



FREIGHTLINER OF AUSTIN

1701 Smith Rd. (Hwy. 183 So.)
Austin, Texas 78721

Bus: 512-389-0000
FAX: 512-389-2663
Wats: 1-800-395-2005

Invoice Number

Date: 2-12-2016

PURCHASING NAME

Williamson County

ADDRESS

3151 SE Inner Loop

CITY

Georgetown

TELEPHONE

512-943-3368

STATE

TX

ZIP CODE

78626

YEAR	MAKE	MODEL/BODY	VIN	LICENSE PLATE
2017	Freightliner	114SD	Order	
MILEAGE:				
Buy Board Contract 430-13				
2017 Freightliner 114SD chassis				117,408.00
to accommodate volumetric mixer				
Zimmerman Ind ZM-408-HP				100,338.00
per specs supplied 2-11-16				
Extended engine warranty 7/250K				6,821.00
Belgrade Portable Silo per				34,394.00
quote and specs dated 2-9-16				
Customer responsible for some				
assembly and hook up of silo per quote				
Disclaimer of Warranties				
Any warranties on the products sold hereby are those made by				
the factory. The Seller, Freightliner of Austin, hereby				
expressly disclaims all warranties, either expressed or implied				
including any implied warranty of merchantability or fitness				
for a particular purpose, and Freightliner of Austin, neither				
assumes nor authorizes any other person to assume for it any				
liability in connection with the sale of this vehicle.				
CUSTOMER SIGNATURE				
SALESMAN SIGNATURE Tom Standard (512) 468-7270				

CONTRACTUAL DISCLOSURE STATEMENT FOR USED VEHICLE ONLY. "The information you see on the window form for this vehicle is part of this contract. Information on the window form overrides any contrary provisions in the contract of sale."

MILEAGE: TRADE-IN

YEAR MAKE MODEL/BODY VIN LICENSE PLATE

MILEAGE: TRADE-IN

YEAR MAKE MODEL/BODY VIN LICENSE PLATE

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YEAR MAKE MODEL/BODY VIN LICENSE PLATE

+standard@fhl.com

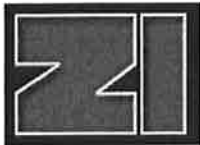
+400
259,361

PURCHASER: Freightliner of Austin
ADDRESS: 1701 Smith Rd
 Austin, TX 78721
RE: Williamson County Road and Bridge Division
ATTENTION: Tom Standard
TEL. NO: (512) 389-0000 **FAX NO:** (512) 389-2663
CELL NO: (512) 468-7270

PURCHASE ORDER

NUMBER: 021116-B Page 1 of 2

196 Wabash Road
 Ephrata, PA 17522-9622
 USA Toll Free: 888-577-6429
Phone: 717-733-6166
Fax: 717-733-1169
E-mail: info@zimmermanindustries.com
Website: www.zimmermanindustries.com



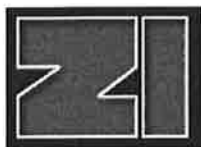
Concrete Mixing Equipment

Zimmerman Industries, Inc.

DATE 02-11-16		SHIP VIA		F.O.B. Austin, TX U.S.A.		DATE REQUIRED		TERMS CASH ON RECEIPT	
QUANTITY ORDERED	MODEL NO.	DESCRIPTION				UNIT PRICE	TOTAL IN U.S. FUNDS		
1	ZM-408-HP	Zim-Mixer® with 8 cu. yard capacity, producing 60 cu. yards per hour in accordance with ASTM C685 & meeting VMMB standards							
<u>Includes:</u> 317 cu. ft. divided aggregate bin, (2) sand bin vibrators & patented dual chain material feed system (3 year or 12,000 cu. yard warranty on material feed chains), 96 cu. ft. cement bin with power agitator, (3) vibrators & patented chain feed system (self-cleaning), 400 gallon polyethylene water tank with 2" ground level water fill mounted on passenger side with check valve and bottom fill, water pump, digital water flow meter, water solenoid valve, VR meter, 9 ft. x 12 in. diameter mix auger with Nyhard blades, power auger lift & swing, swivel chutes, 4-section hydraulic pump, PTO (automatic transmission for roll and pour) & governor control, high & low flow admix systems, flowable fill package with variable speed cement, tachometer & (2) stone bin vibrators, electric recoil tarp, spot lights (set of 3), amber strobe light on recoil tarp, 2-switch in-cab remote, tool box mounted on passenger side deck, (2) manuals, (2) sets CD's (operation, calibration, maintenance), material feed flow control & tachometer, dust reduction system, unit painting (gray #920962), unit mounting on Freightliner of Austin supplied chassis, testing & (3) days operator training at customer location									
						Unit Cost	\$104,816.00		
						Mfg. Discount	(8,178.00)		
						Delivery to Austin, TX	<u>3,700.00</u>		
						Grand Total	\$100,338.00		
Actual yardage carried will be determined by your analysis of local, state and federal regulations and federal bridge law, as well as weight rating of the chassis. Purchaser acknowledges that the selection of the truck chassis must be made with reference to the purchaser's local, state and federal regulations.									
Attention: Warranty does not apply if aggregate used is larger than 1 1/4".									

Rep.: Tom Maffucci By: _____ Date: _____
 Purchaser-Authorized Signature

PURCHASER: Freightliner of Austin
ADDRESS: 1701 Smith Rd
Austin, TX 78721
RE: Williamson County Road and Bridge Division
ATTENTION: Tom Standard
TEL. NO: (512) 389-0000 **FAX NO:** (512) 389-2663
CELL NO: (512) 468-7270



Concrete Mixing Equipment

Zimmerman Industries, Inc.

PURCHASE ORDER

NUMBER: 021116-B Page 2 of 2

196 Wabash Road
Ephrata, PA 17522-9622
USA Toll Free: 888-577-6429
Phone: 717-733-6166
Fax: 717-733-1169
E-mail: info@zimmermanindustries.com
Website: www.zimmermanindustries.com

DATE	SHIP VIA	F.O.B. AUSTIN, TX U.S.A.	DATE REQUIRED	TERMS
02-11-16				CASH ON RECEIPT

TERMS AND CONDITIONS:

- (1) It is understood that this order is subject to approval and acceptance by the Seller at its home office in Ephrata, PA, where the order becomes effective when so approved and accepted.
- (2) Prices do not include any federal, state, or local sales, property, use or excise taxes or duty applicable to the equipment or its manufacture, possession, use or sale. Any such taxes will be added to the price.
- (3) The Purchaser acknowledges that selection of truck chassis on which equipment is to be mounted must be made with reference to the laws of the state within which it will operate and that, in no event, shall Seller be liable for damages resulting from operation at gross weights in excess of those permitted by local, State, or Federal laws or regulations.
- (4) The Seller warrants that it will repair or replace at Ephrata, PA, U.S.A., without charge, any part which is returned to the seller, freight prepaid, within six (6) months of delivery to the purchaser and which is found by the Seller to be defective in workmanship or material. Except the express warranties made by the manufacturer in a separate warranty document, THERE ARE NO WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY MERCHANTABILITY OR FITNESS. SOME STATES DO NOT PERMIT LIMITATIONS OR EXCLUSIONS OF IMPLIED WARRANTIES OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THE WARRANTY MAY NOT APPLY.
- (5) *There are no oral understandings, representations or agreements relative to this order that are not fully expressed herein.*
- (6) Upon receipt by a carrier or the Purchaser, the equipment shall be held at the Purchaser's risk and expense in respect to loss or damage from any cause and taxes and charges of any kind. Nothing herein shall release the Purchaser from payment for all equipment shipped under an order.
- (7) All rights, duties, obligations and liabilities hereunder shall be governed by the laws of the Commonwealth of Pennsylvania.
- (8) Unit must be paid for in full within 15 days of completion date to avoid interest and storage charges of \$525.00 USD per week. After 60 days, customer may forfeit deposit and Zimmerman Industries, Inc. reserves the right to re-sell the unit at the customer's expense.
- (9) **NOTE:** Warranty does not apply if the aggregate used is larger than 1 1/4", or if alterations of machine are made by purchaser.

