

|  | Document Name                 | Date    | Rev. | Page    | Bulletin |
|-----------------------------------------------------------------------------------|-------------------------------|---------|------|---------|----------|
|                                                                                   | PRINT & PARTS LIST SUPPLEMENT | 4/16/18 | B    | 1 of 56 | 1162S    |

# **Hollister-Whitney Elevator Corporation**

## **PRINT & PARTS LIST SUPPLEMENT GL101, GL131, GL171, GL130A, GL185 and GL260 AC Permanent Magnet, Gearless Machines With Outboard Stands**

**See also Bulletin 1162: Installation and Service Manual, at:**

<http://www.hollisterwhitney.com/#tech-support>

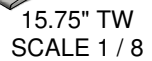
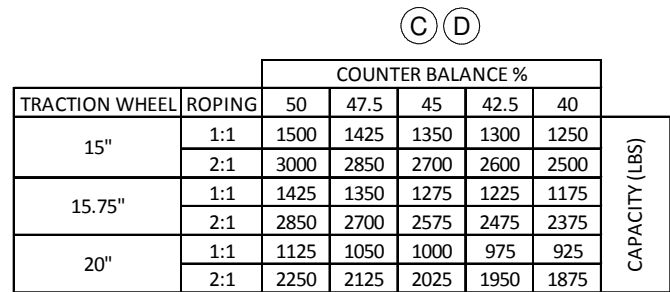


