

TOP SIDE ISOMETRIC VIEW

Ī	2	2	G201003	BOTTOM HINGE	165.64
Ī	3	1	G201023	2 FILE TENSION CHORD	224.55
Ī	4	2	G201005	SWING ARM	1353.56
Ī	5	2	G201006	SWING ARM BRACE - TYPE 1	46.35
Ī	6	2	G201007	SWING ARM BRACE - TYPE 2	20.99
Ī	7	2	G201008	SWING ARM BRACE BRACKET	7.85
	8	2	G201009	SWING ARM TOP PIVOT PIN	35.50
Ī	9	2	G201010	SWING ARM BOTTOM PIVOT PIN	37.77
	10	6	G201012	SHIM PLATE, 1/16"	3.33
Ī	11	2	G201013	PIN - TYPE 1	1.96
Ī	12	2	G201014	PIN - TYPE 2	3.61
Ī	14	2	G201017	LINK PLATE	1.09
Ī	15	8	509	WESTERN WIRE SAFETY PIN - 7/8" x 2 3/4" INSIDE CLEAR., OR EQUAL	.04
	16	4	90146A214	MCMASTER-CARR BENT HITCH PIN, Ø3/4" x 3 1/2" USEABLE LENGTH, ZINC PLATED OR EQUAL	.85
Ī	17	12	98335A084	MCMASTER-CARR HAIRPIN COTTER - 5/8" TO 3/4", 9/64" WIRE, OR EQUAL	.03
Ī	18	2	9900217	CROSBY EYE BOLT STOCK #S-279 (2,600 WLL), OR EQUAL	.30
Ī	21	4		HEX HEAD CAP SCREW, 1"-8 UNC x 3.5", SAE J429 GRADE 8, ZINC COATED	1.11
	22	8		HEX HEAD CAP SCREW, M30-3.5 x 90, DIN 933, (CLASS 10.9), ZINC COATED	1.68
***	23	4		HEX HEAD CAP SCREW, M30-3.5 x 130, DIN 931, (CLASS 10.9), ZINC COATED	2.17
Ī	24	2		SOCKET HEAD CAP SCREW, 2"-4.5 UNC x 10", ASTM A574, ZINC COATED	12.23
	26	4		HEX NUT, 1"-8 UNC, SAE J995 GRADE 8, ZINC COATED	.33
***	27	12		HEX NUT, M30-3.5, DIN 267 CLASS 10, ZINC COATED	.57
	28	2		HEAVY HEX NUT, 2"-4.5 UNC, ASTM A194 - GRADE 2H, ZINC COATED (NO OVERTAP)	3.34
	30	8		WASHER, 1", SAE THRU HARDENED, ZINC COATED	.09
Ī	31	11		WASHER, 1 1/4", SAE THRU HARDENED, ZINC COATED	.16
	32	2		WASHER, 2", SAE THRU HARDENED, ZINC COATED	.38
	28	1	GPOR2CR-EA	AMSOIL SYNTHETIC POLYMERIC OFF-ROAD GREASE NLGI#2, 15 oz CARTRIDGE, OR EQUAL	
Ī	34	20		FLAT WASHER, 1 1/4", ASTM F436, STRUCTURAL, THRU HARDENED, EXTRA THICK, ZINC COATED	.35
***	35	8		HEX HEAD CAP SCREW, M30-3.5 x 140, DIN 931, (CLASS 10.9), ZINC COATED	2.29
-					

PARTS LIST

PART No.

G201002

COMPRESSION CHORD

ITEM QTY

***HEX HEAD CAP SCREW, 1 1/4"-7 UNC x 5.5", SAE J429 GRADE 8, ZINC COATED AND HEX NUT, 1 1/4-7 UNC, SAE J995 GRADE 8, ZINC COATED MAY BE USED AS AN ALTERNATE FOR ITEMS 20, 23, AND 30.

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1 REVISD NOTES 1/20/2017 MWJ 1/20/2017 VLH 1/20/2017 VLF 3/15/2016 MWJ 11/8/2016 VLH 11/8/2016 VLH DATE BY DATE BY DRAWN CHECKED

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WEIGHT EA (LBS)



BIGGE EQUIPMENT ASSEMBLY ISOMETRIC VIEW G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

SCALE: (U.N.O) G201022 1 of 12 1 NTS

BRIDGE MODE

SWING ARMS (ITEM 4) SHOWN IN THE 90° PERPENDICULAR POSITION

15. MODULAR TRAILER RIDE HEIGHT SHALL BE SET PRIOR TO LOADING DOLLIES. ONCE DOLLY HYDRAULIC SUSPENSION ZONE IS PRESSURIZED, MAIN TRAILER SUSPENSION RIDE HEIGHT SHALL NOT BE CHANGED NOR SHALL DECK LEVEL ADJUSTMENTS BE MADE BY OPERATOR. OPTIMUM RIDE HEIGHT POSITIONS DOLLY SUSPENSION CYLINDER AT MID STROKE WITH LEVEL TRAILER DECK CONDITION. L6. SELECTED DOLLY ADAPTER POSITION ON SWING ARM SHALL BE COMMON FOR ALL SWING ARMS, 17. OUTRIGGER ASSEMBLY TO TRAILER BOLTED CONNECTION RELIES ON FRICTION ONLY. HARDWARE SHALL BE TOROUED AS SPECIFIED CONNECTION HARDWARE (ITEMS 20 & 21) FOR ITEM 3 SHALL BE INSTALLED PRIOR TO PRE-TENSIONING CONNECTION HARDWARE (ITEMS 19 & 30) TO TRAILER FRAME. 19. TIRE TO TENSION CHORD (ITEM 3) CLEARANCE AT EXTREME TURNING ANGLE (MIN. TRAILER TURN RADIUS) IS MARGINAL AT TRAILER ENÒS. TIRÉ TREAD CORNER MAY ACTUALLY RUB DEPENDING ON SUSPENSION RIDE HEIGHT THIS CONSTRAINT SHOULD BE CHECKED PRIOR TO SERVICE TO ESTABLISH CONFIGURATION SPECIFIC TURN LIMITS

SELF WEIGHT SHALL NOT EXCEED 4,000 LBS. PER DOLLY.

