAL CHARACTERISTICS
STUDY GUIDE

MORRIS AND ESSEX

PRESENTED BY

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This study guide contains helpful information for those conductors who will be re-certifying on the Morris and Essex lines. The M & E exam is divided into 5 sections

SECTION A - HOBOKEN TO WEST END

SECTION B - WEST END TO SUMMIT

SECTION C - SUMMIT TO DOVER

SECTION D - GLADSTONE BRANCH

SECTION E - DOVER TO HACKETTSTOWN

SECTION A - HOBOKEN TO WEST END

1) Main Track Rules

Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Dispatcher Control

Terminal to Lower Hack (Terminal Dspr.)

3) Maximum Authorized speeds

Depot tracks (10 mph)

West end of the depot & Eastward home signal of terminal (15mph)

Bergen Tunnels (30 mph)

4) ABS Signals in Bergen Tunnels

Study SI ME 277-1 pertaining to ABS signals in the Bergen tunnels with High signal aspects.

5) Horn Signals Hoboken

Study SI ME 19-1(A) (Approaching car wash facility)

6) Depot Tracks with Both side access

Study the Depot Tracks that have platforms on both sides of the equipment.

7) Hill Yard/ Catenary

Study SI ME 1008-1 (Note 2) pertaining to track 122 in Hoboken is NOT equipped with catenary.

8) Hoboken Terminal/ Track 1 Capacity

Track 1 in Hoboken Terminal capacity.

9) Voltage

Study SI ME 1008-1 (A) pertaining to the catenary voltage from Hoboken to Dover is 25Kv AC.

10) Hoboken terminal track access

Tracks (12) & (13) are the only tracks that can access 1 main and 4 main in terminal and east end. (See attached map)

11) Interlocking limits of Hoboken Terminal

Study SI ME 613-1 pertaining to the interlocking limits of terminal tower extends to the east end of the train shed tracks.

12) Stub/ Tail track

The stub/tail track location is south of 4 MAIN. (See attached map)

13) Hoboken Yards

See the attached map for the locations of these yards.

Hill (between 2main & 4 main)

Days (North of the E-route)

Pullman (South of 122, 6main, 4main).

SECTION B - WEST END TO SUMMIT

1) Main Track Rules

Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds

Electrical Equipment MP 2.7 & MP 6.6

3) Phase Gaps

MP 4.7 Meadows

MP 4.9 Waterfront (Single track)

MP 5.2 Kearny Jct (tracks 5 & 6)

MP 14.5 Maplewood

4) Sanfords Interlocking

Study Sanfords interlocking (see attached map) and what crossover it contains.

5) Summit station main tracks

Study summit station main track configuration. (See attached map)

6) Departing station near an interlocking

Study NJT SI 91-1 for M & E stations near interlockings and procedures.

Broad st. (east)

Millburn (east)

Summit

SECTION C - SUMMIT TO DOVER

1) Main Track Rules

Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds

MP 26.2 & MP 26.5 (50mph)

MP 34.4D & MP 34.8D (Powder Mill Curve)(40mph)

MP 35.9D & MP 34.1 (Denville Curve)(30mph)

3) Summit Yard Handbrake

Study SI ME 109 pertaining to handbrake application in summit yard.

4) Electric Lock Switch

Study the electric lock switch located near Drew interlocking on track 2. (Madison Team Track)(See attached Map)

6) Phase Gap

MP 30.7 Baker

7) Train Inspection Detectors

MP 35.0 (west of Denville)

8) Station stops across tracks

Study SI ME 121(B) pertaining to stations where rule 121-C is in effect. (Mount Tabor)

9) Departing station near an interlocking

Study NJT SI 91-1 for M & E stations near interlockings and procedures.

Morristown (west)

Denville (west)

Dover

9) Duplicate Mileposts

Study the station page (note 1) pertaining to the duplicate mileposts.

10) Dover Yard

Study the Dover yard configuration (see attached map) as well as the main tracks adjacent to the yard.

11) Dover Running Track

Study SI ME 97 pertaining to the Dover Running track's speed, direction, and control.

12) Dover Yard - Tracks N-1 and N-4

Study SI ME 98-6 pertaining to the speed and location of these pedestal tracks in Dover yard.

13) AC Motor Stop Sign

Study SI ME 1008-1 (AC electrical operation) (Note 1) pertaining to the location of the AC motor stop sign west of Dover.

