

- NOTES
- 1) FLUID IS TBD
  - 2) PREFILL PISTON PUMP WITH NEW CLEAN HYDRAULIC HAVING A VISCOSITY OF 150SSU @100 DEG F PRIOR TO START
  - 3) REFERENCE SCHEMATIC SEE DWG#511H02 SH2 OF 2

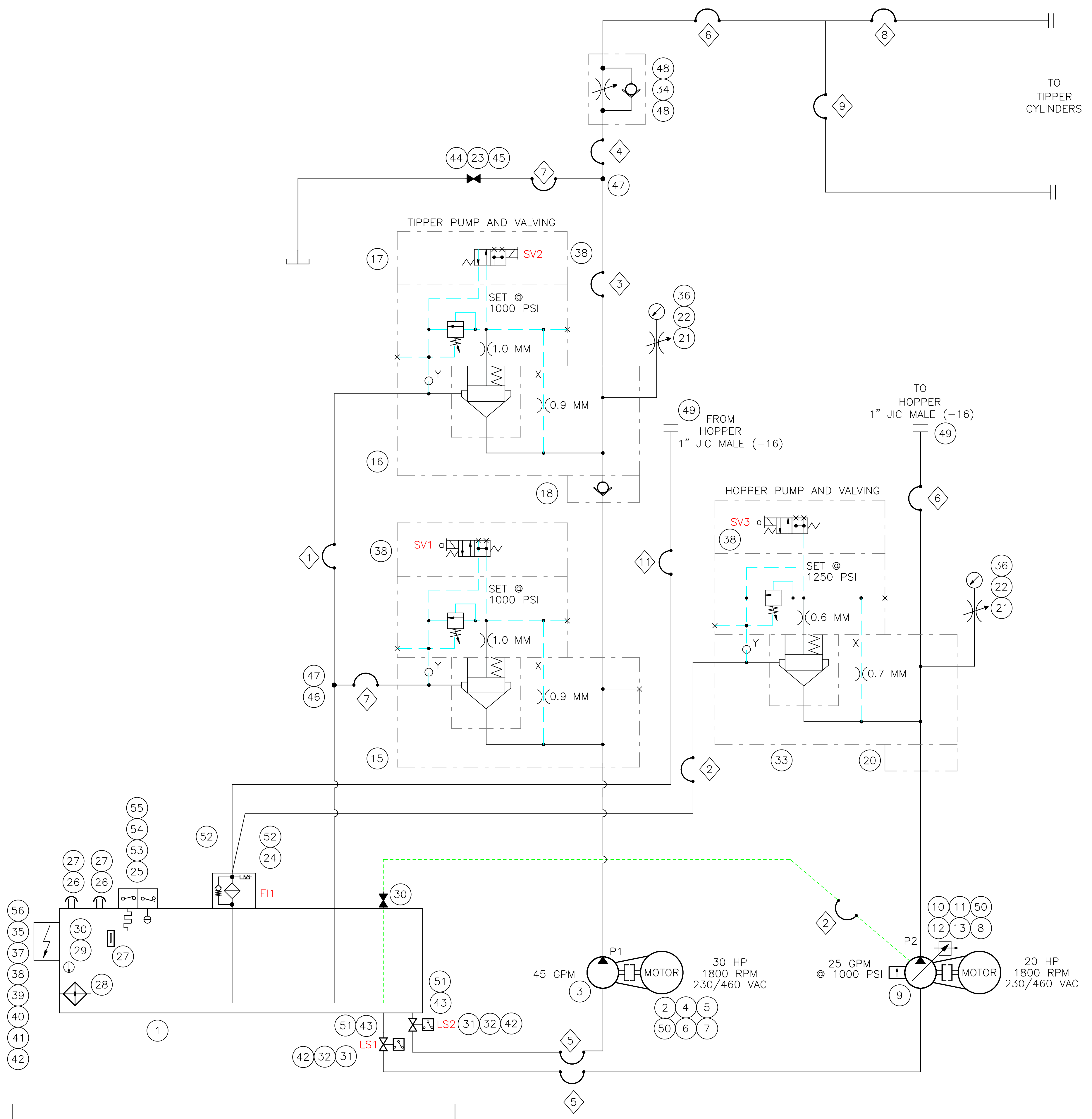
NOTES:

Unless otherwise noted, the following shall apply:

1. All hardware is to be minimum grade 5 and zinc plated.
2. Paint is to be Intercoat Inc-paint epoxy with minimum 6 mil DFT.
3. Surface prep to be SSPC-SP10.
4. All welds and corners are to be spot primed.

0.0	0.03	L	0.03
0.00	0.015	//	0.03
0.000	0.005	∠	0.03
x/x	1/32	-	0.03
⊕	0.03	L	0.03

REVISIONS		
The information contained herein is confidential and the property of AFS Technology, LLC. It is not intended for any publication and is issued with the understanding that no part thereof shall be communicated to a third party without written authorization from AFS Technology, LLC.		
		4060 Gibson Drive Tipp City, Ohio 45371 USA Phone: 937 669 3548 Fax: 937 300 3404 www.afstechnology.com
<b>TITLE</b> OKLAHOMA TIRE FEED SYSTEM TIPPER AND HOPPER HYDRAULIC PUMP SYSTEM ASSEMBLY		
<b>DRAWN BY</b> JT	<b>SCALE</b> NONE	<b>DATE</b> 2017-FEB-22
<b>CHECKED BY</b>	<b>APPROVED</b>	<b>PROJECT#</b>
<b>DWG. NO.</b> 1619HY-02	<b>SHEET NO.</b> OF	



MATERIALS			
MARK	QTY.	DESCRIPTION	MANUFACTURER
1	1	RESERVOIR 400 GALLONS	HAYS ENGINEERING 17-400-AFS
2	1	ELECTRIC MOTOR	WORLDWIDE WVE30-18-286TC
-	-	30 HP, 1800 RPM, TEFC, 286TC, 230/460/3/60	
3	1	VANE PUMP	VICKERS 35V30A1C22R
4	1	C-FACE ADAPTOR	MAGNALOY M284862C
5	1	COUPLING HALF	GRAINGER 29HY66
6	1	COUPLING HALF	GRAINGER 29HY62
7	1	INSERT	GRAINGER 29HZ19
8	1	ELECTRIC MOTOR	WORLDWIDE WVE20-18-256TC
-	-	20 HP, 1800 RPM, TEFC, 256TC, 230/460/3/60	
9	1	PISTON PUMP	VICKERS PVM063ER09E502AAA2100000A0A
10	1	C-FACE ADAPTOR	MAGNALOY M182682C
11	1	COUPLING HALF	GRAINGER 29HY54
12	1	COUPLING HALF	GRAINGER 29HY51
13	1	COUPLING INSERT	GRAINGER 29HZ13
15	1	FLANGE RELIEF VALVE	VICKERS CPF2S10BW3SMUB520
16	1	FLANGE RELIEF VALVE	VICKERS CPF2S10BW3SMFWLB520-EN417
18	1	FLANGE CHECK VALVE	VICKERS DCIPFS10
20	1	FLANGE SPACER	ANCHOR FLUID PWR AS-16-GP
21	2	GAUGE ISOLATOR	DMIC DMGV-SM
22	2	PRESSURE GAUGE (0-3000 PSI)	GRAINGER 19R224
23	1	BALL VALVE	ANCHOR AB2S#20-11DB
24	1	RETURN FILTER	LRT LRT18LZ10S16S16NY2
25	1	TEMP/LEVEL SWITCH	ACT B4030AFD2C605
26.1	2	BREATHER	VICKERS BR110
26.2	2	BREATHER ADAPTER	DONALDSON P173545
27	1	LEVEL GAUGE	MCMMASTER CARR 1106K83
28	1	IMMERSION HEATER	MCMMASTER CARR 3656K323
29.1	1	THERMOMETER	MCMMASTER CARR 3949K14
29.2	1	IMMERSION WELL	MCMMASTER CARR 3957K37
30	1	BALL VALVE	DMIC BVAL-0750N-4321
31	2	BALL VALVE	DMIC BVAL-2000S-4321CEZN
32	2	LIMIT SWITCH	DMIC DM10166
33	1	FLANGE RELIEF VALVE	VICKERS CPF2S08BW3SMUB520
34	1	FLOW CONTROL VALVE	DMIC FC1H-1250S
35	1	ELECTRICAL ENCLOSURE	HOFFMAN A1210CHNF
36	2	#4 SAE F TO #6 SAE M	GRAINGER 4VRZ7
37	20	LIQUID TITE FLEX CONN	MCMMASTER CARR 7514K33
38	2	LIQUID TITE ELBOW 90°	MCMMASTER CARR 75145K83
39	3	CONDUIT ACCESS TEES	MCMMASTER CARR 7153K82
40	50	3/4" FLEX CONDUIT FEET	MCMMASTER CARR 7581K43
42	2	2" JICM X 2" ORBM	PARKER 32 F50X-S
43	2	2" JICM X 2" JICM BLKHD	PARKER 32 WTX-WLN-S
44	1	1.25 NPTM X #20 SAE ORBM	PARKER 20-1 1/4 F50F-S
45	1	#20 SAE ORBM X #20 JICM 90°	PARKER 20 C50X-S
46	1	1.25 NPTF X #20 JICF	PARKER 20 G6X-S
47	2	#20 JIC M-M TEE	PARKER 20 JTX-S
48	2	#20 SAE ORBM X #20 JICM	PARKER 20 F50X-S
49	2	1" NPTM X -16 JICM	PARKER 16 FTX-S
50	1	1/4 X 5/16 KEYSTOCK	GRAINGER 5WA66
51	2	O RING -32 SAE ORB	PARKER 3-932 NBR
52	1	1" JICM X 1-1/2" ORBM	PARKER 16-24 F50X-S
53	1	24" LONG SCH 40 1/2" PIPE	MCMMASTER CARR 4457K31
54	1	BUSHING, 3/4 NPT TO 1/2 NPT	MCMMASTER CARR 44605K346
55	1	ELBOW 1/2 NPT TO 3/4 NPT	MCMMASTER CARR 44605K572
56	2	TERMINAL STRIPS	MCMMASTER CARR 9130K48

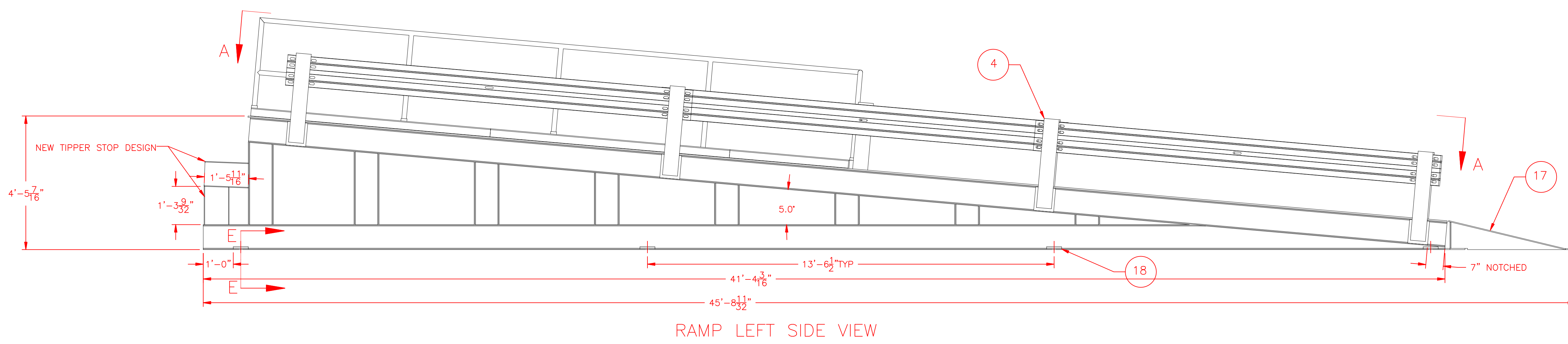
HOSE DETAIL:		PARKER HYDRAULICS NUMBERS			
#	HOSE DESCRIPTION	FITTING #1	FITTING #2	DAL	QTY
1	1-1/4" RETURN, -20 SAE 61 90° X -20 JICF SWIVEL	11943-20-20	10643-20-20	60"	1
2	1-1/4" RETURN, -16 SAE 61 90° X -16 JICF SWIVEL	11943-16-16	10643-16-16	78"	1
3	1-1/4" PRESSURE, -20 SAE 61 90° X -20 JICF SWIVEL	11943-20-20	10643-20-20	48"	1
4	1-1/4" PRESSURE, -20 JICF SWIVEL X -20 JICF SWIVEL	10643-20-20	10643-20-20	48"	1
5	2" SUCTION, -32 JICF SWIVEL X -32 SAE 61 90°	10643-32-32	11943-32-32	48"	2
6	1-1/4" PRESSURE, -20 JICF SWIVEL X -20 JICF SWIVEL	10643-20-20	10643-20-20	60"	1
7	1-1/4" RETURN, -20 JICF SWIVEL X -20 JICF SWIVEL	10643-20-20	10643-20-20	48"	1
8	1" PRESSURE, -20 JICF SWIVEL X -16 SAE 61 90°	10643-20-16	11943-16-16	108"	2
9	3/4" RETURN, -12 SAE ORBM SWIVEL X 3/4" NPT M SWIVEL	10643-12-12	11343-12-12	80"	1
10	1" RETURN, 1" NPT M SWIVEL X -16 JICF SWIVEL	11343-16-16	10643-16-16	360"	1
11	1" PRESSURE, 1" NPT M SWIVEL X -16 JICF SWIVEL	11343-16-16	10643-16-16	420"	1

- NOTES
- PART NUMBERS SHOWN PROVIDE BASIS FOR DESIGN. EQUIPMENT SUPPLIED SHALL BE AS SHOWN OR APPROVED EQUAL.
  - CIRCUIT CONNECTIONS SHALL BE AS SHOWN AND SUPPORTED INDEPENDENTLY OF COMPONENT PORTS. PROVIDE HOSES AS STRAIN RELIEF BETWEEN CIRCUIT CONNECTIONS AND HPU COMPONENTS.
  - SUMP HEATER SHALL BE SIZED TO MAINTAIN 70°F OIL TEMPERATURE AT 0°F AMBIENT TEMPERATURE. HEATER ELECTRICAL SUPPLY IS 460 VAC, 3Ø.
  - TANK VOLUME SHALL PERMIT CONTINUOUS OPERATION AT 100°F AMBIENT TEMPERATURE, EXCLUDING TIPPER OPERATION AND ASSUMING A 25% LIVE BOTTOM FLOOR DUTY CYCLE. ADD 100 GALLON CAPACITY TO ACCOMMODATE TIPPER DRAWDOWN.
  - TANK BREATHERS TO BE DESECCATING TYPE BREATHERS SUITABLE FOR OUTDOOR INSTALLATION AND SIZED TO PERMIT TIPPER DRAWDOWN AND OIL EXPANSION AND CONTRACTION.

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<b>TITLE</b> OKLAHOMA TIRE FEED SYSTEM TIPPER AND HOPPER HYDRAULIC PUMP SYSTEM SCHEMATIC		
<b>DRAWN BY</b> JT	<b>SCALE</b> NONE	<b>DATE</b> 2017-FEB-22
<b>CHECKED BY</b>	<b>APPROVED</b>	<b>PROJECT#</b>
<b>DWG. NO.</b> 1619HY-01		<b>SHEET NO.</b> OF

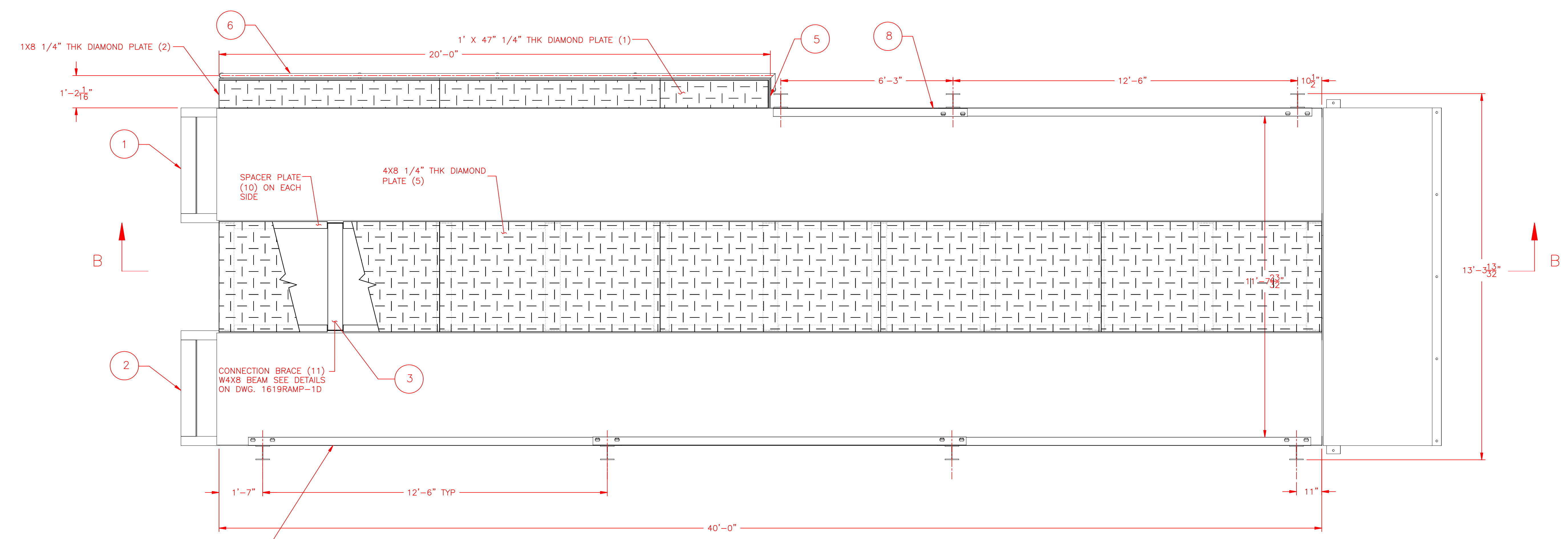
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x/x	1/2	-	0.03
⊙	0.03	Z	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 and zinc plated.  
 2. Paint is to be Inland two-part epoxy with minimum 6 mil DFT.  
 3. Surface prep to be SSPC-SP10.  
 4. All welds and corners are to be spot primed.



RAMP LEFT SIDE VIEW

E



STRAIGHT ON VIEW  
A-A

ITEM	QTY	DESCRIPTION	DWG. NO.
1	1	RAMP A WELDMENT	1619RAMP-1A
2	1	RAMP B WELDMENT	1619RAMP-1A
3	11	CONNECTION BRACE	1619RAMP-1D
4	7	GUARD RAIL SUPPORT	1619RAMP-1E
5	1	RAMP WALKWAY FRAME WELDMENTS	1619RAMP-1J
6	1	RAMP WALKWAY HANDRAILS	1619RAMP-1K
7	4	12 GAUGE "W" BEAM GUARDRAILS (12'-6")	1619RAMP-1K
8	1	12 GAUGE "W" BEAM GUARDRAILS (6'-3")	
9	2	FLARED END SECTION	
10	66	5/8-11 X 1 3/4 HEX HEAD BOLT	
11	132	5/8 FLAT WASHER	
12	66	5/8 LOCK WASHER	
13	42	1/2-13 X 1 3/4" HEX HEAD BOLT	
14	84	1/2" FLAT WASHER	
15	42	1/2" LOCK WASHER	
16	42	1/2-13 HEX NUT	
17	1	SMALL RAMP WELDMENT	1619RAMP-1L
18	16	ANCHOR PAD	1619RAMP-1F
19			
20			
21			

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0.000	0.005	∠	0.03
x/x	1/32	—	0.03
⊕	0.03	∠	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 steel zinc plated.  
 2. Paint is to be Intercoat low-solvent epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP11.  
 4. All welds and corners are to be spot primed.