LOAD DISTRIBUTION ACROSS TRAILER DECK. IF TRANSVERSE LOAD DISTRIBUTION IS REQUIRED DUE TO CARGO GEOMETRY, VERSUS GOLDHOFER DECK LOAD BEARING SURFACE LIMITS, W-BEAMS (OR EQUAL) SHALL BE USED

OUTRIGGER ASSEMBLY CANNOT BE ATTACHED AT TRAILER TRANSVERSE JOINT LOCATIONS.
DOLLIES WITH NON-DOUBLE ACTING LIFTING CYLINDER REQUIRE CABLE OR CHAIN SECUREMENT WHEN DOLLIES ARE

CARRIED. DOLLY LIFT CYLINDER RAM/ROD SHALL BE FULLY RETRACTED WHEN CARRIED.

10. SWING ARM HINGE PINS SHALL BE GREASED THROUGH ZERKS AFTER OUTRIGGER ASSEMBLY TO TRAILER IS 11. PREFERRED DOLLY TIRE SIZE IS 235/75R17.5 FOR IMPROVED TIRE TO ROAD CLEARANCE WHEN CARRYING DOLLIES.

13. THE GUIDELINES ESTABLISHED IN NOTES 14 & 15 BELOW ASSUME A SIMPLIFIED INDEPENDENT HYDRAULIC SUSPENSION CIRCUIT FOR THE DOLLIES. IN OTHERWORDS, THE DOLLY SUSPENSION OIL AND PUMP SYSTEM ARE NOT PART OF THE MODULAR TRAILER HYDRAULIC SUSPENSION CIRCUIT WHICH WOULD REQUIRE AN INTEGRATED

14. IN BRIDGE MODE, THE TRAILER SYSTEM STABILITY SHALL BE PROVIDED BY THE MODULAR TRAILER (3) EACH HYDRAULIC SUSPENSION ZONES. ALL DOLLY SUSPENSION CYLINDERS SHALL BE ON A SINGLE HYDRAULIC ZONE WITH EQUALIZATION BETWEEN ALL CYLINDERS. THE DOLLY SUSPENSION ZONE PROVIDES NO TIPPING STABILITY TO TRAILER ASSEMBLY. THE GOLDHOFER STABILITY TRIANGLE CENTER OF PRESSURE SHALL BE COINCIDENT WITH

BETWEEN CARGO AND TRAILER DECK

PRESSURE COMPENSATION SYSTEM,

IF NECESSARY.

ALTERNATELY, DOLLY TIRES CAN BE 275/70R22.5. 12. SEE SHEET 9 OF 12 FOR SHIM INSTALLATION CRITERIA

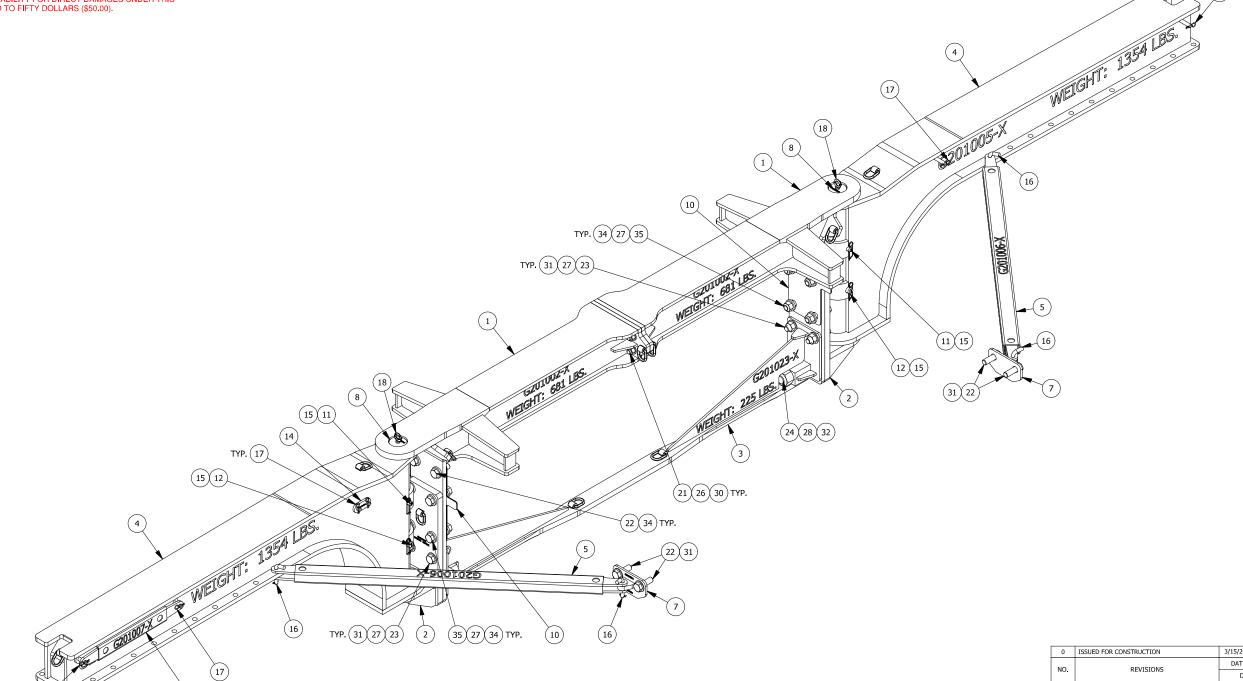
THE DOLLY SUSPENSION ZONE CENTER OF PRESSURE