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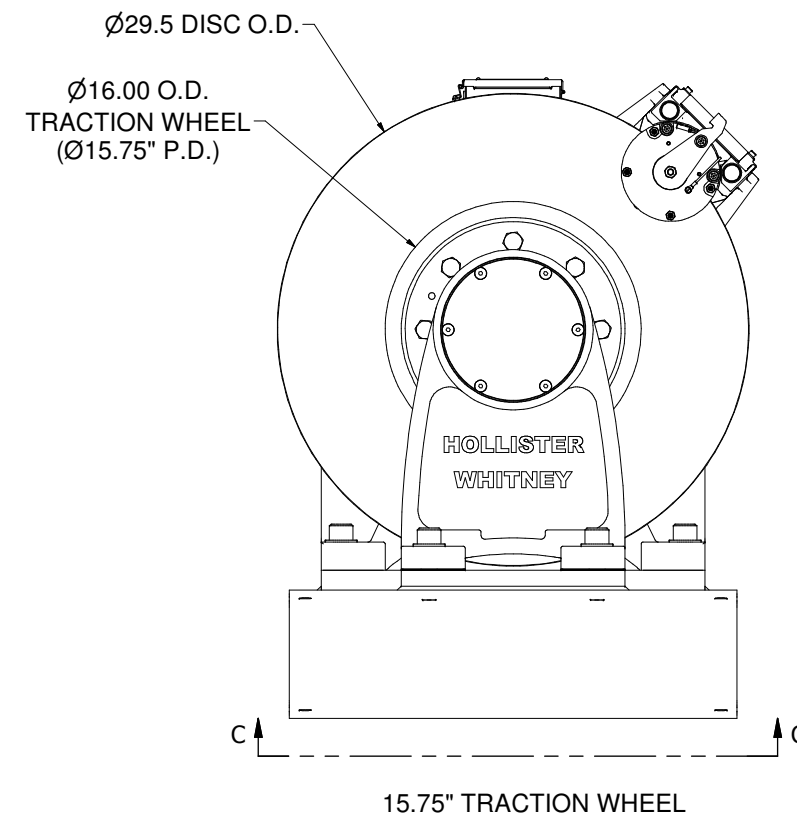
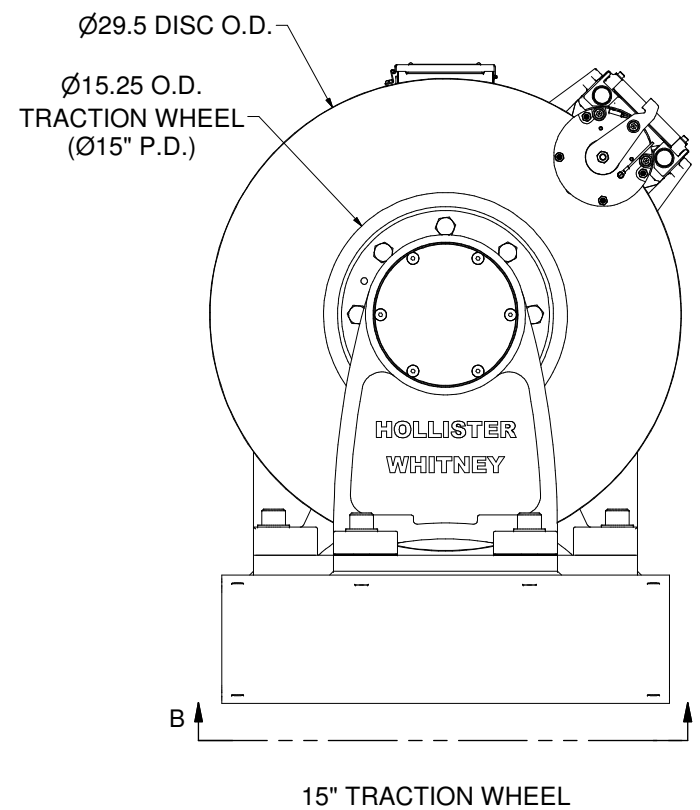
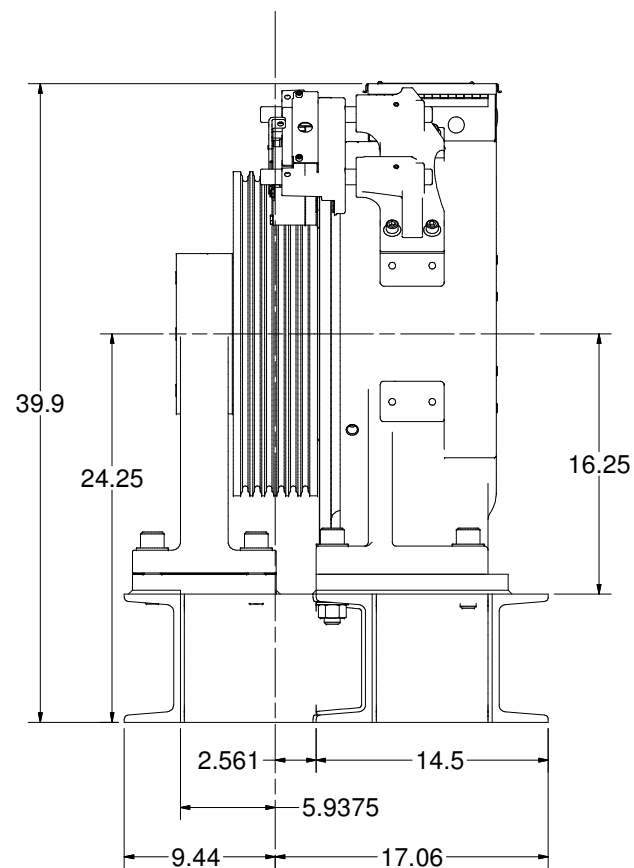