Rep.: Tom Maffucci By: _____ Date: _____
Purchaser-Authorized Signature

Prepared for:
Randy Rodgers
Williamson County
710 Main St
Georgetown, TX 78626
Phone: 512-943-3368

Prepared by:
Tom Standard
FREIGHTLINER OF AUSTIN
1701 SMITH ROAD
AUSTIN, TX 78721
Phone: 512-389-0000
E-Mail: tstandard@ftl1.com

Randy Rodgers,

2017 Freightliner 114SD for Zim Mixers. Quote includes 13spd manual transmission, 34.5 cfm air compressor and dual air dryers for application.
Final specs to be approved by Zimmerman.

Thanks ,

Tom Standard



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Q U O T A T I O N

114SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
DETROIT DD13 12.8L 410 HP @ 1625 RPM, 1900 GOV
RPM, 1650 LB/FT @ 975 RPM
EATON FULLER RTLO-16913A TRANSMISSION
RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
HENDRICKSON HN462 REAR SUSPENSION @ 46,000#
DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP
SINGLE FRONT AXLE
20,000# TAPERLEAF FRONT SUSPENSION

114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
CAB
5750MM (226 INCH) WHEELBASE
1/2X3.64X11-7/8 INCH STEEL FRAME
(12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
2550MM (100 INCH) REAR FRAME OVERHANG
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
REINFORCEMENT
HENDRICKSON SC13/SC013 13,200# FF1 STEERABLE
15X4 BRAKE INTEGRAL PUSHER AXLE

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	110,563	\$	110,563
EXTENDED WARRANTY		\$	4,615	\$	4,615
DEALER INSTALLED OPTIONS		\$	0	\$	0
CUSTOMER PRICE BEFORE TAX		\$	115,178	\$	115,178

TAXES AND FEES

TAXES AND FEES	\$	0	\$	0
OTHER CHARGES	\$	0	\$	0

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
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BALANCE DUE	(LOCAL CURRENCY)	\$	115,178	\$	115,178
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COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



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QUOTATION DETAILS

EXTENDED WARRANTY

TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP	\$	200	\$	200
EW4 DD13 VOC \$0 DEDUCTIBLE 5 YEAR/200000 MILES FULL COVERAGE	\$	3,775	\$	3,775
EATON HEAVY DUTY MANUAL 1750 FT/LBS OR LESS TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES FEX	\$	640	\$	640

Daimler Truck Financial

Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.



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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-14D	SD PRL-14D (EFF:10/05/15)		
Data Version			
DRL-008	SPECPRO21 DATA RELEASE VER 008		
Vehicle Configuration			
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,576
004-217	2017 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK	480	-480
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-002	LIQUID BULK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1AE	FREIGHTLINER LEVEL II WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
A67-99D	EXPECTED PUSHER AXLE(S) LOAD : 13200.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 79200.0 lbs		
Truck Service			
AA3-003	TANK BODY		



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Data Code	Description	Weight Front	Weight Rear
AF4-99D	EXPECTED EMPTY BODY WEIGHT : 0.0 lbs		
A88-99D	EXPECTED TRUCK BODY LENGTH : 24.0 ft		

Engine

101-2X7 DETROIT DD13 12.8L 410 HP @ 1625 RPM, 1900
GOV RPM, 1650 LB/FT @ 975 RPM

Electronic Parameters

79A-075 75 MPH ROAD SPEED LIMIT
79B-000 CRUISE CONTROL SPEED LIMIT SAME AS ROAD
SPEED LIMIT
79D-002 1650 RPM/18 MPH LIMIT FOR LOW GEARS, 1650
RPM/44 MPH LIMIT FOR MIDDLE GEARS, 1650
RPM/45 MPH LIMIT FOR HIGH GEARS
79K-015 PTO MODE ENGINE RPM LIMIT - 2100 RPM
79M-002 PTO MODE BRAKE OVERRIDE - SERVICE
BRAKE APPLIED OR PARK BRAKE NOT APPLIED
79P-001 PTO RPM WITH CRUISE SET SWITCH - 600 RPM
79Q-001 PTO RPM WITH CRUISE RESUME SWITCH - 600
RPM
79S-008 PTO MODE CANCEL VEHICLE SPEED - 25 MPH
79T-001 PTO MODE RPM INCREMENT - 25 RPM
79U-007 PTO GOVERNOR RAMP RATE - 250 RPM PER
SECOND
79W-001 ONE REMOTE PTO SPEED
79X-005 REMOTE PTO SPEED 1 SETTING - 900 RPM
80G-001 PTO MINIMUM RPM - 600

Engine Equipment

99C-017 2016 ONBOARD DIAGNOSTICS/2010
EPA/CARB/GHG17
99D-011 2008 CARB EMISSION CERTIFICATION - CLEAN
IDLE (INCLUDES 6X4 INCH LABEL ON LOWER
FORWARD CORNER OF DRIVER DOOR)
PMT-998 NO 2013 ENGINE ESCALATOR
13E-001 STANDARD OIL PAN
105-001 ENGINE MOUNTED OIL CHECK AND FILL
014-107 SIDE OF HOOD AIR INTAKE WITH FIREWALL
MOUNTED DONALDSON AIR CLEANER WITH
SAFETY ELEMENT AND PASSIVE PRECLEANER
124-1D7 DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
ALTERNATOR WITH REMOTE BATTERY VOLT
SENSE



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Data Code	Description	Weight Front	Weight Rear
292-071	(3) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 3375 CCA THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
180-1AM	EATON SOLO ADVANTAGE 15-1/2 INCH SELF ADJUSTING CLUTCH		
183-008	TORQUE LIMITING CLUTCH BRAKE		
181-001	ZERK FITTING AT CLUTCH RELEASE BEARING		
182-005	HYDRAULIC CLUTCH CONTROL		
107-042	BW LK-862 650CC 34.8 CFM DUAL CYLINDER AIR COMPRESSOR	25	
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-002	JACOBS COMPRESSION BRAKE		
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-026	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-002	DIESEL EXHAUST FLUID PUMP MOUNTED AFT OF DIESEL EXHAUST FLUID TANK		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)		



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Data Code	Description	Weight Front	Weight Rear
273-036	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
118-001	FULL FLOW OIL FILTER		
266-057	1500 SQUARE INCH ALUMINUM RADIATOR		
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
155-074	DELCO 12V MOD 3.175-39MT+ OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH		

Transmission

342-1BM	EATON FULLER RTLO-16913A TRANSMISSION	150	60
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Transmission Equipment