20. FOR PAVEMENT MODE WITH SWING ARMS ROTATED INWARD AND DOLLIES BEING CARRIED, THE MAXIMUM DOLLY 21. SWING ARM BRACE (ITEM 5 & 6) AND LINK PLATE (ITEM #13) MAY BE MOUNTED ON EITHER SIDE OF SWING ARM

G201022 - SWING TYPE OUTRIGGER ASSEMBLY - 2 FILE TRAILER CONFIGURATION

APPROX. WEIGHT: 5053 LBS.±

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BRIDGE MODE TOP SIDE ISOMETRIC VIEW

SWING ARMS (ITEM 4) SHOWN IN THE 90° PERPENDICULAR POSITION WITH TRAILER REMOVED FOR CLARITY

0	ISSUED FOR CONSTRUCTION	3/15/2016	MWJ	11/8/2016	VLH	11/8/2016	VLH
No.	REVISIONS	DATE	BY	DATE	BY	DATE	BY
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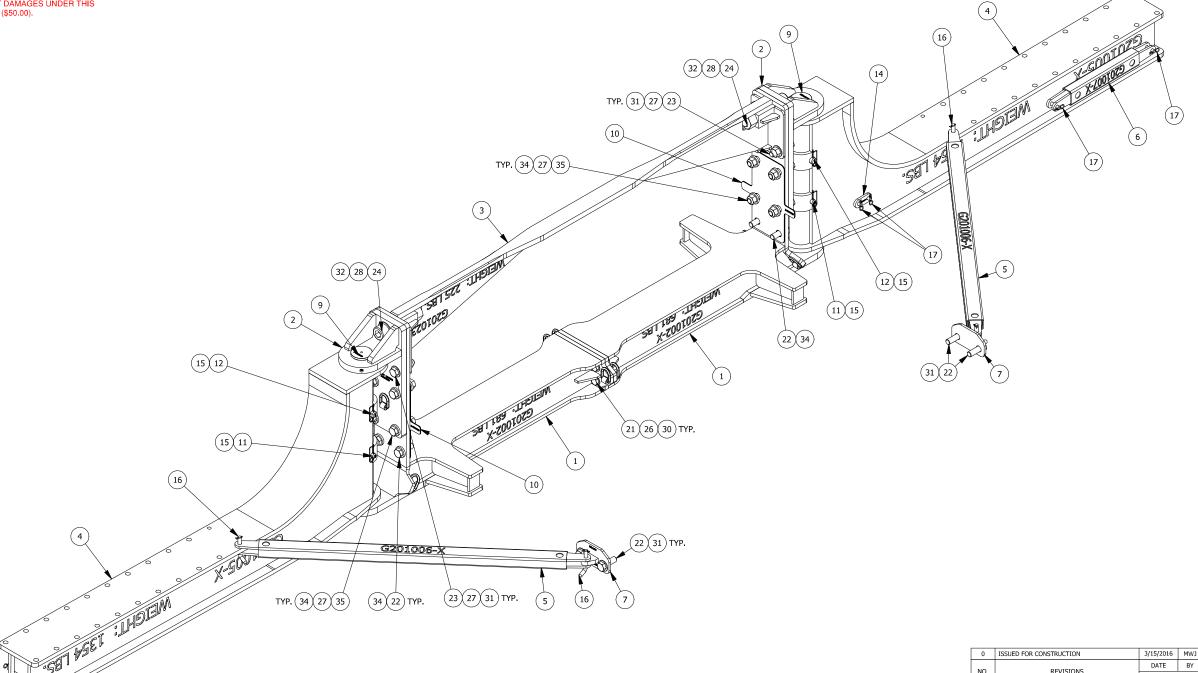
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ISOMETRIC VIEW G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.		SHEET		REV.	ĺ
NTS	В			G201022	2	of 12	1	ĺ

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BRIDGE MODE BOTTOM SIDE ISOMETRIC VIEW