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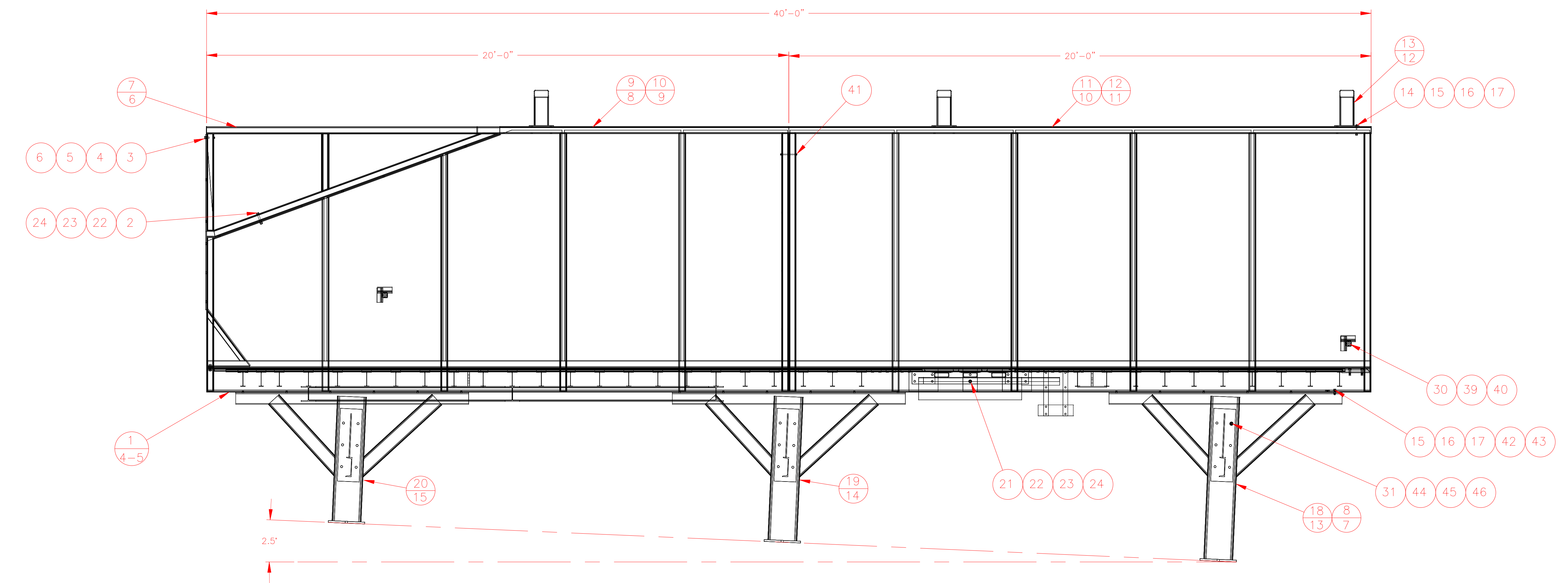
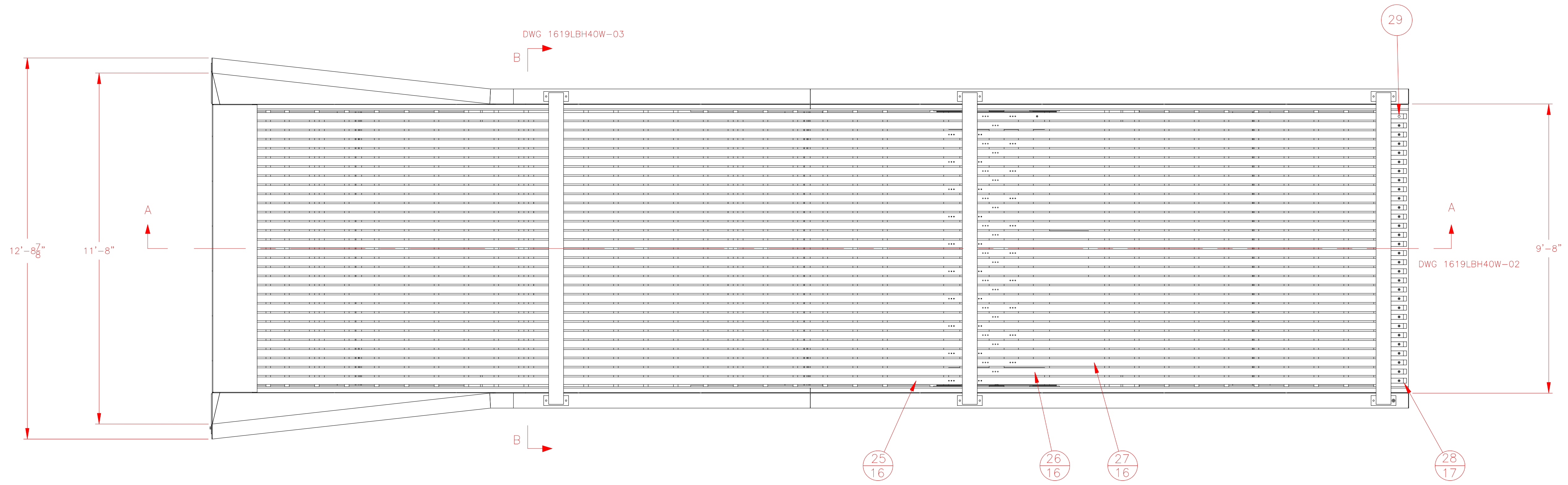
**AFS technology**  
 Alternative fuel systems engineered for cement kilns

4060 Gibson Drive  
 Tipp City, Ohio 45371 USA  
 Phone: 937 669 3548  
 Fax: 937 669 3548  
 www.afstechnology.com

TITLE  
 OKLAHOMA TIRE RECYCLER  
 TIRE SYSTEM  
 RAMP

DRAWN BY SW	SCALE 1/2"=1'-0"	DATE 2016-NOV-14
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619RAMP-1A SHEET NO. 01 OF 11



ITEM	QTY	DESCRIPTION	MATERIAL
1	1	HOPPER FLOOR WELDMENT	WELDMENT
2	14	5/8-11 X 4 1/2" HHCS	-
3	12	3/8-16 X 4" HHCS	-
4	20	3/8" WASHER	-
5	20	3/8" LOCK WASHER	-
6	20	3/8-16 HEX NUT	-
7	1LH 1RH	ENTRY PANEL	WELDMENT
8	3	LEG CROSS BRACE	WELDMENT
9	1	LEFT SIDE ANGLED WALL	WELDMENT
10	1	RIGHT SIDE ANGLED WALL	WELDMENT
11	1	LEFT SIDE WALL	WELDMENT
12	1	RIGHT SIDE WALL	WELDMENT
13	3	TOP CROSS BAR	WELDMENT
14	12	1/2-13 X 4 1/4" HHCS	-
15	48	1/2" WASHER	-
16	48	1/2" LOCK WASHER	-
17	48	1/2-13 HEX NUT	-
18	1LH 1RH	LONG LEG	WELDMENT
19	1LH 1RH	MEDIUM LEG	WELDMENT
20	1LH 1RH	SHORT LEG	WELDMENT
21	20	5/8-11 X 1 1/2" HHCS	-
22	37	5/8" WASHER	-
23	37	5/8" LOCK WASHER	-
24	37	5/8-11 HEX NUT	-
25	1	SLAT NO. 3	SEE DETAIL
26	1	SLAT NO. 2	SEE DETAIL
27	1	SLAT NO. 1	SEE DETAIL
28	30	REAR SUPPORT BLOCK	SEE DETAIL
29	60	3/8-16 X 2" HHCS	-
30	4	STAUFF MOUNTING BRACKET	#SM4300PPDPAS
31	36	3/4-10 X 1 3/4" HHCS	-
32	4	4 HOLE HALLCO SHIM PLATE	SEE DETAIL
33	2	2 HOLE HALLCO SHIM PLATE	SEE DETAIL
34	1	HALLCO MODIFICATIONS PUR/ALTER	32 110 J 6 D 20 N O W X N40
35	1	FRAME SUPPORT	WELDMENT
36	2	SIDE SUPPORT PLATE	SEE DETAIL
37	1	TIRE RAMP	WELDMENT
38	3	5/8-11 X 2 1/2" HHCS	-
39	2	PHOTO ELECTRIC TRANSMITTER	#E5830TS250-GA
40	2	PHOTO ELECTRIC TRANSMITTER	#E5830TS250-GL
41	8	3/8-16 X 6 1/2" HHCS	-
42	36	1/2-13 X 2" HHCS	-
43	36	McMASTERCARR BEVEL WASHER	#91573A035
44	36	3/4" WASHER	-
45	36	3/4" LOCK WASHER	-
46	36	3/4-10 HEX NUT	-

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0.000	0.005	∠	0.03
x/x	1/32	—	0.03
⊙	0.03	Z	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 zinc plated.  
 2. Paint is to be Inland low-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP10.  
 4. All welds and corners are to be spot primed.

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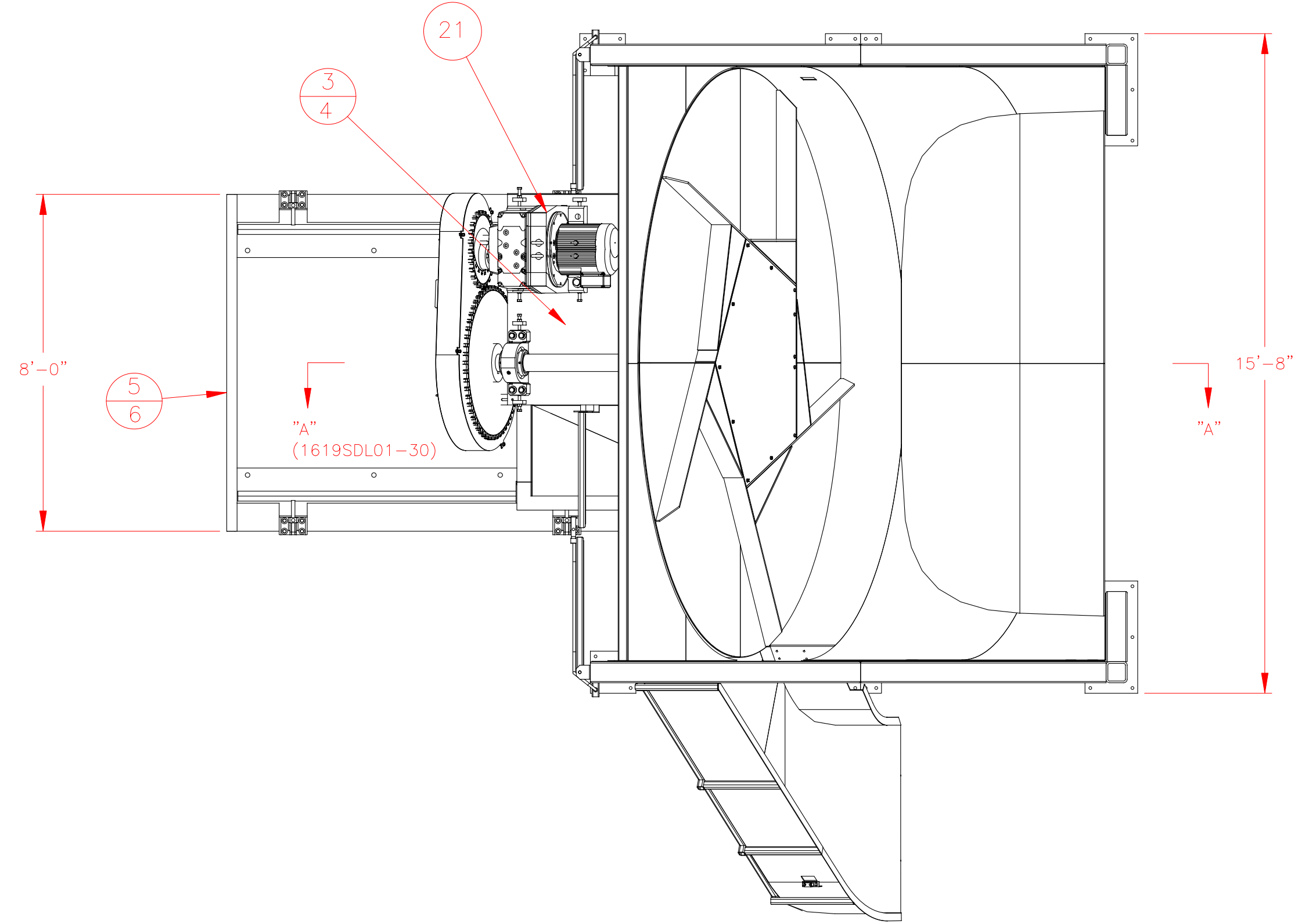
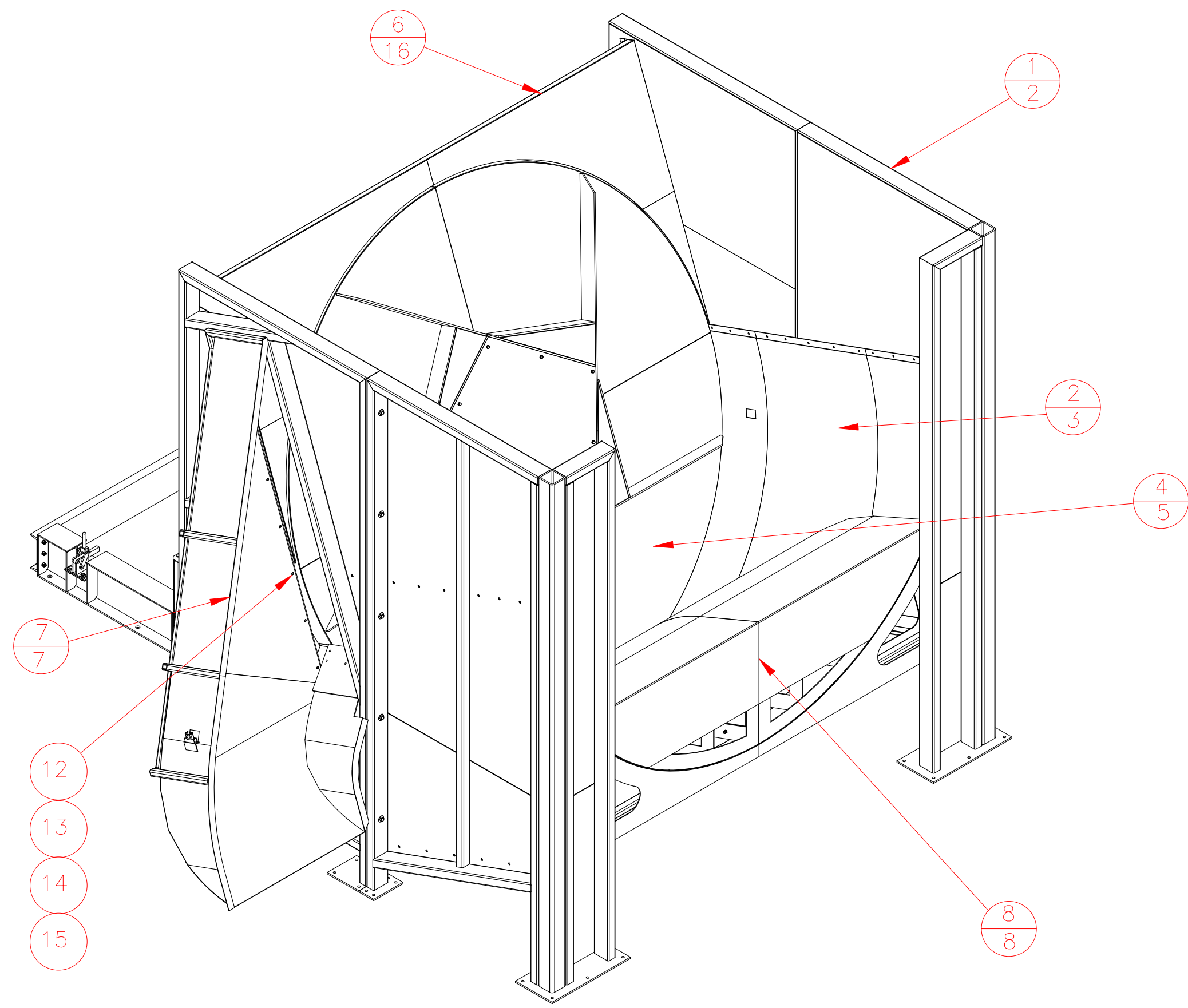
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 www.afstechnology.com

TITLE  
 OKLAHOMA TIRE SYSTEM  
 LIVE BOTTOM HOPPER  
 MAIN ASSEMBLY

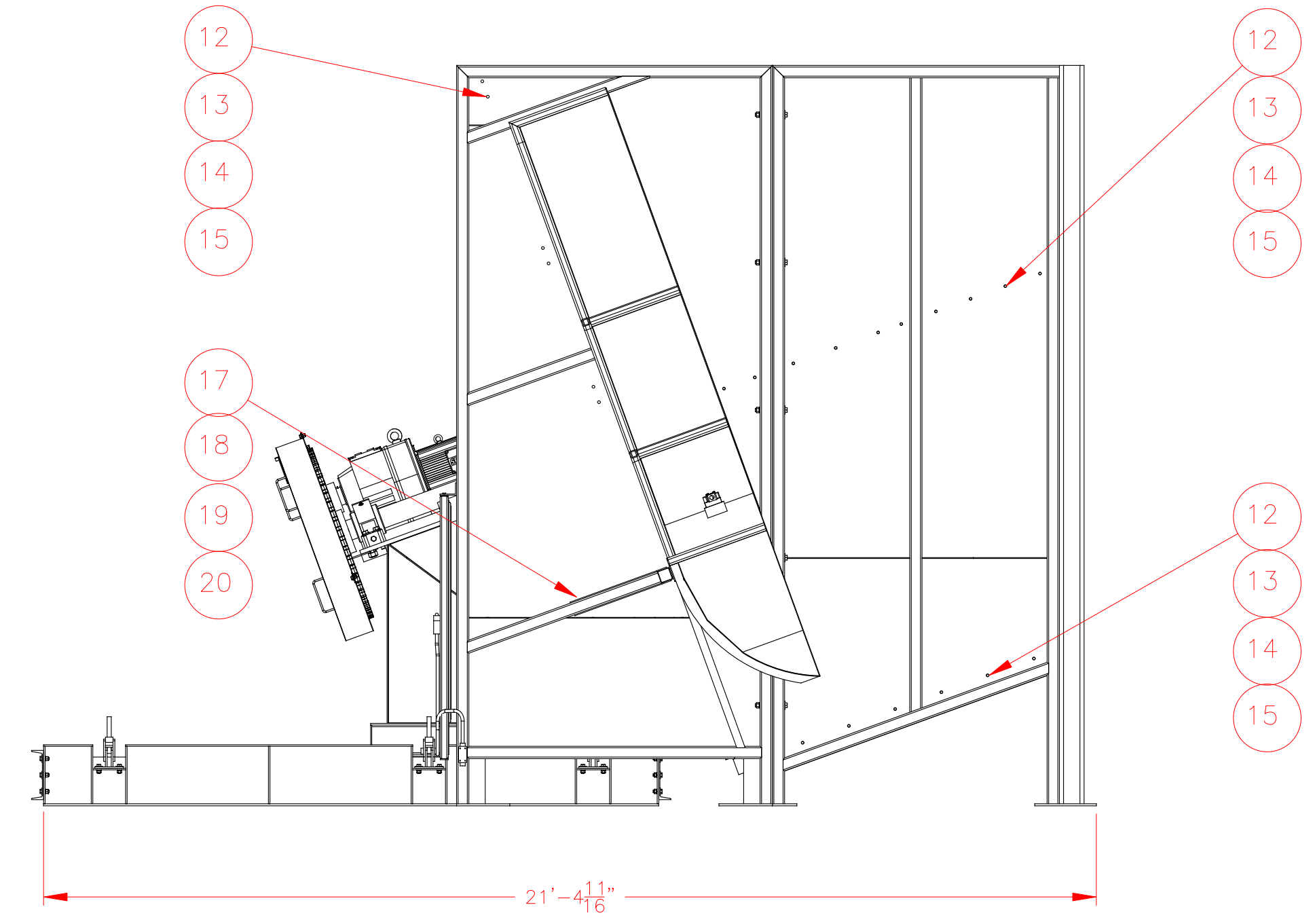
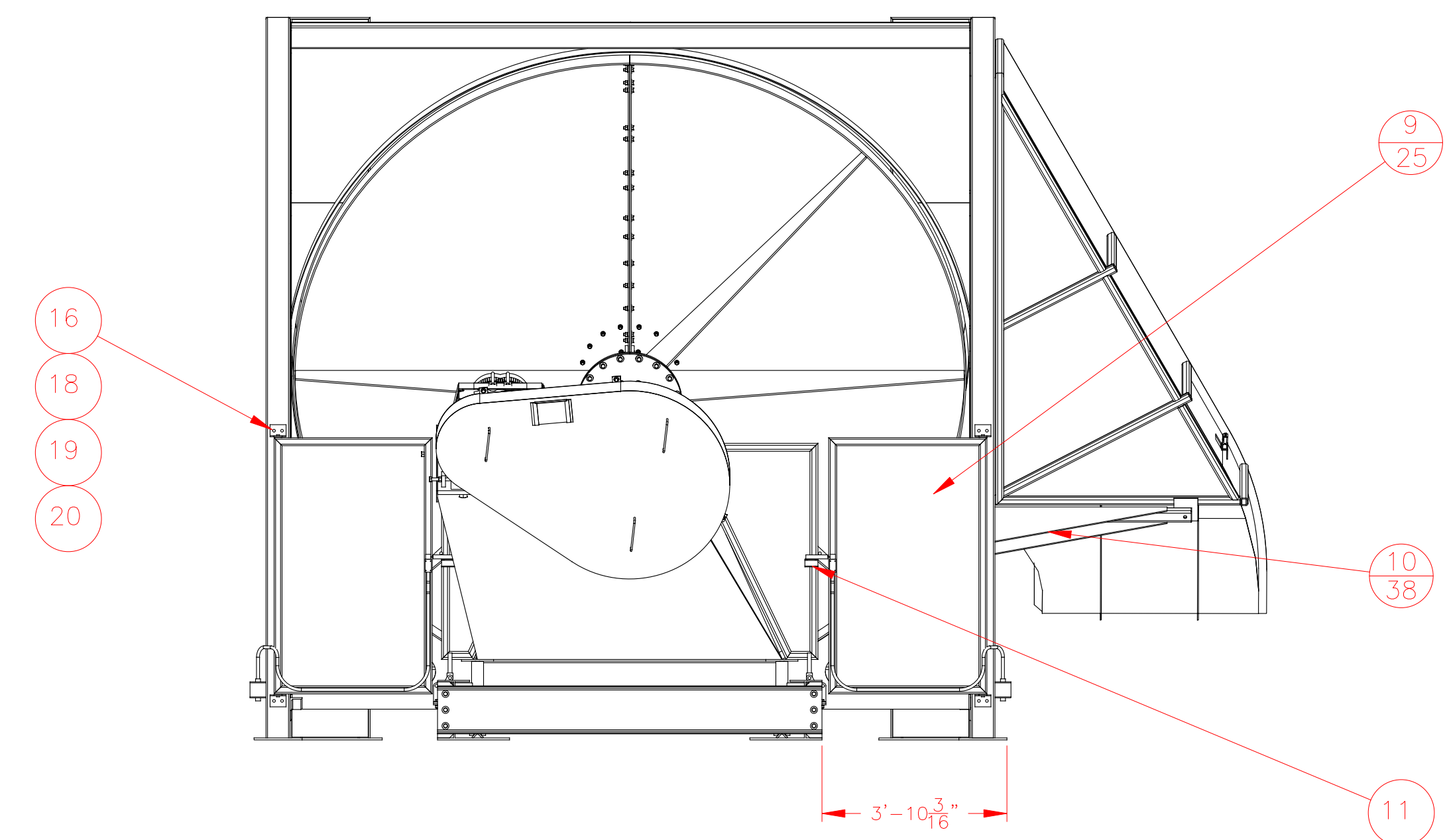
DRAWN BY: MR  
 SCALE: 1/2" = 1'-0"  
 DATE: 2016-OCT-25