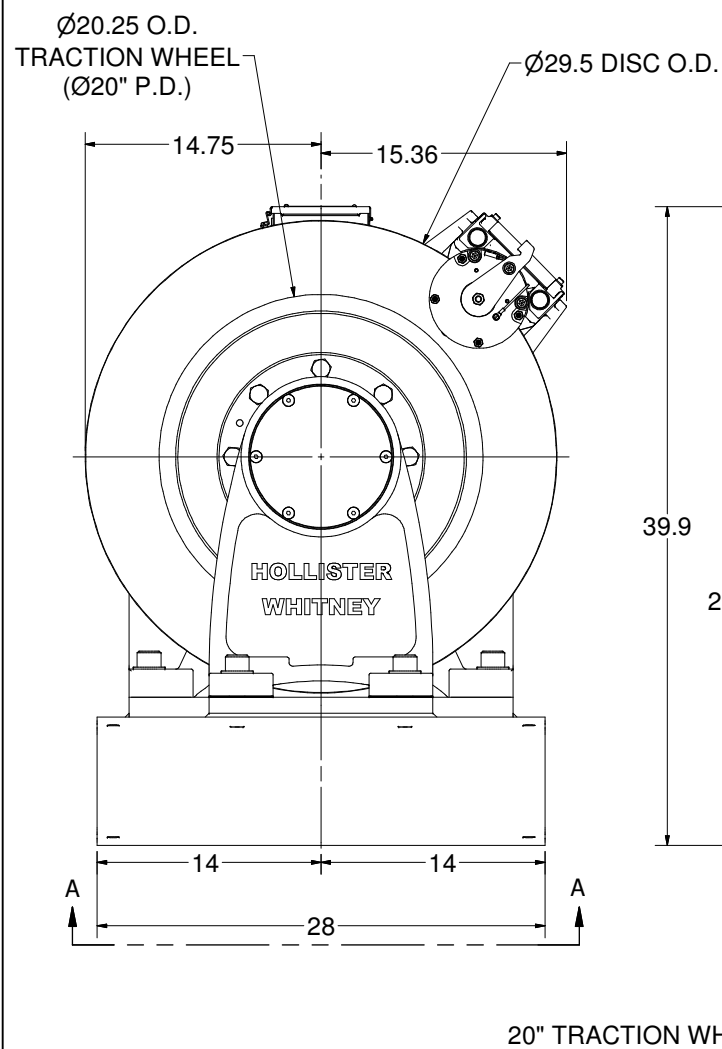
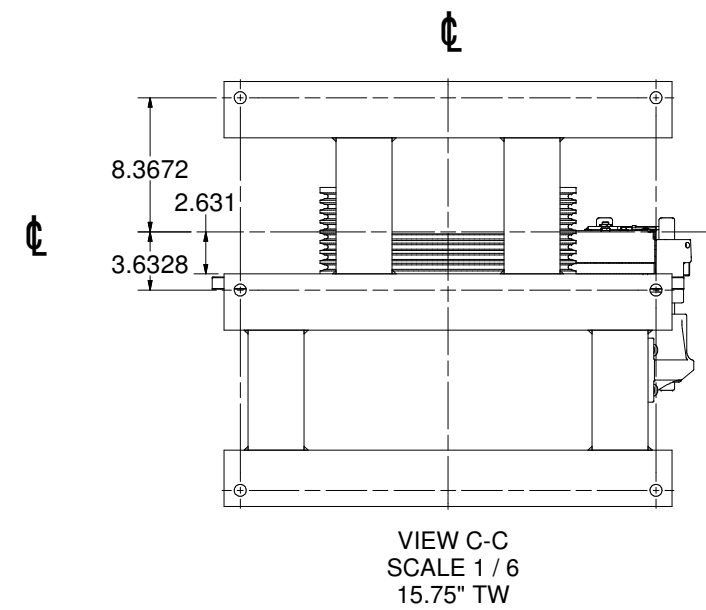
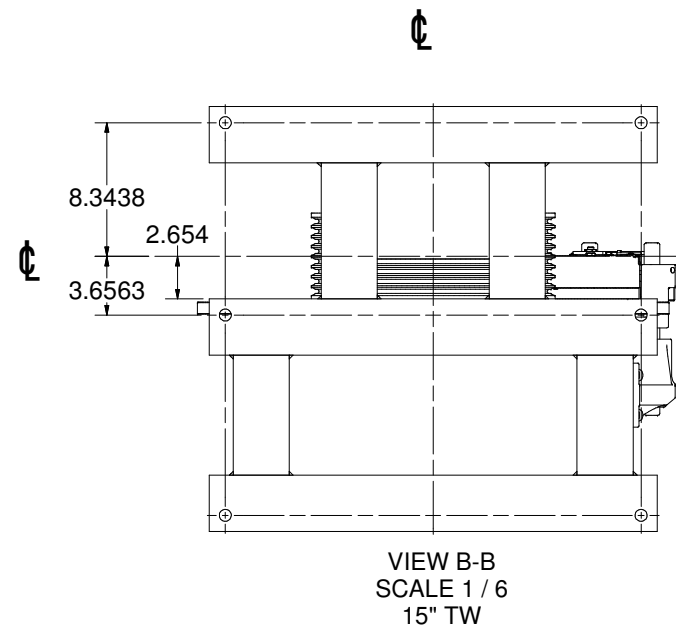
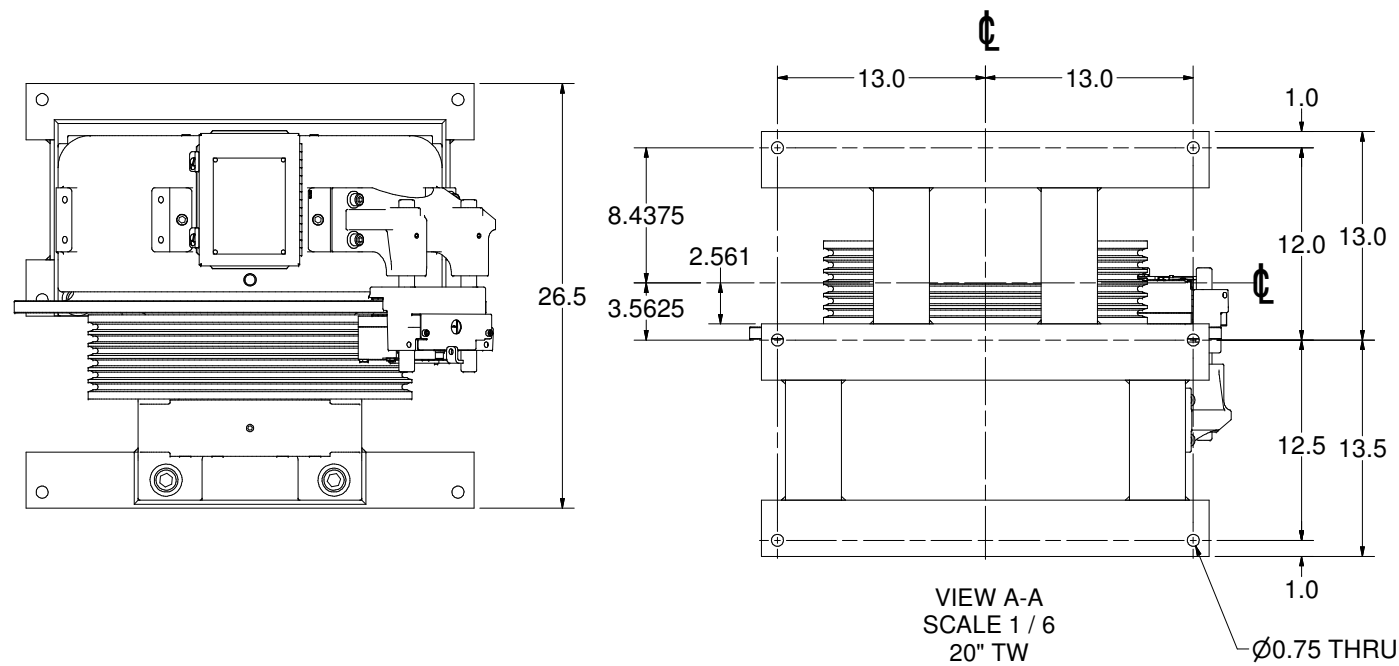




