



MORRISON KNUDSEN CORPORATION

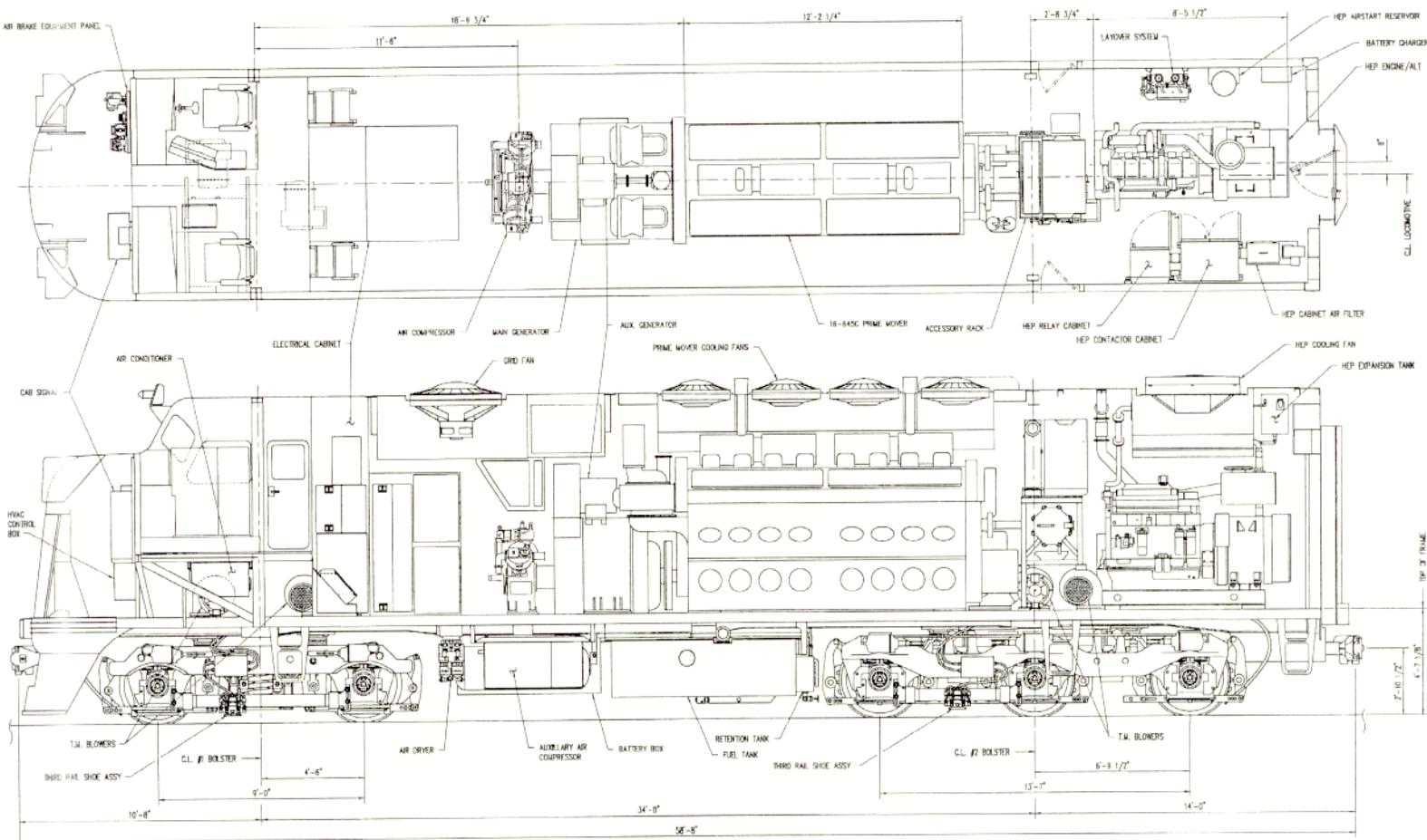


## Connecticut Dept. of Transportation

### FL9M Locomotive

Model Designation.....	FL9M
Locomotive Type.....	B-A1A
Locomotive Horsepower.....	1750
Propulsion Diesel Engine	
Model.....	645C
Type.....	Roots Blown
Number of Cylinders.....	16
Cylinder Arrangement.....	45° "V"
Cylinder Bore and Stroke.....	9-1/16" x 10"
Operating Principle.....	2 Stroke Cycle, Unit Injection, Water Cooled
Full Speed.....	839 RPM
Idle Speed.....	279 RPM
Main Generator Model.....	D32A/D14
Traction Generator.....	D32
Nominal Voltage (DC).....	600
Companion Alternator.....	D14
Nominal Voltage (AC).....	200
HEP (Head End Power) Diesel Engine	
Model.....	Cummins-KTA-19-G2
Type.....	Turbocharged

Number of Cylinders.....	6
Cylinder Arrangement.....	In-Line
Cylinder Bore and Stroke.....	6-1/4" x 6-1/4"
Operating Principle.....	4 Stroke Cycle, Turbocharged, Aftercooled
Full Speed.....	1800 RPM
HEP (Head End Power) Generator	
Model.....	Marathon Magna One
Available Power Output.....	425 kW
Nominal Voltage (AC).....	480
Frequency (At 1800 RPM).....	60 Hz
Auxiliary Generator Voltage (DC).....	74 Volts
Rating.....	18 kW
Traction Motors	
Model.....	D77B
Number.....	4
Type.....	DC, Series Wound Axle Hung
Current Rating	
Maximum Continuous.....	1050 Amperes
Driving Wheels	
Number.....	4 Pair



**Diameter.....40"**  
**Speed Limitations With Gear Ratio**

**Gear Ratio.....58:19**  
**Max. MPH.....90 MPH**

#### Curve Negotiation Capability

Truck swing limits single curve negotiation to a 21° or 274 ft. radius curve.

#### Major Dimensions

**Height.....14'-8"**  
**Width Over Hand Rails.....10'-6"**  
**Distance Over Coupler**  
**Pulling Faces.....58'-8"**  
**Loaded Weight on**  
**Rails (Nominal).....270,000 lbs.**  
**Weight on Drivers.....215,000 lbs.**

#### Supplies

**Lube Oil Capacity**  
**Basic Oil Pan.....200 gal.**  
**Volume Between Low and Full on**  
**Dipstick Basic (Oil Pan).....47 gal.**

**Cooling System Capacity.....230 gal.**  
**Sand Capacity**

**Hood End Sand Boxes.....8 cu. ft.**  
**Cab End Sand Boxes.....8 cu. ft.**  
**Fuel Capacity.....1200 gal.**

**Air Brakes.....Type 26L**  
**Air Compressor**

**Type.....2 Stage**  
**Number of Cylinders.....3**  
**Capacity (At 839 RPM).....235 cu. ft./min.**  
**Air Compressor Cooling.....Engine Coolant**  
**Lube Oil Capacity.....10-1/2 gal.**

**Storage Battery**  
**Number of Cells.....32**  
**Voltage.....64**  
**Rating (8 Hour).....450 Amp. hr.**



**MORRISON KNUDSEN CORPORATION**  
**RAIL SYSTEMS GROUP**

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