CHECKED BY: APPROVED  
 PROJECT#

DWG. NO. 1619LBH40W-01  
 SHEET NO. 01 OF 22



ITEM	QTY	DESCRIPTION	DWG. NO.
1	1	SEPARATOR WALL ASSEMBLY	1620SDR01-2
2	1	SEPARATOR BOTTOM RADIUS	1620SDR01-3
3	1	SEPARATOR BASE ASSEMBLY	1620SDR01-4
4	1	SEPARATOR DISK ASSEMBLY	1620SDR01-5
5	1	SEPARATOR BASE TRACK ASSEMBLY	1620SDR01-6
6	1	DISCHARGE CHUTE WELDMENT	1620SDR01-7
7	1	SEPARATOR TRANSITION RAMP ASSEMBLY	1620SDR01-8
8	1	SEPARATOR TOP RADIUS	1620SDR01-16
9	2	SAFETY GATE	1620SDR01-24
10	1	CHUTE SUPPORT ARM	1620SDR01-37
11	2	SAFETY SWITCH	
12	59	1/2-13 x 1 1/2" HEX HEAD BOLT	
13	59	1/2" FLAT WASHER	
14	59	1/2" LOCK WASHER	
15	59	1/2-13 HEX NUT	
16	8	5/8-11 x 4 1/2" HEX HEAD BOLT	
17	4	5/8-11 x 5" HEX HEAD BOLT	
18	12	5/8" FLAT WASHER	
19	12	5/8" LOCK WASHER	
20	12	5/8-11 HEX NUT	
21	1	SEW EURODRIVE IN-LINE HELICAL GEARMOTOR 10 HP, 480 VAC, 3 PH, 60 HZ, 9.2 RPM OUTPUT, 188.45:1, 3 5/8" SHAFT	R137DV132M4



DET SEPARATOR  
SHT REQ'D - 1

SCALE	TOLERANCE	FINISH	OTHER
0.0	0.03	∟	0.03
0.00	0.015	//	0.03
0.000	0.005	∠	0.03
x/x	1/32	—	0.03
⊕	0.03	z	0.03

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TITLE  
OKLAHOMA TIRE SYSTEM  
SDL1619 TIRE SEPARATOR  
MAIN ASSEMBLY

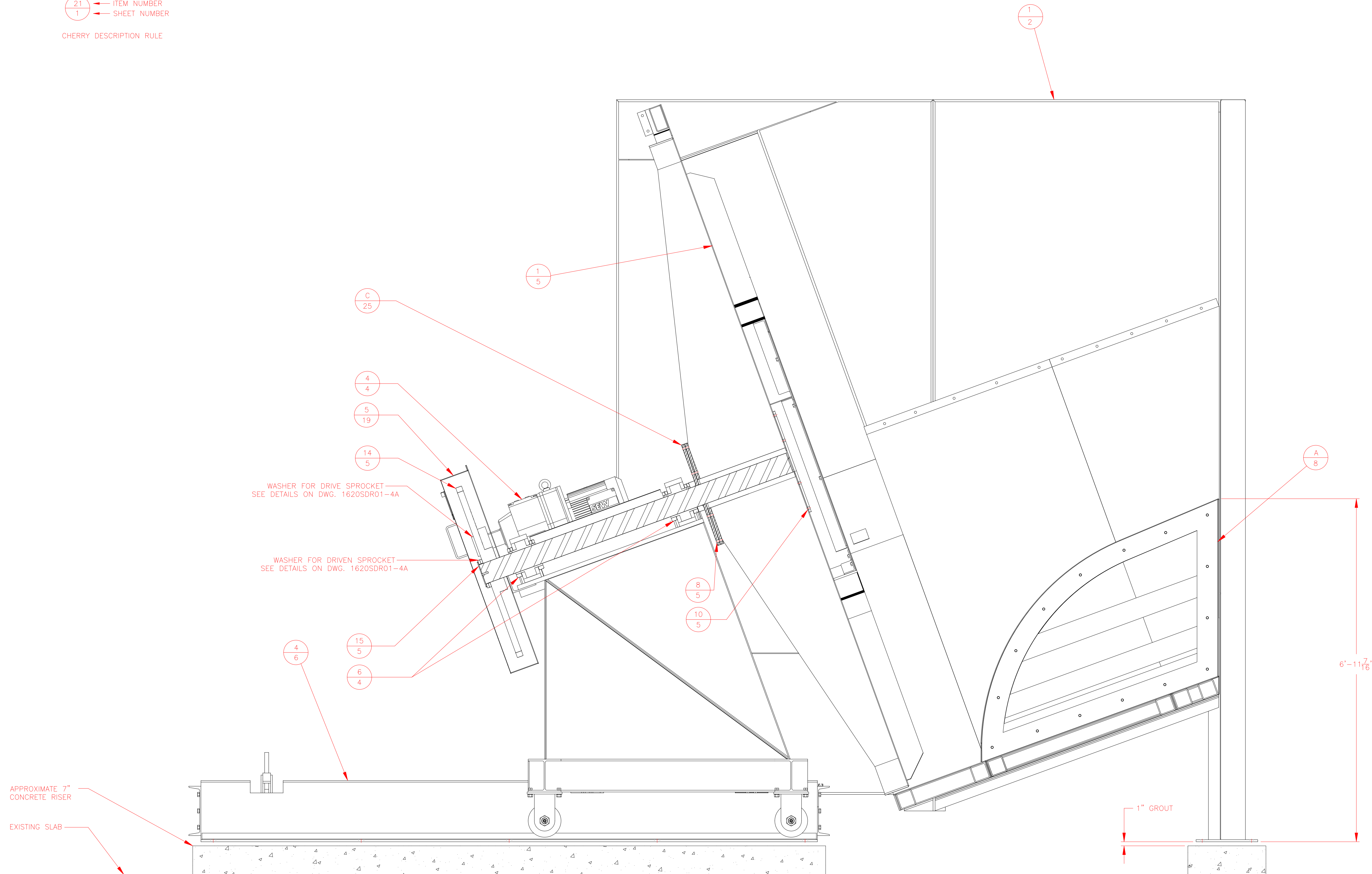
DRAWN BY MR	SCALE 3/8"=1'-0"	DATE 2016-OCT-11
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619SDL01-01 SHEET NO. 01 OF 40

NOTES:  
Unless otherwise noted, the following shall apply:  
1. All hardware is to be minimum grade 5 zinc plated.  
2. Paint is to be Inland low-solvent epoxy with minimum 5 mil DFT.  
3. Surface prep to be SSPC-SP10.  
4. All welds and corners are to be spot primed.

21 1  
ITEM NUMBER  
SHEET NUMBER

CHERRY DESCRIPTION RULE



WASHER FOR DRIVE SPROCKET  
SEE DETAILS ON DWG. 1620SDR01-4A

WASHER FOR DRIVEN SPROCKET  
SEE DETAILS ON DWG. 1620SDR01-4A

APPROXIMATE 7\"/>

EXISTING SLAB

1\"/>

SEPARATOR SECTION VIEW A-A  
FROM 1620SDR01-1A

0.0	0.03	∩	0.03
0.00	0.015	//	0.03
0.000	0.005	∟	0.03
x/x	1/2	—	0.03
⊙	0.03	z	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 zinc plated.  
 2. Paint is to be industrial two-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP10.  
 4. All welds and corners are to be spot primed.

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 Alternative fuel systems engineered for cement kilns

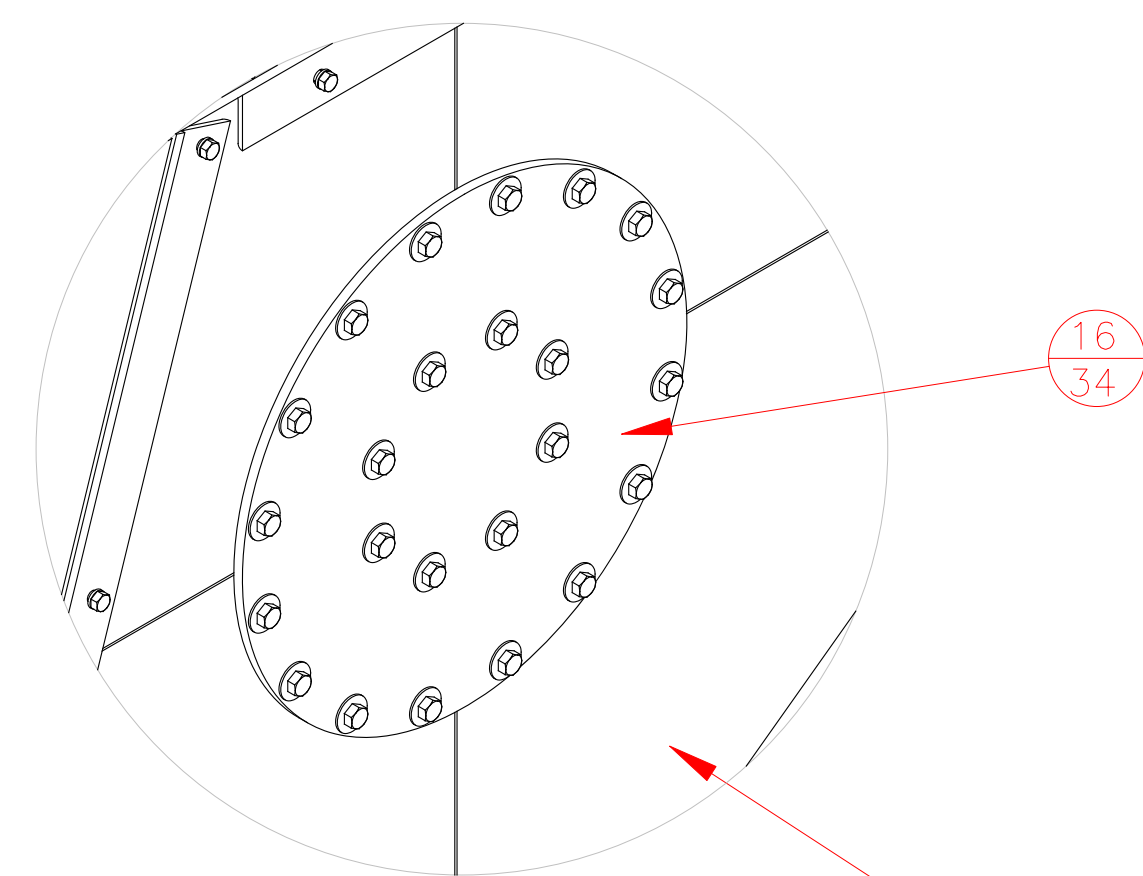
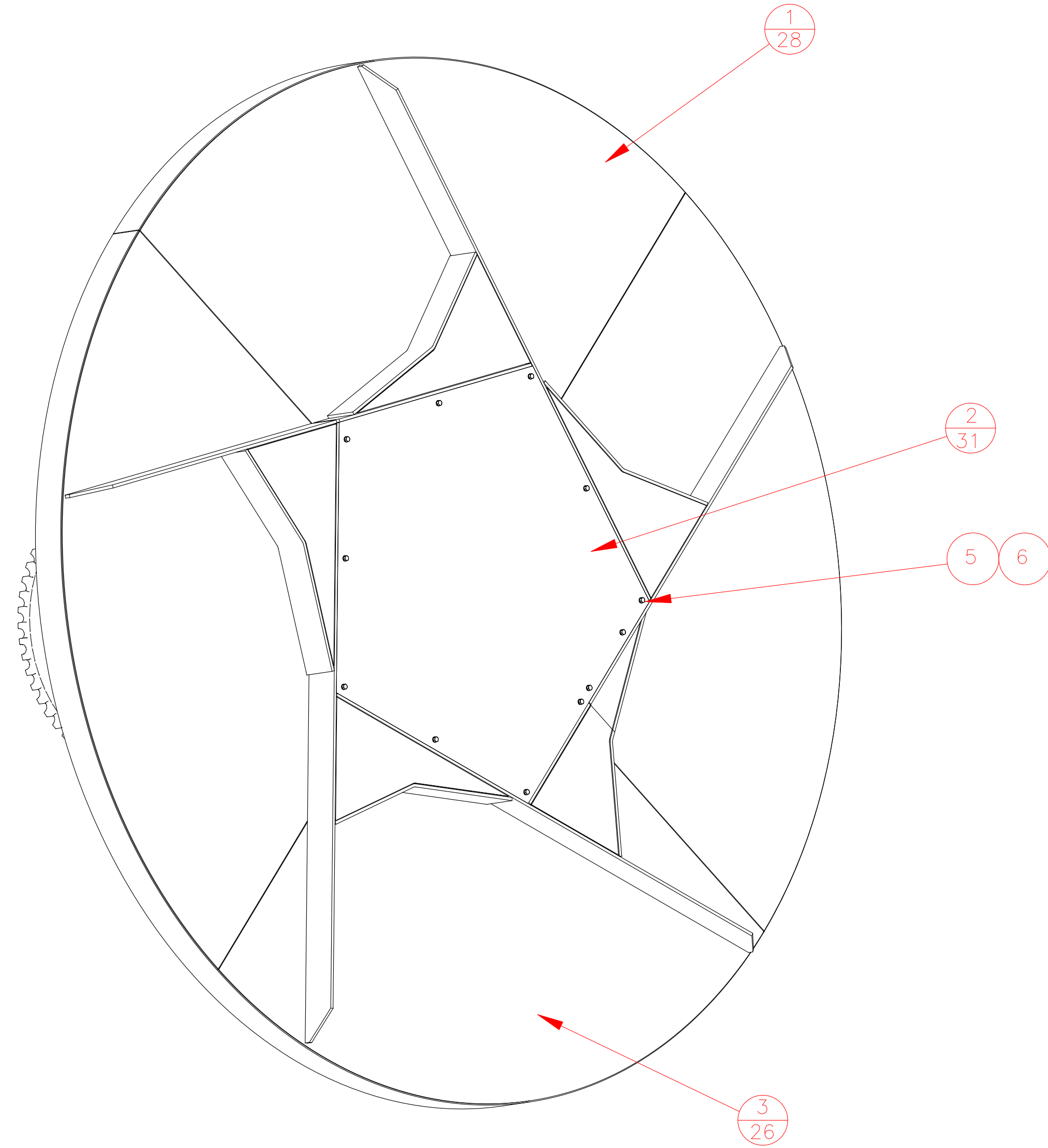
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 Fax: 937 669 3494  
 www.afstechnology.com

TITLE  
 OKLAHOMA TIRE SYSTEM  
 SDL1619 TIRE SEPARATOR  
 SEPARATOR SECTION VIEW

DRAWN BY MR	SCALE 1"=1'-0"	DATE 2016-OCT-11
CHECKED BY	APPROVED	PROJECT#

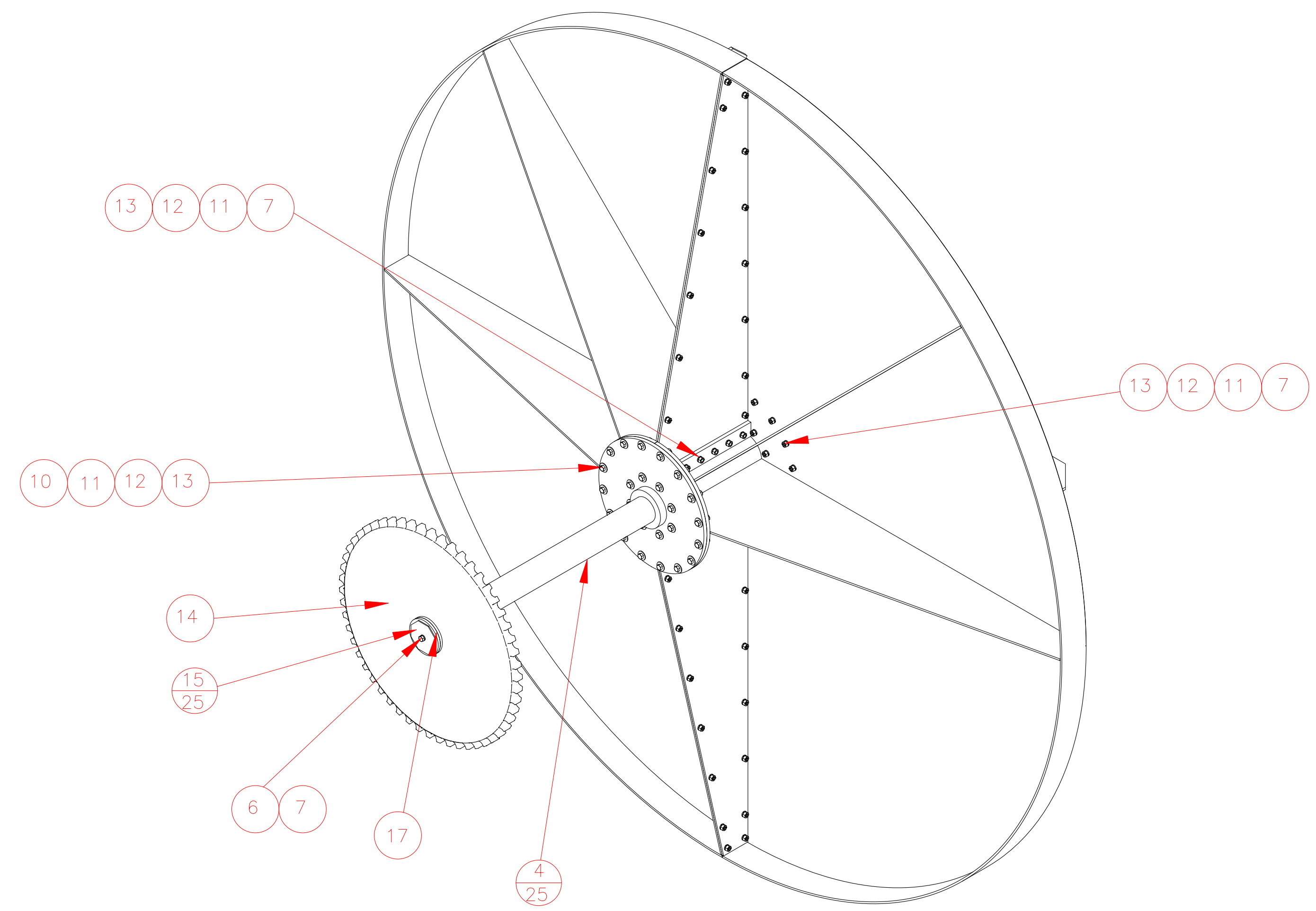
DWG. NO. 1619SDL01-01B	SHEET NO. 30 OF 40
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ITEM	QTY	DESCRIPTION	MATERIAL	SHT
1	1	SEPARATOR DISK HALF LH	HRS	1620SDR01-28
2	1	HUB COVER	HRS	1620SDR01-39
3	1	SEPARATOR DISK HALF RH.	HRS	1620SDR01-26
4	1	SEPARATOR DISK SHAFT	HRS	1620SDR01-25
5	13	1/2-13 x 1 1/2" HEX HEAD BOLT		
6	13	1/2" LOCK WASHER		
7	12	5/8-11 x 3.5" HEX HEAD BOLT		
8	24	5/8-11 x 2" HEX HEAD BOLTS		
9	32	5/8-11 x 2" HEX HEAD BOLTS		
10	24	5/8-11 x 2 1/2" HEX HEAD BOLTS		
11	92	5/8" FLAT WASHER		
12	92	5/8" LOCK WASHER		
13	92	5/8-11 HEX NUT		
14	1	MTO ROLLER CHAIN SPROCKET #200 B54 4-15/16	200M54-415	
15	1	SHAFT CAP	HRS	1620SDR01-25
16	1	DISK JOINER PLATE	HRS	1620SDR01-32
17	2	WASHER FOR DRIVEN SPROCKET	HRS	1620SDR01-4A



HUB COVER REMOVED

DETAIL A  
SCALE 1 : 8



4 DISK ASSEMBLY  
1 REQ'D - 1

FINISH	AS-BUILT	PLACEMENT	REVISION
0.0	0.03	±	0.03
0.00	0.015	//	0.03
0.000	0.005	∠	0.03
x/x	1/2	—	0.03
⊗	0.03	z	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 zinc plated.  
 2. Paint is to be Interlock low-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP13.  
 4. All welds and corners are to be spot primed.