85E-998	MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 2600 RPM - ALLISON 5TH GEN TRANSMISSIONS
85F-998	TCU-MAX PTO ENGINE SPEED OPERATION NOT CONFIGURED
85G-998	TCU-MAX PTO O/P SPD ENG NOT CONFIGURE
85H-998	TCU-MAXIMUM PTO OUTPUT SPEED OPERATION NOT CONFIGURED
353-023	VEHICLE INTERFACE WIRING CONNECTOR WITH OUT BLUNT CUTS, AT END OF FRAME
347-002	ALUMINUM CLUTCH HOUSING
362-1T7	CUSTOMER INSTALLED CHELSEA 221 SERIES PTO
363-003	PTO MOUNTING, BOTTOM OF MAIN TRANSMISSION
341-017	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN
345-001	PAINTED SHIFT LEVER, SOLID LINKAGE



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Data Code	Description	Weight Front	Weight Rear
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-30	
35T-003	SYNTHETIC TRANSMISSION LUBE		
Front Axle and Equipment			
400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-021	SKF SCOTSEAL PLUS XL FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
406-001	STANDARD KING PIN BUSHINGS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		
534-003	4 QUART POWER STEERING RESERVOIR	5	
533-001	OIL/AIR POWER STEERING COOLER	5	
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
620-025	20,000# TAPERLEAF FRONT SUSPENSION	200	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-103	RT-46-160 46,000# R-SERIES TANDEM REAR AXLE		420
421-410	4.10 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-075	MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	60	60
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
878-019	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES		



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Data Code	Description	Weight Front	Weight Rear
87A-001	BLINKING LAMP WITH EACH MODE SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
423-019	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-021	SKF SCOTSEAL PLUS XL REAR OIL SEALS		
426-099	HALDEX GOLDSEAL LONGSTROKE HEAVY DUTY 30/36 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension			
622-269	HENDRICKSON HN462 REAR SUSPENSION @ 46,000#		440
621-035	HENDRICKSON HN 400/460 - 9.56 INCH RIDE HEIGHT		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
624-009	54 INCH AXLE SPACING		10
628-010	HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN		
623-006	FORE/AFT AND TRANSVERSE CONTROL RODS		100
439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)		
Pusher / Tag Equipment			
035-1A0	HENDRICKSON SC13 COMPOSILITE 13,200# AIR LIFT STEERABLE PUSHER SUSPENSION, 15X4 BRAKES AND FF1 AXLE		1,325
443-1C9	HENDRICKSON SC13/SCO13 13,200# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE		
874-015	(1) DASH VALVE AND (1) GAUGE FOR SINGLE LIFT AXLE		
87F-005	REVERSE LIFT AXLE WIRING WITH LAST STATE RETENTION WITH IGNITION OFF		
896-015	AIR PIPING FOR (1) LIFT/NON-LIFT AXLE WITH REGULATOR AND GAUGE CHASSIS MOUNTED		

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Data Code	Description	Weight Front	Weight Rear
456-1AE	HENDRICKSON 15X4 CAM PUSHER/TAG BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
457-002	NON-ASBESTOS PUSHER/TAG BRAKE LINING		
448-023	CONMET CAST IRON PUSHER/TAG BRAKE DRUMS		
442-021	SKF SCOTSEAL PLUS XL PUSHER/TAG OIL SEALS		
444-001	VENTED PUSHER/TAG HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
445-075	HALDEX LONGSTROKE PUSHER/TAG AXLE SERVICE CHAMBERS		
458-003	HALDEX AUTOMATIC PUSHER/TAG SLACK ADJUSTERS		
626-1E0	HENDRICKSON SC13 COMPOSILITE 13,200# STEERABLE AIR LIFT PUSHER SUSPENSION		
627-005	51 INCH AXLE SPACING PUSHER/TAG		
Brake System			
490-100	WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-014	(2) RELAY VALVES; ONE 5-8 PSI FOR TANDEM AXLE AND ONE 3-4.5 PSI CRACK FOR PUSHER/TAG		
480-031	MERITOR WABCO TWIN AIR DRYER WITH HEATER	10	
483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER		
479-015	AIR DRYER FRAME MOUNTED		
460-001	STEEL AIR BRAKE RESERVOIRS		
607-029	CLEAR FRAME RAIL FROM TRANSMISSION PTO OPENING TO 36 INCHES BACK OF CAB OUTBOARD/INSIDE/BELOW LH RAIL		
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
Trailer Connections			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		

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Data Code	Description	Weight Front	Weight Rear
Wheelbase & Frame			
545-575	5750MM (226 INCH) WHEELBASE		
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI	600	150
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	220	413
552-063	2550MM (100 INCH) REAR FRAME OVERHANG		
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-80	310
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 160.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 157.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 356.12		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 160.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 60.94 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 60.42 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1E5	14 INCH PAINTED STEEL BUMPER	20	
558-033	REMOVABLE FRONT TOW HOOKS STORED ON THE CHASSIS FRAME	25	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			
204-219	70 GALLON/264 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	15	5
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		



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Data Code	Description	Weight Front	Weight Rear
205-001	FUEL TANK CAP(S)		
122-1F1	DAVCO 482 FUEL/WATER SEPARATOR	10	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-1E2	MICHELIN XFE 425/65R22.5 20 PLY RADIAL FRONT TIRES	172	
094-0DJ	MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES		88
095-0F7	MICHELIN XZA2 ENERGY 295/80R22.5 16 PLY RADIAL PUSHER/TAG TIRES		28
Hubs			
418-056	CONMET PRESET PLUS IRON FRONT HUBS		
450-056	CONMET PRESET PLUS IRON REAR HUBS		
449-056	CONMET PRESET PLUS IRON PUSHER/TAG HUBS		
Wheels			
502-566	MAXION WHEELS 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS	102	
505-524	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS		
509-524	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC PUSHER/TAG WHEELS		
Cab Exterior			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTS		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-001	LH AND RH GRAB HANDLES		
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL		
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AM	DUAL 24 INCH ROUND POLISHED ALUMINUM AIR HORNS ROOF MOUNTED	4	
726-001	SINGLE ELECTRIC HORN		



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Data Code	Description	Weight Front	Weight Rear
728-002	DUAL HORN SHIELDS		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS		
302-001	(5) AMBER MARKER LIGHTS		
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-053	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH STEEL SHIELDING		
768-043	63X14 INCH TINTED REAR WINDOW		
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	8	
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
742-007	(2) CUP HOLDERS LH AND RH DASH		



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Data Code	Description	Weight Front	Weight Rear
680-007	GRAY/CHARCOAL WING DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-002	2-1/2 LB. FIRE EXTINGUISHER	5	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-032	3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL
734-004	GRAY CENTER INSTRUMENT PANEL
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK
870-001	BLACK GAUGE BEZELS



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Data Code	Description	Weight Front	Weight Rear
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-001	97 DB BACKUP ALARM		3
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
845-011	FUEL FILTER RESTRICTION INDICATOR		
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-1B3	AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF	2	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
812-001	ELECTRONIC 3000 RPM TACHOMETER		