| ITEM | QTY     | PART NUMBER           | DESCRIPTION                                     |                                               |
|------|---------|-----------------------|-------------------------------------------------|-----------------------------------------------|
| 1    | 1       | GL101B-01             | BASE FABRICATION - FINISHED                     |                                               |
| 2    | 1       | GL100-001             | BASE HOUSING, MOTOR #GL100                      |                                               |
| 3    | 1       | GL101-002             | ROTOR ASSEMBLY, MOTOR #GL100                    |                                               |
|      | 3.1     | 1                     | GL101-004                                       | ROTOR                                         |
|      | 3.2     | 28                    | GL100-099                                       | PERMANENT MAGNET - MOTOR #GL100               |
| 4    | 1       | GL260-005             | BEARING CAP                                     |                                               |
| 5    | 1       | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |                                               |
| 6    | 1       | GL100-010             | 20" TW (6 x 1/2" ROPE MAX)                      |                                               |
|      |         | GL101-009             | 15" TW (8 x 3/8" ROPE MAX)                      |                                               |
|      |         | GL101-011             | 15.75" TW (8 x 3/8" ROPE MAX)                   |                                               |
| 7    | 1       | GL101-018             | MAIN SHAFT                                      |                                               |
| 8    | 1       | GL185-019             | END CAP                                         |                                               |
| 9    | 1       | GL171-020             | BEARING END CAP                                 |                                               |
| 10   | 8       | GL100-073             | BODY BOLT                                       |                                               |
| 11   | 1       | GL100-088             | KEY - STATOR CORE TO BASE                       |                                               |
| 12   | 1       | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |                                               |
| 13   | 1       | GL100-090             | Bearings, Sealed Spherical Roller               |                                               |
| 14   | 1       | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |                                               |
| 15   | 1       | GL100-092             | RETAINING RING - SHAFT                          |                                               |
| 16   | 3       | GL130-092             | RETAINING RING - SHAFT                          |                                               |
| 17   | 1       | GL100-093             | RETAINING RING - HOUSING                        |                                               |
| 18   | 1       | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |                                               |
| 19   | 1       | GL100-095             | KEY - ROTOR TO SHAFT                            |                                               |
| 20   | 1       | GL100-100             | WINDING ASSEMBLY                                |                                               |
| 21   | 1       | GL100-146             | DISC BRAKE (MAYR #6) - MRL                      |                                               |
|      | 21.1    | 1                     | GL100-146-115                                   | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC) |
|      | 21.2    | 1                     | 142-001                                         | BRAKE BASE                                    |
|      | 21.3    | 1                     | 146-003                                         | COVER - MAYR #6 ELECTRICAL                    |
|      | 21.4    | 2                     | 142-012                                         | BRAKE ROD                                     |
|      | 21.5    | 4                     | 1/2-13 UNC x 2                                  | SOCKET HEAD CAP SCREW                         |
|      | 21.6    | 4                     | 1/2" WASHER                                     | STANDARD WASHER                               |
|      | 21.7    | 2                     | 3/8-16 UNC x 0.375                              | SET SCREW                                     |
|      | 21.8    | 2                     | M6 x 1.00 x 8mm                                 | SHCS - Metric                                 |
| 22   | As Nec. | GL171-157-05          | OUTBOARD STAND SHIM - 0.005"                    |                                               |
|      |         | GL171-157-10          | OUTBOARD STAND SHIM - 0.010"                    |                                               |
|      |         | GL171-157-31          | OUTBOARD STAND SHIM - 0.031"                    |                                               |
| 23   | 1       | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |                                               |
| 24   | 1       | GL100-165             | FELT DUST SEAL                                  |                                               |
| 25   | 2       | 1 - 8 UNC x 5"        | SOCKET HEAD CAP SCREW                           |                                               |
| 26   | 2       | 1 - 8 UNC x 4"        | SOCKET HEAD CAP SCREW                           |                                               |
| 27   | 4       | 1 - 8 UNC x 3.25"     | SOCKET HEAD CAP SCREW                           |                                               |
| 28   | 8       | 1" WASHER             | SAE WASHER                                      |                                               |
| 29   | 8       | 1" NUT                | HEX NUT                                         |                                               |
| 30   | 8       | Washer GB 859-87 18   | Single coil spring lock washers, Light type     |                                               |
| 31   | 6       | 3/4 - 10 UNC x 0.75"  | SET SCREW (HOLE PLUG)                           |                                               |
| 32   | 6       | 1/2 - 13 UNC x 0.5"   | SET SCREW (HOLE PLUG)                           |                                               |
| 33   | 6       | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |                                               |
| 34   | 6       | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |                                               |
| 35   | 6       | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |                                               |
| 36   | 4       | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |                                               |
| 37   | 6       | 3/8 WASHER            | STANDARD LOCK                                   |                                               |
| 38   | 6       | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |                                               |
| 39   | 4       | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |                                               |
| 40   | 4       | #8 WASHER             | INT. TOOTH LOCKWASHER                           |                                               |
| 41   | 1       | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |                                               |