SWING ARMS (ITEM 4) SHOWN IN THE 90° PERPENDICULAR POSITION WITH TRAILER REMOVED FOR CLARITY

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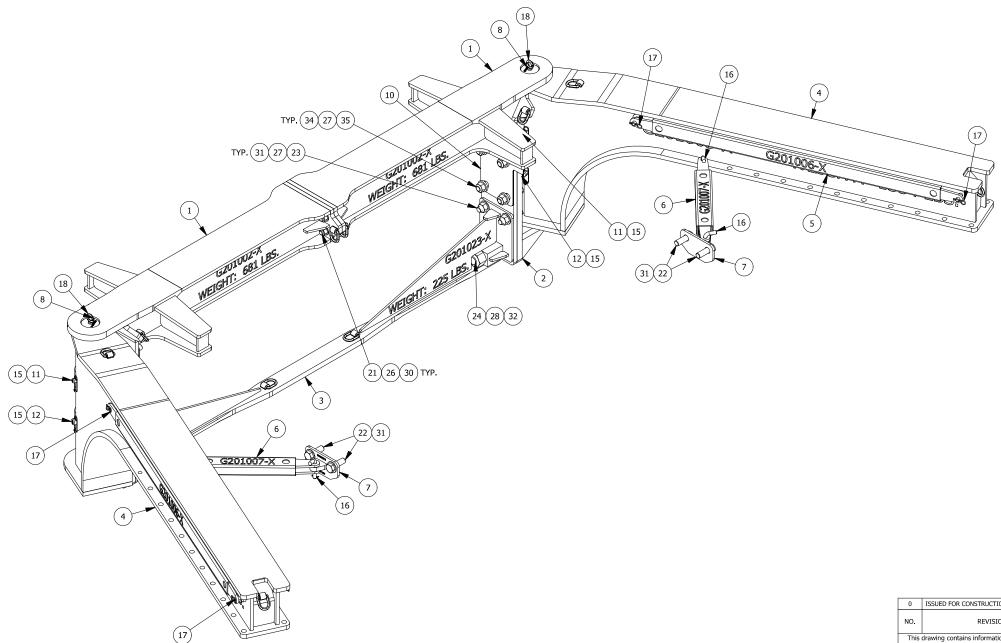
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BIGGE EQUIPMENT ASSEMBLY ISOMETRIC VIEW G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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PAVEMENT MODE "A" TOP SIDE ISOMETRIC VIEW

SWING ARMS (ITEM 4) SHOWN IN THE 24° POSITION FOR MIN. WIDTH WHEN DOLLIES ARE CARRIED WITH TRAILER REMOVED FOR CLARITY

0	ISSUED FOR CONSTRUCTION	3/15/2016	MWJ	11/8/2016	VLH	11/8/2016	VLH
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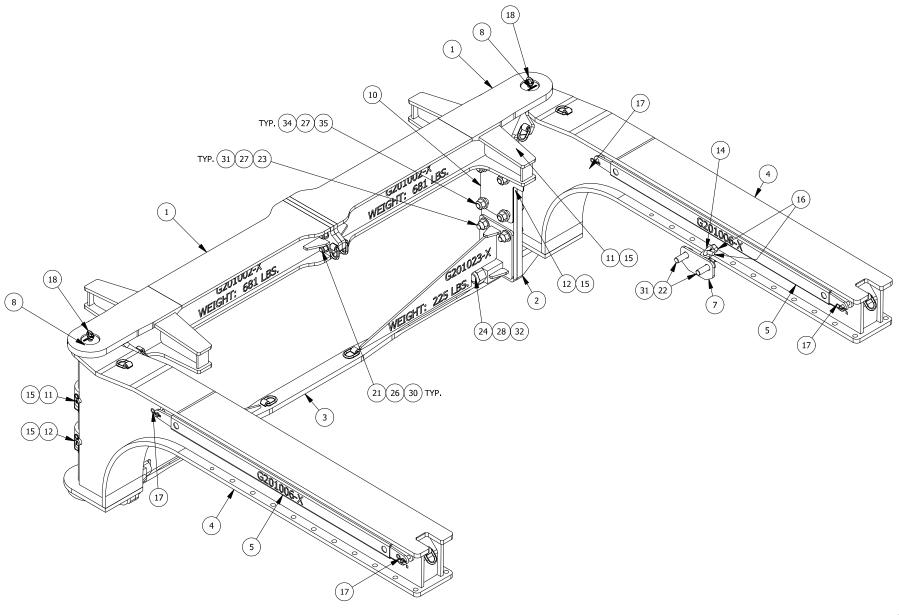
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STATEMENT ASSEMBLY

ISOMETRIC VIEW G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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PAVEMENT MODE "B" TOP SIDE ISOMETRIC VIEW

SWING ARMS (ITEM 4) SHOWN IN THE 0° PARALLEL TO SIDES OF TRAILER POSITION (MIN. WIDTH, NO DOLLIES) WITH TRAILER REMOVED FOR CLARITY

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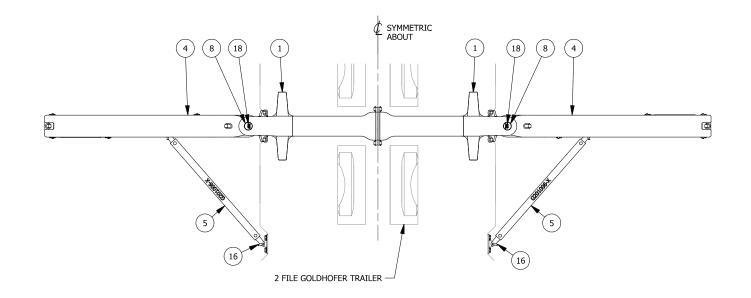
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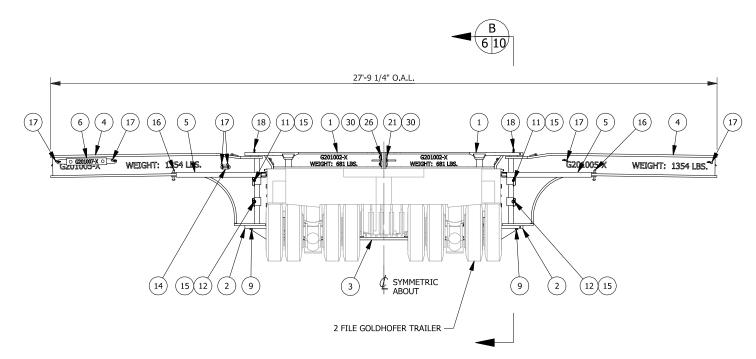
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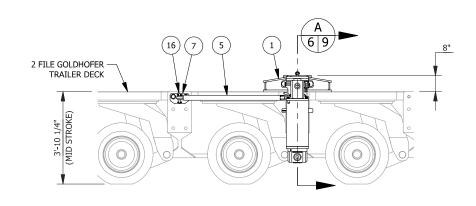
ISOMETRIC VIEW G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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BRIDGE MODE PLAN VIEW





