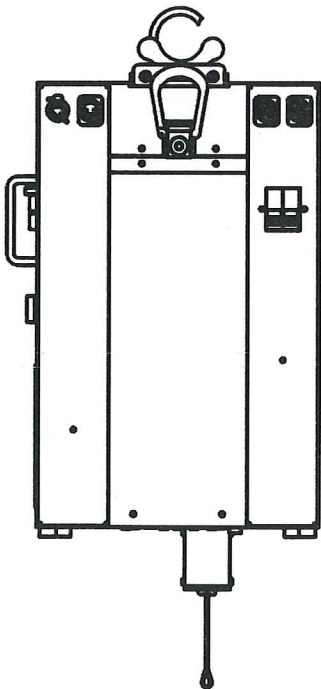
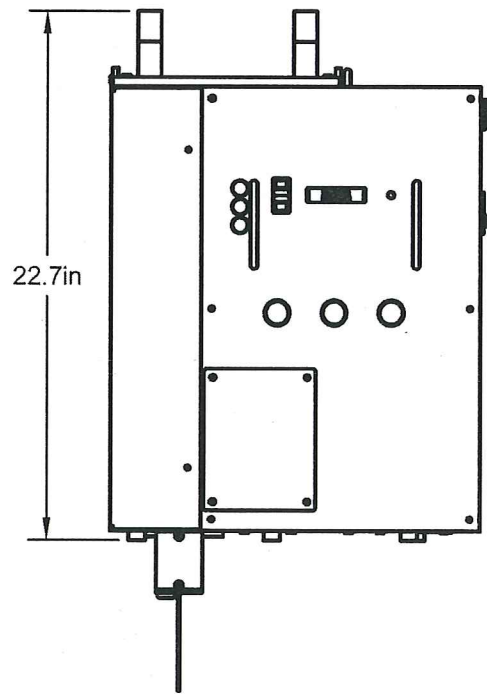
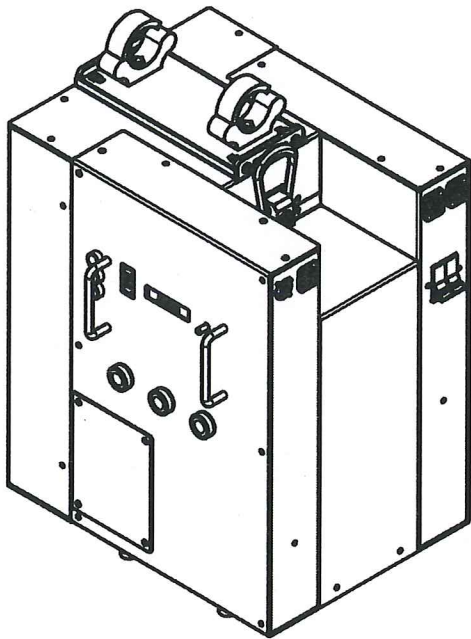
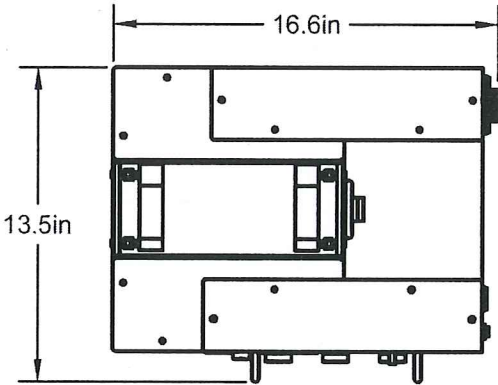
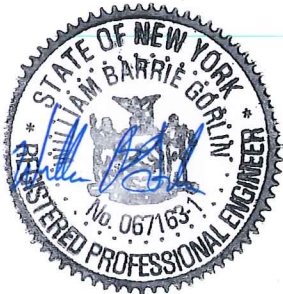


x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003




- SPOTLINE PRACTICAL DESIGN SPECIFICATIONS
- 1. MAXIMUM TRAVEL VELOCITY IS 44 INCHES PER SECOND.
 - 2. MAXIMUM CAPACITY IS 15 POUNDS.
 - 3. THIS HOIST IS ONLY DESIGNED FOR INDOOR USE.
 - 4. THIS HOIST SHALL BE USED FOR PERIODIC, TEMPORARY INSTALLATIONS.
 - 5. THIS HOIST SHALL ONLY BE OPERATED BY QUALIFIED INDIVIDUALS.

UNIT WEIGHT: 79.7LB



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	PROJECT			
	SPOTLINE PRACTICAL			
	TITLE			
	OVERVIEW			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP01	
DRAWN	Steve Hnath	7/21/2017	SCALE 1: 4	WEIGHT
			SHEET 1	

GENERAL NOTES

1. TECHNICAL STANDARDS

THE LOAD BEARING COMPONENTS WITHIN THE SPOTLINE PRACTICAL WINCH COMPLY WITH THE DESIGN REQUIREMENTS OF ANSI E1.6-1: 2012. THE STRUCTURAL FRAMING AND SUPPORT OF THESE COMPONENTS COMPLY WITH ANSI E1.6-1: 2012 OR ALUMINUM DESIGN MANUAL: 2005, WHICHEVER REQUIREMENT IS GREATER.

2. PERFORMANCE SPECIFICATIONS

1. THE MAXIMUM VELOCITY SHALL NOT EXCEED 44 INCHES PER SECOND.
2. THE MAXIMUM ACCELERATION SHALL NOT EXCEED 3 FEET PER SECOND².
3. THIS HOIST IS DESIGNED FOR INDOOR USE ONLY.
4. THIS HOIST SHALL BE USED FOR PERIODIC, TEMPORARY INSTALLATIONS.
5. THIS HOIST SHALL ONLY BE USED AS A SINGLE UNIT RAISING AND LOWERING A LOAD AS SPECIFIED. THESE HOISTS HAVE NOT BEEN ENGINEERED TO BE COMBINED WITH OTHER HOISTS OR WORKING IN TANDEM.
6. A SAFETY CABLE OF 1/8" OR GREATER STEEL WIRE ROPE MUST BE ATTACHED TO THE PROVIDED ATTACHMENT POINT WHEN IN USE.

3. DESIGN LOADS:

THE WINCH HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING:
- 15 LBS STATIC PAYLOAD

4. LOADING LIMITATIONS:

THE WINCH IS INTENDED FOR THEATRICAL USE AND IS NOT INTENDED FOR INDUSTRIAL RIGGING OR MATERIAL HANDLING APPLICATIONS.

5. FACILITY SUPPORT:

THE STRUCTURAL INTEGRITY OF THE SUPPORTING FACILITY DURING UNLOADING, INSTALLATION, USE, AND DISASSEMBLY IS THE RESPONSIBILITY OF THE END USER.

6. IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE IS REQUIRED, THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY. NO STRUCTURAL OR MECHANICAL CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

STRUCTURAL NOTES

1. ALUMINUM

A. MATERIAL: 6061-T6 FOR PLATES.

2. STEEL

A. SHEET THICKNESS: 16 GAUGE.

3. FASTENERS

- A. BOLTS FOR MECHANICAL CONNECTIONS SHALL BE SAE GRADE 5 OR HIGHER, ASSEMBLED USING PREVAILING TORQUE-TYPE ELASTIC STOP NUTS OR OTHER APPROVED VIBRATION-RESISTANT MECHANISM. WHEN APPROVED BY THE ENGINEER, STANDARD HEX NUTS WITH FLAT WASHERS MAY BE USED.
- B. DO NOT USE SPLIT WASHERS FOR MECHANICAL CONNECTIONS, U.O.N.
- C. USE LOCTITE "BLUE" #243 WHEREVER THREADLOCKING COMPOUND IS NOTED ON DRAWINGS, UNLESS OTHERWISE NOTED.
- D. ALL SET-SCREWS ARE TO BE SELF-LOCKING CUP POINT, NYLON PATCH TYPE, UNLESS OTHERWISE NOTED OR AS FURNISHED WITH PURCHASED SUB-ASSEMBLIES.
- E. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

MECHANICAL NOTES

1. COMMERCIAL/MANUFACTURED COMPONENTS:

- A. THESE COMPONENTS (MOTORS, BEARINGS, MODTRUSS, UNISTRUT, SWITCHES, SENSORS, ETC.) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED.
- B. MATERIALS FOR MECHANICAL COMPONENTS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
KEYSTOCK: A36, ZINC PLATED
SHAFT STOCK: 1045 TGP
- C. FOLLOW MANUFACTURERS' REQUIREMENTS PERTAINING TO THE USE, MAINTENANCE, LUBRICATION, AND INSPECTION OF ALL PURCHASED COMPONENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
BEARINGS
o IGUS EFOM-20
SERVOMOTOR WITH BRAKE
o MITSUBISHI HG-KN 23(B)(J)
OUTPUT BRAKE:
o P/N: KEB 0338F1X-005U
GEARBOX
o P/N: ATLANTA 59 01 039
LIFTING MEDIA
o CICOIL ULTRAFLEX CABLE
- D. LIFTING MEDIA AND ALL FASTENERS SHOULD BE PERIODICALLY INSPECTED BY A QUALIFIED PERSON.

2. MOTOR CONTROL PARAMETERS

- A. MOTOR TORQUE: LIMIT TO 1.28 NM.
- B. BRAKE DELAY: SET BRAKE DELAY TO OUTPUT BRAKE OF 150 MS OR GREATER. CONTROLLER MUST RETAIN ABILITY TO PROVIDE THIS DELAY IN THE EVENT OF A CATEGORY-0 STOPPING EVENT.

3. WIRE ROPE AND ASSOCIATED HARDWARE

- A. WIRE ROPE MATERIAL AND FABRICATION SHALL COMPLY WITH WIRE ROPE TECHNICAL BOARD "WIRE ROPE USERS MANUAL," LATEST EDITION.
- B. ALL HARDWARE SHALL BE LOAD RATED AND PROPERLY SIZED FOR THE WIRE ROPE USED, AND SHALL BE INSTALLED AND LOADED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. USE THIMBLES AT ALL TURNED EYES.
- D. ALL CRIMPED COMPRESSION SLEEVES SHALL BE OF SOLID COPPER OR PLATED COPPER MATERIAL
- E. ALL SWAGED FASTENERS INCLUDING CRIMPED COMPRESSION SLEEVES SHALL BE FROM AN APPROVED MANUFACTURER SUCH AS CROSBY, NICOPRESS®, LOOS & CO., OR APPROVED ALTERNATIVE
- F. ALL SWAGED FASTENERS SHALL BE GAUGED TO ENSURE PROPER COMPRESSION. VERIFY SETTING OF COMPRESSION EQUIPMENT PRIOR TO STARTING CRIMPING OPERATIONS.
- G. ALL EYE BOLTS SHALL BE FORGED AND RATED SHOULDER-TYPE, UNLESS OTHERWISE NOTED.

RISK MITIGATION AND END USER RESPONSIBILITY

THE DESIGN OF THE SPOTLINE PRACTICAL WINCH INCLUDES SAFETY DEVICES WHERE POSSIBLE, INCLUDING SLACK-LINE DETECTION AND REDUNDANT BRAKES; HOWEVER, GIVEN ITS USE AS A HOIST WITH INTEGRATED POWER CONDUCTOR IN THE LIFTING MEDIA, THE USER MUST UNDERSTAND THE RISKS AND PLAY AN ACTIVE ROLE IN MAKING THE INSTALLATION AS SAFE AS POSSIBLE. THE DESIGN TEAM HAS ATTEMPTED TO IDENTIFY AND PROVIDE GUIDANCE TO MITIGATE THE APPARENT STRUCTURAL/MECHANICAL HAZARDS. THESE HAZARD MITIGATIONS MAY INCLUDE BUT NOT BE LIMITED TO:


- A. TAKING PRECAUTIONS TO PREVENT SLICING, ABRADING, OR SEVERING THE LIFTING MEDIA
- B. PERIODIC INSPECTIONS OF THE LIFTING MEDIA AND ELECTRICAL CONNECTIONS

IN ADDITION TO THE AFOREMENTIONED RISKS, THE END USER SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE RISKS TO PERSONS OR PROPERTY THAT ARE LIKELY TO OCCUR DURING THE INSTALLATION AND DISASSEMBLY OF THE WINCH. BEST PRACTICES INCLUDING BUT NOT LIMITED TO SAFE LIFTING, RIGGING, AND APPLICABLE OSHA AND LOCAL REGULATIONS SHALL BE FOLLOWED AT ALL TIMES.

THE AFOREMENTIONED RISKS AND MITIGATION RECOMMENDATIONS APPLY ONLY TO SPECIFIC STRUCTURAL AND MECHANICAL HAZARDS. THESE DRAWINGS DO NOT CONSTITUTE A REVIEW OR APPROVAL OF THE ELECTRICAL, CONTROL AND POWER DISTRIBUTION SYSTEM(S). A FULL RISK ASSESSMENT AND HAZARD ANALYSIS OF THESE SYSTEMS AS WELL AS THEIR RELATION TO OPERATIONAL PROCEDURES MAY BE REQUIRED, BUT IS NOT THE RESPONSIBILITY OF THE STRUCTURAL/MECHANICAL ENGINEER.



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	PROJECT SPOTLINE PRACTICAL			
	TITLE GENERAL NOTES			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP02	
DRAWN	Steve Hnath	7/21/2017	SCALE	WEIGHT
			SHEET 2	

x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003

COMPLETED DRUM
SCALE 1:4

DRUM INTERIOR
SCALE 1:2


TERMINATE 3/32" WIRE ROPE MESSENGER
THROUGH SCREW IN POCKET

PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	TOUCH-SAFE TERMINAL BLOCK - MMC 7618K613		STEEL
2	12	#10 WASHER - CCI 1715		STEEL
3	2	DRUM CHEEK PLATE		ACRYLIC, CLEAR
4	6	10-32 NYLOCK - CCI 392		STEEL
7	1	DRUM CORE - MMC 85035K62		ACETAL RESIN, BLACK
8	1	TERMINAL BLOCK SPACER		ALUMINUM 6061
9	2	4-40 X 1-1/2" SHCS - CCI 1947		STEEL
10	2	4-40 NYLOCK - CCI 639		STEEL
11	1	HUB		ALUMINUM 6061
12	6	10-32 X 1-1/2 LHCS - MMC 92220A178		STEEL
13	3	1/4 X 1-1/4 SHCS - MMC 91251A544		STEEL
14	3	1/4 NYLOCK - CCI 515		STEEL
15	2	1/4 X 1/4 SET SCREW - CCI 810		STEEL

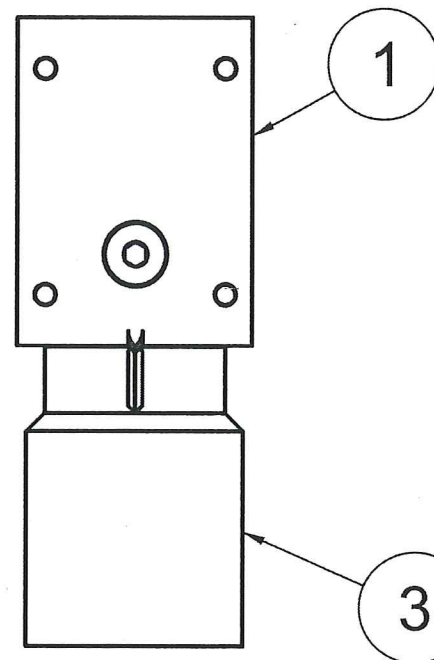
NOTE: TORQUE ALL #10 SCREWS TO 2 FT-LB
NOTE: TORQUE ALL 1/4" SCREWS TO 6 FT-LB