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Data Code	Description	Weight Front	Weight Rear
813-1B4	DETROIT CONNECT VIRTUAL TECHNICIAN CONNECTIVITY PACKAGE (DETROIT ENGINES ONLY)		
81X-001	2 YEARS DETROIT CONNECT VIRTUAL TECHNICIAN REMOTE DIAGNOSTICS SERVICE		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-010	TWO ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS AND WIRE ROUTED TO CHASSIS AT BACK OF CAB, LABEL OPT		
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-003	MARKER LIGHT/HEADLIGHT SWITCH WITH SEPARATE INTERRUPTER FOR CLEARANCE LIGHTS		
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

065-000 PAINT: ONE SOLID COLOR

Color

980-3F9 CAB COLOR A: N0005EA WHITE ELITE SS
986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
PAINT
98K-998 NO FUEL TANK CABINET PAINT
962-972 POWDER WHITE (N0006EA) FRONT
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
966-972 POWDER WHITE (N0006EA) REAR
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
96E-972 POWDER WHITE (N0006EA) PUSHER/TAG
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
964-020 STANDARD BLACK BUMPER PAINT
963-998 NO UNDERCOAT

Certification / Compliance



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Data Code	Description	Weight Front	Weight Rear
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

Secondary Factory Options

998-001	CORPORATE PDI CENTER IN-SERVICE ONLY		
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TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	10415 lbs	9543 lbs	19958 lbs
Total Weight ⁺	10415 lbs	9543 lbs	19958 lbs

Extended Warranty

WAI-10V	EW4 DD13 VOC \$0 DEDUCTIBLE 5 YEAR/200000 MILES FULL COVERAGE
WAK-158	EATON HEAVY DUTY MANUAL 1750 FT/LBS OR LESS TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES FEX
WAG-010	TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP

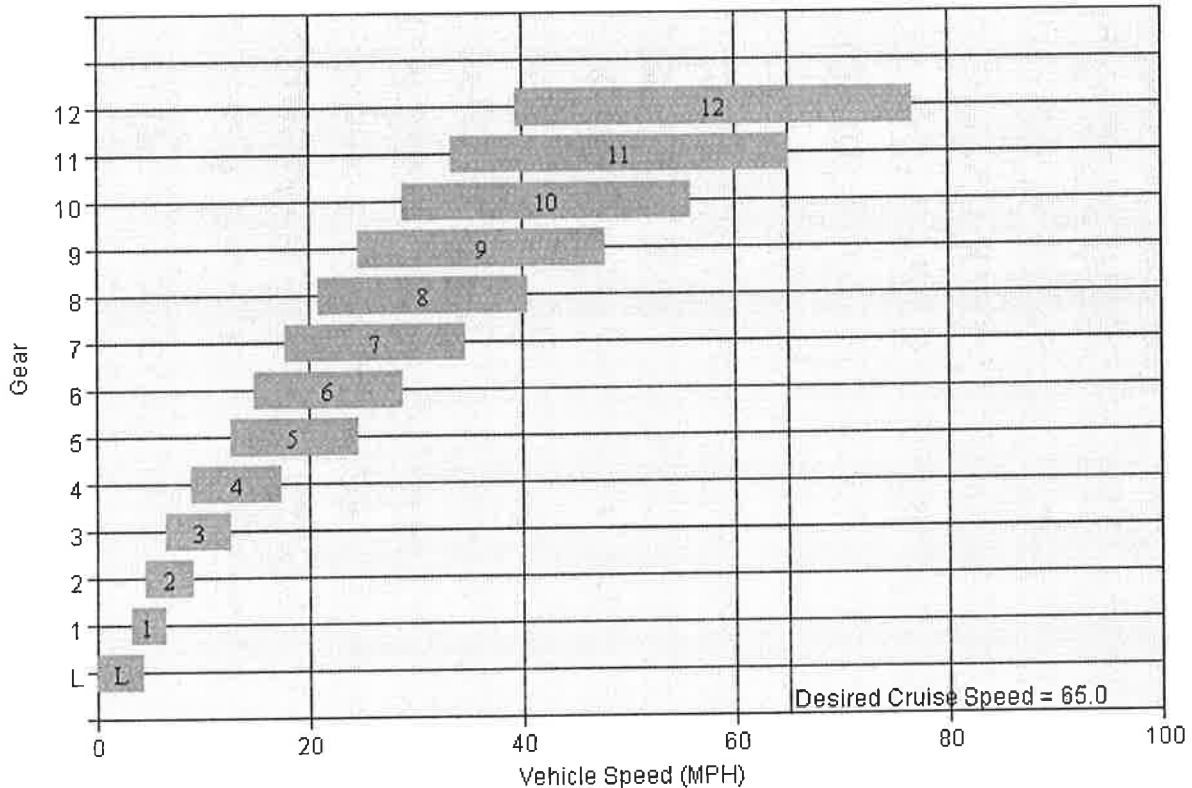
(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.



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OPERATING RANGE



VEHICLE SPECIFICATIONS SUMMARY - OPERATING RANGE

Model.....114SD
 Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Desired Cruise Speed (mph).....65.0
 Engine (101).....DETROIT DD13 12.8L 410 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM
 RPM at Peak Torque.....975
 Governed RPM.....1900

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Transmission (342)	EATON FULLER RTLO-16913A TRANSMISSION
Gear Ratio: LL	N/A
Gear Ratio: L	12.31
Gear Ratio: 1	8.64
Gear Ratio: 2	6.11
Gear Ratio: 3	4.43
Gear Ratio: 4	3.23
Gear Ratio: 5	2.29
Gear Ratio: 6	1.95
Gear Ratio: 7	1.62
Gear Ratio: 8	1.38
Gear Ratio: 9	1.17
Gear Ratio: 10	1
Gear Ratio: 11	0.86
Gear Ratio: 12	0.73
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Auxiliary Transmission (352)	NO AUXILIARY TRANSMISSION
Low Gear Ratio	N/A
High Gear Ratio	N/A
Transfer Case (373)	NO TRANSFER CASE
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.10 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	496

TABLE SUMMARY - OPERATING RANGE

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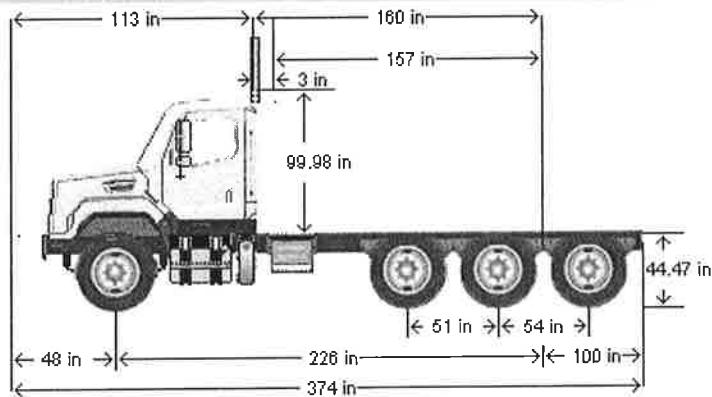
Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Minimum Speed (MPH)	Maximum Speed (MPH)
L	12.31	4.1	50.47	0	4.6
1	8.64	4.1	35.42	3.3	6.5
2	6.11	4.1	25.05	4.7	9.2
3	4.43	4.1	18.16	6.5	12.7
4	3.23	4.1	13.24	8.9	17.4
5	2.29	4.1	9.39	12.6	24.5
6	1.95	4.1	7.99	14.8	28.7
7	1.62	4.1	6.64	17.8	34.6
8	1.38	4.1	5.66	20.8	40.6
9	1.17	4.1	4.80	24.6	47.9
10	1.00	4.1	4.10	28.8	56.1
11	0.86	4.1	3.53	33.4	65.2
12	0.73	4.1	2.99	39.4	76.8