BRIDGE MODE FRONT ELEVATION VIEW

BRIDGE MODE SIDE ELEVATION VIEW

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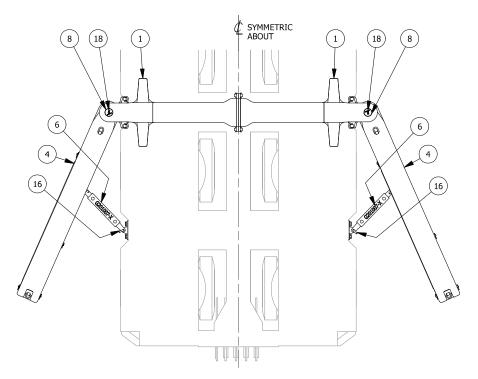


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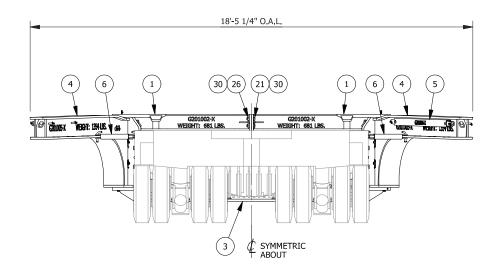
BIGGE EQUIPMENT ASSEMBLY

ORTHO VIEWS
G201022 - SWING TYPE OUTRIGGER ASSEMBLY
2 FILE TRAILER CONFIGURATION

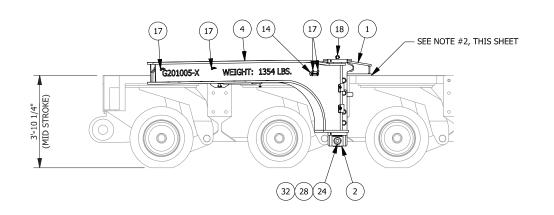
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1/4"=1'-0"	В			G201022	6	of 12	1



PAVEMENT MODE "A" PLAN VIEW



PAVEMENT MODE "A" FRONT ELEVATION VIEW



PAVEMENT MODE "A" SIDE ELEVATION VIEW

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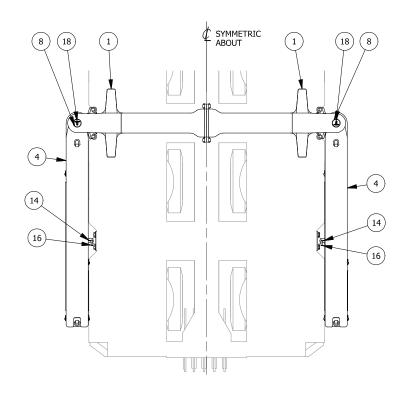
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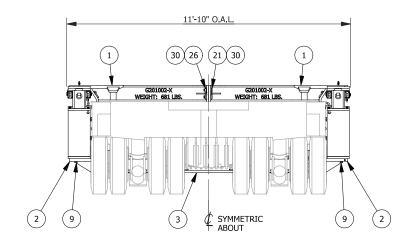
BIGGE EQUIPMENT ASSEMBLY ORTHO VIEWS G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

1/4"=1'-0" В G201022 7 of 12 1

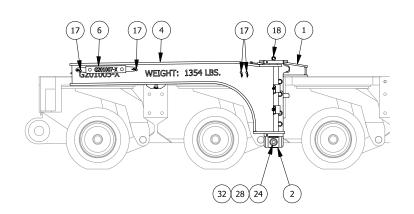
 FOR DOLLIES TO BE CARRIED , COMPRESSION CHORD "WINGS" SHALL BEAR (OR BE SHIMMED TO BEAR) ON TRAILER DECK. INSTALL SHIMS AFTER CONNECTION BOLTS HAVE BEEN TORQUED.