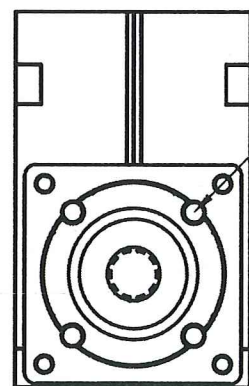
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	TITLE DRUM			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP03	
DRAWN	Steve Hnath	7/21/2017	SCALE VARIES	WEIGHT
			SHEET 3	

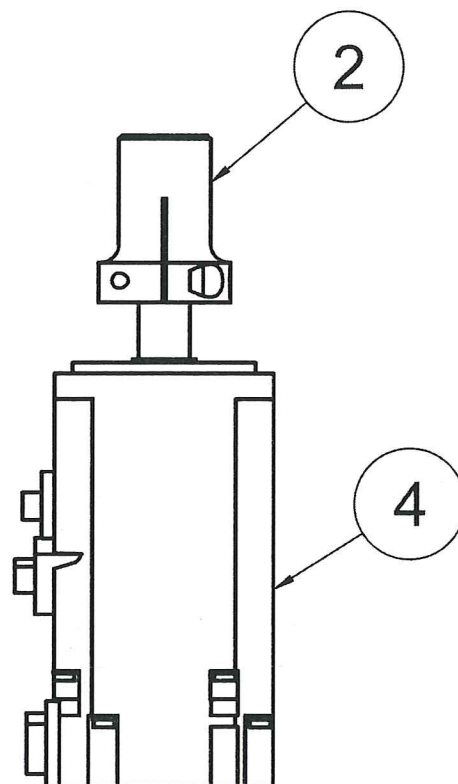
x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



FLANGE
ATTACHMENT



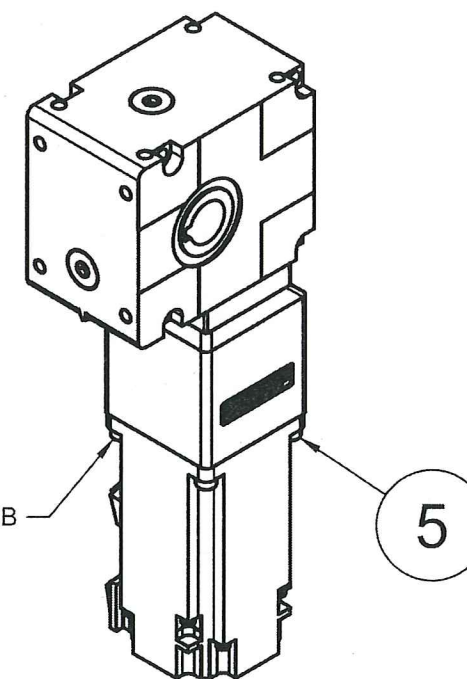
USE MFG PROVIDED M5 SHCS
TORQUE TO 5 FT-LB



COUPLER
ATTACHMENT

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	1	ATLANTA DRIVES - 5901039 V1		STEEL
2	1	ATLANTA DRIVES - 6551014 - MITSU COUPLER V1		STEEL
3	1	ATLANTA DRIVES - 6559102 - MITSU FLANGE V1		STEEL
4	1	MITSUBISHI HG-KR23BJK V1		STEEL
5	4	M5 X 16 SHCS - CCI 1931		STEEL



TORQUE M5 SCREWS TO 5 FT-LB

GEARBOX
ATTACHMENT



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PROJECT

SPOTLINE PRACTICAL

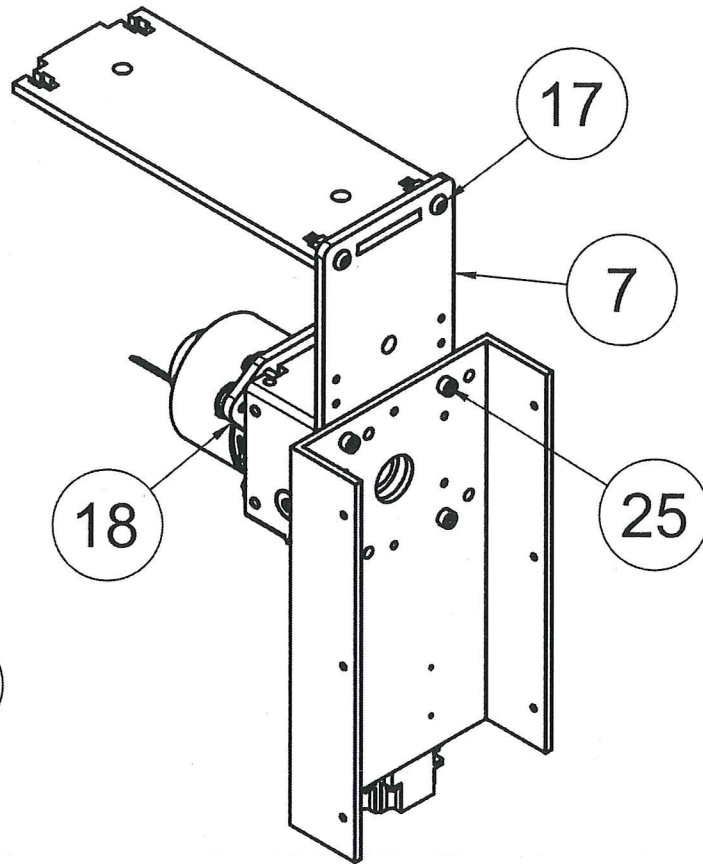
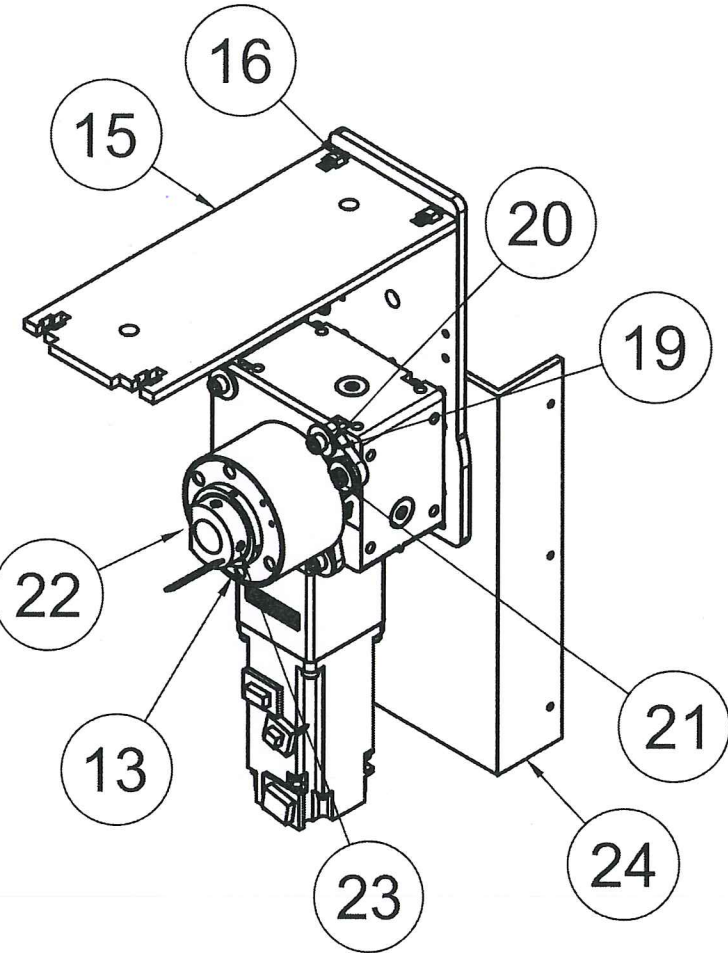
TITLE