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... 114SD
Wheelbase (545) 5750MM (226 INCH) WHEELBASE
Rear Frame Overhang (552) 2550MM (100 INCH) REAR FRAME OVERHANG
Fifth Wheel (578) NO FIFTH WHEEL
Mounting Location (577)..... NO FIFTH WHEEL LOCATION
Maximum Forward Position (in) 0
Maximum Rearward Position (in) 0
Amount of Slide Travel (in) 0
Slide Increment (in) 0
Desired Slide Position (in) 0.0
Cab Size (829) 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016) RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY
WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	113.4
Bumper to Centerline of Front Axle (BA)	47.9
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	160.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	157.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.5
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	260.4
Cab Height (CH)	100.0
Wheelbase (WB)	226.0
Frame Overhang (OH)	100.0
Overall Length (OAL)	373.9
Rear Axle Spacing	54.0
Pusher/Tag Axle Spacing	51.0
Unladen Frame Height at Centerline of Rear Axle	44.5

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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	13200.0
Expected Rear Axle(s) Load (lbs).....	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	79200
Expected GCW (lbs).....	0.0
Front Axle (400).....	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	20,000# TAPERLEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS IRON FRONT HUBS
Front Disc Wheels (502).....	MAXION WHEELS 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	MICHELIN XFE 425/65R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420).....	RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622).....	HENDRICKSON HN462 REAR SUSPENSION @ 46,000#
Rear Hubs (450).....	CONMET PRESET PLUS IRON REAR HUBS
Rear Disc Wheels (505).....	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS
Rear Tires (094).....	MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES
Rear Brakes (423).....	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	HENDRICKSON SC13/SCO13 13,200# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE
Pusher / Tag Suspension (626).....	HENDRICKSON SC13 COMPOSITITE 13,200# STEERABLE AIR LIFT PUSHER SUSPENSION
Pusher / Tag Hubs (449).....	CONMET PRESET PLUS IRON PUSHER/TAG HUBS
Pusher/Tag Disc Wheels (509).....	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC PUSHER/TAG WHEELS
Pusher / Tag Tires (095).....	MICHELIN XZA2 ENERGY 295/80R22.5 16 PLY RADIAL PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	HENDRICKSON 15X4 CAM PUSHER/TAG BRAKES, DOUBLE ANCHOR, FABRICATED SHOES

TABLE SUMMARY - GVWR

Prepared for:
Randy Rodgers
Williamson County
710 Main St
Georgetown, TX 78626
Phone: 512-943-3368

Prepared by:
Tom Standard
FREIGHTLINER OF AUSTIN
1701 SMITH ROAD
AUSTIN, TX 78721
Phone: 512-389-0000
E-Mail: tstandard@ftl1.com

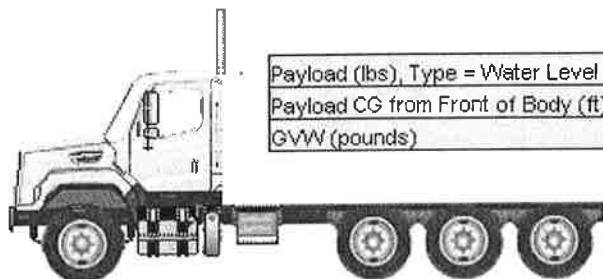
	Front	Pusher	Rear 1	Rear 2
Axle Component Weight Ratings				
Axles	20000	13500	23000	23000
Suspension	20000	13200	23000	23000
Hubs	23000	14700	26000	26000
Brakes	21500	14000	24999	24999
Wheels	21000	14800	29600	29600
Tires	22800	15660	24020	24020
Power Steering	22000	N/A	N/A	N/A
GAWR (per axle)	20000	13200	23000	23000
GAWR (per axle system)	20000	13200		46000
Expected Load (per axle system)	20000	13200		46000
Vehicle GVWR Summary				
Calculated GVWR	79200			
Expected GVWR	79200			
All weights displayed in pounds				

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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Williamson County
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AUSTIN, TX 78721
Phone: 512-389-0000
E-Mail: tstandard@ftl1.com

TRUCK WEIGHT



Payload (lbs), Type = Water Level	58184
Payload CG from Front of Body (ft)	12.0
GVW (pounds)	79200

Front
10620

Pusher
13200

Rear
55380

VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	13200.0
Expected Rear Axle(s) Load (lbs).....	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	79200
Expected GCW (lbs).....	0.0
Wheelbase (545).....	5750MM (226 INCH) WHEELBASE
Pusher / Tag Axle (443).....	HENDRICKSON SC13/SCO13 13,200# FF1 STEERABLE 15X4 BRAKE INTEGRAL PUSHER AXLE
Front Axle to Back of Cab (in).....	65.551
Cab to Body Clearance (in).....	3.0
Front Axle to Body (in).....	68.551
Truck Configuration (AA3).....	TANK BODY
Body Length (ft).....	24.0
Body Weight (lbs).....	0.0
Body Horiz CG from Body Front (ft).....	7.5
Body Front to Rear Axle(s) CL (ft).....	13.12
Driver Weight (lbs).....	500.0
Driver Horizontal CG from Front Axle (in).....	39.18
Left-Hand Fuel Tank (204).....	70 GALLON/264 LITER RECTANGULAR ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in).....	55.693
Right-Hand Fuel Tank (206).....	NO RH FUEL TANK
Right Fuel Tank Horizontal CG (in).....	0

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AUSTIN, TX 78721
Phone: 512-389-0000
E-Mail: tstandard@ftl1.com

TABLE SUMMARY - TRUCK WEIGHT

Item	Front(s)	Pusher(s)	Rear(s)	Total
Pusher/Tag Down				
Chassis Tare	10415	1353	8190	19958
Fuel / Oil	419	N/A	139	558
Driver	413	N/A	87	500
Dealer Installed Options	0	N/A	0	0
Accessories	0	N/A	0	0
Body	0	N/A	0	0
Truck Tare Weight	11247	1353	8416	21016
Payload	3462	N/A	54722	58184
Calculated Axle Loads - Pusher/Tag Down	10620	13200	55380	79200
Expected Axle Loads / GVW	20000	13200	46000	79200
GAWR / GVWR	20000	13200	46000	79200
Payload CG From Front of Body			12 feet	
Payload CG From Front Axle			17.7 feet	
Payload Distribution			Water Level	
All weights displayed in pounds				

Item	Front(s)	Pusher(s)	Rear(s)	Total
Pusher/Tag Up				
Chassis Tare	10415	N/A	9543	19958
Fuel / Oil	419	N/A	139	558
Driver	413	N/A	87	500
Dealer Installed Options	0	N/A	0	0
Accessories	0	N/A	0	0
Body	0	N/A	0	0
Truck Tare Weight	11247	N/A	9769	21016
Payload	3462	N/A	54722	58184
Calculated Axle Loads - Pusher/Tag Up	14709	0	64491	79200
Expected Axle Loads / GW	20000	13200	46000	79200
GAWR / GVWR	20000	13200	46000	79200
Payload CG From Front of Body		12 feet		
Payload CG From Front Axle		17.7 feet		
Payload Distribution		Water Level		
All weights displayed in pounds				