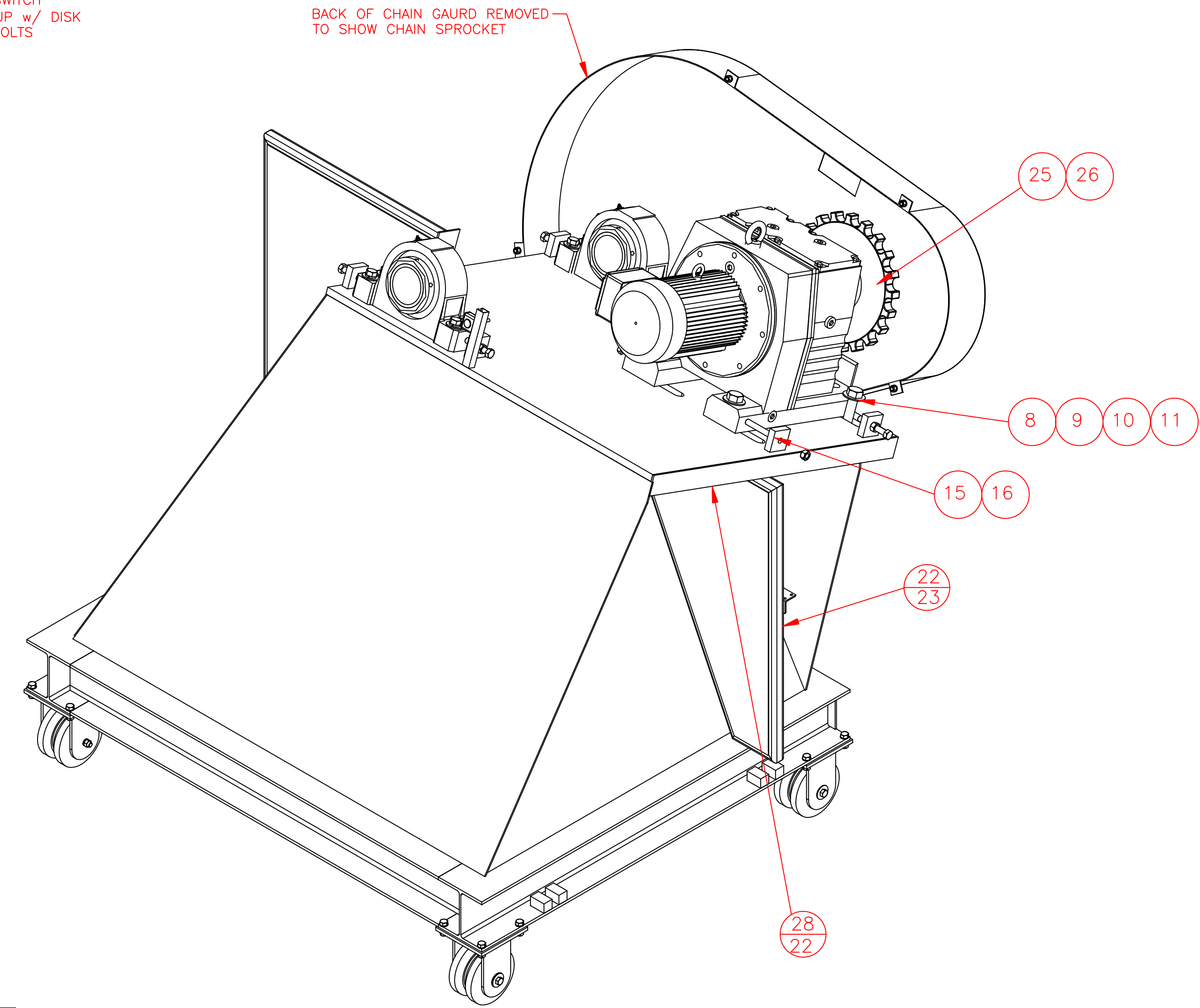
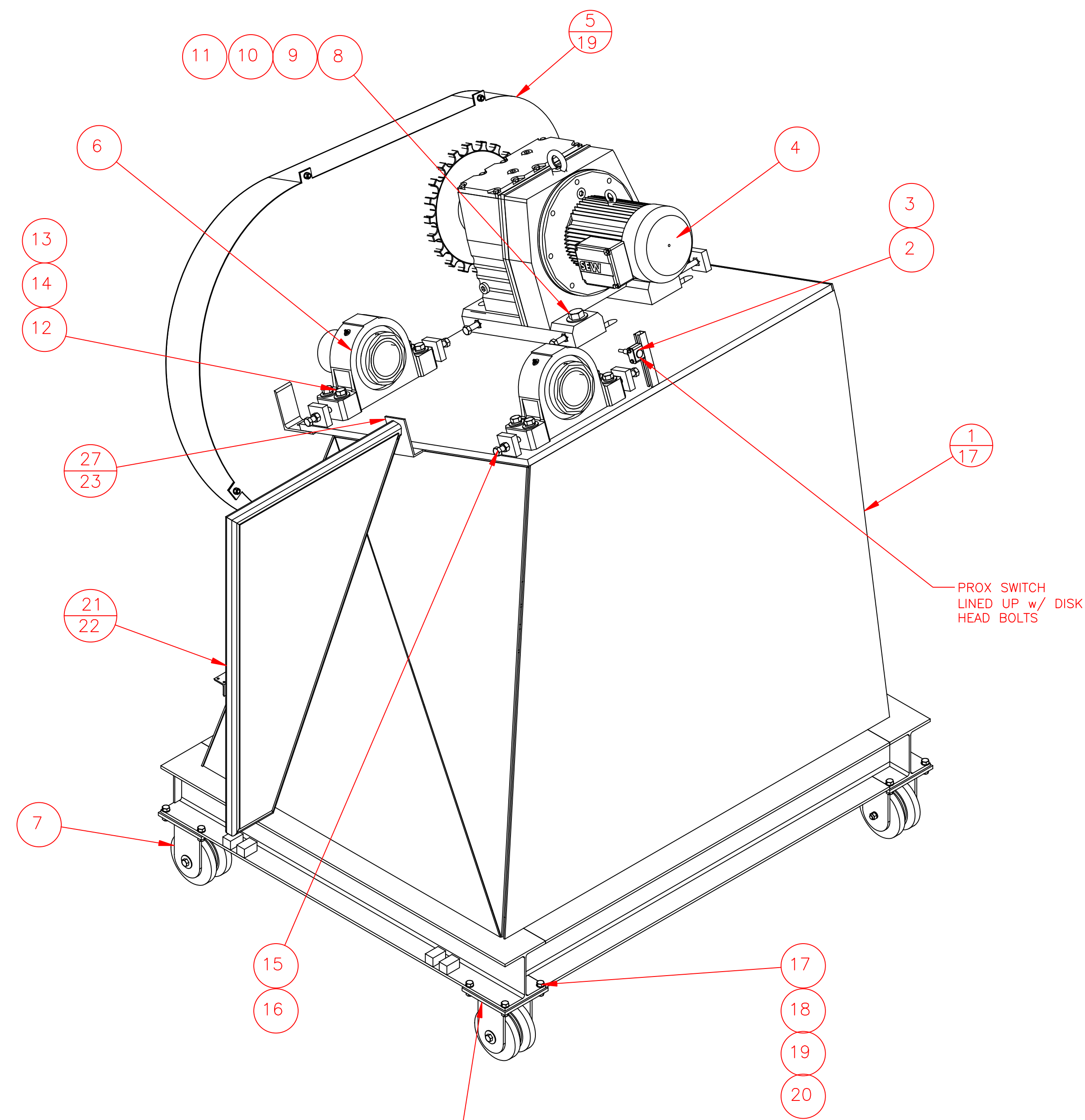
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**AFS** technology  
 Alternative fuel systems engineered for cement kilns  
 4060 Gibson Drive  
 Tipp City, Ohio 45371 USA  
 Phone: 937 669 3548  
 Fax: 938 500 3404  
 www.afstechnology.com

TITLE  
 OKLAHOMA TIRE SYSTEM  
 SDL1619 TIRE SEPARATOR  
 DISK ASSEMBLY

DRAWN BY MR	SCALE 3/4"=1'-0"	DATE 2016-OCT-11
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619SDL01-05 SHEET NO. 05 OF 40



NOTE: CASTERS ARE TO BOLTED TO THE BASE FOR SHIPPING & SET UP. WELDED TO BASE AFTER BASE IS ASSEMBLED AND POSITIONED ON TRACKS AND CASTER ALINGMENT IS VERIFIED.

3 SEPARATOR BASE ASSEMBLY  
1 REQ'D - 1

ITEM	QTY	DESCRIPTION	MATERIAL	SHT
1	1	DISK BASE WELDMENT	HRS	1620SDR01-17
2	1	PROX SWITCH	E-57 LAL30-A2	
3	1	30mm PROX BLOCK	HRS	
4	1	SEW-EURODRIVE	R147DV160M4, 15HP, 460v-60Hz	
5	1	CHAIN GAURD	HRS	1620SDR01-19
6	2	DODGE TAPERED PILLOW BLOCK BEARING	E-415-P4	
7	4	HAMILTON V-GROVE CASTOR	R-MD-84FVH	
8	4	1 1/4-7 X 6" HEX HEAD BOLT		
9	8	1 1/4" WASHER		
10	4	1 1/4" LOCK WASHER		
11	4	1 1/4-7 HEX NUT		
12	8	7/8-9 X 5" HEX HEAD BOLT		
13	8	7/8" WASHER		
14	8	7/8" LOCK WASHER		
15	8	3/4-10 X 5" HEX HEAD BOLT		
16	8	3/4-10 HEX NUT		
17	16	5/8-11 X 1 3/4" HEX HEAD BOLT		
18	16	5/8" WASHER		
19	16	5/8" LOCK WASHER		
20	16	5/8-11 HEX NUT		
21	1	LONG BASE GATE	HRS	1620SDR01-22
22	1	SHORT BASE GATE	HRS	1620SDR01-23
23	2	1/2-13 X 1" HEX BOLT		
24	2	1/2" LOCK WASHER		
25	1	DRIVE SPROCKET, 21-TOOTH, C-TYPE, QD HUB 3 5/8" BORE W/KW & SS	200M21-358	
26	1	TSUBAKI ROLLER CHAIN #200 RIV x 68PTS.	HRS	
27	1	LONG GATE CLIP	HRS	1620SDR01-22
28	1	SHORT GATE CLIP	HRS	1620SDR01-22

PAINT SPEC: Finish paint to be minimum 6 mils DFT of International Protective Coatings Interseal 670HS two part epoxy in color Haze Grey. All steel surface prep to be SSPC.SP6

NOTE:  
1. ALL FASTENERS TO BE GRADE 8 YELLOW ZINC PLATED UNLESS OTHERWISE NOTED.

FABRICATION NOTES:  
1) LOCATE & WELD BASE GATES (21 & 22) TO WIDE FLANGE BEAMS OF BASE ASSEMBLY.  
2) LOCATE & WELD CLIP ANGLES TO BASE ASSEMBLY & BASE GATES.  
3) LINE-UP LATCH ANGLE WITH SAFETY GATE LATCH. WELD LATCH ANGLE TO BASE GATE.

FINISH	RA	MAX	MIN	UNIT
AS-BUILT	0.00	0.03	∞	0.03
1	0.00	0.015	//	0.03
2	0.000	0.005	∞	0.03
3	x/y	1/32	∞	0.03
4	∅	0.03	∞	0.03

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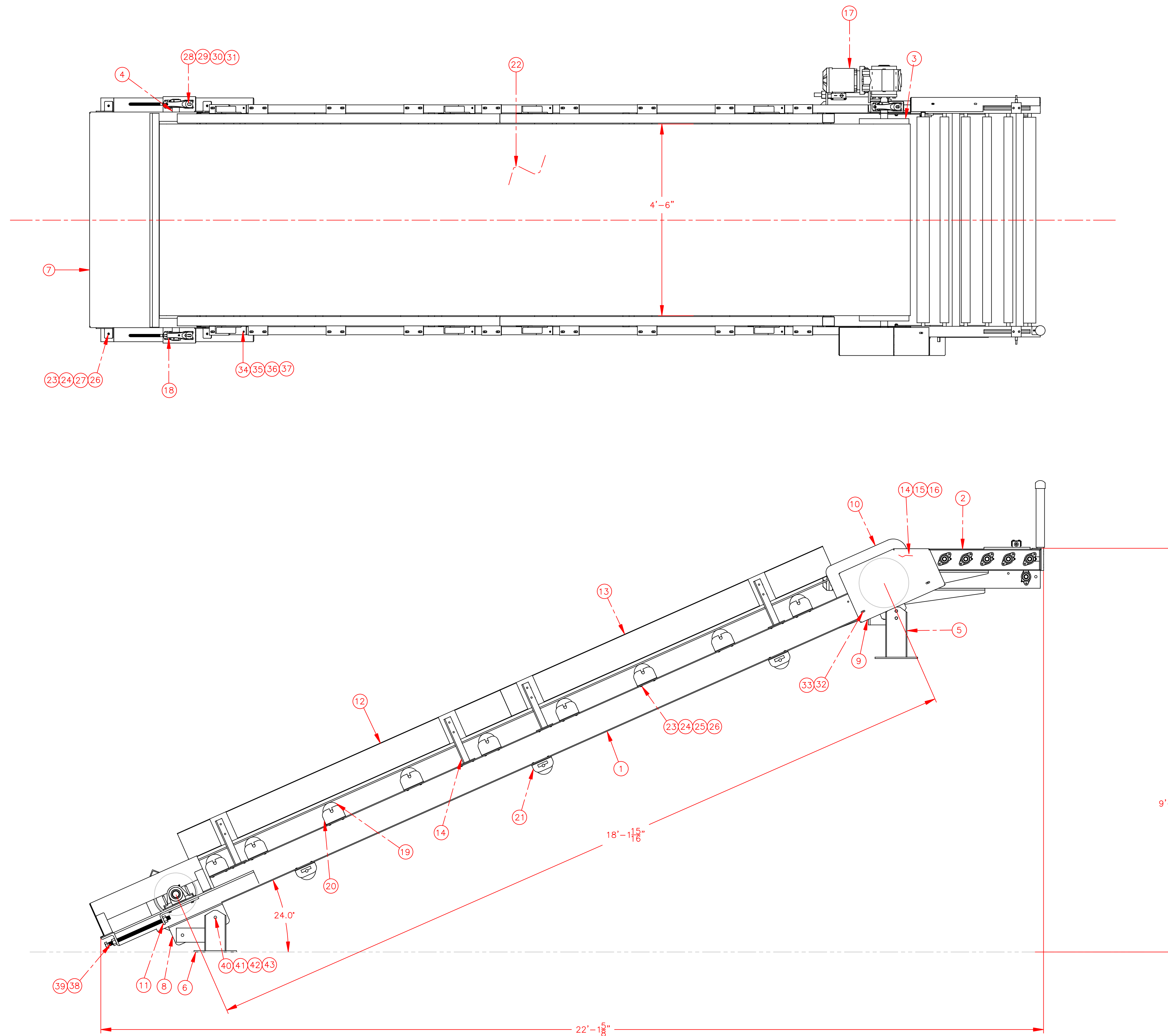
TITLE  
OKLAHOMA TIRE SYSTEM  
SDL1619 TIRE SEPARATOR  
BASE ASSEMBLY

DRAWN BY MR	SCALE 1"=1'-0"	DATE 2016-OCT-11
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619SDL01-04

SHEET NO. 04 OF 40





SEPARATOR DISCHARGE  
BELT CONVEYOR ASSEMBLY

ITEM	QTY	DESCRIPTION	MATL./DWG.NO
1	1	FRAME WELDMENT	1619BC-02
2	1	SLAVE DRIVE ASSEMBLY	1619BC-
3	1	HEAD PULLEY ASSEMBLY SEE NOTE 1	1619BC-HP
4	1	TAIL PULLEY ASSEMBLY SEE NOTE 2	1619BC-TP
5	1	SUPPORTING LEG ASSEMBLY	1619BC-
6	1	SUPPORTING LEG ASSEMBLY	1619BC-
7	1	TAIL PULLEY FIXED GUARD	1619BC-
8	2	TAIL PULLEY GUARD	1619BC-
9	1	HEAD PULLEY GUARD	1619BC-
10	2	HEAD PULLEY GUARD	1619BC-
11	2	SIDE GUARD-01	1619BC-
12	2	SIDE GUARD-02	1619BC-
13	4	SIDE GUARD SUPPORT LEG	1619BC-
14	1	CHAIN SPROCKET 13 TOOTH	12BTB13
15	1	CHAIN 60-66LINKS WITH 1 MASTER LINKS	
16	1	BDLR DRIVE SPROCKET 54 TOOTH	12BTB54
17	1	1.5 KW SEW EURO DRIVE GEAR BOX	SA77TDRE90L
18	4	DODGE BALL BEARING PILLOW BLOCK	10-P2B-SCM-50M
19	12	5" DIA X 57" LG FLAT CARRYING IDLERS	
20	18	CARRYING IDLERS BRACKET	
21	6	RETURN IDLER BRACKET	
22	1	54" WIDTH BELT	
23	60	1/2-13 X 1 1/2 HEX BOLT	
24	60	1/2-13 HEX NUT	
25	60	1/2 BEVEL WASHER	
26	60	1/2 FLAT WASHER	
27	4	1/2 LOCK WASHER	
28	8	5/8-11 X 3" HEX BOLT	
29	8	5/8-11 HEX NUT	
30	8	5/8 PLAIN WASHER	
31	8	5/8 FLAT WASHER	
32	10	5/16 X 1 HEX BOLT	
33	10	5/16-HEX NUT LOCK WASHER FLAT WASHER	
34	32	3/8 X 1 1/2 HEX BOLT	
35	32	3/8 HEX BOLT	
36	32	3/8 FLAT WASHER	
37	32	3/8 BEVEL WASHER	
38	2	1" THREADED ROD 20" LG	
39	8	1" HEX NUT	
40	8	5/8-11 X 1 1/2 HEX BOLT	
41	14	5/8-11 HEX NUT	
42	14	5/8 FLAT WASHER	
43	14	5/8 LOCK WASHER	
44	14	5/8-11 X 1 3/4 HEX BOLT	
45			
46			
47			

DATE	BY	DESCRIPTION
2017-MAR-08	MR	APPROVED

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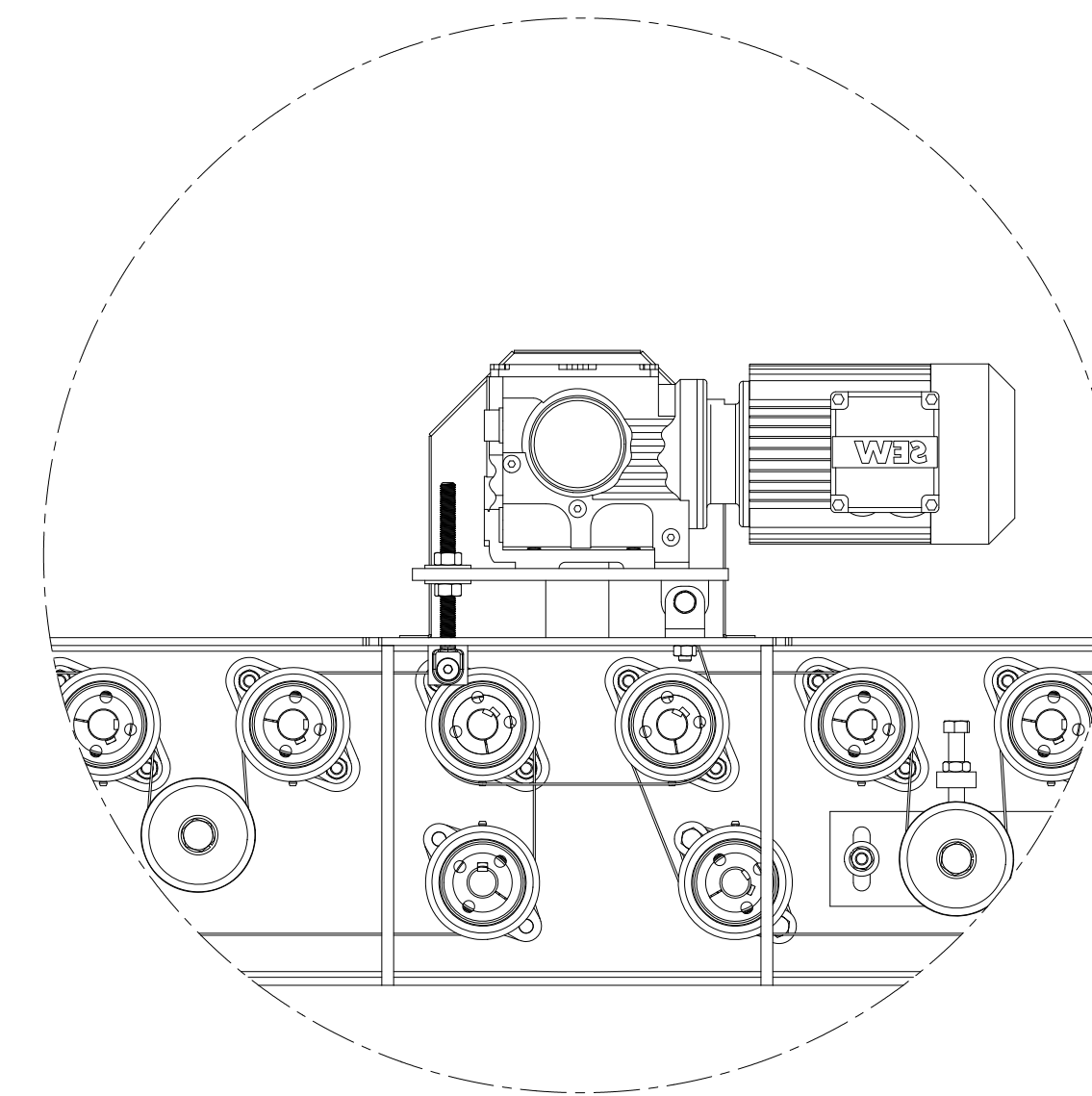
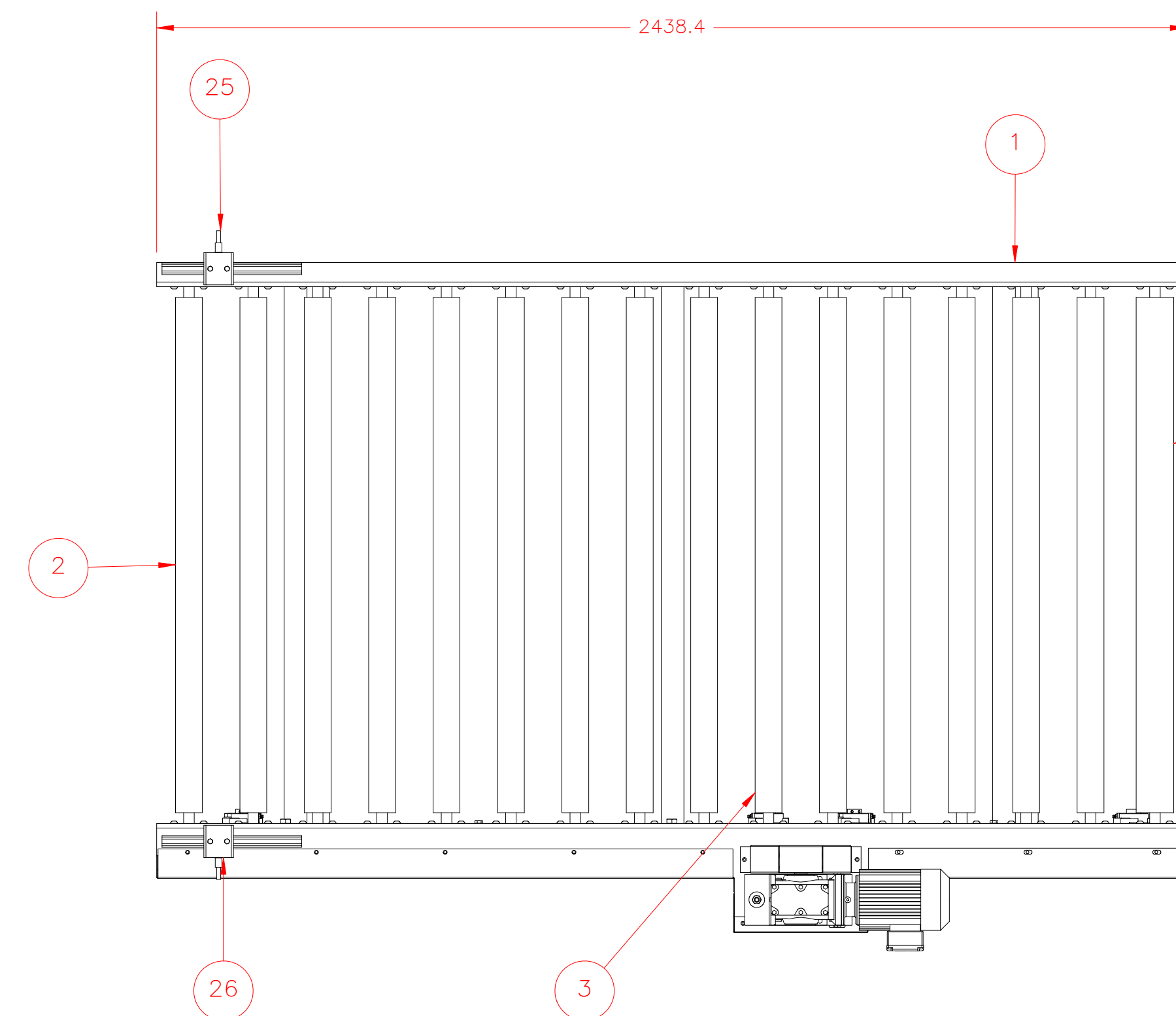
TITLE  
OKLAHOMA TIRE SYSTEM  
SEPARATOR DISCHARGE BELT CONVEYOR  
ASSEMBLY