POWERTRAIN ASSEMBLY

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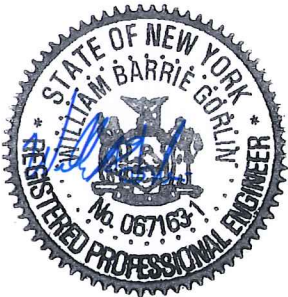
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CHECKED	B		SLP04	
DRAWN Steve Hnath7/21/2017	SCALE 1: 2	WEIGHT	SHEET 4	

x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



PARTS LIST

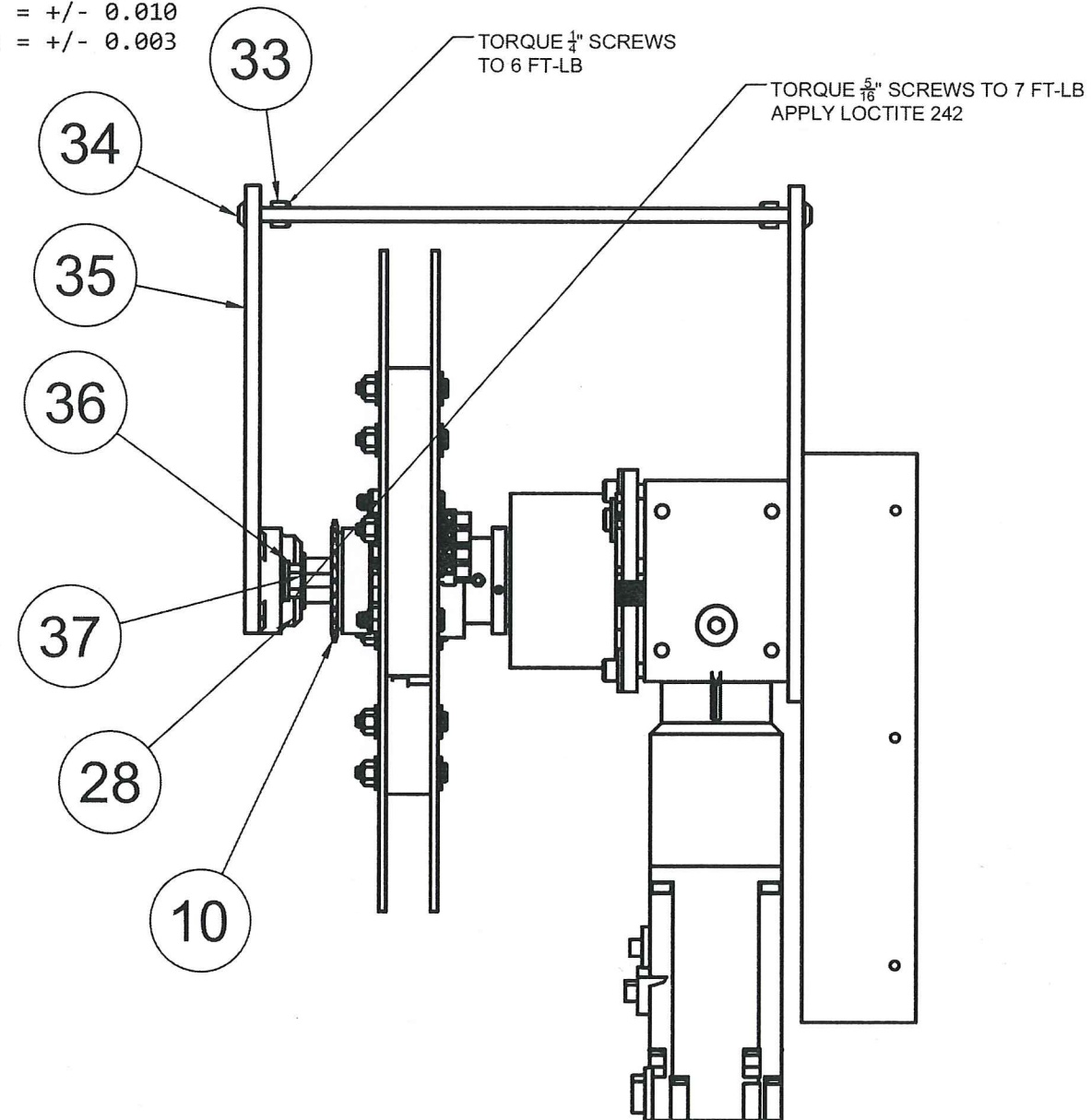
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
7	1	MOTOR SIDE PLATE		ALUMINUM 6061
13	1	ORBEX THROUGH-BORE SLIP RING V3		STEEL
15	1	YOKE TOP		ALUMINUM 6061
16	2	1/4 NYLOCK - CCI 515		STEEL
17	2	1/4 X 1 BHCS - CCI 1354		STEEL
18	1	GEARBOX ADAPTER		ALUMINUM 6061
19	6	1/4 WASHER - CCI 753		STEEL
20	4	1/4 X 3-1/4 SHCS - MMC 91251A555		STEEL
21	2	1/4 X 3/8 LHCS - CCI 1213		STEEL
22	1	T-BUSHING		ACETAL RESIN, WHITE
23	2	1/4 X 1/4 SET SCREW - CCI 810		STEEL
24	1	SPINE		ALUMINUM 6061
25	4	1/4 X 7/16 SHCS - MMC 91864A062		STEEL



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	PROJECT SPOTLINE PRACTICAL			
	TITLE POWERTRAIN STRUCTURE			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP05	
DRAWN	Steve Hnath	7/21/2017	SCALE 1: 4	WEIGHT
			SHEET 5	

x/x = +/- $\frac{1}{16}$ "
.xx = +/- 0.010
.xxx = +/- 0.003

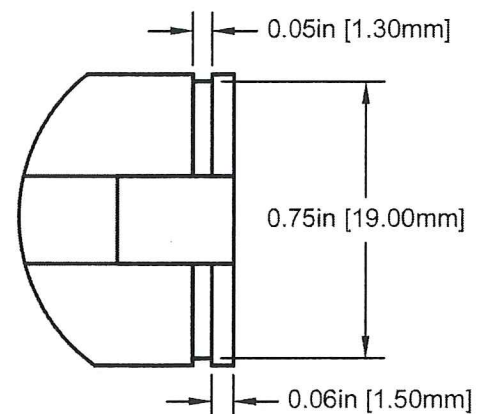
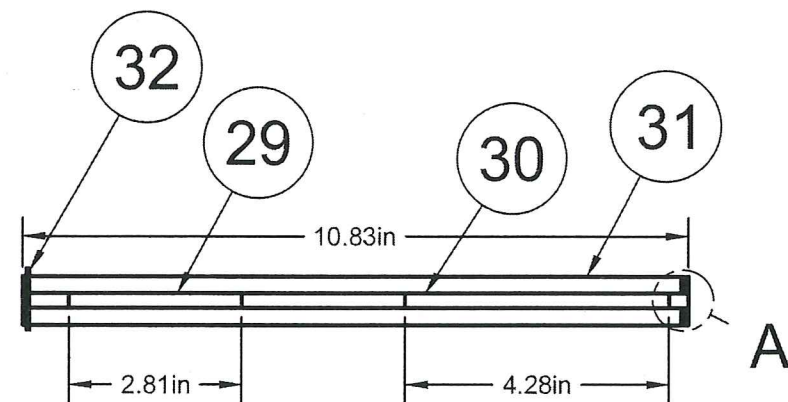


PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
10	1	NYLON SPROCKET - MMC 60425K29		ACETAL RESIN, WHITE
28	1	IGUS EFOM_20_1 V1		STEEL
29	1	DRUM KEY		STEEL
30	1	GEARBOX KEY		STEEL
31	1	MAIN SHAFT		STEEL
32	1	20MM SNAP RING - MMC 98541A123		STEEL
33	2	1/4 NYLOCK - CCI 515		STEEL
34	2	1/4 X 1 BHCS - CCI 1354		STEEL
35	1	DRUM PLATE		ALUMINUM 6061
36	2	5/16 SAE WASHER - MMC 90126A030		STEEL
37	2	5/16 X 3/4 HHCS - MMC 92865A581		STEEL



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DETAIL A
SCALE 2:1

DRIVE SHAFT
20mm 1045 TGP KEYED SHAFT STOCK

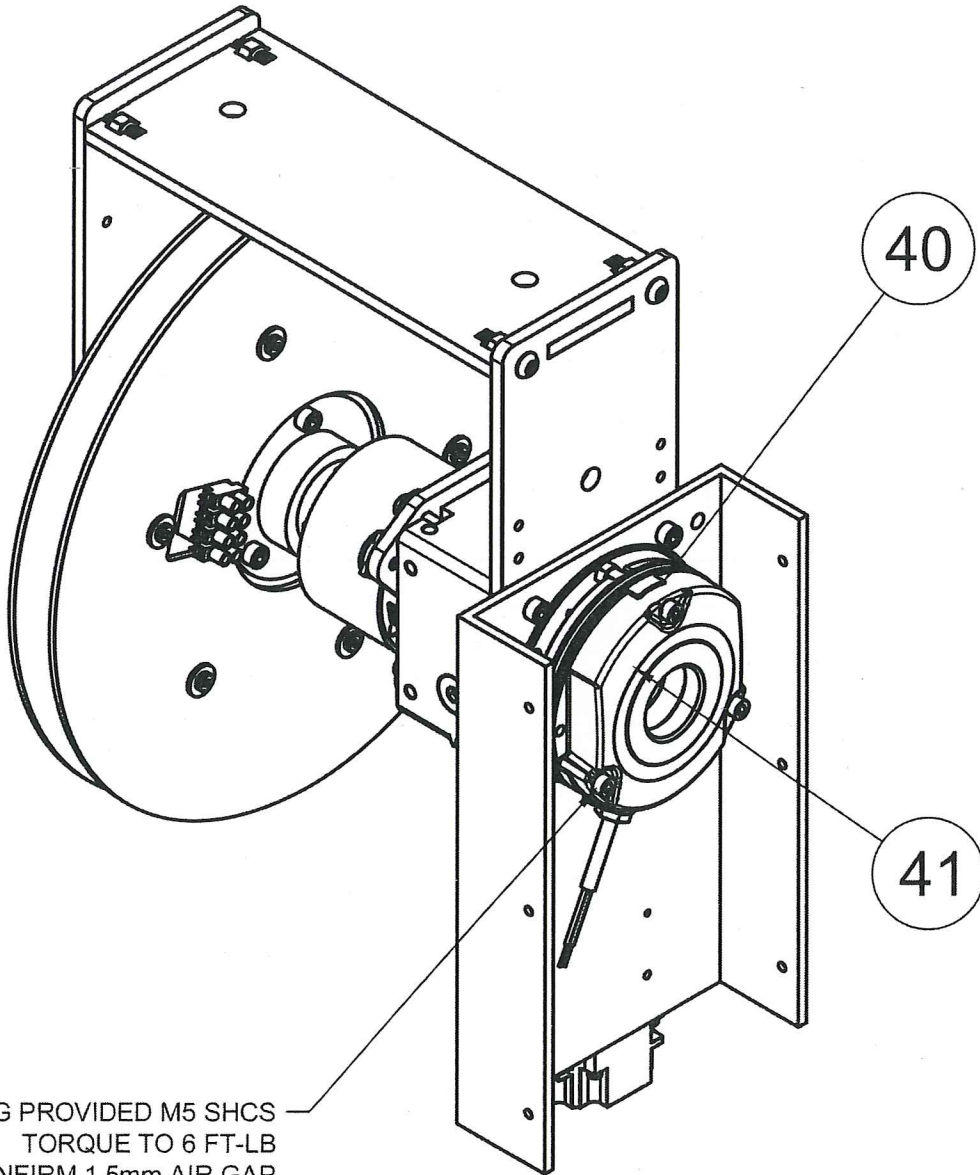


PROJECT
SPOTLINE PRACTICAL
TITLE
SHAFTING

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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP06	
DRAWN Steve Hnath7/21/2017	SCALE 1: 3	WEIGHT	SHEET 6	

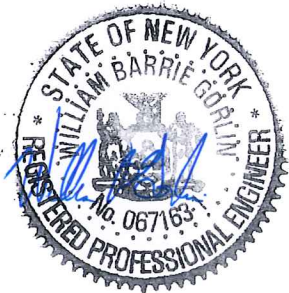
x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



USE MFG PROVIDED M5 SHCS
TORQUE TO 6 FT-LB
CONFIRM 1.5mm AIR GAP

PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
40	1	KEB 0338F1X005U_REVA V1		STEEL

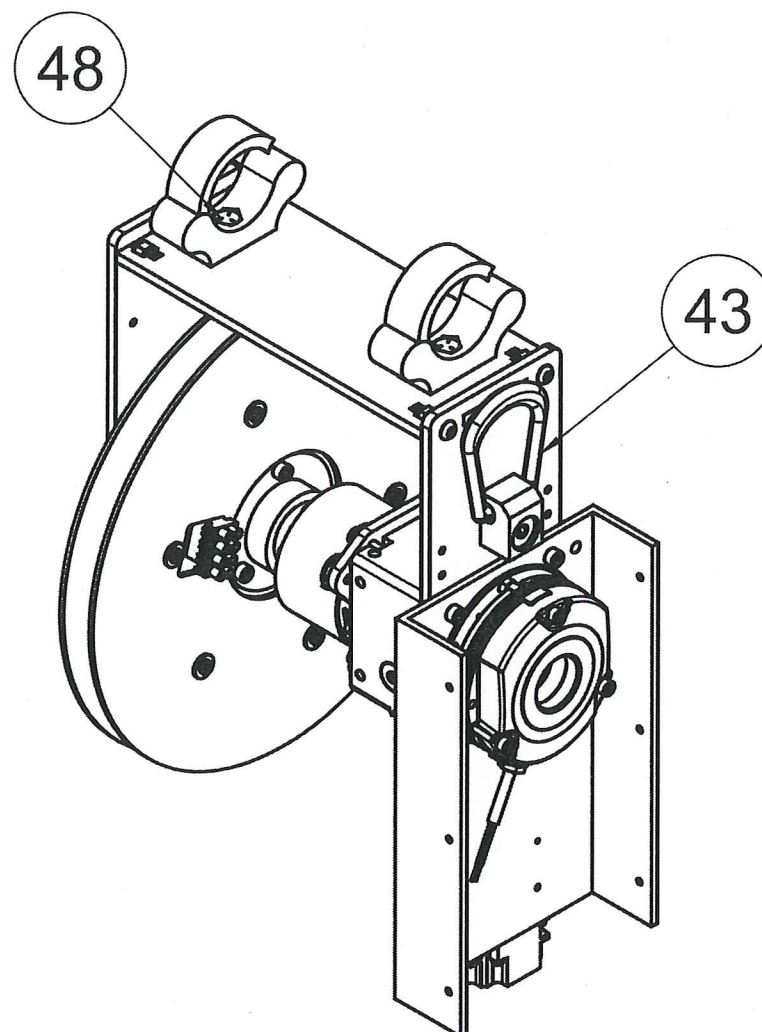
PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
41	1	20MM SNAP RING - MMC 98541A123		STEEL