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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FRAME RBM

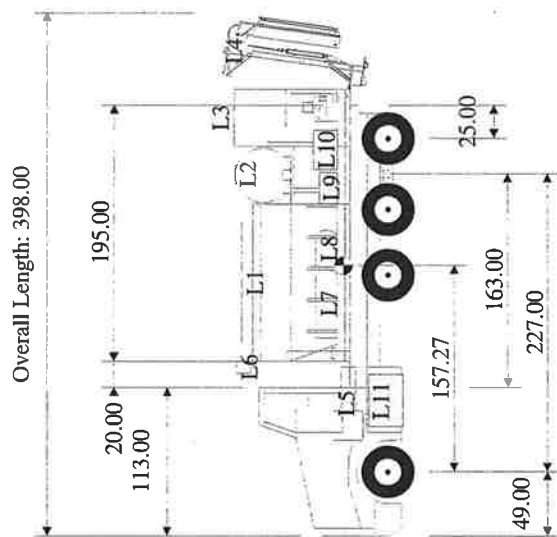
VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 5750MM (226 INCH) WHEELBASE
Frame Rails (546) 1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI(546)
Yield Strength (psi)..... 120000
Section Modulus (per rail) (cu in).....22.7
RBM (per rail) (lbf-in).....2700000
Inner Frame Reinforcement (547) 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5750MM (226 INCH) WHEELBASE
Frame	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
Inner Frame Reinforcement	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	36.74
Frame RBM - per rail (lbf-in)	4409800

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



150.0 50.0 54.0

Axle Loads (lb)

Tare:
Accessories:
Payload:
Total:

#1	#3	#2
12316	0	18670
0	0	0
5040	13200	21854
17356	13200	40524

	Unit 1 (Truck)	Vehicle
Tare weight (lb):	30986.0	30986.0
Accessories (lb):	0.0	0.0
Payload (lb):	40094.0	40094.0
Total (lb):	71080.0	71080.0

2015 FREIGHTLINER #114SD CHASSIS (20K-F, 46K-R & 13.2K pusher) w/Driver. With ----- LOADED ----- 408-N1-HP MIXER, ref. ZII PO# 040414-A.

Title:

Company:
Zimmerman Industries, Inc.
By:

Date:
12/5/2015
Dwg No.:

City of Austin_01-CC&M-LOADED

City of Austin, S&B, 1966/1967-014

BRF

LOAD DESCRIPTION TABLE

Load ID	Name	Weight (lb)	Length (in)	Position *
L1 of Unit 1	1 - AG BIN, N1, 8 YARD W/ 8" RISER	28384.0	120.0	0.0"
L2 of Unit 1	2 - 400 GALLON POLY WATER TANK	3320.0	44.0	10' 0.0"
L3 of Unit 1	3 - 96 CU. FT. CEMENT BIN	7200.0	43.0	13' 8.0"
L4 of Unit 1	4 - 12" X 9 FT. AUGER W/ SWIVEL CHUTES	0.0	58.0	17' 3.0"
L5 of Unit 1	MUNCIE PTO-SHAFT EXT. W/4SEC. HYD PUMP	0.0	56.0	-6' 12.0"
L6 of Unit 1	TARP ASSY.	0.0	9.0	-1' 3.0"
L7 of Unit 1	HIGH FLOW ADMIX TANK	360.0	52.0	1' 6.0"
L8 of Unit 1	LOW FLOW ADMIX TANK	180.0	28.0	6' 0.0"
L9 of Unit 1	TOOLBOX - 14"X24"	50.0	24.0	10' 0.0"
L10 of Unit 1	LIQUID COLOR DISPENSER	225.0	30.0	12' 2.0"
L11 of Unit 1	FUEL - TANK FULL	375.0	40.0	-5' 10.0"

* Position measured from front of load to front of van for all units except tractor.

For tractor, position measured from front of load to back of cab.

2015 FREIGHTLINER #114SD CHASSIS (20K-F, 46K-R & 13.2K pusher) w/Driver. With ----- LOADED ----- 408-N1-HP MIXER, ref. ZII PO# 040414-A.

Title:

City of Austin, S&B, 1966/1967-014

Company:

Zimmerman Industries, Inc.

By:

BRF

Date:

12/5/2015

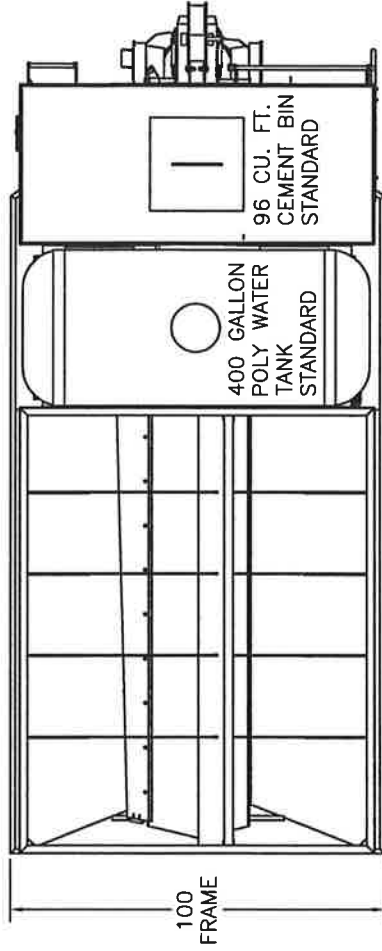
Dwg No.:

City of Austin_01-CC&M-LOADED

STONE BIN VOLUME
171 CU. FT.
54%

TOTAL BIN VOLUME
317 CU. FT.

SAND BIN VOLUME
146 CU. FT.
46%



12 MIN.
MIXER TO CAB

10 MIN.
MIXER TO EXHAUST

42 S.P.
45 H.P.

43

44

143½ Z

136½ Z

129½ Z

130 C.F.

113 C.F.

96 C.F.

75⅜

142

41

NORMAL
CHASSIS

23

TOP OF
CHASSIS FRAME

52

END OF FRAME

143 MIN.

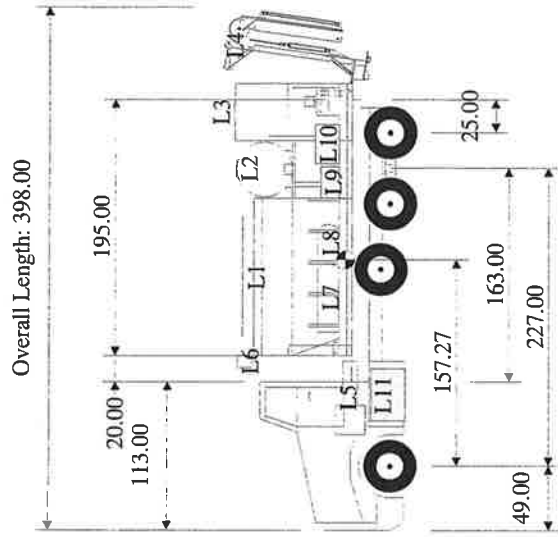
210½

MANUAL CHUTES = 9½
S.P. POWER CHUTES = 17
H.P. POWER CHUTES = 14
S.P. SWIVEL CHUTES = 10
H.P. SWIVEL CHUTES = 13

VMMB BIN VOLUME
304 CU. FT.