PAVEMENT MODE "B" PLAN VIEW



PAVEMENT MODE "B" FRONT ELEVATION VIEW



PAVEMENT MODE "B" SIDE ELEVATION VIEW

	0	ISSUED FOR CONSTRUCTION	3/15/2016	MWJ	11/8/2016	VLH	11/8/2016	VLH
	NO	REVISIONS	DATE	BY	DATE	BY	DATE	BY
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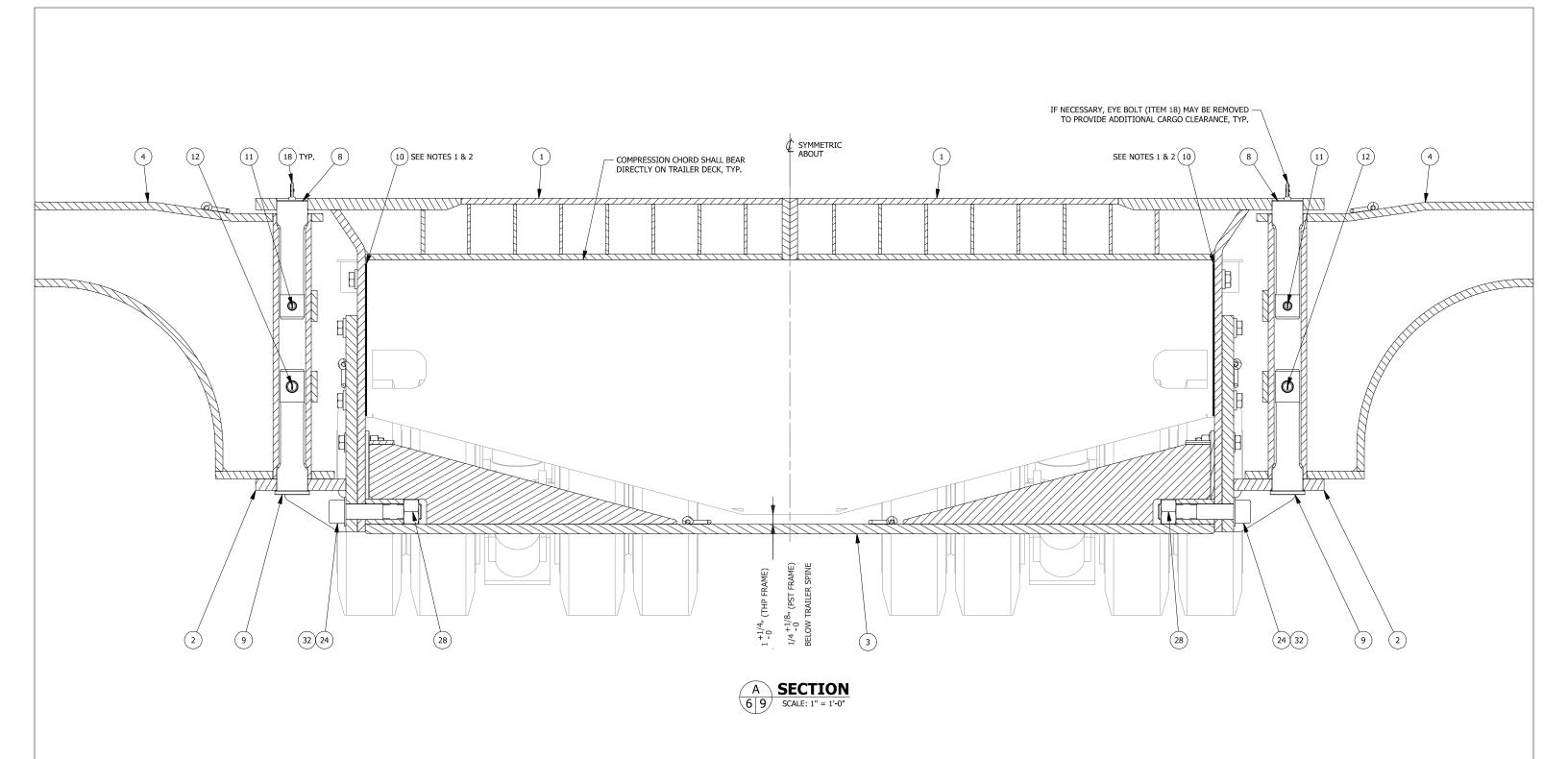
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BIGGE EQUIPMENT ASSEMBLY ORTHO VIEWS G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.		SHEET		REV.	ı
1/4"=1'-0"	В			G201022	8	of 12	1	



- MODULAR TRAILER TRANSVERSE FRAME WIDTHS VARY. THE OUTRIGGER
 FRAME IS DESIGNED TO ACCOMMODATE THIS ISSUE BY USING SHIMS.
 THE SHIM QUANTITY SHALL BE FIELD DETERMINED. AFTER SHIMMING AND PRIOR TO CAP SCREW PRE-TENSIONING, ANY REMAINING GAP SHALL NOT EXCEED 1/16" AT EACH TRAILER FRAME CONNECTION POINT. AFTER PRE-TENSIONING NO GAPS SHALL EXIST. SHIM QUANTITY VARIANCE BETWEEN THE TWO FRAME CONNECTION POINTS SHALL NOT EXCEED (1) SHIM (ITEM 10).

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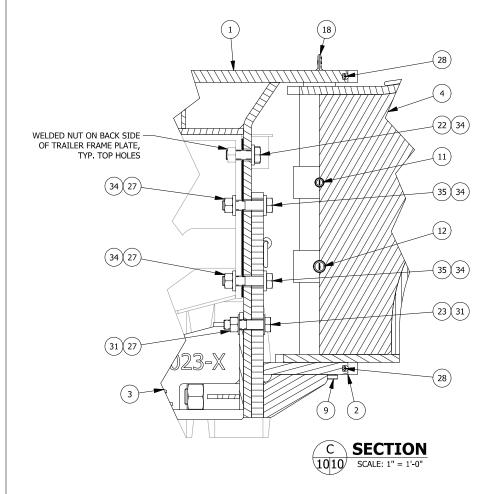
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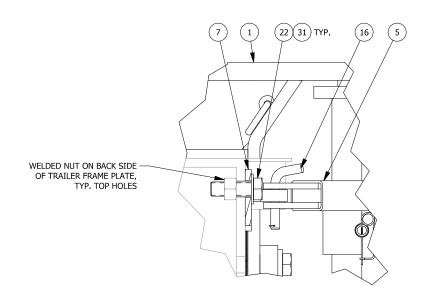