DRAWN BY: MR  
SCALE: 1/16  
DATE: 2017-MAR-08  
PROJECT#

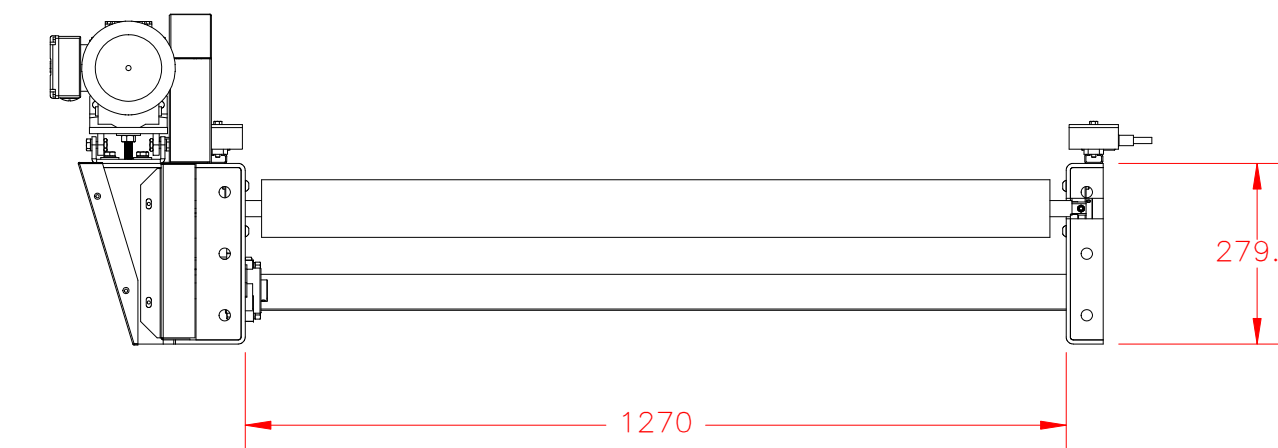
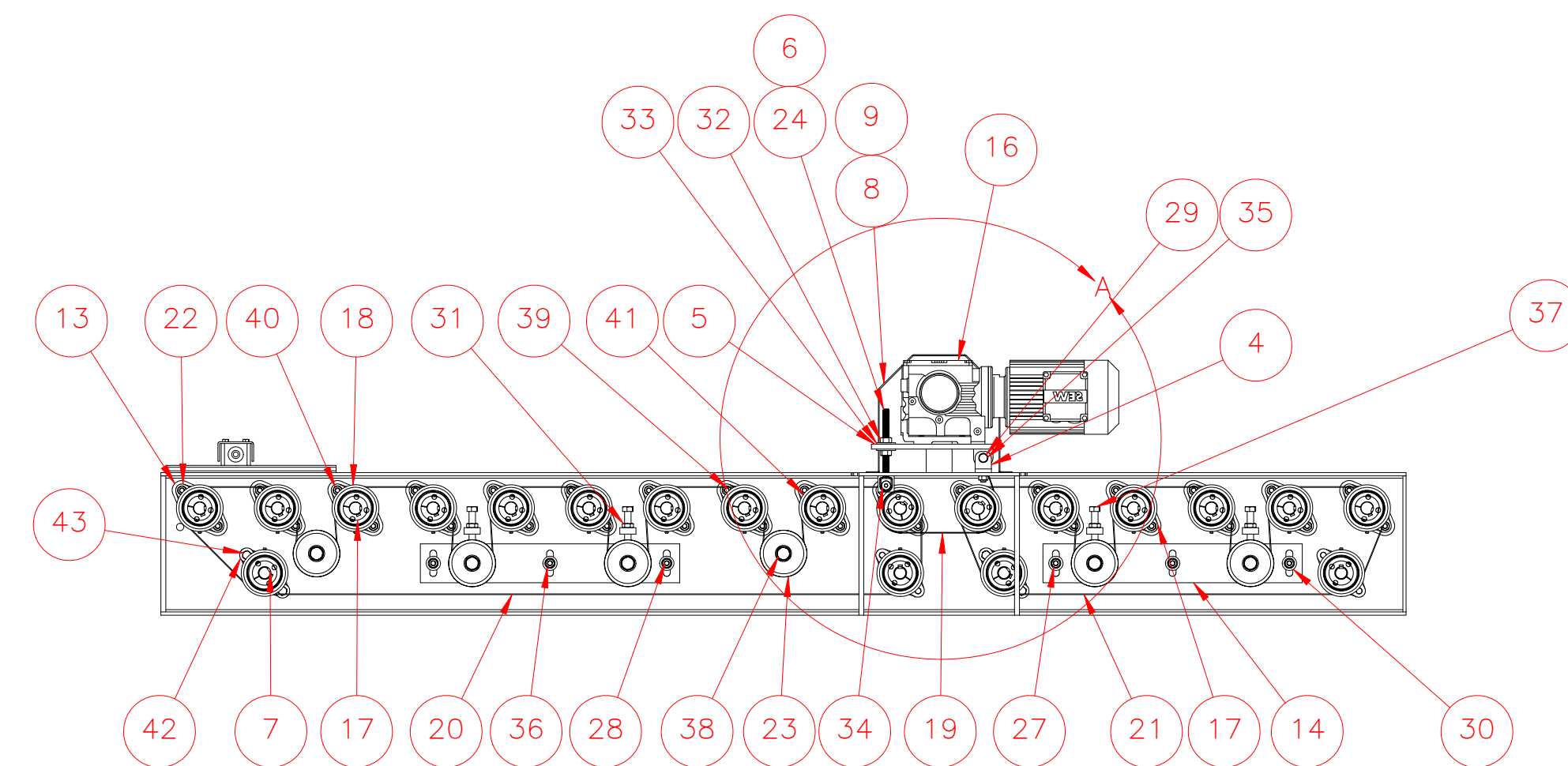
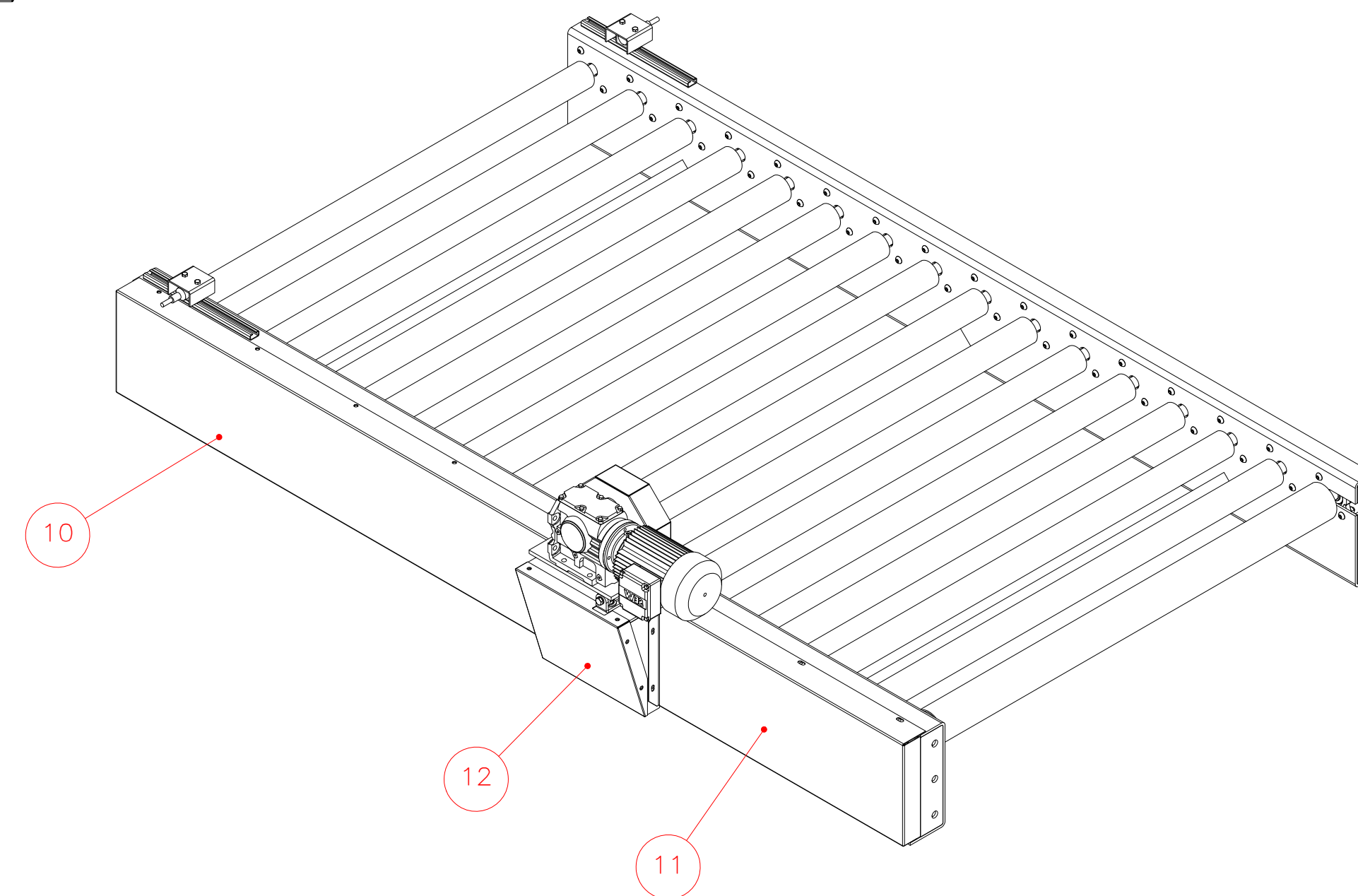
DWG. NO. 1619BC-01  
SHEET NO. OF

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0.00	0.015	//	0.03		
0.000	0.005	∠	0.03		
x/x	1/32		0.03		
⊕	0.03	∠	0.03		

NOTES:  
Unless otherwise noted, the following shall apply:  
1. All hardware is to be minimum grade 5 zinc plated.  
2. Paint is to be Inland low-part epoxy with minimum 5 mil DFT.  
3. Surface prep to be SSPC D1.  
4. All welds and corners are to be spot primed.



DETAIL A  
SCALE 1 : 6



ITEM	WITH OUT GUARD/ QTY.	DESCRIPTION	PART NO./MATERIAL
1	1	SIDE FRAME WELDMENT	RBFW-1004-2
2	13	DRIVEN ROLLER	R48-2.5-25M-55KA1.62KB0
3	2	DRIVE ROLLER	R48-2.5-25M-55KA2.62KB0
4	1	MOTOR MOUNT HINGE	RBMH-001
5	1	MOTOR MOUNT	RBMM-001
6	2	COUPLING NUT	RBCN-001
7	4	25MM IDLER SHAFT	RBIS-25MM-4.5
8	1	MOTOR BELT TOP GUARD INNER DOUBLE SHAFT	RBG-MBT-2-1
9	1	MOTOR BELT TOP GUARD OUTER DOUBLE SHAFT	RBG-MBT-2-2
10	1	SPROCKET BELT GUARD LEFT	RBG-1004-2-16-M-L
11	1	SPROCKET BELT GUARD RIGHT	RBG-1004-2-16-M-R
12	1	MOTOR BELT BOTTOM GUARD FOR DOUBLE SHAFT	RBG-MBB-2
13	16	BEARING COVER 25MM	RBC-001
14	2	PULLEY BELT TENSIONER	RBT-001
15	1	DRIVEN TRACTION ROLLER	R48-3.5-25M-55KA1.62KB0
16	1	SEW EURO DRIVE 0.75 KW 380 VAC 50 HZ 9.23 RATIO 155 RPM	S47DRE80M4
17	23	TAPER LOCK BUSHING 25MM	11-1210-25MM-TL
18	23	GATES SPROCKET	11-8MX-32S-21-TL
19	1	TIMING BELT	11-8MGT-896
20	1	TIMING BELT	11-8MGT-4400-21
21	1	TIMING BELT	11-8MGT-2600-21
22	40	DODGE 2-BOLT BEARING	11-F2B-SC-25M
23	6	IDLER PULLEY	11-FI-325-125
24	1	SHOULDER ROD END	14-3800K24
25	1	CULTER-HAMMER TRANSMITTER PHOTOEYE	21-E5818TS250-GA
26	1	CULTER-HAMMER RECEIVER PHOTOEYE	21-E5818TS250-GL
27	8	M10 HEX NUT	
28	8	HEX HEAD CAP SCREW, M10 x 1.5 x 35	
29	4	M10 LOCK WASHER	
30	8	M10 HEAVY WASHER	
31	6	1/2-13 JAM NUT	
32	2	M12 NUT	
33	2	M12 HEAVY WASHER	
34	1	M12 X 16MM SHOULDER BOLT	
35	2	Hex cap screw, M10 x 1.5 x 25	
36	6	M10 LOCK WASHER	
37	4	HEX BOLT 1/2-13 X 3-1/2"	
38	6	HEX HEAD CAP SCREW 5/8-11 X 3/4"	
39	64	M - 10 x 1.5 x 35 SBHCS	
40	68	M10 LOCK WASHER	
41	68	M10 HEX NUT	
42	4	M10 WASHER	
43	4	Hex cap screw, M10 x 1.5 x 45	
44	2	HEX HEAD CAP SCREW 5/8-11 X 3/4"	

SCALE	TOLERANCE	FINISH	WELD
0.0	0.03	1	0.03
0.00	0.015	//	0.03
0.000	0.005	□	0.03
1/2	1/32	-	0.03
⊕	0.03	⊕	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 and zinc plated.  
 2. Paint is to be Intercoat two-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-12.5.  
 4. All welds and corners are to be spot primed.

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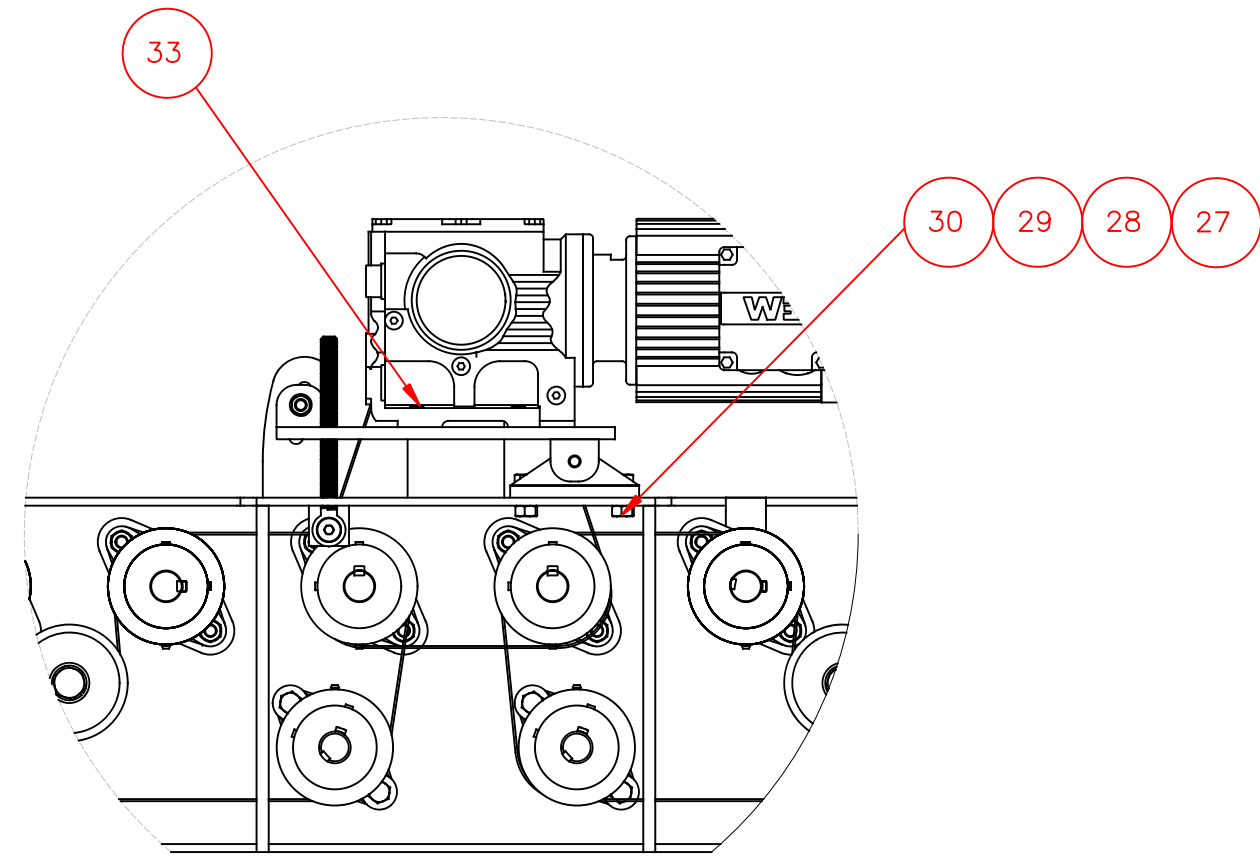
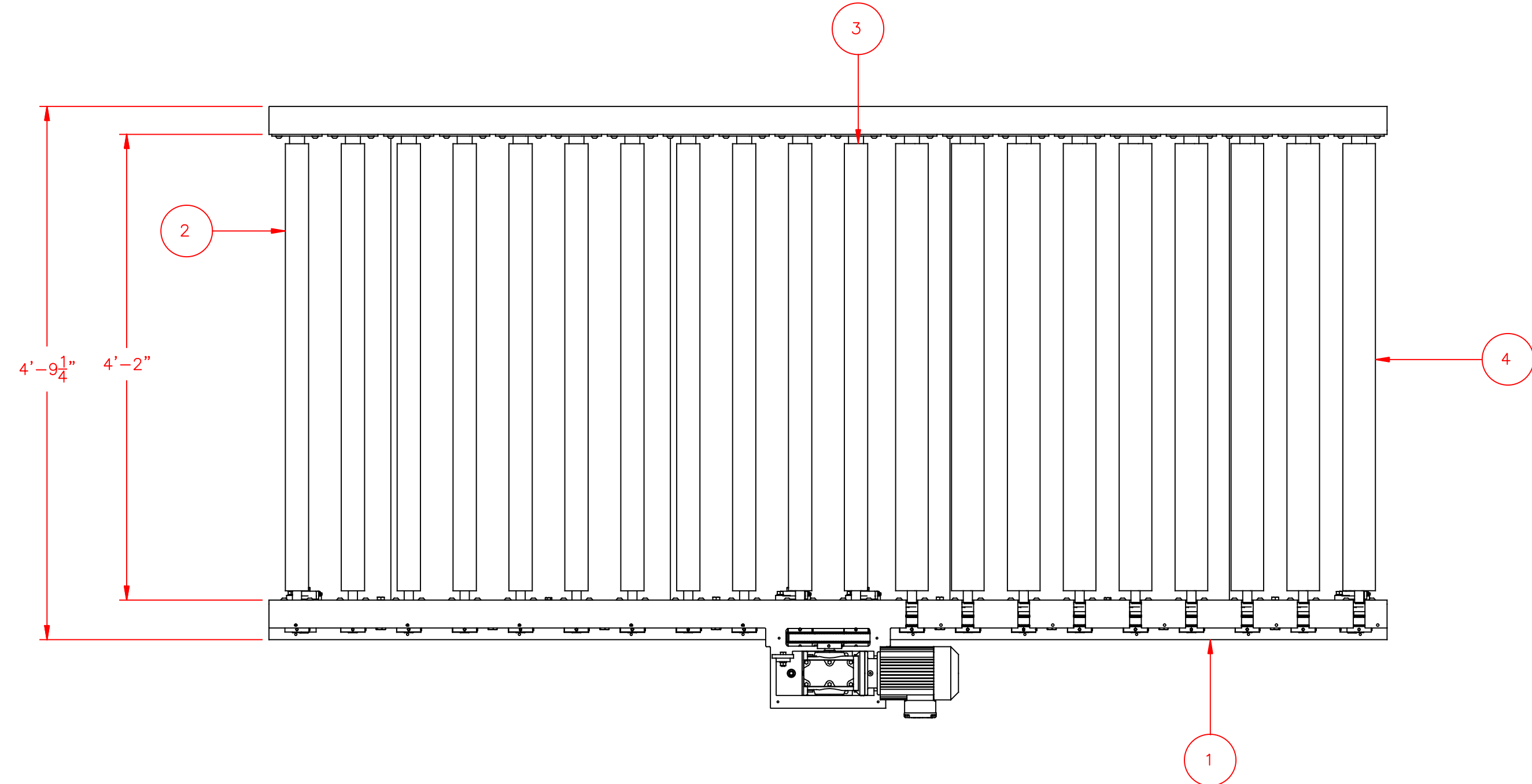
**AFS technology**  
 Alternative fuel systems engineered for cement kilns