| THESE APPLICATIONS USING WINDINGS DESIGNED FOR 2:1 |               |                                |                           |                  |                        |                        |                           |                        |                        |                           |                        |
|----------------------------------------------------|---------------|--------------------------------|---------------------------|------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
|                                                    |               |                                |                           |                  |                        | ROPED 1:1              |                           |                        | ROPED 2:1              |                           |                        |
| MACHINE #                                          | WINDING P/N   | COIL/WINDING<br>EFFICIENCY (%) | FRAME/MAGNET<br>SIZE (mm) | VOLTAGE<br>(Vac) | MACHINE<br>SPEED (rpm) | CAR SPEED<br>20" (fpm) | CAR SPEED<br>15.75" (fpm) | CAR SPEED<br>15" (fpm) | CAR SPEED<br>20" (fpm) | CAR SPEED<br>15.75" (fpm) | CAR SPEED<br>15" (fpm) |
| GL101-15L                                          | GL100-170-150 | 87.2                           | 100                       | 170              | 76.4                   | 400                    | 315                       | 300                    | 200                    | 158                       | 150                    |
| GL101-15H                                          | GL100-360-150 | 87.1                           | 100                       | 360              | 76.4                   | 400                    | 315                       | 300                    | 200                    | 158                       | 150                    |
| GL101-20L                                          | GL100-170-200 | 89.2                           | 100                       | 170              | 101.9                  | 533                    | 420                       | 400                    | 267                    | 210                       | 200                    |
| GL101-20H                                          | GL100-360-200 | 89.3                           | 100                       | 360              | 101.9                  | 533                    | 420                       | 400                    | 267                    | 210                       | 200                    |