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CRANE and RIGGING CO. SECTION & DETAIL VIEWS G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

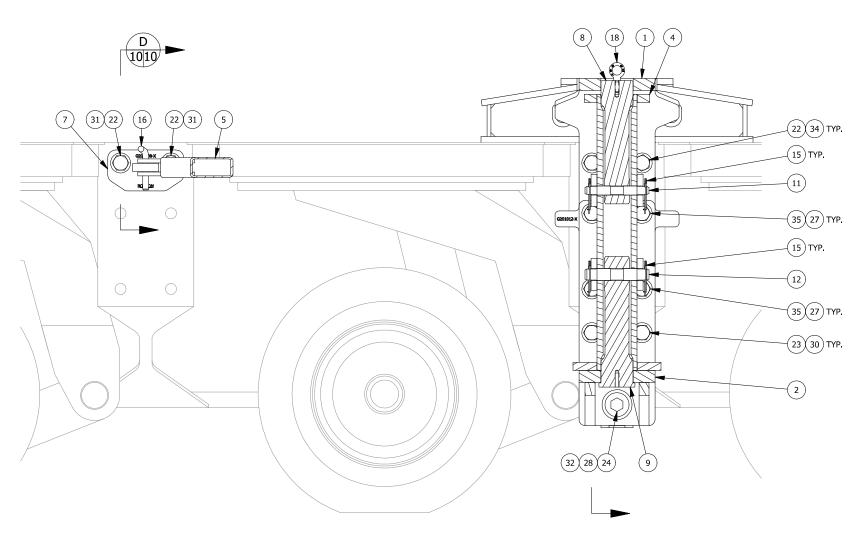
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B SECTION 6 10 SCALE: 1" = 1'-0"

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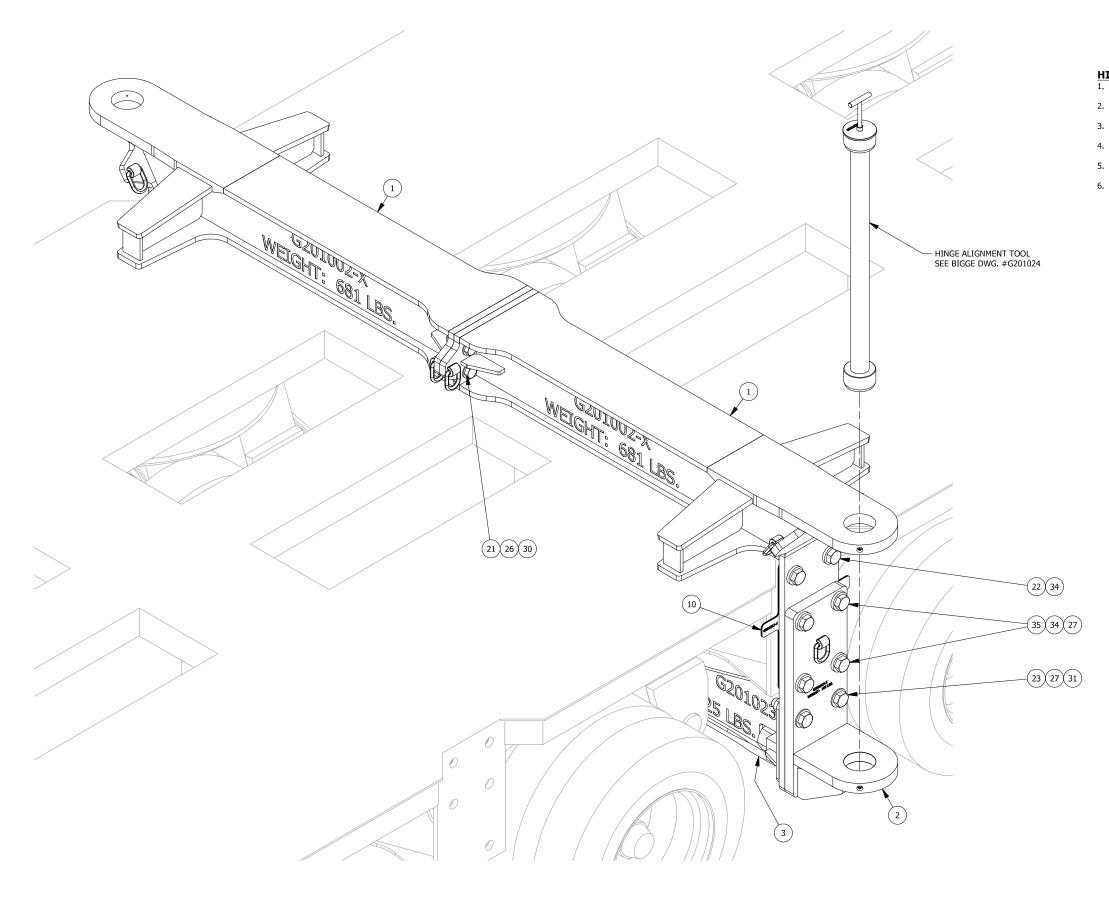
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SECTION VIEWS G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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ISOMETRIC VIEW

HINGE ALIGNMENT TOOL PROCEDURE:

- 1. ASSEMBLE COMPRESSION CHORDS (ITEM 1) WITH SPECIFIED HARDWARE AND TORQUE TO VALUES INDICATED IN BOLT TORQUE TABLE ON SHEET 1.
- PLACE ASSEMBLED COMPRESSION CHORDS IN APPROPRIATE LOCATION ON TRAILER
- DECK TO DETERMINE THE REQUIRED NUMBER OF SHIMS (ITEM 10).