SECTION D - GALDSTONE BRANCH

1) Main Track Rules

Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds

Main Track (60mph)

Sidings (15mph)

3) Speed Restrictions

MP 22.4 & MP 22.9 (45mph)

MP 24.6 & MP 25.0 (35mph)

4) Station stops across tracks

Study SI ME 121(B) pertaining to stations where rule 121-C is in effect.

Murray Hill

Stirling

Bernardsville

5) Departing station near an interlocking

Study NJT SI 91-1 for GS stations near interlockings and procedures.

Murray Hill

Stirling

Bernardsville

Far Hills (west)

6) Gladstone Yard

Study the Gladstone Yard configuration. (See attached map)

Also study SI GS 104 (B) pertaining to lining switches in the yard.

7) Phase Gaps

MP 29 Stirling

8) Train Inspection Detector

MP 27.8 Gillette

9) Bernardsville/ Depot place crossing

Study SI GS 138 (Note D) pertaining to procedures for Depot place road crossing.

10) Gladstone station Track

Study SI GS 98 pertaining to the Gladstone station track.

SECTION E - DOVER TO HACKETTSTOWN

1) Main Track Rules

Study the NJT Special Instructions (Main track rules in effect) this accounts for a majority of the questions on the exam.

2) Maximum Authorized speeds

MP 48.6 & MP 49.8 (30mph)

3) Hand Crossover

Study the location of the hand crossover at Chester Jct. (MP 41.3)

4) Station stops across tracks

*Study SI ME 121(B) pertaining to stations where rule 121-C is in effect.
Lake Hopatcong*

5) Departing station near an interlocking

Study NJT SI 91-1 for the M & E stations near interlockings and procedures.

Lake Hopatcong (east)

Mt. Olive (east)

Hackettstown (east)

6) Port Morris yard

Study Port Morris yard configuration. (see attached map)

7) Roxbury - Reversing at MP 47

Study SI ME 501 pertaining to changing ends on the single track west of Roxbury.

8) Cp Olive and CP Wharton

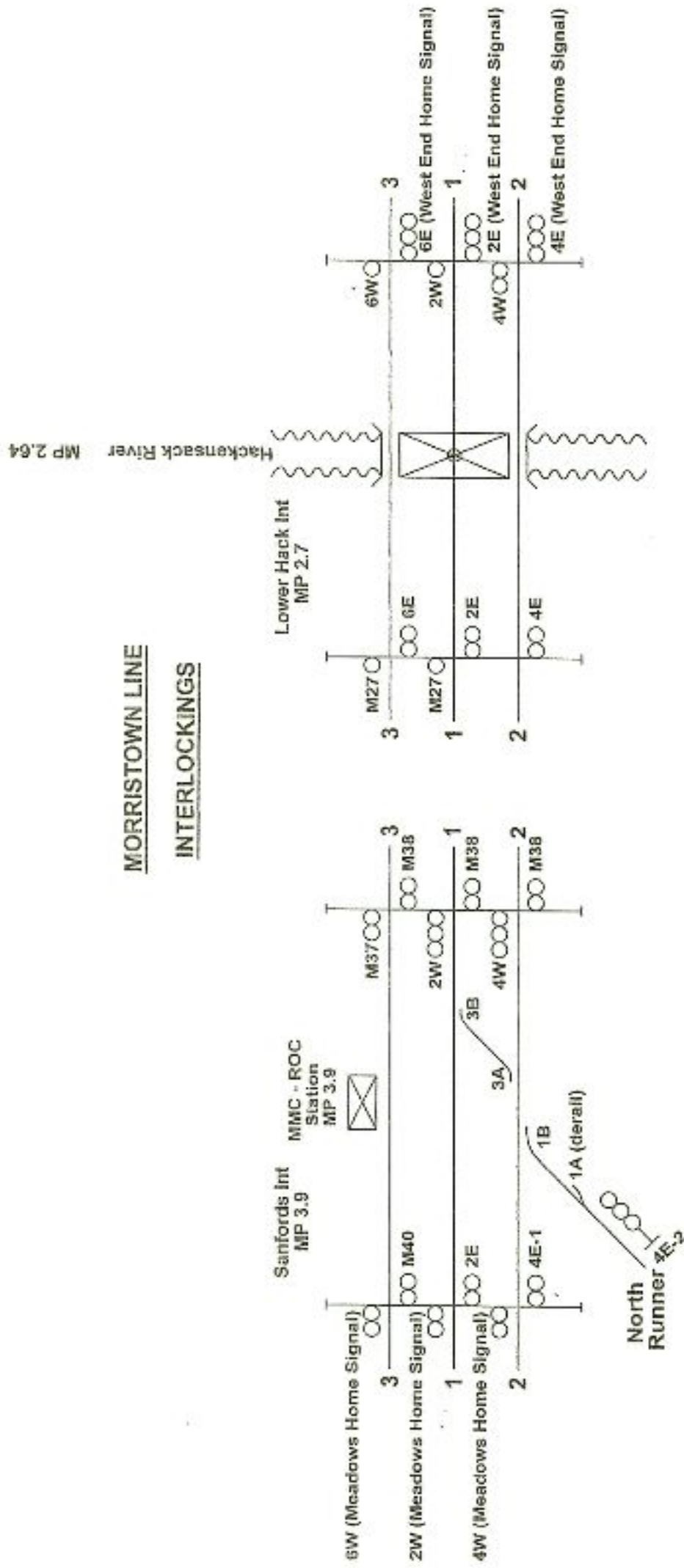
Study the locations of the signals at these two Controlpoints. (See attached Map.)