|  |  |  |   |                                                                                |             |                                              |  |                   |                                   |                              |                                                                       |
|--|--|--|---|--------------------------------------------------------------------------------|-------------|----------------------------------------------|--|-------------------|-----------------------------------|------------------------------|-----------------------------------------------------------------------|
|  |  |  |   |                                                                                |             |                                              |  |                   |                                   | WEIGHT: 1925.4 lbmass        |                                                                       |
|  |  |  | D | ADD 15.75" TW. UPDATE CHARTS FOR SPEED & CAPACITY. PUR #918                    | LTL 4/12/18 | <b>HOLLISTER-WHITNEY</b><br>ELEVATOR CO. LLC |  |                   |                                   |                              |                                                                       |
|  |  |  |   |                                                                                |             |                                              |  |                   |                                   |                              |                                                                       |
|  |  |  | C | ADD 15" TW. UPDATE CHARTS FOR 15" TW.                                          | LTL 12/5/17 | <b>GEARLESS MACHINE w/OUTBOARD STAND</b>     |  |                   |                                   |                              |                                                                       |
|  |  |  |   |                                                                                |             |                                              |  |                   |                                   |                              |                                                                       |
|  |  |  | B | ADD CAPACITY CHARTS. ADD 2.1" DATA. PUR #921 GL185-019 WAS GL171-019. PUR #788 | LTL 6/23/16 | DRAWN BY<br>LTL                              |  | SCALE<br>1 / 4    | MATERIAL<br><b>SEE PARTS LIST</b> |                              | REFERENCE TOL.<br>ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED |
|  |  |  | A | PRODUCTION RELEASE. PUR# 640                                                   | LTL 5/22/14 | SHEET SIZE<br>D                              |  | DATE<br>5/21/2014 |                                   | <b>GL101</b><br>SHEET 1 OF 2 |                                                                       |