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		PROJECT SPOTLINE PRACTICAL		
		TITLE LOAD BRAKE		
APPROVED		This drawing is the property of Creative Conners, Inc. Copyright 2017. All rights reserved.		
CHECKED		SIZE B	CODE	DWG NO SLP07
DRAWN Steve Hnath7/21/2017		SCALE 1: 3	WEIGHT	REV
		SHEET 7		

x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



47 TORQUE HOISTING RING NUT TO 10 FT-LB

TORQUE 3/8" BOLTS TO 23 FT-LB

PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
42	2	THE LIGHT SOURCE SLIM COUPLER V1		STEEL
43	1	SIDE MOUNT HOISTING RING - ACTEK #68210		STEEL

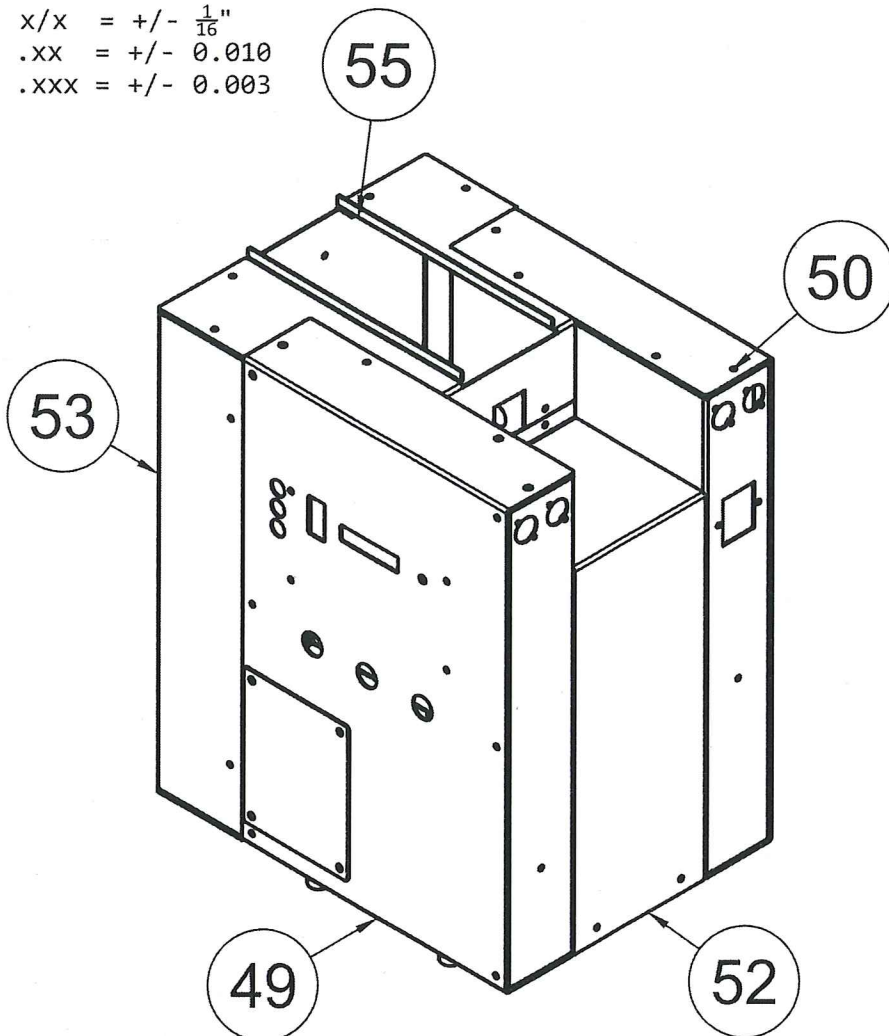
PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
45	2	3/8 WASHER - CCI 811		STEEL
46	3	3/8 NYLOCK - CCI 620		STEEL
47	1	3/8 GR. 8 JAM NYLOCK - CCI 1727		STEEL
48	2	3/8 X 1-1/4" HHCS - CCI 795		STEEL



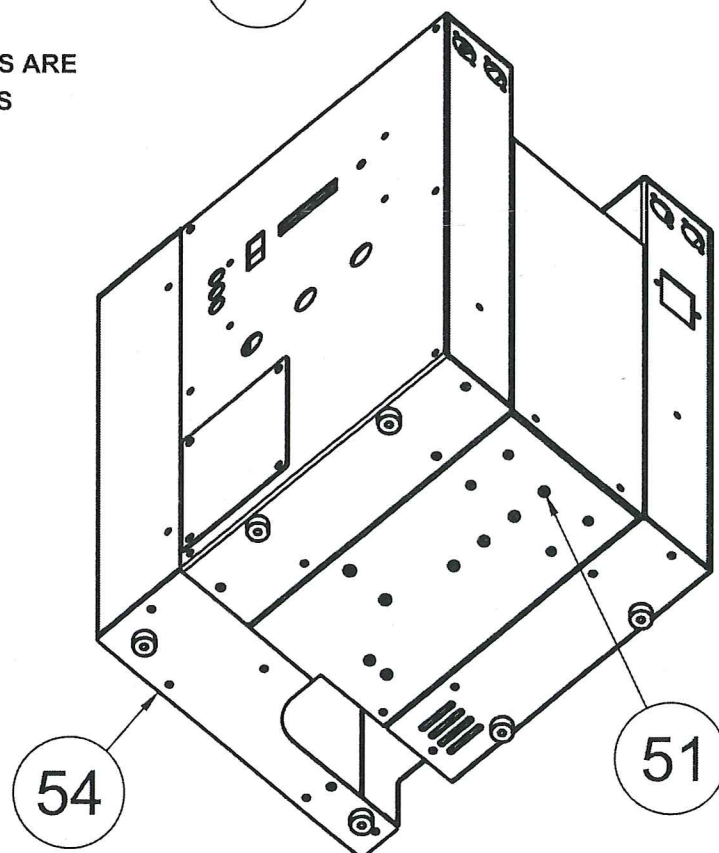
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	PROJECT SPOTLINE PRACTICAL			
	TITLE RIGGING HARDWARE			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP08	
DRAWN	Steve Hnath	7/21/2017	SCALE 1: 4	WEIGHT
			SHEET 8	

x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



NOTE: SHEET METAL ENCLOSURES ARE
CONNECTED WITH #10-32 x 1/2" SHCS



PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
49	1	STAGEHAND ENCLOSURE		
50	1	DRIVE ENCLOSURE		
51	1	BOTTOM PAN		STEEL
52	1	BRAKE COVER		STEEL
53	1	DRUM CLADDING		STEEL
54	1	BOTTOM PLATE		
55	1	TOP FLANGE		STEEL


STAGEHAND ENCLOSURE CONTENTS:
CREATIVE CONNERS STAGEHAND CONTROL BOARD
BRAKE TEST PCB
BRAKE TEST BUTTONS
LIMIT OVERRIDE PUSHBUTTONS