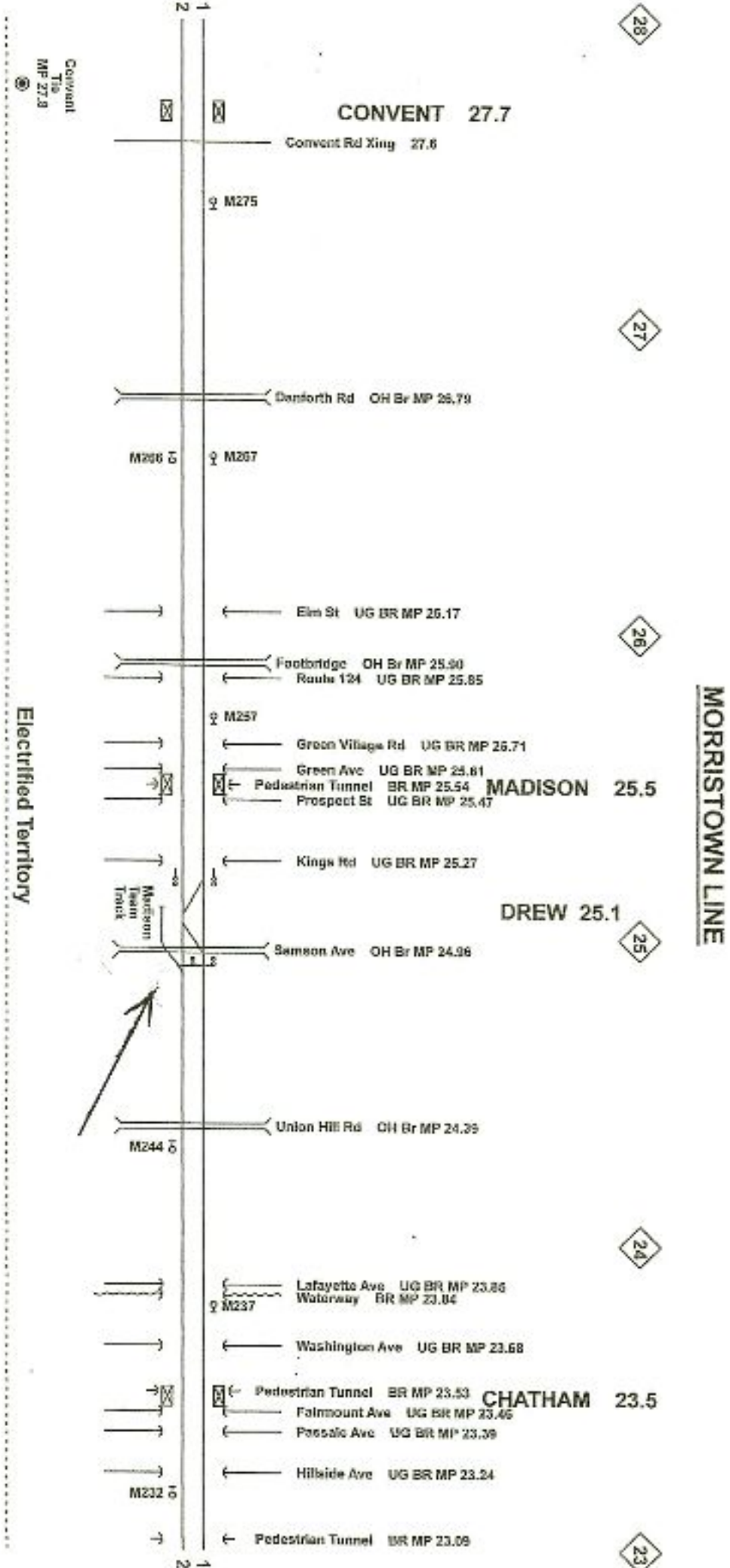
9) Station Track

Study SI ME 98-4 pertaining to the station track between Cook and Bill.

