

# SPECIFICATION PROPOSAL

## Vehicle Configuration

FREIGHTLINER M2 106 CONVENTIONAL CHASSIS  
2011 MODEL YEAR SPECIFIED  
SET BACK AXLE - TRUCK

## General Service

FIRE SERVICE  
EMERGENCY VEHICLES BUSINESS SEGMENT  
MEDIUM TRUCK WARRANTY  
EXPECTED FRONT AXLE LOAD: 12000 lbs  
EXPECTED REAR DRIVE AXLE LOAD: 21000 lbs  
EXPECTED GROSS VEHICLE WEIGHT CAPACITY :  
33000 lbs

## Engine

CUM ISB 6.7-260 260 HP @ 2300 RPM, 2600 GOV, 660  
LB/FT @ 1600 RPM

## Engine Equipment

2010 EPA/CARB EMISSION CERTIFICATION  
NFPA COMPLIANT EMBER SCREEN AND FIRE  
RETARDANT DONALDSON AIR CLEANER  
DR 12V 275 AMP 40-SI QUADRAMOUNT PAD  
ALTERNATOR WITH REMOTE BATTERY VOLTAGE  
SENSE  
(3) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT  
MAINTENANCE FREE 2280 CCA THREADED STUD  
BATTERIES WITH POSITIVE JUMPSTART POST  
BATTERY BOX FRAME MOUNTED  
WIRE GROUND RETURN FOR BATTERY CABLES WITH  
ADDITIONAL FRAME GROUND RETURN  
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED  
CONTROL SWITCH MOUNTED OUTBOARD DRIVER  
SEAT  
CUMMINS 18.7 CFM AIR COMPRESSOR WITH  
INTERNAL SAFETY VALVE  
CUMMINS EXHAUST BRAKE INTEGRAL WITH  
VARIABLE GEOMETRY TURBO  
RH MTD HORIZONTAL AFTERTREATMENT SYSTEM  
HORTON HT650 FRONTAL AIR ON/OFF ENGINE FAN  
CLUTCH  
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH,  
NON ENGINE MOUNTED  
CUMMINS SPIN ON FUEL FILTER  
FULL FLOW OIL FILTER  
950 SQUARE INCH ALUMINUM RADIATOR

ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT  
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT  
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES  
ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 29MT STARTER WITH INTEGRATED MAGNETIC SWITCH

### Transmission

ALLISON 2500 EVS 5 SPD AUTOMATIC TRANSMISSION WITH PTO PROVISION

### Transmission Equipment

MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN  
DASH MOUNTED T-HANDLE CABLE SHIFT CONTROL WITH PARK BRAKE POSITION  
WATER TO OIL TRANSMISSION COOLER  
TRANSMISSION OIL CHECK AND FILL  
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

### Front Axle and Equipment

AF-12.0-3 12,000# 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  
FRONT BRAKE DUST SHIELDS  
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS  
TRW THP-60 POWER STEERING

### Front Suspension

12,000# TAPERLEAF FRONT SUSPENSION  
MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION  
FRONT SHOCK ABSORBERS

### Rear Axle and Equipment

RS-21-145 21,000# R-SERIES QUIET RIDE SINGLE REAR AXLE  
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING  
17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES

MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR  
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
FIRE AND EMERGENCY SEVERE SERVICE NON-  
ASBESTOS REAR BRAKE LINING  
REAR BRAKE DUST SHIELDS  
MERITOR AUTOMATIC REAR SLACK ADJUSTERS

### Rear Suspension

23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING  
REAR SUSPENSION WITH LEAF SPRING HELPER  
SPRING SUSPENSION - 1.50" AXLE SPACER  
CUSTOM AXLE CLAMPING GROUP

### 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

### Wheelbase & Frame

(226 INCH) WHEELBASE  
11/32X3-1/2X10-3/16 INCH STEEL FRAME 120KSI  
(63 INCH) REAR FRAME OVERHANG

### 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 RECTANGULAR ALUMINUM FUEL TANK  
ALLIANCE FUEL FILTER/WATER SEPARATOR WITH  
PRIMER PUMP  
6 GALLON DIESEL EXHAUST FLUID TANK  
EQUIFLO INBOARD FUEL SYSTEM

### Tires

CONTINENTAL HSL2 11R22.5 14 PLY RADIAL FRONT  
TIRES

CONTINENTAL HDC 11R22.5 16 PLY RADIAL REAR  
TIRES

### Hubs

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

### Wheels

22.5X8.25 10-HUB PILOT POLISHED ALUMINUM DISC  
FRONT WHEELS  
22.5X8.25 10-HUB PILOT POLISHED ALUMINUM DISC  
REAR OUTER WHEELS

### Cab Exterior

154 INCH BBC HIGH-ROOF ALUMINUM  
CONVENTIONAL CREW CAB  
AIR CAB MOUNTS  
NFPA COMPLIANT EXTERIOR GRAB HANDLES  
HOOD MOUNTED CHROMED PLASTIC GRILLE  
CHROMED HOOD MOUNTED AIR INTAKE GRILLE  
DUAL 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  
2 GALLON WINDSHIELD WASHER RESERVOIR  
WITHOUT FLUID LEVEL INDICATOR, FRAME  
MOUNTED

### Cab Interior

OPAL GRAY VINYL INTERIOR  
MOLDED PLASTIC DOOR PANELS WITH ALUMINUM  
KICKPLATE LOWER DOORS  
BLACK MATS WITH SINGLE 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  
DOOR ACTIVATED DOME/RED MAP LIGHTS,  
FORWARD LH AND RH AND REAR LH, RH AND CENTER  
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS  
(1) 12 VOLT POWER SUPPLY IN DASH  
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR  
SUSPENSION DRIVER SEAT NFPA COMPLIANT  
SEATS INC 911 UNIVERSAL SERIES SCBA NON  
SUSPENSION PASSENGER SEAT WITH UNDERSEAT  
STORAGE NFPA COMPLIANT  
SEATS INC 911 UNIVERSAL SERIES SCBA NON  
SUSPENSION LH, RH AND CENTER REAR  
PASSENGER SEATS WITH UNDERSEAT STORAGE  
NFPA COMPLIANT  
LH AND RH INTEGRAL DOOR PANEL ARMRESTS  
GRAY VINYL DRIVER SEAT COVER WITH GRAY  
CORDURA CLOTH BOLSTER AND HEADREST  
GRAY VINYL FRONT PASSENGER SEAT COVER WITH  
GRAY CORDURA CLOTH BOLSTER AND HEADREST  
GRAY VINYL REAR PASSENGER SEAT COVER WITH  
GRAY CORDURA CLOTH BOLSTER AND HEADREST  
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  
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN  
LH SWITCH PANEL  
IGNITION SWITCH WITH NON REMOVABLE KEY

ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE  
 DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS,  
 DATA LINKED, ICU3  
 FIRE AND EMERGENCY SERVICE VEHICLES ENGINE  
 WARNING  
 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  
 OVERHEAD INSTRUMENT PANEL  
 AM/FM/WB RADIO WITH FRONT AUXILIARY INPUT  
 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 SHIFTER  
 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

## TOTAL VEHICLE SUMMARY

### Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	6832 LBS	4120 LBS	10952 LBS

(+) Weights shown are estimates only.

MWF FRX



05/26/2010