DRIVE ENCLOSURE CONTENTS:
MITSUBISHI MR-J4A SERVO DRIVE
(2) 10A UL489 CIRCUIT BREAKERS

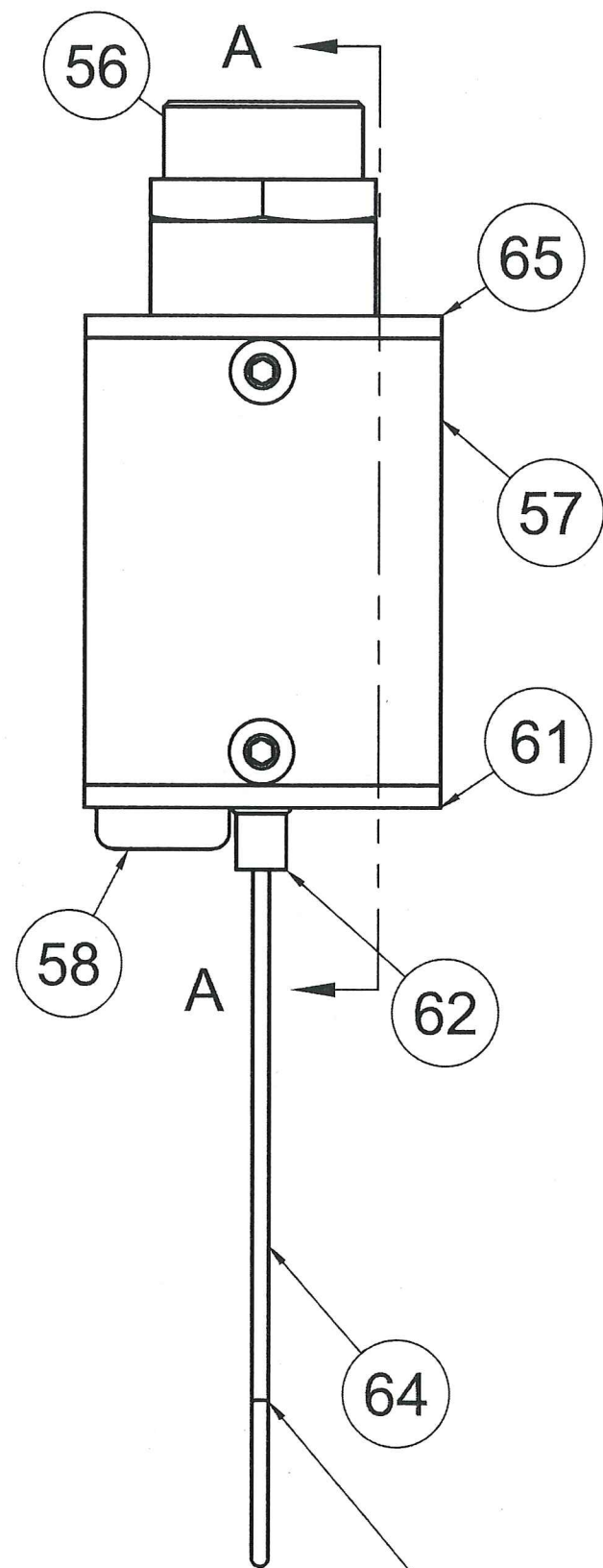
BOTTOM PAN CONTENTS:
24V POWER SUPPLY
12V POWER SUPPLY
DUAL-CHANNEL SAFETY RELAY
MOTOR BRAKE CONTROL RELAY
LOAD BRAKE CONTROL RELAY
LOAD BRAKE RECTIFIER
ROTARY LIMIT SWITCH
SLACK LINE LIMIT SWITCH
END-OF-TRAVEL LIMIT SWITCH



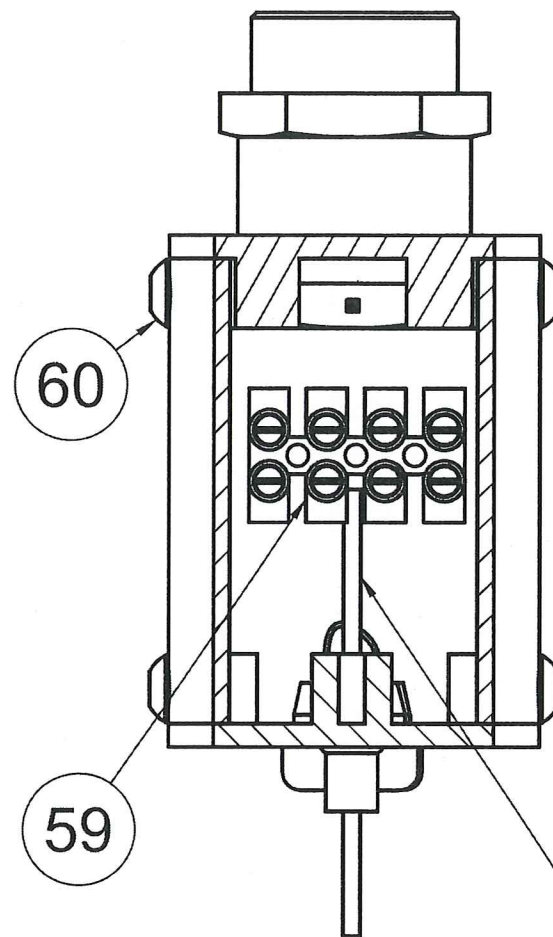
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	PROJECT SPOTLINE PRACTICAL			
	TITLE SHEET METAL CLADDING			
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APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP09	
DRAWN	Steve Hnath	7/21/2017	SCALE 1: 4	WEIGHT
			SHEET 9	

x/x = +/- 1/16"
.xx = +/- 0.010
.xxx = +/- 0.003



TERMINATE MESSENGER WITH THIMBLE AND OVAL SLEEVE



SECTION A-A
SCALE 1:1

WIRE ROPE PASSES UNINTERRUPTED THROUGH TERMINATION

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
56	1	SKINDICHT SVFK PG 21 ART. NR. 52005680(F1=9,F2=3) V2		STEEL
57	1	BODY		ALUMINUM
58	1	SNAP-IN CORD GRIP - MMC 74125K74		STEEL
59	1	TOUCH-SAFE TERMINAL BLOCK - MMC 7618K613		STEEL
60	4	10-32 X 1/4 BHCS - MMC 91255A261		STEEL
61	1	BOTTOM CAP		ALUMINUM
62	1	3/32 STOP SLEEVE		STEEL
63	1	GROMMET - MMC 9600K17		STEEL
64	1	3/32 MESSENGER		STEEL
65	1	TOP CAP		ALUMINUM