 3. ASSEMBLE BOTTOM HINGES (ITEM 2) AND TENSION CHORD (ITEM 3) USING SPECIFIED HARDWARE. AT THIS POINT, HARDWARE SHALL BE FINGER TIGHT ONLY. INSTALL HINGE ALIGNMENT TOOL TO ALIGN THE BORES OF THE COMPRESSION
- CHORD AND BOTTOM HINGE.
- TORQUE THE REMAINING HARDWARE PER NOTE 18 AND TO VALUES INDICATED IN
- BOLT TORQUE TABLE ON SHEET 1.

 ONCE ALL HARDWARE HAS BEEN PROPERLY TORQUED, REMOVE THE HINGE
 ALIGNMENT TOOL, AND INSTALL THE SWING ARM (ITEM 4), TOP PIVOT PIN (ITEM 8), AND BOTTOM PIVOT PIN (ITEM 9).

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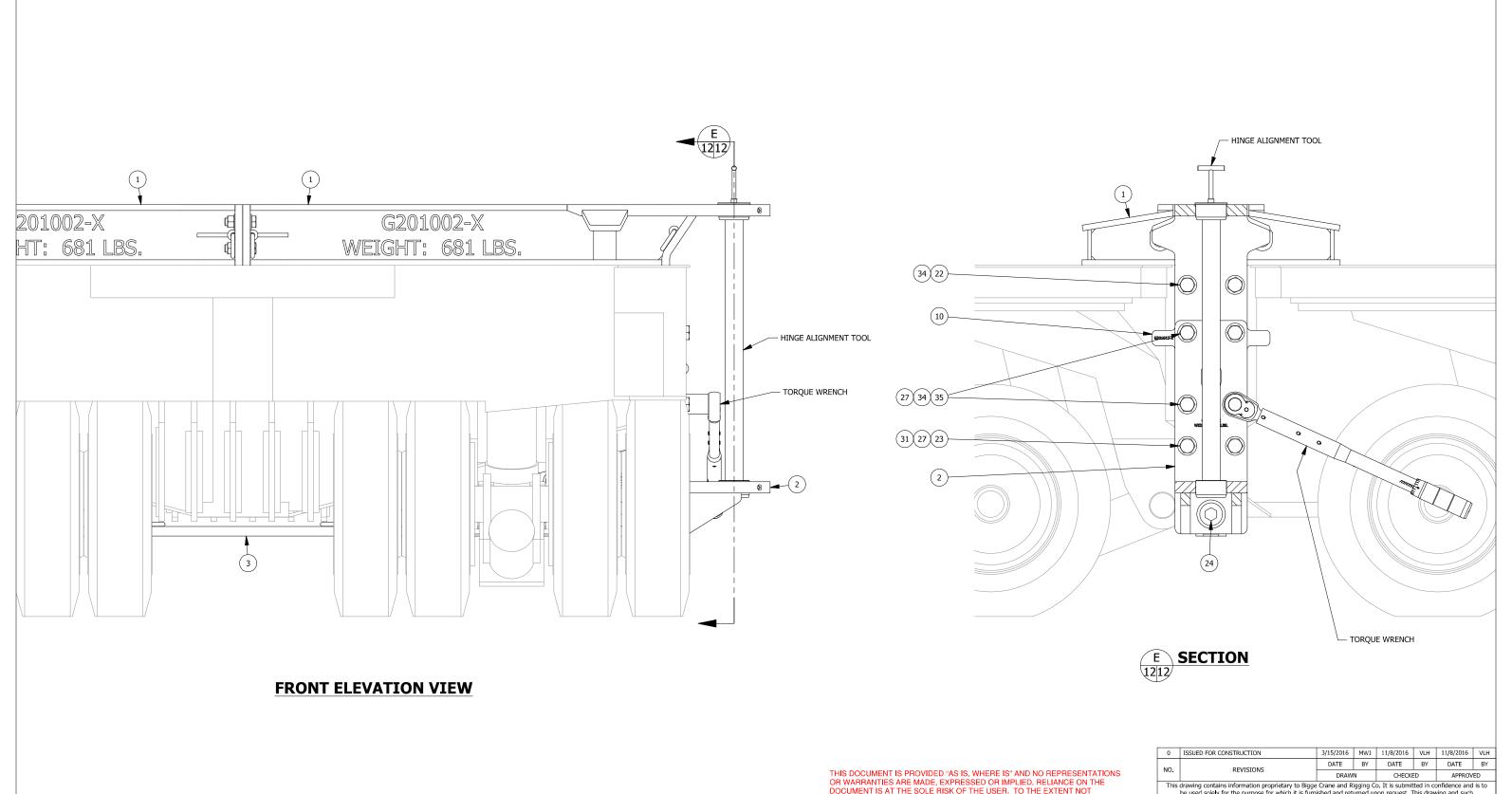
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ISOMETRIC VIEW - HINGE ALIGNMENT TOOL INSTALL G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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ORTHO & SECTION VIEWS - HINGE ALIGNMENT TOOL INSTALL G201022 - SWING TYPE OUTRIGGER ASSEMBLY 2 FILE TRAILER CONFIGURATION

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