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 Fax: 937 320 5404  
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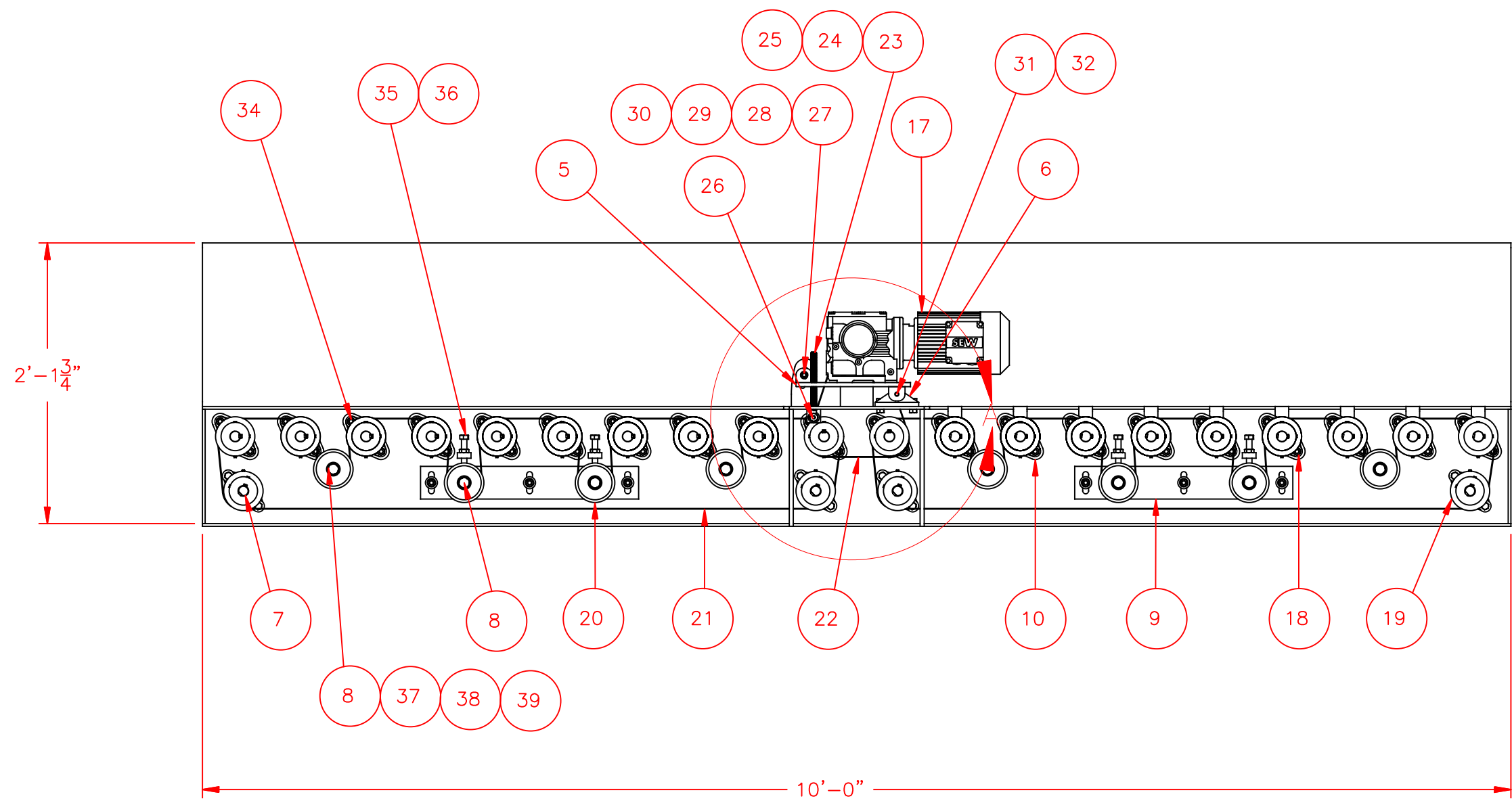
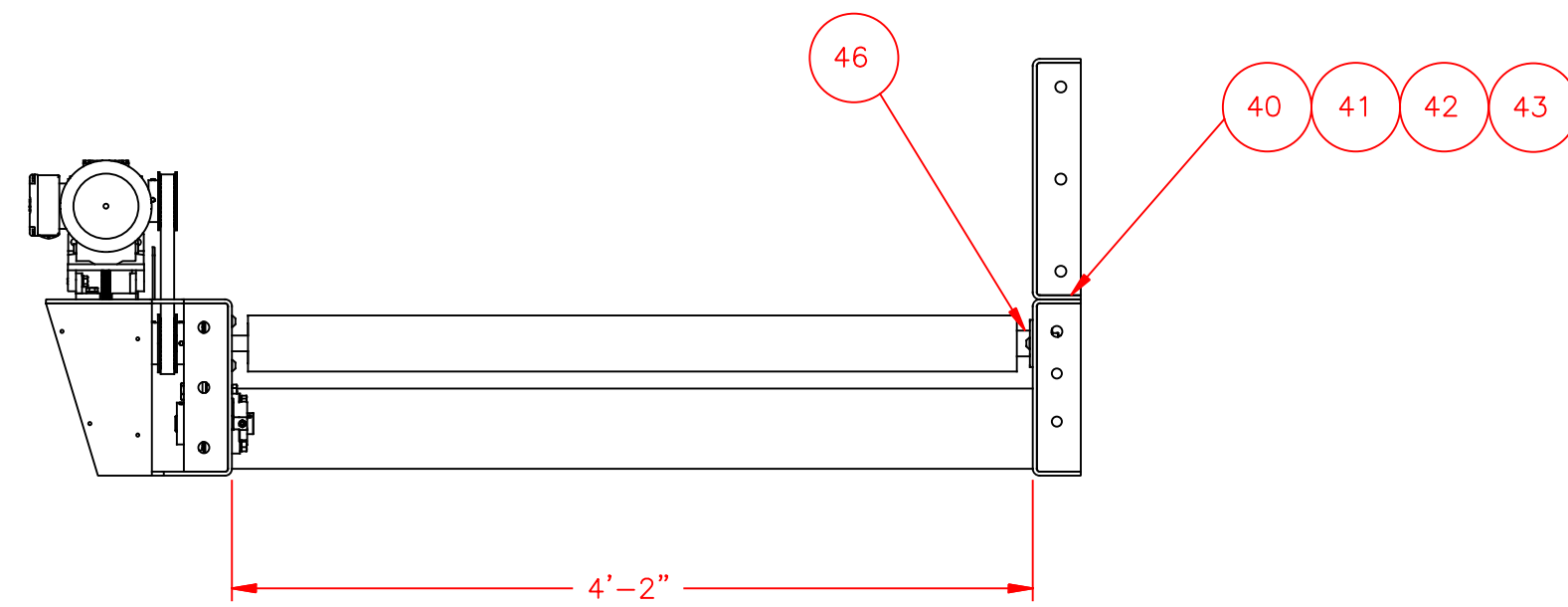
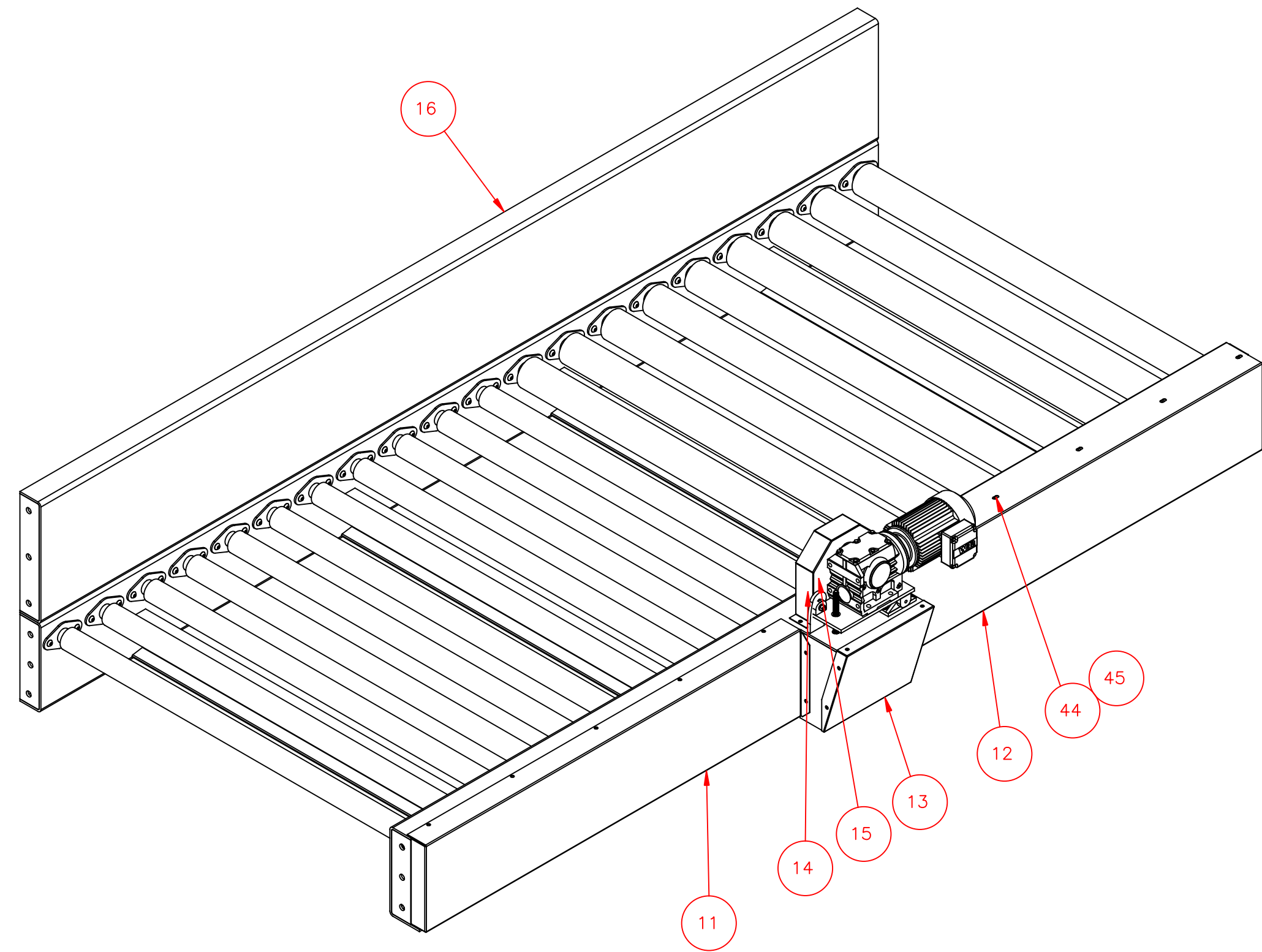
TITLE  
**OKLOHAMA TIRE RECYCLERS  
 TIRE SEPARATOR SYSTEM  
 BDLR CONVEYOR**

DRAWN BY MR	SCALE 1:12	DATE 5/9/2017
CHECKED BY JMB	APPROVED -	PROJECT# 1004

DWG. NO. **1619BDLR-02** SHEET NO. **1 OF 1**



DETAIL A  
SCALE 1:6



ITEM NO.	QTY	DESCRIPTION	PART NO./MATERIAL
1	1	SIDE FRAME WELDMENT	1619BDLR-05
2	9	DRIVEN ROLLER	R52-2.5-59-KA1.37-KBO
3	2	DRIVE ROLLER	R52-2.5-60-KA2.37-KBO
4	9	TRACTION ROLLER	R52-2.5-60-KA2.37-KBO
5	1	MOTOR MOUNT	RBMM-001
6	4	MOTOR MOUNT HINGE	RBMH-001
7	4	IDLER SHAFT	RBIS-25MM-4.5
8	8	COUPLING NUT	RBCN-001
9	2	BDLR IDLER TENSIONER PLATE	RBT-001
10	20	BEARING COVER	RBC-001
11	1	SPROCKET BELT GUARD LEFT	RBG-1620-2-10-M-L
12	1	SPROCKET BELT GUARD RIGHT	RBG-1620-2-10-M-R
13	1	MOTOR BELT BOTTOM GUARD FOR DOUBLE SHAFT	RBG-MBB-2
14	1	MOTOR BELT TOP GUARD INNER	RBG-MBT-2-1
15	1	MOTOR BELT TOP GUARD OUTER	RBG-MBT-2-2
16	1	SIDE GUARD	
17	1	SEW EURODRIVE 1.5 HP, 480 VAC, 3 PH, 60 HZ	S47DRE80M4
18	48	DODGE 2 BOLT FLANGE BEARING	
19	27	GATES SPROCKET	11-8MX-32S-21-TL
20	8	FLATBACK IDLER	
21	2	GATES POLY CHIAN BELT 21 mm X 8 PITCH 4400	11-BMGT-4400-21
22	1	GATES POLY CHAIN BELT	11-BMGT-896-21
23	1	1/2-13 THREADED ROD 6" LG	3798K26
24	2	1/2-13 HEX NUT	
25	2	1/2 FLAT WASHER	
26	1	1/2" DIA x 1/2" LG, 3/8"-16 Thread Size	91259A707
27	5	3/8 -16 X 1.25 HEX BOLT	
28	5	3/8-16 HEX NUT	
29	5	3/8 LOCK WASHER	
30	9	3/8 FLAT WASHER	
31	2	3/8-16 X 1 HEX BOLT	
32	2	3/8 LOCK WASHER	
33	4	3/8 -16 X 1.5 HEX BOLT	
34	94	3/8 -16 X 1.5 SBHCS	
35	4	1/2-13 X 3.5 HEX BOLT	
36	4	1/2-13 HEX NUT	
37	12	M16 X 1.75MM X 20MM LG	
38	12	M16 X 1.75MM X 35MM LG	
39	12	M16 FLAT WASHER	
40	8	1/2-13 X 1.25 HEX BOLT	
41	8	1/2-13 HEX NUT	
42	8	1/2-13 LOCK WASHER	
43	8	1/2-13 FLAT WASHER	
44	22	5/16 X 1/2 HEX BOLT	
45	22	5/16 LOCK WASHER	
46	20	THRUST BEARING ASSEMBLY	

COMPONENTS ARE SAME FOR 411,  
421, 431 BDLR CONVEYORS

ANGULAR CONVEYOR BDLR ASSEMBLY  
(1)-REQ'D

SCALE	DATE	PROJECT#
MR	1/12	2017-MAR-09
CHECKED BY	APPROVED	

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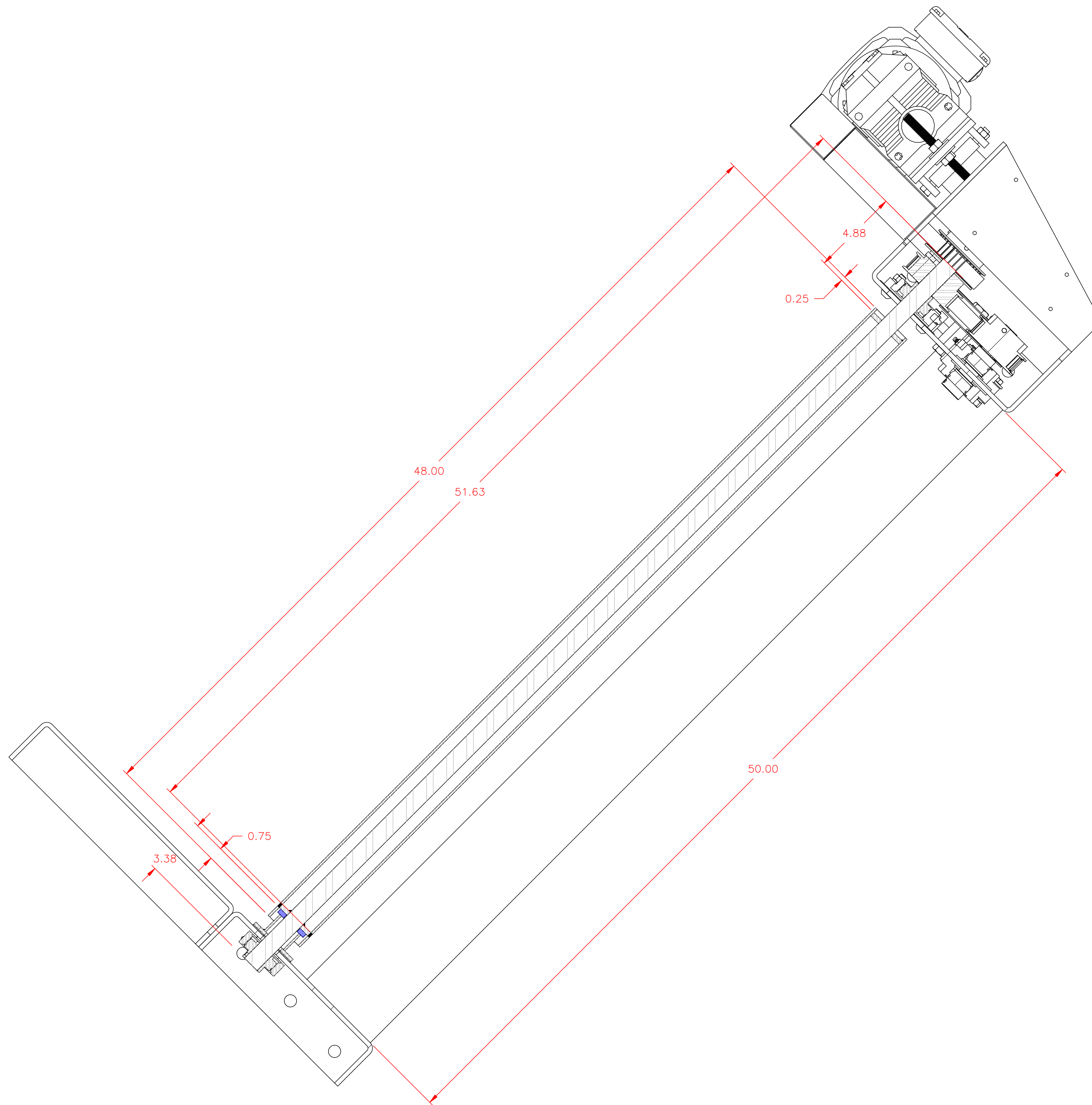
4060 Gibson Drive  
Tipp City, Ohio 45371 USA  
Phone: 937 669 3548  
Fax: 938 300 3404  
www.afstechnology.com

TITLE  
OKLAHOMA TIRE RECYCLERS  
TIRE SEPARATOR SYSTEM  
ANGULAR CONVEYOR BDLR ASSEMBLY

DRAWN BY	SCALE	DATE
MR	1/12	2017-MAR-09
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619-BDLR-05 SHEET NO. 01 OF 01

NOTES:	0.0	0.03	0.1	0.03
1. All hardware is to be minimum grade 5 zinc plated.	0.00	0.015	//	0.03
2. Paint is to be Interbond low-part epoxy with minimum 5 mil DFT.	0.000	0.005	∅	0.03
3. Surface prep to be SSPC-SP10.	x/k	1/32	-	0.03
4. All welds and corners are to be spot primed.	⊕	0.03	Z	0.03



0.0	0.03	⊥	0.03
0.00	0.015	//	0.03
0.000	0.005	∠	0.03
xx/x	1/32	—	0.03
⊙	0.03	⊥	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 zinc plated.  
 2. Paint is to be Intercoat low-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP11.  
 4. All welds and corners are to be spot primed.