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PROJECT

SPOTLINE PRACTICAL

TITLE

BOTTOM TERMINATION

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APPROVED

CHECKED

DRAWN Steve Hnath7/21/2017

SIZE

B

CODE

DWG NO

SLP10

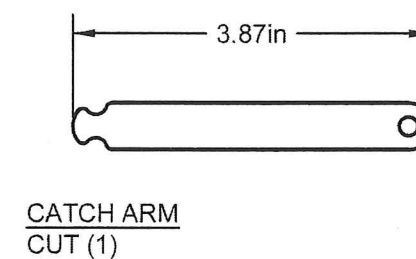
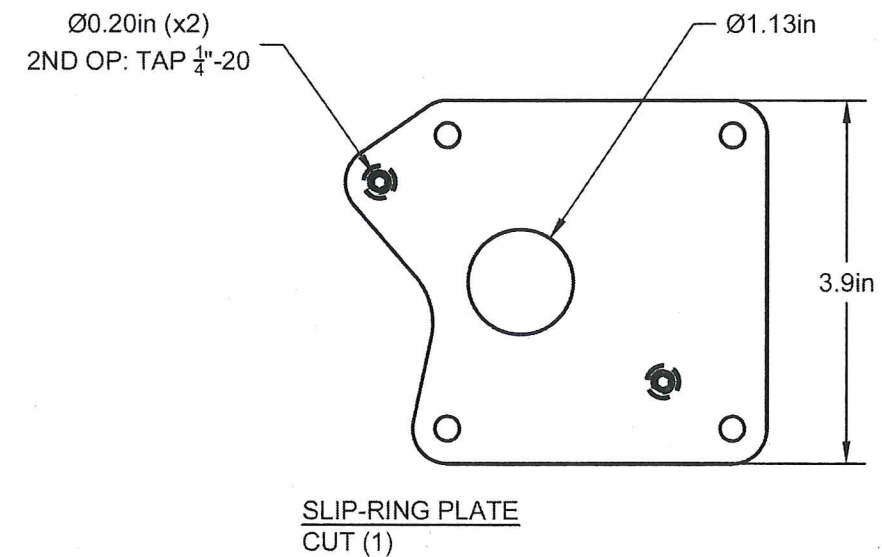
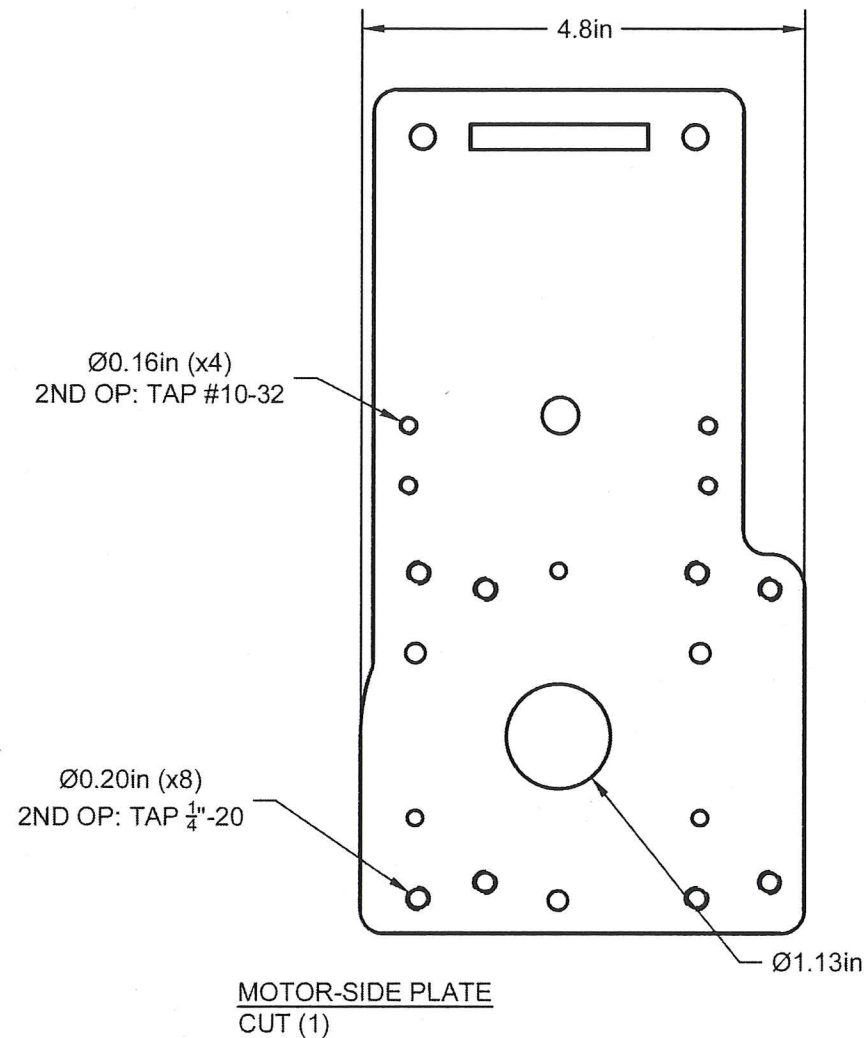
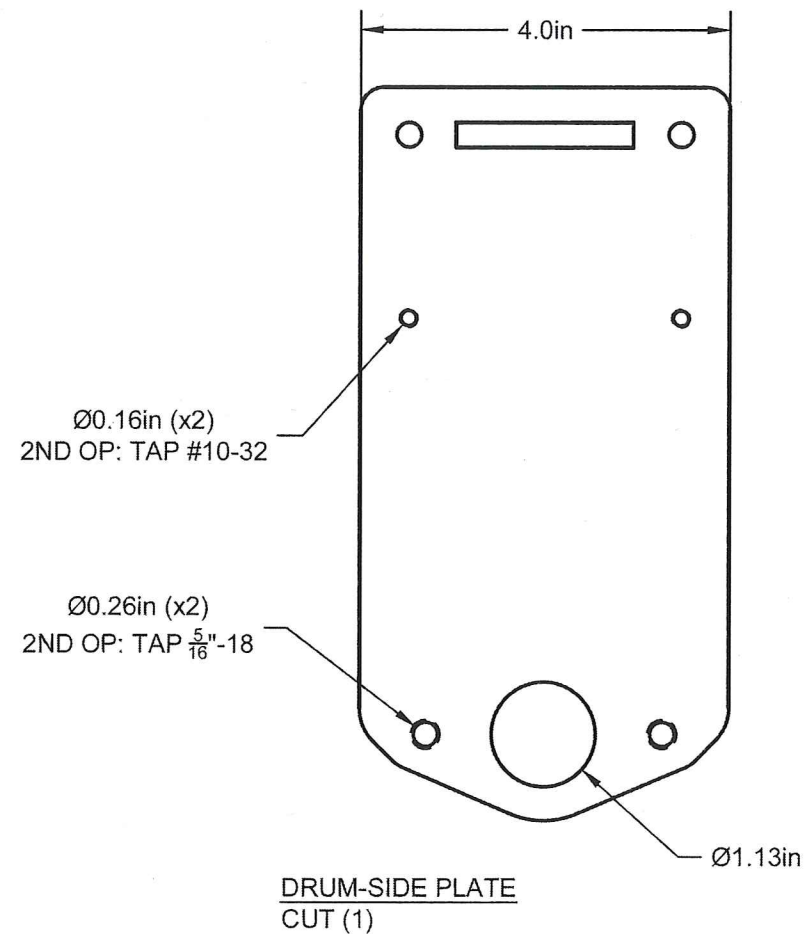
REV

SCALE 1: 4

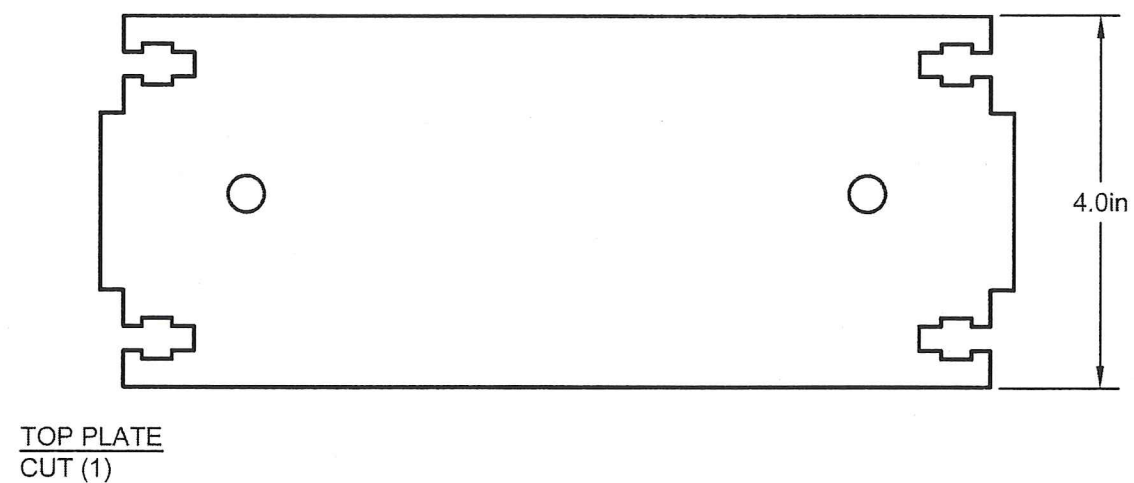
WEIGHT


SHEET 10

x/x = +/- $\frac{1}{16}$ "
 .xx = +/- 0.010
 .xxx = +/- 0.003



The Professional Engineers'
 Signature And Seal Affixed
 To This Drawing Is For
 Structural Adequacy Only



		PROJECT		
		SPOTLINE PRACTICAL		
		TITLE		
		0.25 6061-T6 WJ OVERVIEW		
		This drawing is the property of Creative Connors, Inc. Copyright 2017. All rights reserved.		
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B		SLP11	
DRAWN	Steve Hnath5/22/2017	SCALE 1: 2	WEIGHT	SHEET 11