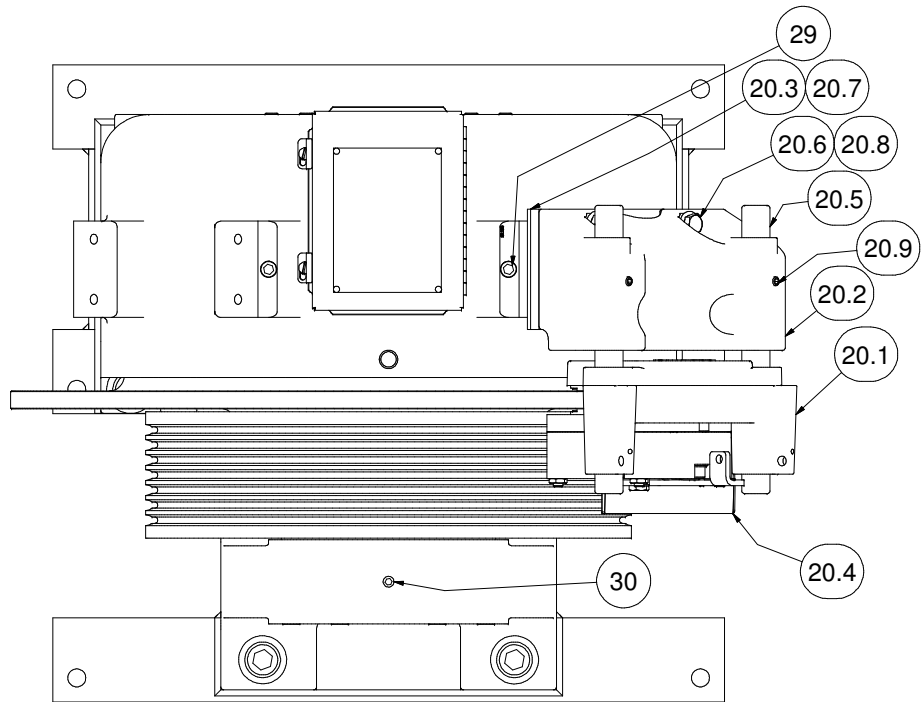


**NOTE: TRACTION WHEEL  
CENTERLINE  
VARIES WITH DIAMETER**

SEE PAGE 1 OF 2 FOR  
REVISIONS

|            |  |           |  |                                       |  |                                                           |  |                       |  |
|------------|--|-----------|--|---------------------------------------|--|-----------------------------------------------------------|--|-----------------------|--|
|            |  |           |  | HOLLISTER-WHITNEY<br>ELEVATOR CO. LLC |  |                                                           |  | WEIGHT: 1925.4 lbmass |  |
|            |  |           |  | TITLE                                 |  |                                                           |  |                       |  |
|            |  |           |  | GEARLESS MACHINE w/OUTBOARD STAND     |  |                                                           |  |                       |  |
| DRAWN      |  | SCALE     |  | MATERIAL                              |  | REFERENCE TOL                                             |  |                       |  |
| BY         |  | 1 / 6     |  | SEE PARTS LIST                        |  | ALL DIMENSIONS REFERENCE<br>UNLESS OTHERWISE<br>SPECIFIED |  |                       |  |
| SHEET SIZE |  | DATE      |  |                                       |  |                                                           |  |                       |  |
| D          |  | 5/21/2014 |  |                                       |  |                                                           |  | GL101                 |  |
|            |  |           |  |                                       |  |                                                           |  | SHEET 2 OF 2          |  |