ZIMMERMAN INDUSTRIES INC. EPHRATA, PA. 17028-0100	
400N1 SERIES LAYOUT	
8 YARD CONFIGURATION	
MODEL NO. 400N1	
DATE 08-08-03	
BY 400N1	

This information is for informational purposes only. It is not intended to be used as a basis for any warranty or liability. The information is subject to change without notice.



Axle Loads (lb)

Tare:
Accessories:
Payload:
Total:

#1	#3	#2
12316	0	18670
0	0	0
9517	0	30577
21833	0	49247

	Unit 1 (Truck)	Vehicle
Tare weight (lb):	30986.0	30986.0
Accessories (lb):	0.0	0.0
Payload (lb):	40094.0	40094.0
Total (lb):	71080.0	71080.0

2015 FREIGHTLINER #114SD CHASSIS (20K-F, 46K-R & 13.2K pusher) w/Driver. With ----- LOADED ----- 408-N1-HP MIXER, ref. ZII PO# 040414-A.

Title:

Company:
By: Zimmerman Industries, Inc.

Date:
12/5/2015
Dwg No.:

City of Austin, S&B, 1966/1967-014

City of Austin_01-CC&M-LOADED

All lengths in inches and weights in pounds

Printout of Load Xpert software

LOAD DESCRIPTION TABLE

Load ID	Name	Weight (lb)	Length (in)	Position *
L1 of Unit 1	1 - AG BIN, N1, 8 YARD W/ 8" RISER	28384.0	120.0	0.0"
L2 of Unit 1	2 - 400 GALLON POLY WATER TANK	3320.0	44.0	10' 0.0"
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L4 of Unit 1	4 - 12" X 9 FT. AUGER W/ SWIVEL CHUTES	0.0	58.0	17' 3.0"
L5 of Unit 1	MUNCIE PTO-SHAFT EXT. W/4SEC. HYD PUMP	0.0	56.0	-6' 12.0"
L6 of Unit 1	TARP ASSY.	0.0	9.0	-1' 3.0"
L7 of Unit 1	HIGH FLOW ADMIX TANK	360.0	52.0	1' 6.0"
L8 of Unit 1	LOW FLOW ADMIX TANK	180.0	28.0	6' 0.0"
L9 of Unit 1	TOOLBOX - 14"X24"	50.0	24.0	10' 0.0"
L10 of Unit 1	LIQUID COLOR DISPENSER	225.0	30.0	12' 2.0"
L11 of Unit 1	FUEL - TANK FULL	375.0	40.0	-5' 10.0"

* Position measured from front of load to front of van for all units except tractor.
For tractor, position measured from front of load to back of cab.

2015 FREIGHTLINER #114SD CHASSIS (20K-F, 46K-R & 13.2K pusher) w/Driver. With ----- LOADED ----- 408-N1-HP MIXER, ref. ZII PO# 040414-A.

Title:

City of Austin, S&B,1966/1967-014

Company:

Zimmerman Industries, Inc.

By:

BRF

Date:

12/5/2015

Dwg No.:

City of Austin_01-CC&M-LOADED

PURCHASER: Williamson County Road and Bridge Division

ADDRESS: 3151 S. E. Inner Loop Ste B
Georgetown, TX 78626

ATTENTION: Jeffrey O Ivey

TEL. NO: 512-639-0144 **FAX NO:**

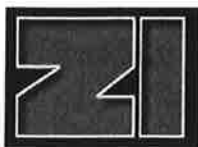
CELL NO:

E-MAIL: jivev@wilco.org

PURCHASE ORDER

NUMBER: 010615-C Page 1 of 2

196 Wabash Road
Ephrata, PA 17522-9662
USA Toll Free: 888-577-6499
Phone: 717-733-6166
Fax: 717-733-1169
E-mail: info@zimmermanindustries.com
Website: www.zimmermanindustries.com



Concrete Mixing Equipment

Zimmerman Industries, Inc.

DATE 1-6-15	SHIP VIA	F.O.B. GEORGETOWN, TX U.S.A.	DATE REQUIRED	TERMS CASH ON RECEIPT
QUANTITY ORDERED	MODEL NO.	DESCRIPTION	UNIT PRICE	TOTAL IN U.S.FUNDS

1 270 BBL Belgrade Portable Silo with all standard equipment:

Includes:

8'6" dia. x 31" height, positive feed drive 7" dia. x 17' auger, 5 HP single phase motor and gear box drive, heavy duty dual axle trailer and tires, electric brakes and light package, 150 sq. ft. dust house with air vibrator and pop off valve, 4" dia. fill pipe with aluminum adapter, 6" x 6" base frame mounting pads, caged ladder and railing, (8) externally mounted air pads with manifold, sand blast, prime and paint - lt. grey, (1) high level indicator with light package, (1) low level indicator with light package, motor starter package for 5 HP single phase 220 volt motor with 30'-0" corded remote control station, (3) manual air valve controls to operate air pads and dust house (mount one control at auger discharge end), filter/regulator/gauge assembly, install and plumb filter/regulator assembly, manual air control valves, bin level indicator, motor starter package, and air pads

Silo Cost	\$31,034.00
Delivery to Georgetown, TX	<u>3,360.00</u>
Total Cost	\$34,394.00

Terms: Net 30 days.

Note: Customer is responsible for silo installation, connecting electric and air to silo, and some assembly.

Rep.: Tom Maffucci By: _____ Date: _____
Purchaser-Authorized Signature

PURCHASER: Williamson County Road and Bridge Division

ADDRESS: 3151 S. E. Inner Loop Ste B
Georgetown, TX 78626

ATTENTION: Jeffrey O Ivey

TEL. NO: 512-639-0144 **FAX NO:** _____

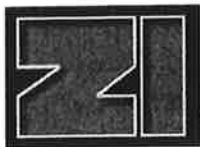
CELL NO: _____

E-MAIL: jivey@wilco.org

PURCHASE ORDER

NUMBER: 010615-C Page 2 of 2

196 Wabash Road
Ephrata, PA 17522-9662
USA Toll Free: 888-577-6499
Phone: 717-733-6166
Fax: 717-733-1169
E-mail: info@zimmermanindustries.com
Website: www.zimmermanindustries.com



Concrete Mixing Equipment

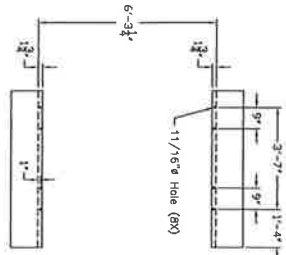
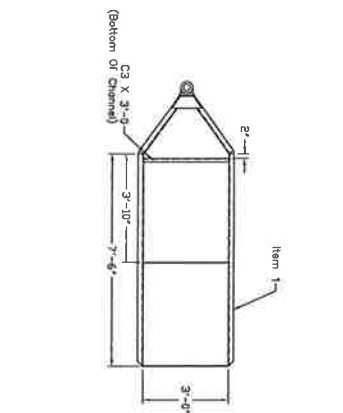
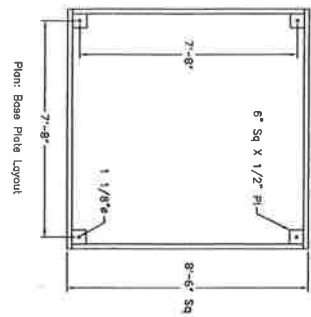
Zimmerman Industries, Inc.