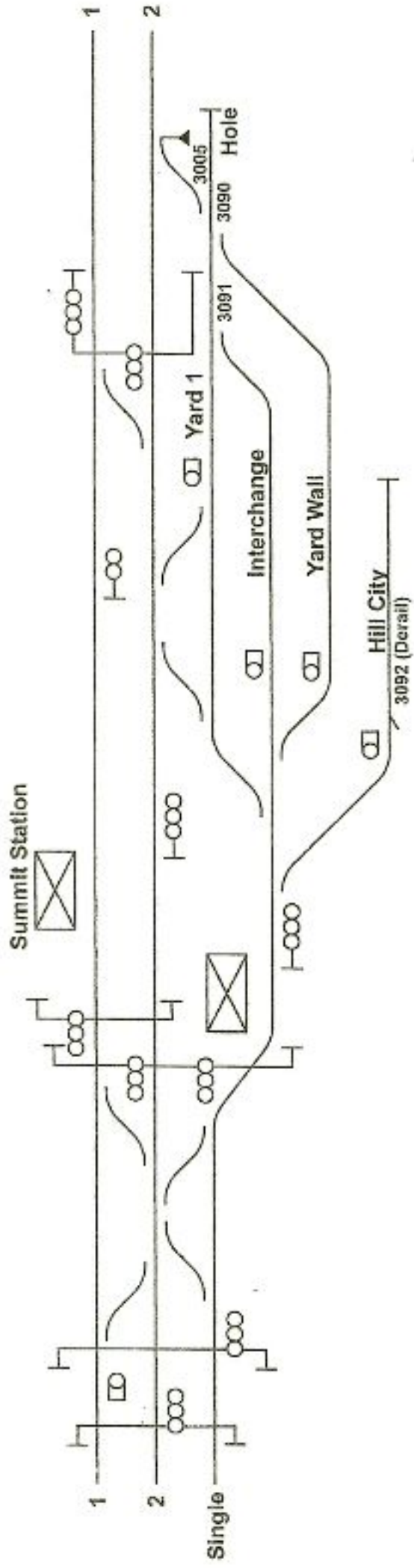
MORRISTOWN LINE

INTERLOCKINGS

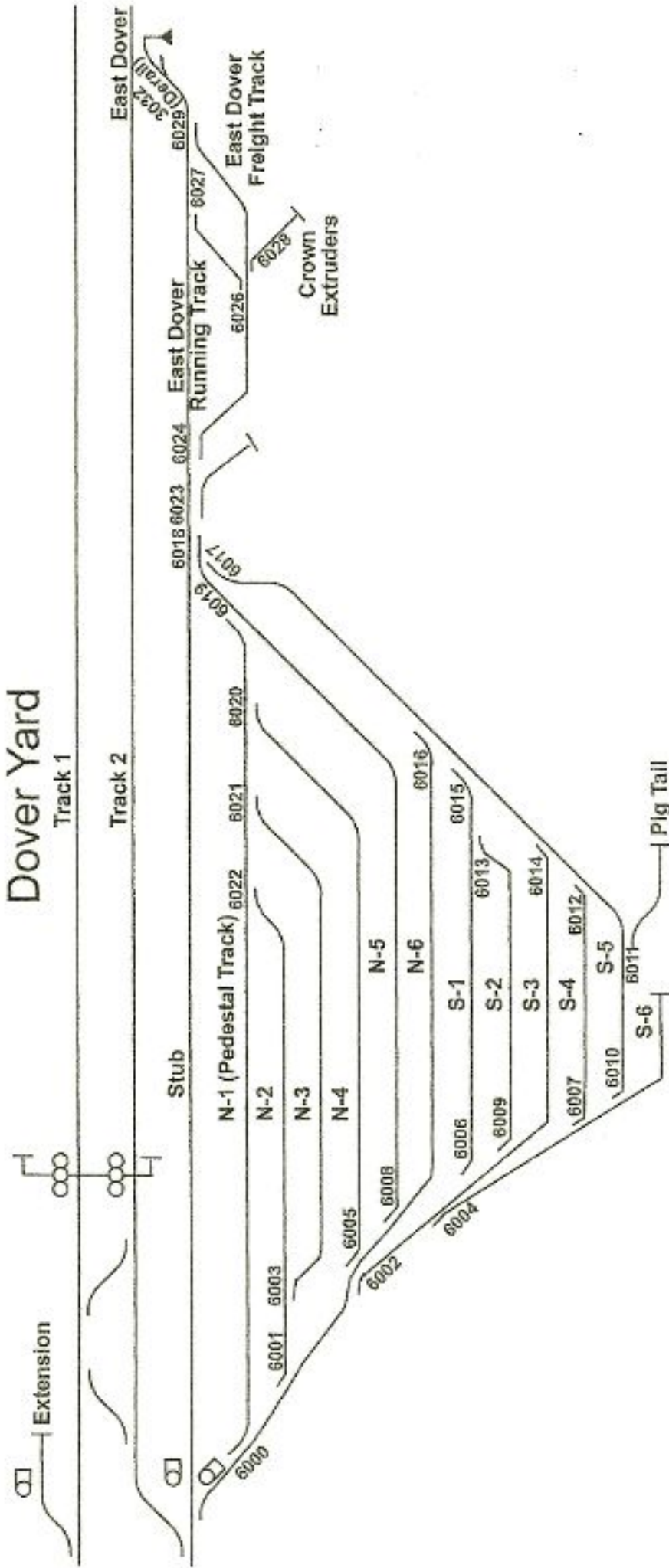




