

# SPECIFICATION PROPOSAL

## Vehicle Configuration

FREIGHTLINER M2 106 CONVENTIONAL CHASSIS  
2010 MODEL YEAR SPECIFIED  
SET BACK AXLE - TRUCK

## General Service

FIRE SERVICE  
EMERGENCY VEHICLES BUSINESS SEGMENT  
MEDIUM TRUCK WARRANTY  
EXPECTED FRONT AXLE(S) LOAD : 14600 lbs  
EXPECTED REAR DRIVE AXLE(S) LOAD : 40000 lbs  
EXPECTED GROSS VEHICLE WEIGHT CAPACITY :  
54600 lbs

## Engine

CUM ISC-330 330 HP @ 2000 RPM, 2200 GOV, 1000  
LB/FT @ 1400 RPM

## Engine Equipment

2007 EPA/CARB EMISSION CERTIFICATION  
NFPA COMPLIANT EMBER SCREEN AND FIRE  
RETARDANT DONALDSON AIR CLEANER  
LN 12V 270 AMP 4949PA PAD MOUNT ALTERNATOR  
WITH AC TAPS  
(3) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT  
MAINTENANCE FREE 2280 CCA THREADED STUD  
BATTERIES W/ JUMPSTART POST  
BATTERY BOX FRAME MOUNTED  
CUMMINS 18.7 CFM COMPRESSOR WITH INTERNAL  
SAFETY VALVE  
STEEL AIR COMPRESSOR DISCHARGE LINE WITH  
INTEGRAL QUICK CONNECT SYSTEM CHARGING  
VALVE  
FIRE AND EMERGENCY SERVICE VEHICLES  
ENGINE WARNING  
CUMMINS EXHAUST BRAKE INTEGRAL WITH  
VARIABLE GEOMETRY TURBO  
RH HORIZONTAL AFTERTREATMENT DEVICE  
HORTON DRIVEMASTER ON/OFF FAN DRIVE  
AUTOMATIC FAN CONTROL WITHOUT DASH  
SWITCH, NON ENGINE MOUNTED  
1100 SQUARE INCH ALUMINUM RADIATOR  
ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-  
CHARGED SCA HEAVY DUTY COOLANT  
GATES BLUE STRIPE COOLANT HOSES OR  
EQUIVALENT

ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 38MT HD STARTER WITH INTEGRATED  
MAGNETIC SWITCH

### Transmission

ALLISON 3000 EVS 5 SPD AUTOMATIC  
TRANSMISSION WITH PTO PROVISION

### Transmission Equipment

MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION  
DRAIN, AXLE(S) FILL AND DRAIN  
PUSH BUTTON ELECTRONIC SHIFT CONTROL,  
DASH MOUNTED  
WATER TO OIL TRANSMISSION COOLER  
TRANSMISSION OIL CHECK AND FILL WITH  
ELECTRONIC OIL LEVEL CHECK  
SYNTHETIC TRANSMISSION FLUID (TES-295  
COMPLIANT)

### Front Axle and Equipment

AF-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE  
FRONT AXLE  
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT  
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
FIRE AND EMERGENCY SEVERE SERVICE, NON-  
ASBESTOS FRONT LINING  
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS  
TRW TAS-85 POWER STEERING  
2 QUART SEE THROUGH POWER STEERING  
RESERVOIR

### Front Suspension

14,600# TAPERLEAF FRONT SUSPENSION  
MAINTENANCE FREE RUBBER BUSHINGS - FRONT  
SUSPENSION  
FRONT SHOCK ABSORBERS

### Rear Axle and Equipment

RT-40-145 40,000# R-SERIES TANDEM REAR AXLE  
IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY  
DUTY AXLE HOUSING  
17T MERITOR MAIN DRIVELINE WITH HALF ROUND  
YOKES  
17T MERITOR INTERAXLE DRIVELINE WITH HALF  
ROUND YOKES  
(1) INTERAXLE LOCK CONTROL VALVE FOR  
TANDEM OR TRIDEM DRIVE AXLES  
BLINKING LAMP WITH EACH MODE SWITCH,  
INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF

MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR  
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
FIRE AND EMERGENCY SEVERE SERVICE NON-  
ASBESTOS REAR BRAKE LINING  
CHICAGO RAWHIDE SCOTSEAL PLUS XL REAR OIL  
SEALS  
GUNITE AUTOMATIC REAR SLACK ADJUSTERS

### Rear Suspension

TUFTRAC 40,000# REAR SPRING SUSPENSION  
AXLE CLAMPING GROUP  
54 INCH AXLE SPACING  
FORE/AFT AND TRANSVERSE CONTROL RODS  
REAR SHOCK ABSORBERS - ONE AXLE

### Brake System

AIR BRAKE PACKAGE  
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL  
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER  
CUSTOM STEEL AIR BRAKE RESERVOIRS  
STANDARD AIR SYSTEM PRESSURE PROTECTION  
BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER -  
WET TANK

### Electrical Connections

UPGRADED CHASSIS MULTIPLEXING UNIT  
UPGRADED BULKHEAD MULTIPLEXING UNIT

### Frame Specifications

11/32X3-1/2X10-15/16 INCH STEEL FRAME 120KSI  
1/4" C-CHANNEL INNER FRAME REINFORCEMENT  
CUSTOM MIDSHIP #1 CROSSMEMBER(S)  
STANDARD REARMOST CROSSMEMBER  
HEAVY DUTY SUSPENSION CROSSMEMBER