DATE 1-6-15	SHIP VIA	F.O.B. GEORGETOWN, TX U.S.A.	DATE REQUIRED	TERMS CASH ON RECEIPT
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TERMS AND CONDITIONS:

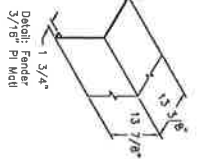
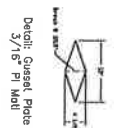
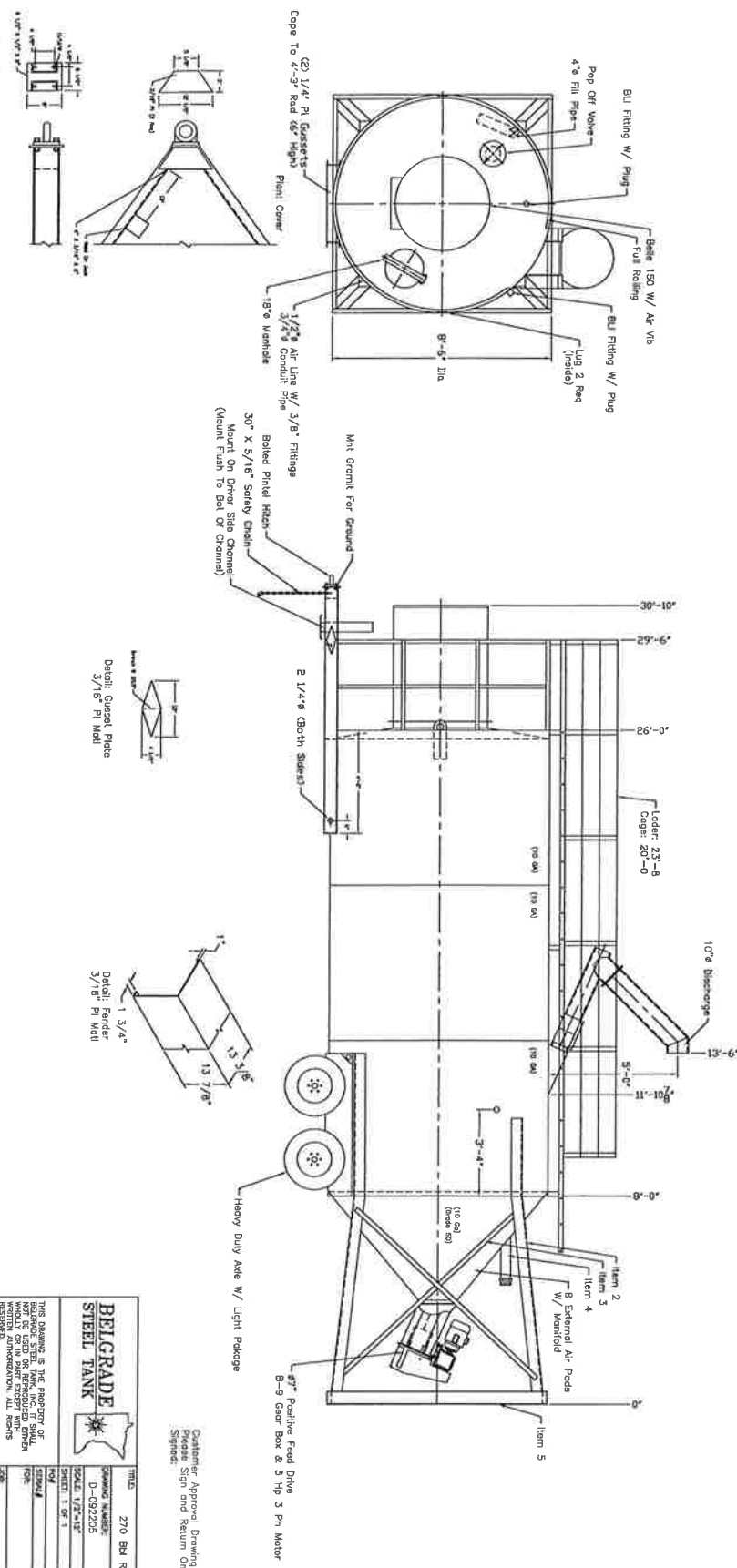
- (1) It is understood that this order is subject to approval and acceptance by the Seller at its home office in Ephrata, PA, where the order becomes effective when so approved and accepted.
- (2) Prices do not include any federal, state, or local sales, property, use or excise taxes or duty applicable to the equipment or its manufacture, possession, use or sale. Any such taxes will be added to the price.
- (3) The Seller warrants that it will repair or replace at Ephrata, PA, U.S.A., without charge, any part which is returned to the seller, freight prepaid, within six (6) months of delivery to the purchaser and which is found by the Seller to be defective in workmanship or material. Except the express warranties made by the manufacturer in a separate warranty document, THERE ARE NO WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY MERCHANTABILITY OR FITNESS. SOME STATES DO NOT PERMIT LIMITATIONS OR EXCLUSIONS OF IMPLIED WARRANTIES OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATIONS OR EXCLUSIONS IN THE WARRANTY MAY NOT APPLY.
- (4) *There are no oral understandings, representations or agreements relative to this order that are not fully expressed herein.*
- (5) Upon receipt by a carrier or the Purchaser, the equipment shall be held at the Purchaser's risk and expense in respect to loss or damage from any cause and taxes and charges of any kind. Nothing herein shall release the Purchaser from payment for all equipment shipped under an order.
- (6) All rights, duties, obligations and liabilities hereunder shall be governed by the laws of the Commonwealth of Pennsylvania.
- (7) Silo must be paid for in full within 15 days of completion date to avoid interest and storage charges of \$525.00 per week. After 60 days, customer may forfeit deposit and Zimmerman Industries, Inc. reserves the right to re-sell the silo at the customer's expense.

Rep.: Tom Maffucci By: _____ Date: _____
Purchaser-Authorized Signature



Item	Material List	Qty
1	OS X 10'-0	2
2	LS X 5 X 3/8 X 8'-0	4
3	L2 X 2 X 1/4 X 9'-6	8
4	4" Fill Pipe W/ Alum Adapter: 18'-0	1
5	OS X 8'-6	2
6	OS X 8'-2	2
7	(2) 6,000# Axle and (4) Tires	
8	(1) Jack Stand	
	C3 X 3'-0	1

GENERAL NOTES:
 1.) Paint White (Optional: Light Grey,
 2.) Include (2) BU Plug



BELGRADE STEEL TANK	
TITLE: 270 BM Round Portable	
SCALE: 1/2"=1'-0"	DATE: 7/2/06
SHEET: 1 OF 1	DRAWN BY: JLM
CHECKED BY:	APPROVED BY:
THIS DRAWING IS THE PROPERTY OF BELGRADE STEEL TANK, INC. IT SHALL REMAIN THE PROPERTY OF BELGRADE STEEL TANK, INC. AND SHALL NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF BELGRADE STEEL TANK, INC.	

Customer Approval Drawing
 Please Sign and Return One Copy
 Signed: _____