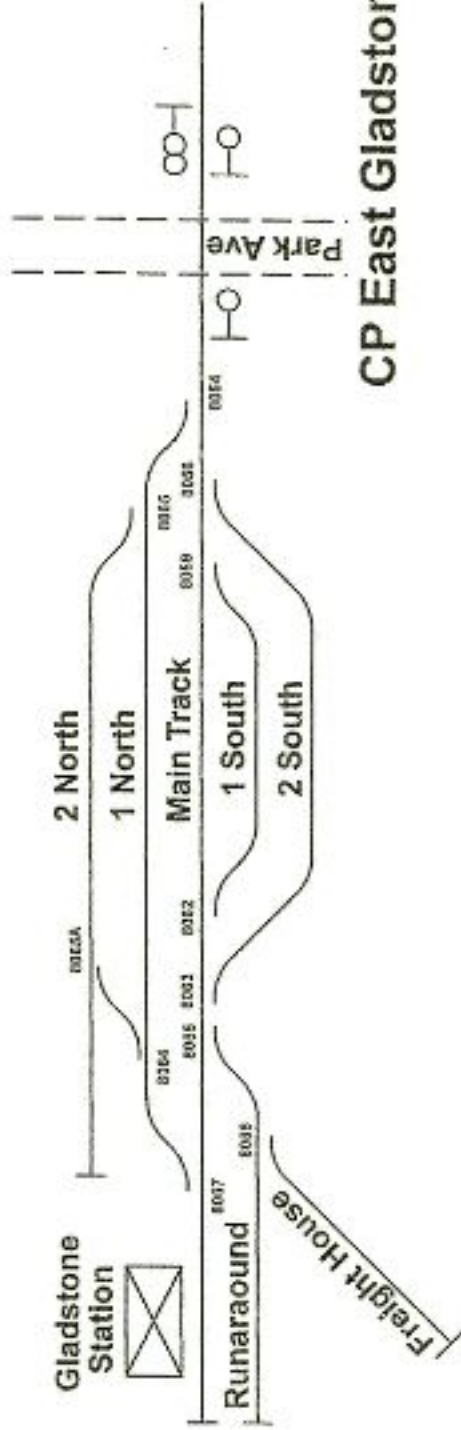
Summit Yard



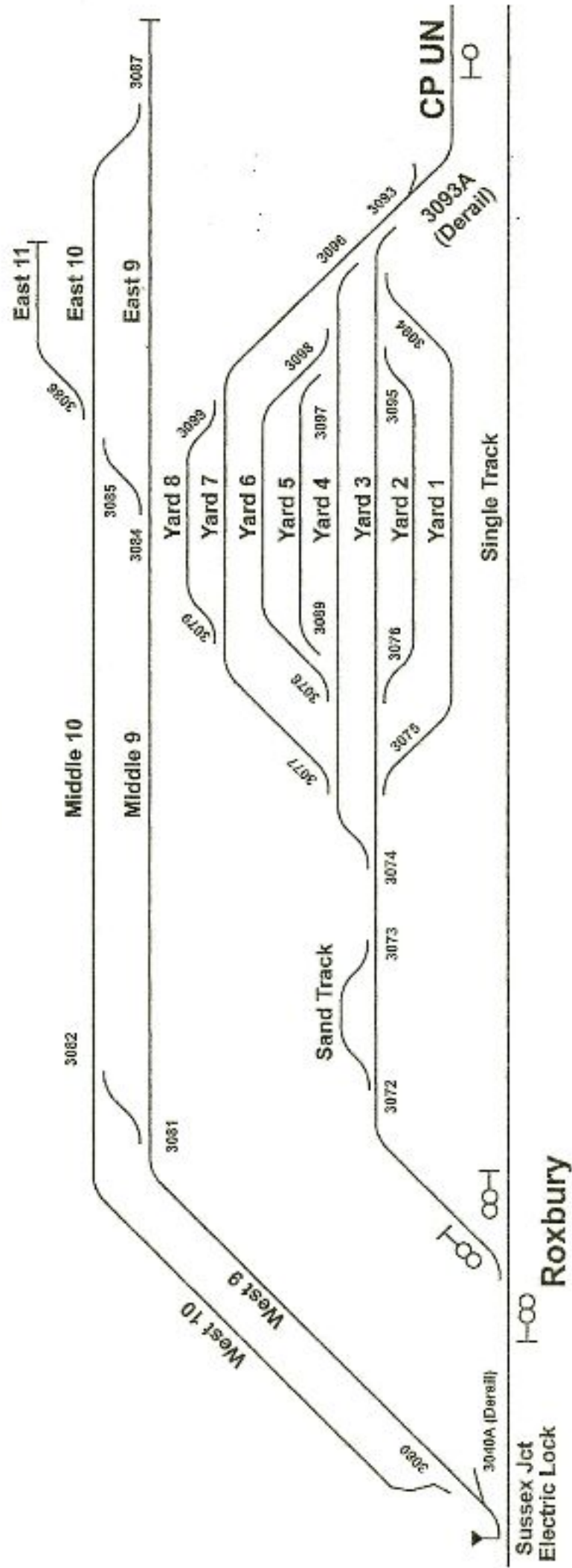
Dover Yard