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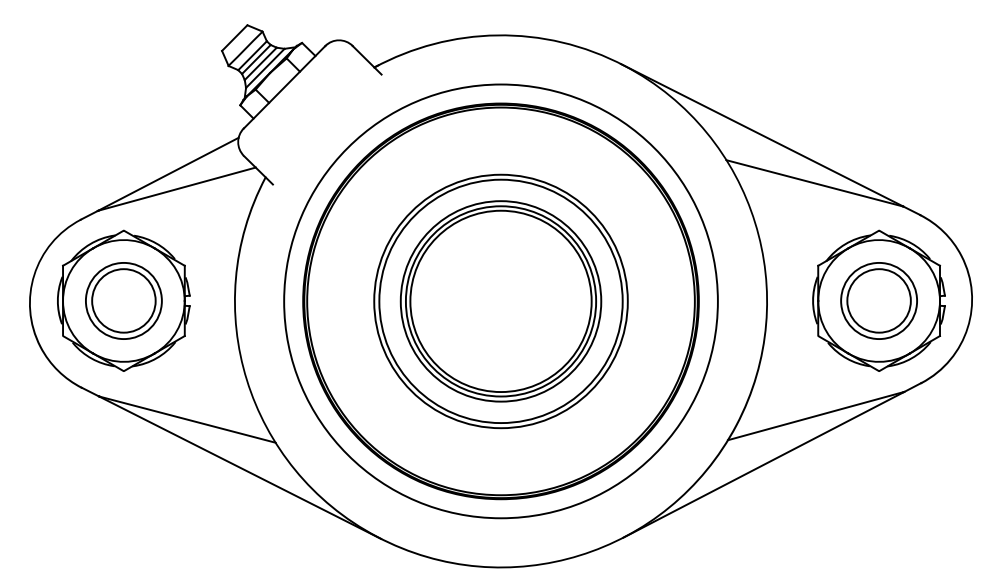
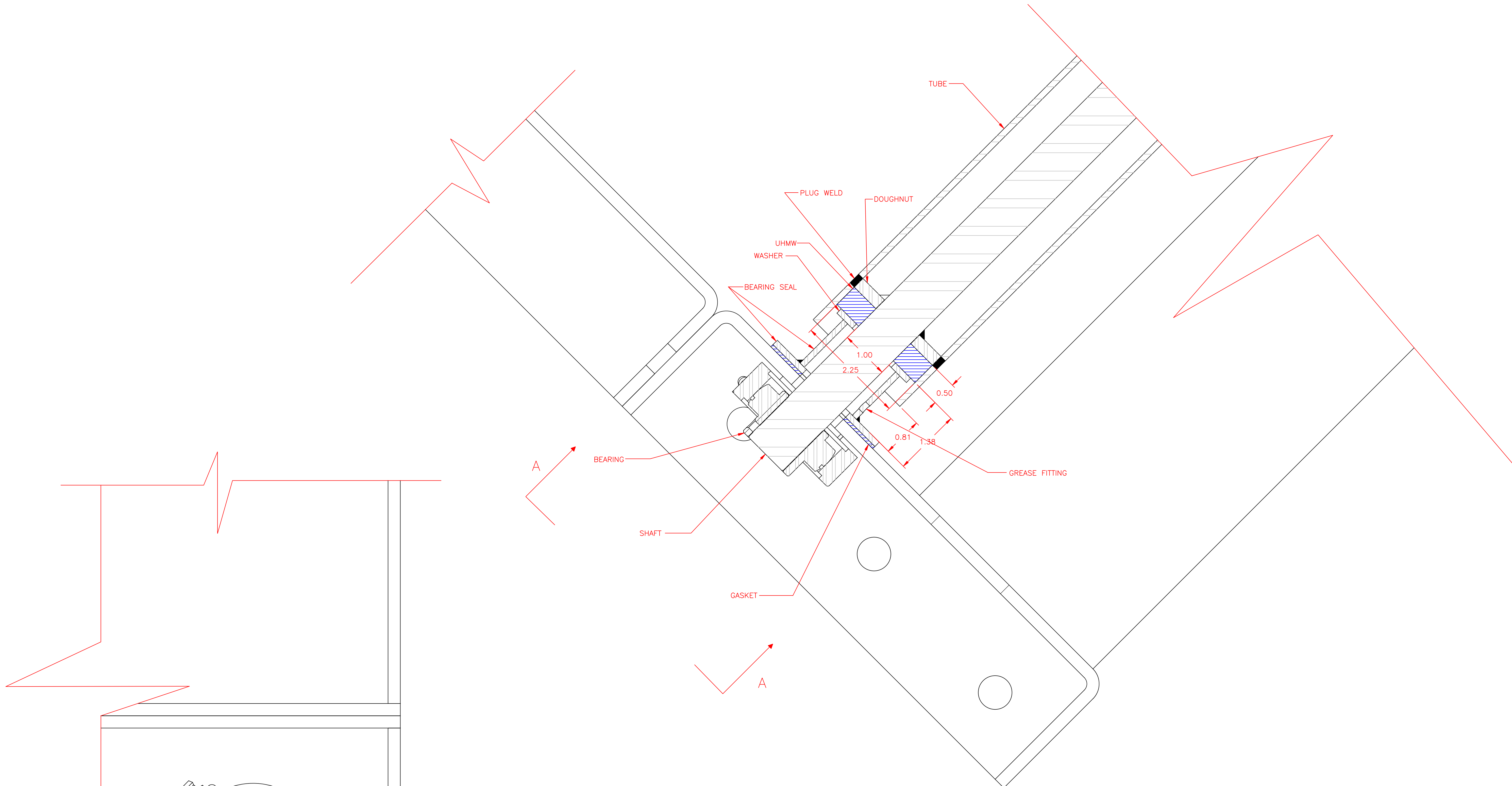
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TITLE  
 OKLAHOMA TIRE RECYCLERS  
 TIRE SEPARATOR SYSTEM  
 ANGULAR CONVEYOR SECTION VIEW

DRAWN BY MR	SCALE FULL	DATE 2017-JAN-23
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619BDLR-06	SHEET NO. 01 OF 01
-------------------------	-----------------------



VIEW A-A

0.0	0.03	∟	0.03
0.00	0.015	//	0.03
0.000	0.005	∠	0.03
xx	1/32	—	0.03
⊗	0.03	∠	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5 zinc plated.  
 2. Paint is to be Interseal low-part epoxy with minimum 5 mil DFT.  
 3. Surface prep to be SSPC-SP11.  
 4. All welds and corners are to be spot primed.

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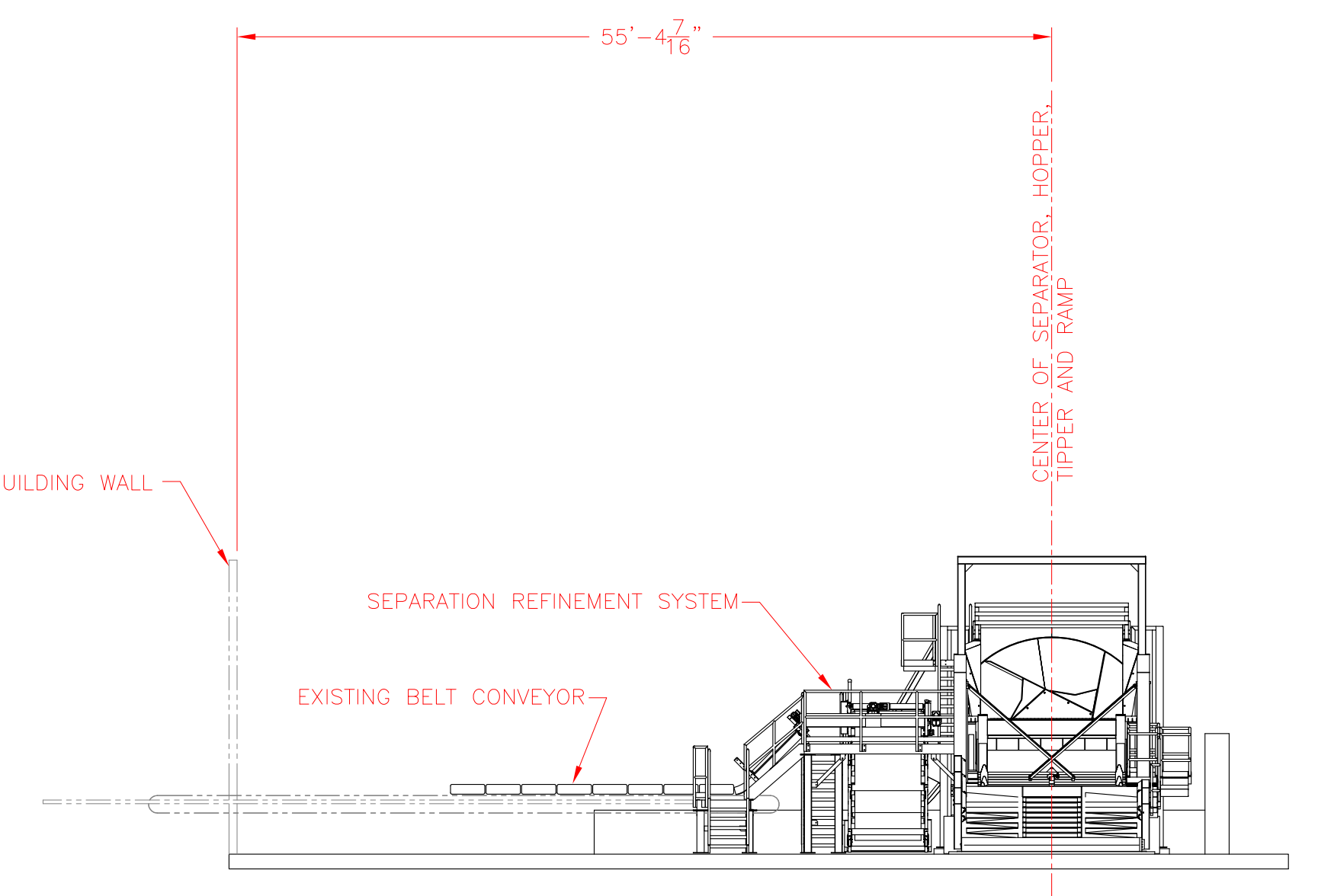
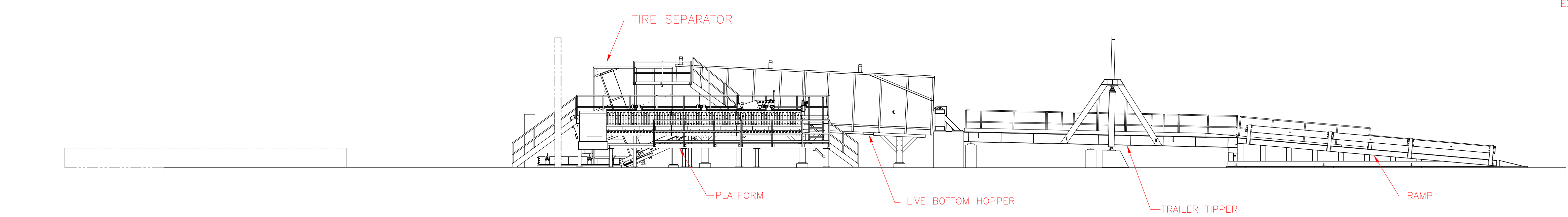
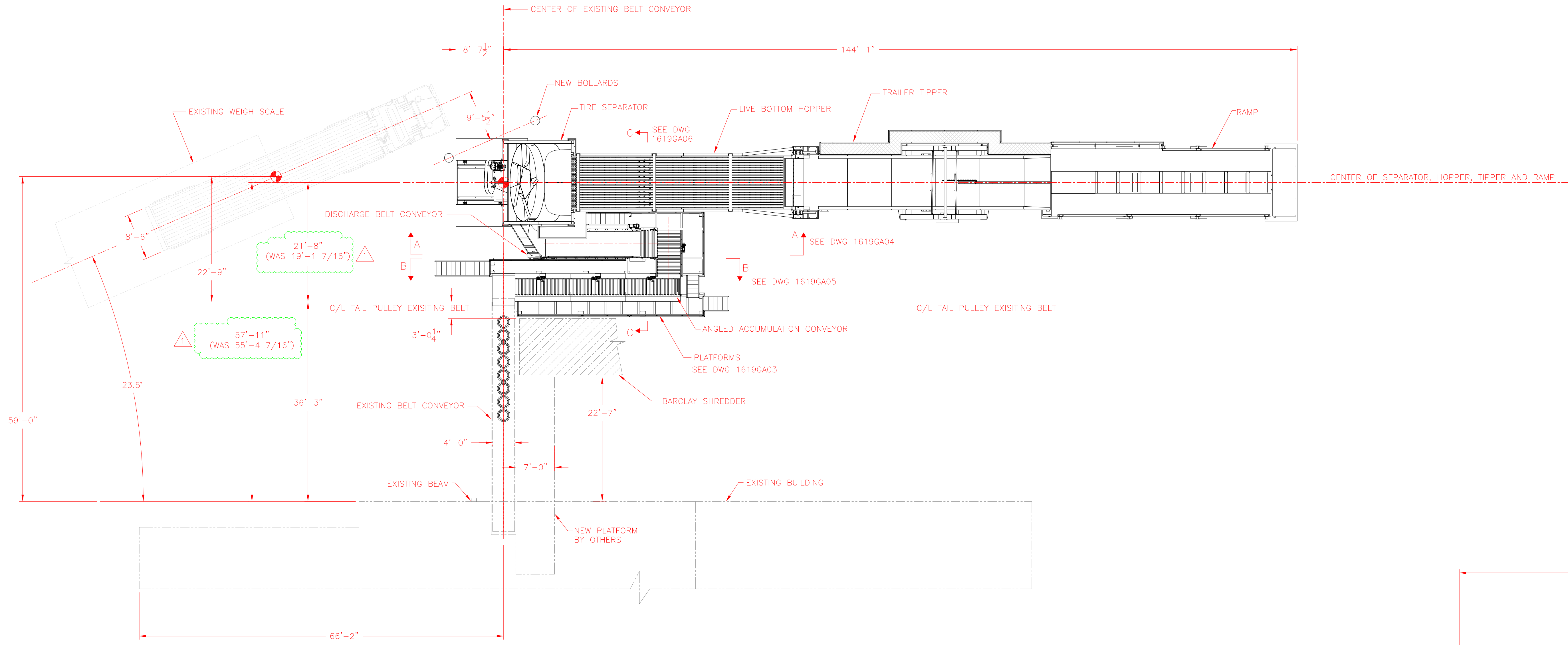
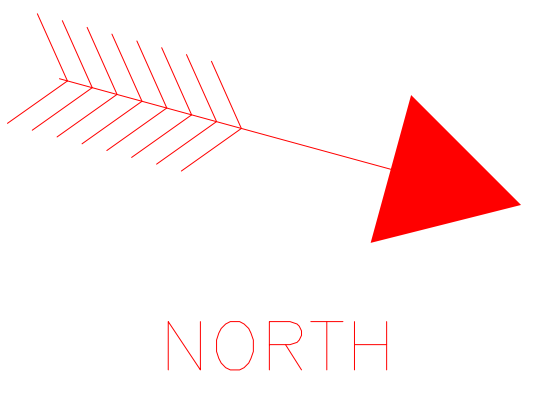
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TITLE  
 OKLAHOMA TIRE RECYCLERS  
 TIRE SEPARATOR SYSTEM  
 ANGULAR BDLR SECTION VIEW DRIVEN SIDE

DRAWN BY MR	SCALE FULL	DATE 2017-JAN-23
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619BDLR-07	SHEET NO. 01 OF 01
-------------------------	-----------------------



GENERAL ARRANGEMENT

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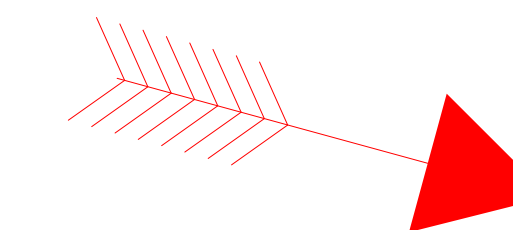
TITLE  
OKLAHOMA TIRE RECYCLERS  
GENERAL ARRANGEMENT

DRAWN BY MR SCALE 1/120 DATE 2016 DEC 06  
CHECKED BY APPROVED PROJECT#

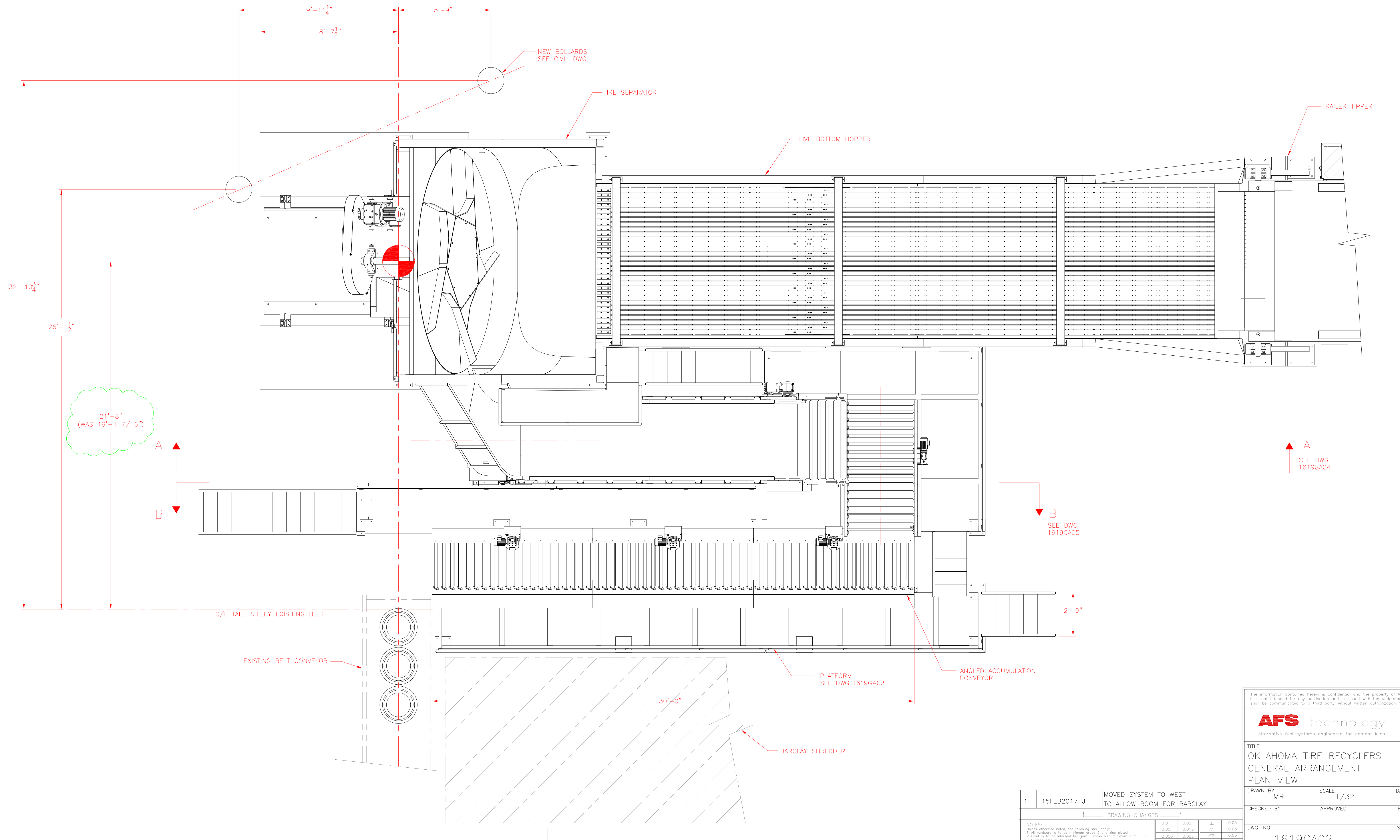
DWG. NO. 1619GA01 SHEET NO. 1 OF 6

DRAWING CHANGES			
0.0	0.03	A	0.03
0.00	0.015	Z	0.03
0.000	0.005	Y	0.03
X/A	1/32	—	0.03
⊕	0.03	Z	0.03

NOTES:  
 Unless otherwise noted, the following shall apply:  
 1. All hardware is to be minimum grade 5, and zinc plated.  
 2. Paint is to be industrial two-part epoxy with minimum 3 mil DFT.  
 3. Surface prep to be SSPC 2/3.  
 4. All welds and corners are to be spot primed.