### Chassis Equipment

THREE-PIECE 14 INCH CHROME STEEL BUMPER  
WITH COLLAPSIBLE ENDS AND LH WING CUTOUT  
FOR SPEAKER  
FRONT TOW HOOKS - FRAME MOUNTED  
GRADE 8 THREADED HEX HEADED FRAME  
FASTENERS

### Fuel Tanks

50 GALLON ALUMINUM FUEL TANK  
PLAIN ALUMINUM/PAINTED STEEL FUEL TANK  
WITH PAINTED BANDS  
ALLIANCE FUEL FILTER/WATER SEPARATOR

## Tires

12R22.5 16 PLY RADIAL FRONT TIRES  
11R22.5 14 PLY RADIAL M&S REAR TIRES

## Hubs

CONMET PRE-SET BEARING IRON FRONT HUBS  
CONMET PRE-SET BEARING IRON REAR HUBS

## Wheels

22.5X8.25 10-HUB PILOT ALUMINUM DISC FRONT WHEELS  
22.5X8.25 10-HUB PILOT ALUMINUM REAR WHEELS  
POLISHED FRONT WHEELS; OUTSIDE ONLY  
POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY - STEEL INNER

## Cab Exterior

106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
AIR CAB MOUNTS  
NFPA COMPLIANT EXTERIOR GRAB HANDLES  
HOOD MOUNTED CHROMED PLASTIC GRILLE  
CHROMED HOOD MOUNTED AIR INTAKE GRILLE  
DUAL GROVER 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS  
DUAL ELECTRIC HORNS  
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME  
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL  
LED AERODYNAMIC MARKER LIGHTS  
DAYTIME RUNNING LIGHTS  
DUAL 102" WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE  
LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS  
63X14 INCH TINTED REAR WINDOW  
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS  
TINTED WINDSHIELD  
8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR

## Cab Interior

OPAL GRAY VINYL INTERIOR  
MOLDED PLASTIC DOOR PANELS WITH ALUMINUM KICKPLATE LOWER DOORS

GRAY VINYL MATS WITH INSULATION  
FORWARD ROOF MOUNTED CONSOLE WITH  
UPPER STORAGE COMPARTMENTS WITHOUT  
NETTING  
IN DASH STORAGE BIN  
(2) CUP HOLDERS LH AND RH DASH  
HEATER, DEFROSTER AND AIR CONDITIONER  
MAIN HVAC CONTROLS WITH RECIRCULATION  
SWITCH  
CAB INSULATION  
SOLID-STATE CIRCUIT PROTECTION AND FUSES  
12V NEGATIVE GROUND ELECTRICAL SYSTEM  
DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY  
LH AND RH DOORS  
(1) 12 VOLT POWER SUPPLY IN DASH  
HIGH BACK AIR SUSPENSION DRIVER SEAT NFPA  
COMPLIANT  
HIGH BACK NON SUSPENSION PASSENGER SEAT  
WITH UNDERSEAT STORAGE NFPA COMPLIANT  
LH AND RH INTEGRAL DOOR PANEL ARMRESTS  
NFPA COMPLIANT HIGH VISIBILITY SEAT BELTS  
ADJUSTABLE TILT AND TELESCOPING STEERING  
COLUMN  
4-SPOKE 18 INCH STEERING WHEEL  
DRIVER AND PASSENGER INTERIOR SUN VISORS

## Instruments & Controls

BLACK GAUGE BEZELS  
LOW AIR PRESSURE LIGHT AND BUZZER  
2 INCH PRIMARY AND SECONDARY AIR PRESSURE  
GAUGES  
ENGINE COMPARTMENT MOUNTED AIR  
RESTRICTION INDICATOR WITH GRADUATIONS,  
WITH WARNING LIGHT IN DASH  
97 DB BACKUP ALARM  
IGNITION SWITCH WITH NON REMOVABLE KEY  
ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE  
DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS,  
DATA LINKED, ICU3  
2 INCH ELECTRIC FUEL GAUGE  
ELECTRICAL ENGINE COOLANT TEMPERATURE  
GAUGE  
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE  
ENGINE AND TRIP HOUR METERS INTEGRAL  
WITHIN DRIVER DISPLAY  
ELECTRIC ENGINE OIL PRESSURE GAUGE

AM/FM/WB DASH MTD RADIO W/ (2) SPEAKERS  
 ELECTRONIC MPH SPEEDOMETER WITH  
 SECONDARY KPH SCALE  
 ELECTRONIC 3000 RPM TACHOMETER  
 DIGITAL VOLTAGE DISPLAY INTEGRAL WITH  
 DRIVER DISPLAY  
 SINGLE ELECTRIC WINDSHIELD WIPER MOTOR  
 WITH DELAY  
 MARKER LIGHT SWITCH INTEGRAL WITH  
 HEADLIGHT SWITCH  
 ONE VALVE PARK BRAKE SYSTEM WITH DASH  
 VALVE  
 SELF CANCELING TURN SIGNAL SWITCH WITH  
 DIMMER, WASHER/WIPER AND HAZARD IN HANDLE  
 INTEGRAL ELECTRONIC TURN SIGNAL FLASHER  
 WITH HAZARD LAMPS OVERRIDING STOP LAMPS

**Design**

PAINT: ONE SOLID COLOR

**Color**

CAB COLOR A: RED ELITE  
 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS  
 PAINT

**T O T A L V E H I C L E S U M M A R Y**

**Weight Summary**

	<b>Weight Front</b>	<b>Weight Rear</b>	<b>Total Weight</b>
Factory Weight <sup>+</sup>	7123 LBS	7386 LBS	14509 LBS

(+) Weights shown are estimates only.