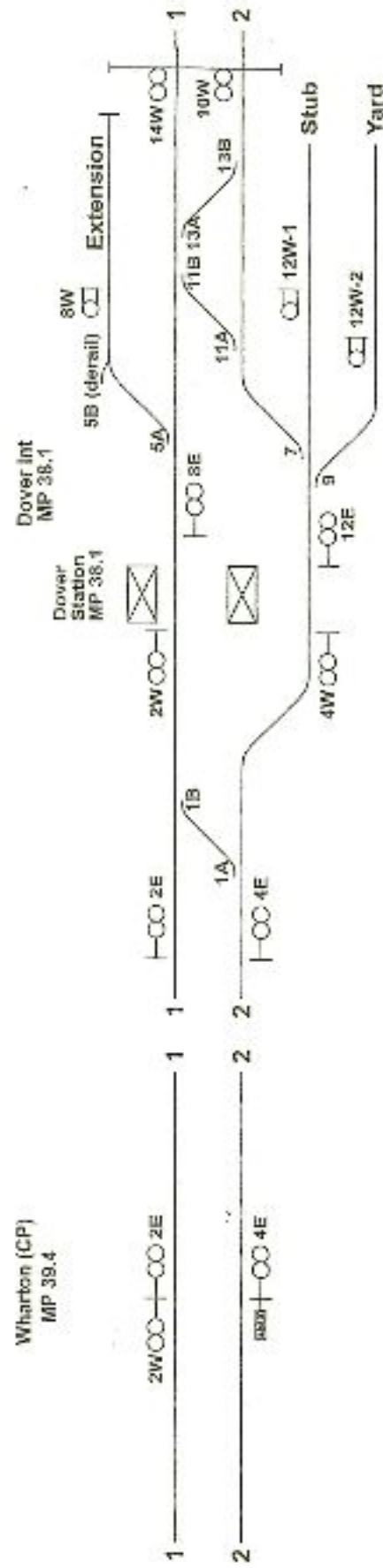
Gladstone Yard



Port Morris Yard



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