NORTH



21'-8"  
(WAS 19'-1 7/16")

A  
B

A  
SEE DWG  
1619GA04

B  
SEE DWG  
1619GA05

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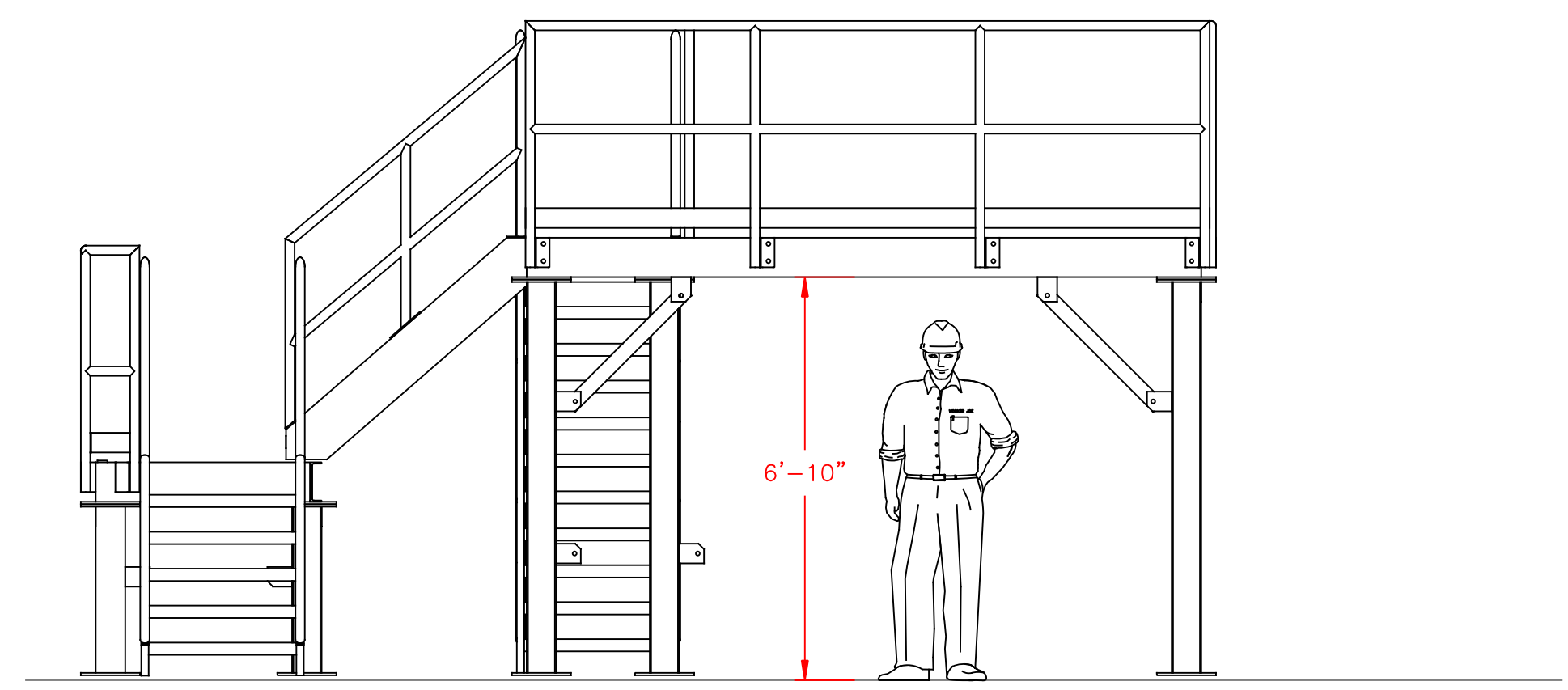
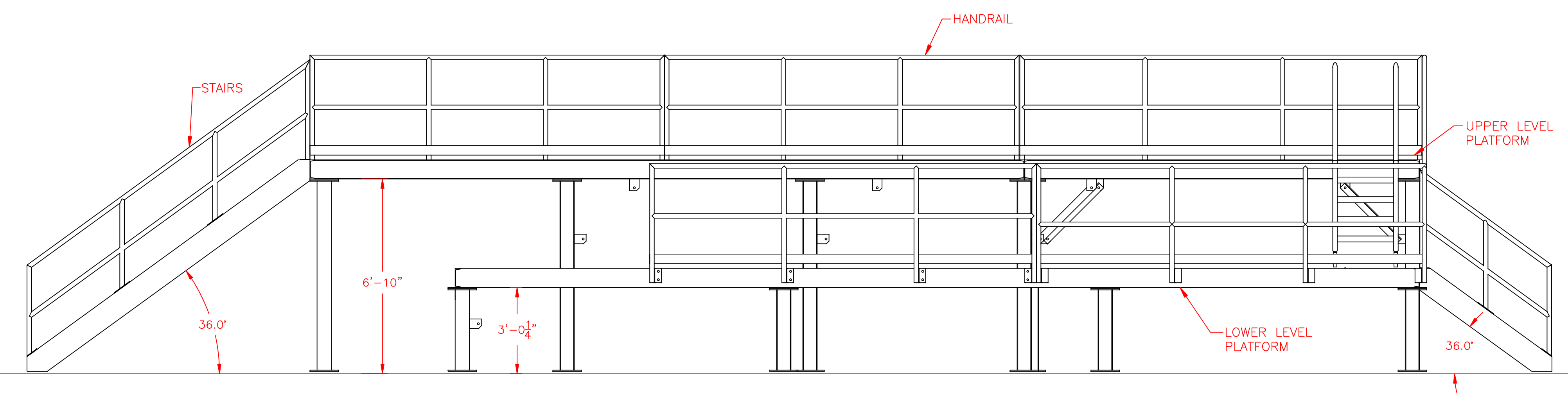
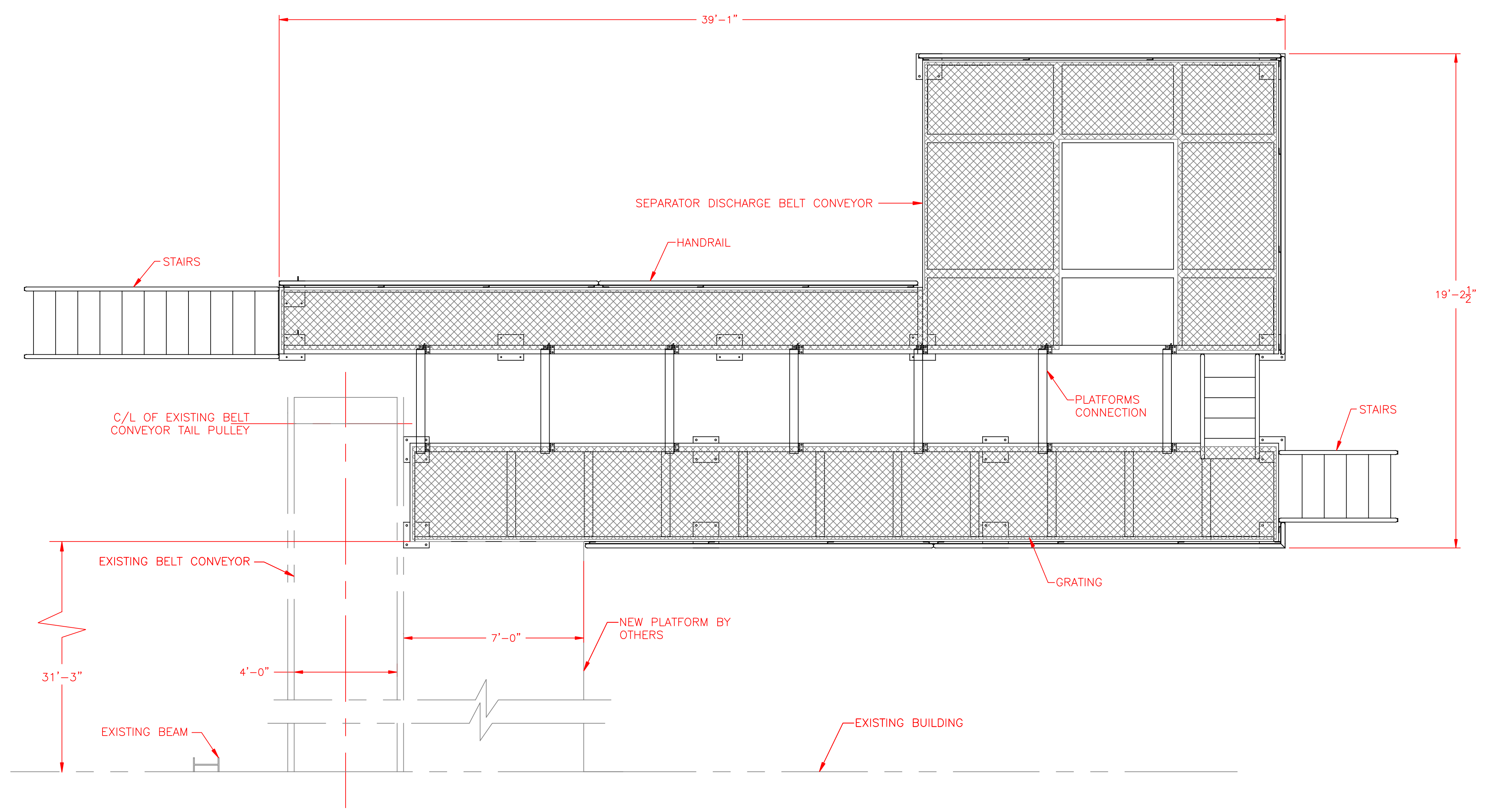
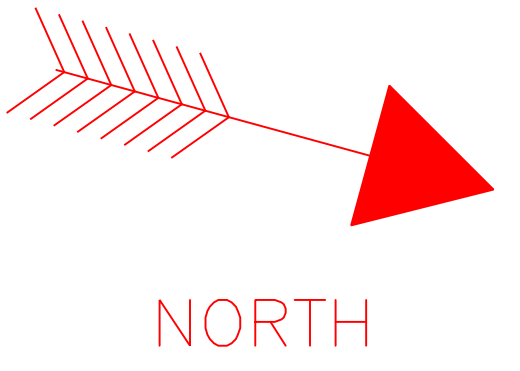
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TITLE  
OKLAHOMA TIRE RECYCLERS  
GENERAL ARRANGEMENT  
PLAN VIEW

DRAWN BY MR SCALE 1/32 DATE 2016 DEC 28  
CHECKED BY APPROVED PROJECT#

DWG. NO. 1619GA02 SHEET NO. 2 OF 6

1	15FEB2017	JT	MOVED SYSTEM TO WEST TO ALLOW ROOM FOR BARCLAY		
DRAWING CHANGES					
NOTES:	UNLESS OTHERWISE NOTED, THE FOLLOWING SHALL APPLY:	0.0	0.03	±	0.03
1. All hardware is to be minimum grade 5 and zinc plated.		0.00	0.015	//	0.03
2. Paint is to be industrial two-part epoxy with minimum 3 mil DFT.		0.000	0.005	∇	0.03
3. Surface prep to be SSPC 2/3.		x/x	1/32	—	0.03
4. All welds and corners are to be spot primed.		⊗	0.03	∠	0.03



PLATFORM

NOTES:	0.0	0.03	1	0.03
Unless otherwise noted, the following shall apply:	0.00	0.015	//	0.03
1. All hardware is to be minimum grade 5, zinc plated.	0.000	0.005	∕∕	0.03
2. Paint is to be Interseal two-part epoxy with minimum 5 mil DFT.	R/A	1/32	—	0.03
3. Surface prep is to be SSPC 2/5.	∅	0.03	∕	0.03
4. All welds and corners are to be spot primed.				

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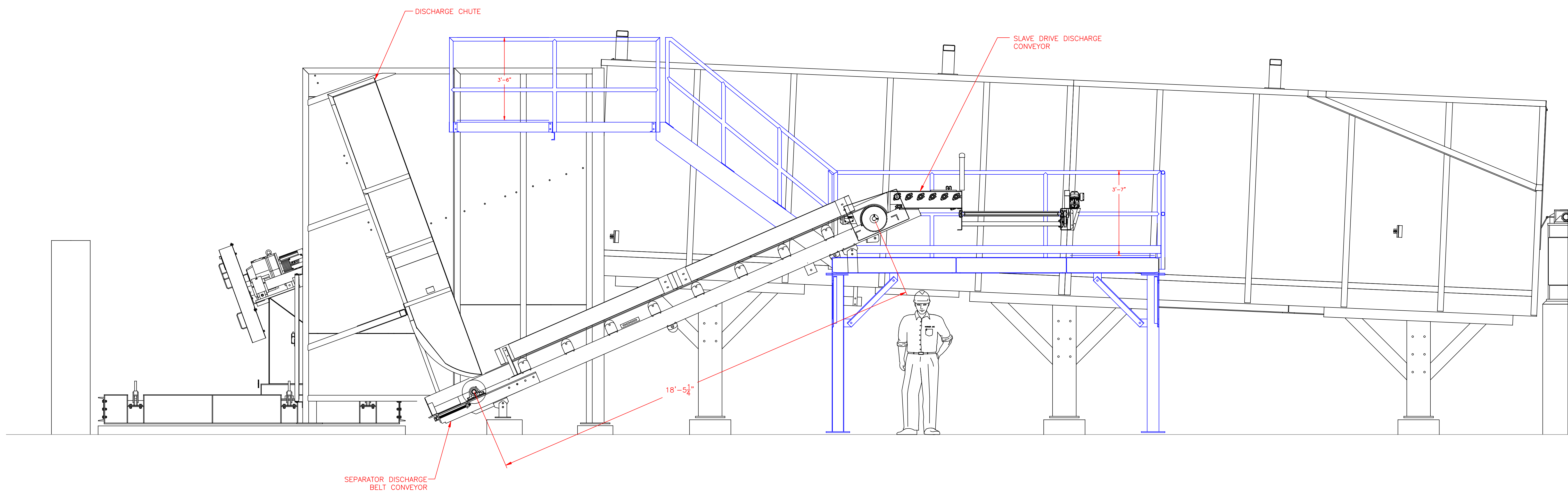
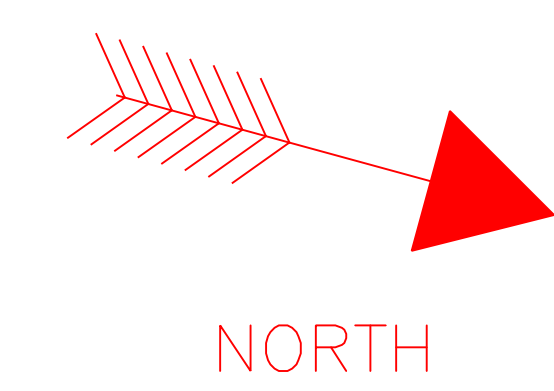
TITLE  
OKLAHOMA TIRE RECYCLERS  
GENERAL ARRANGEMENT  
PLATFORMS

DRAWN BY MR	SCALE 1/32	DATE 2016 DEC 28
CHECKED BY	APPROVED	PROJECT#

DWG. NO.  
1619GA03

SHEET NO.  
3 OF 6





SECTION A-A

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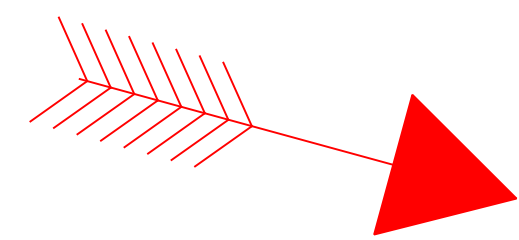
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TITLE  
 OKLAHOMA TIRE RECYCLERS  
 GENERAL ARRANGEMENT  
 SECTION A-A

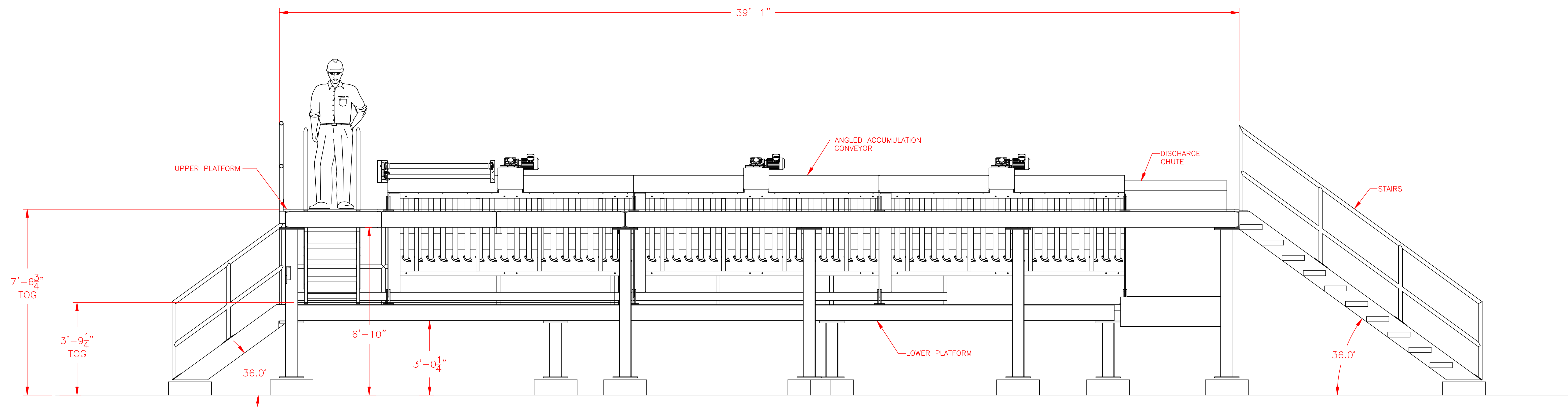
DRAWN BY MR	SCALE 1/24	DATE 2016 DEC 20
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619GA04 SHEET NO. 4 OF 6

NOTES:	0.0	0.03	∟	0.03
Unless otherwise noted, the following shall apply:	0.00	0.015	//	0.03
1. All hardware is to be minimum grade 5 and zinc plated.	0.000	0.005	∩	0.03
2. Paint is to be Inland two-part epoxy with minimum 5 mil DFT.	1/4"	1/32"	—	0.03
3. Surface prep is to be SSPC 2/3.	⊙	0.03	∠	0.03
4. All welds and corners are to be spot primed.				



NORTH



SECTION B-B

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 Alternative fuel systems engineered for cement kilns

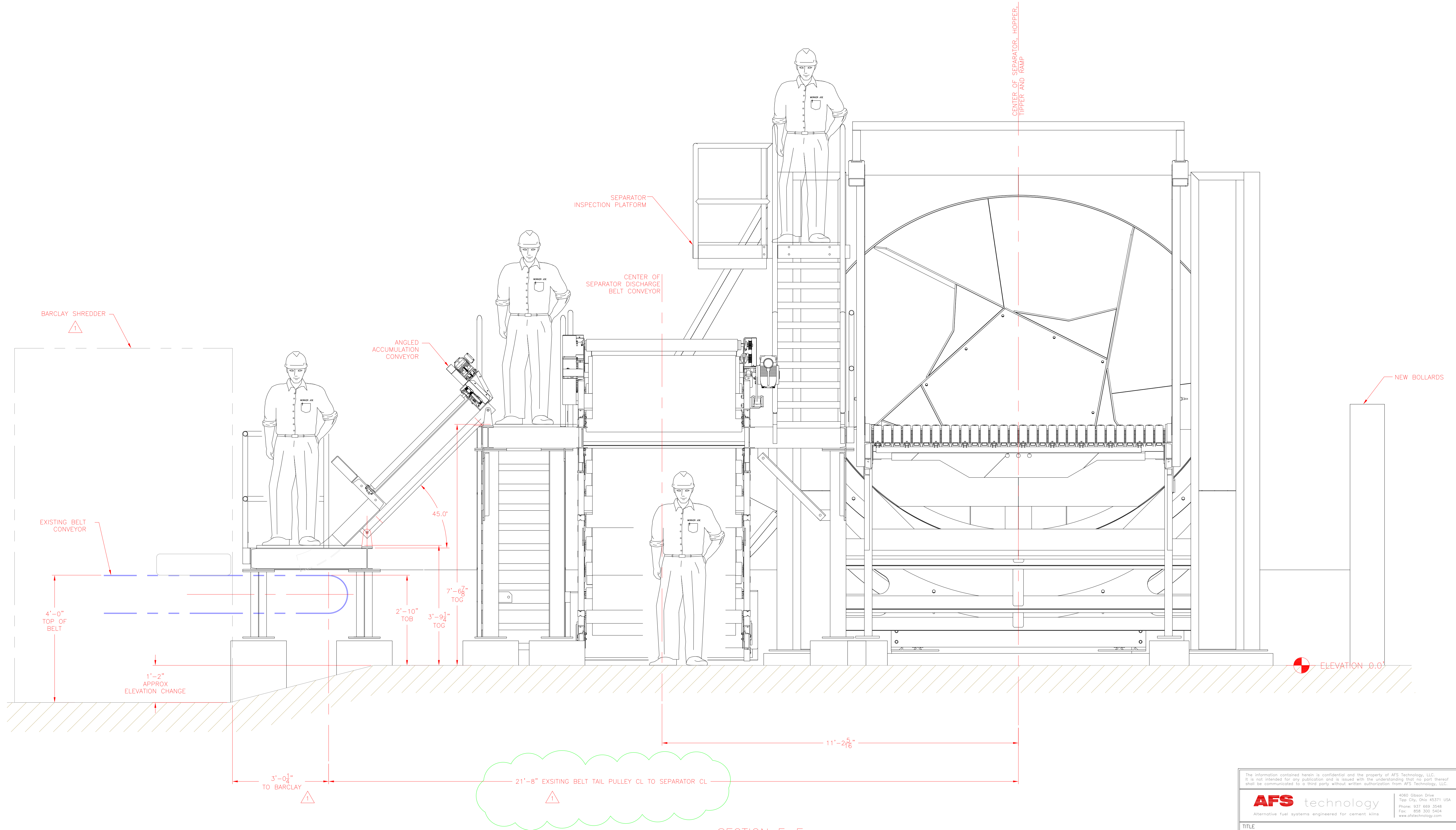
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TITLE  
 OKLAHOMA TIRE RECYCLERS  
 GENERAL ARRANGEMENT  
 SECTION A-A

DRAWN BY MR	SCALE 1/24	DATE 2016 DEC 20
CHECKED BY	APPROVED	PROJECT#

DWG. NO. 1619GA05 SHEET NO. 5 OF 6

NOTES:	0.0	0.03	1	0.03
Unless otherwise noted, the following shall apply:	0.00	0.015	//	0.03
1. All hardware is to be minimum grade 5 and zinc plated.	0.000	0.005	∕∕	0.03
2. Paint is to be Interseal two-part epoxy with minimum 5 mil DFT.	1/4"	1/32"	—	0.03
3. Surface prep is to be SSPC 2/3.	⊙	0.03	∠	0.03
4. All welds and corners are to be spot primed.				



SECTION E-E

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TITLE  
 OKLAHOMA TIRE RECYCLERS  
 GENERAL ARRANGEMENT  
 SECTION E-E

DRAWN BY MR SCALE 1/16 DATE 2016 DEC 28  
 CHECKED BY APPROVED PROJECT#

DWG. NO. 1619GA06 SHEET NO. 6 OF 6

1	15FEB2017	JT	MOVED SYSTEM TO WEST ADDED BARCLAY LOCATION
DRAWING CHANGES			
NOTES:	0.0	0.03	1 0.03
1. Unless otherwise noted, the following shall apply:	0.00	0.015	1/ 0.03
2. All hardware is to be minimum grade 5, and zinc plated.	0.000	0.005	1/ 0.03
3. Surface prep to be SSPC 2/3.	x/x	1/32	— 0.03
4. All welds and corners are to be spot primed.	⊗	0.03	1/ 0.03