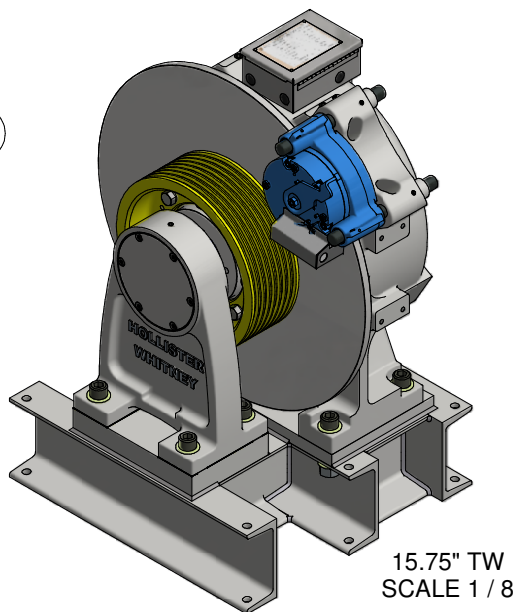
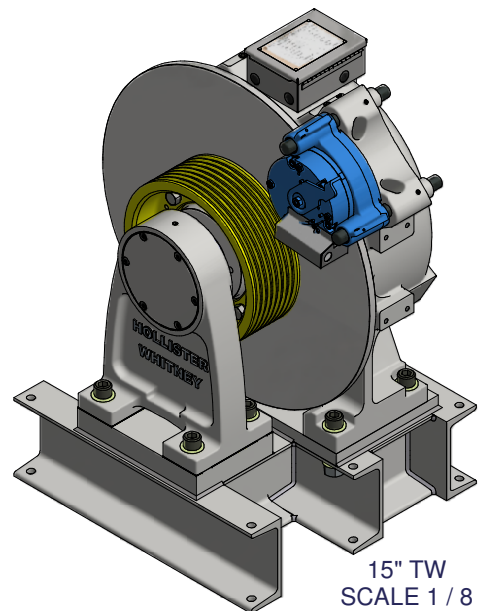
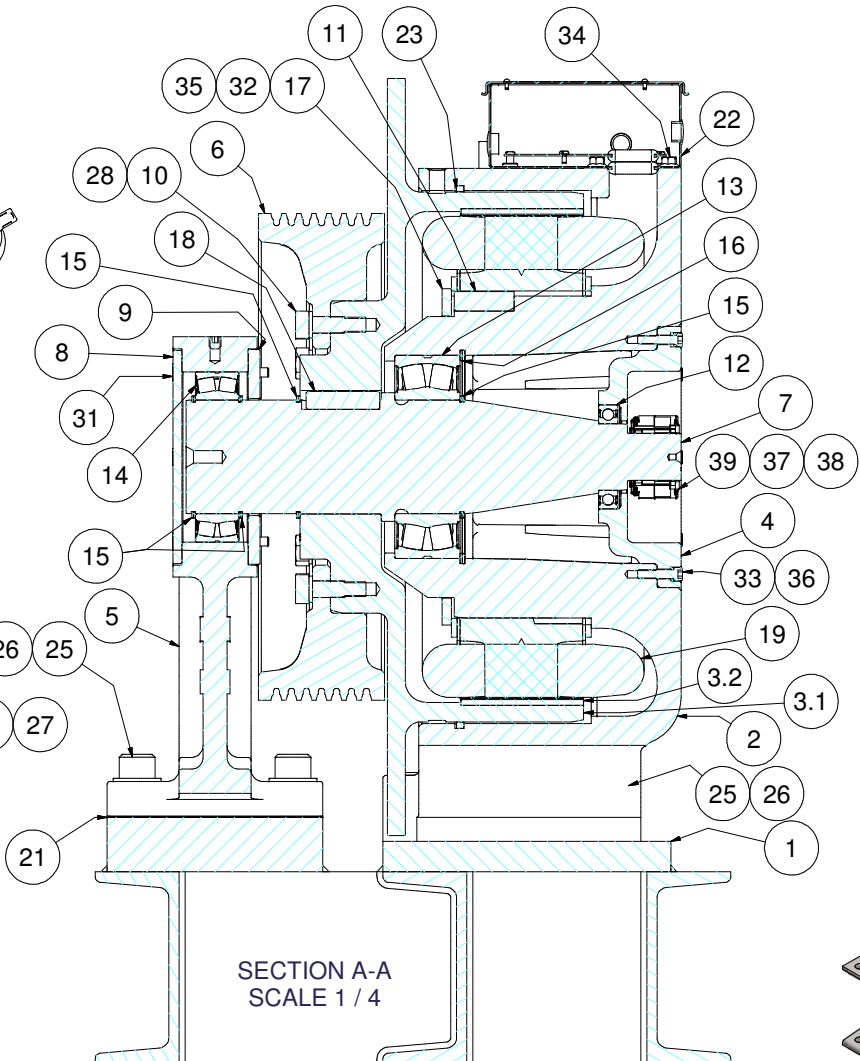
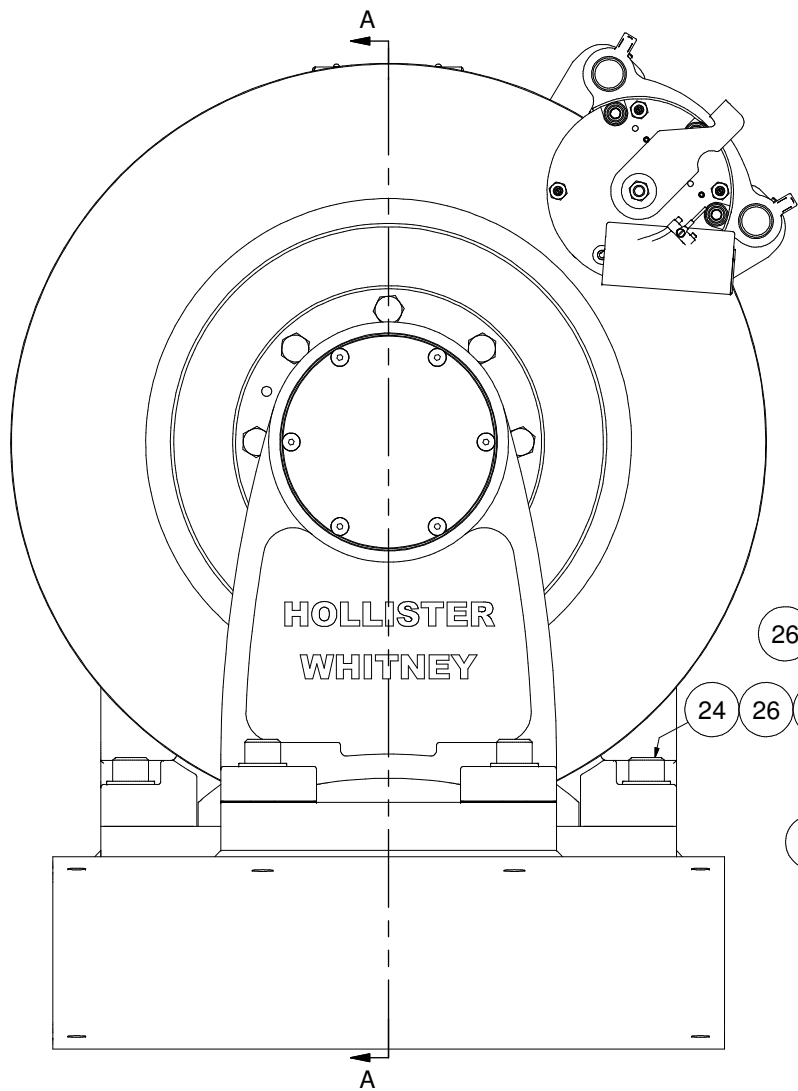
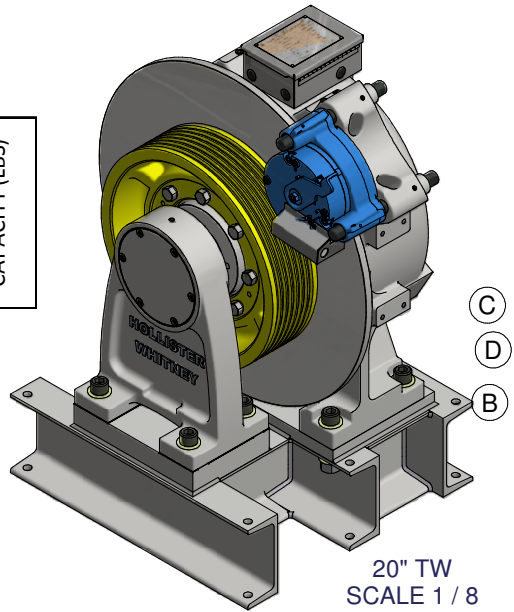




C

D

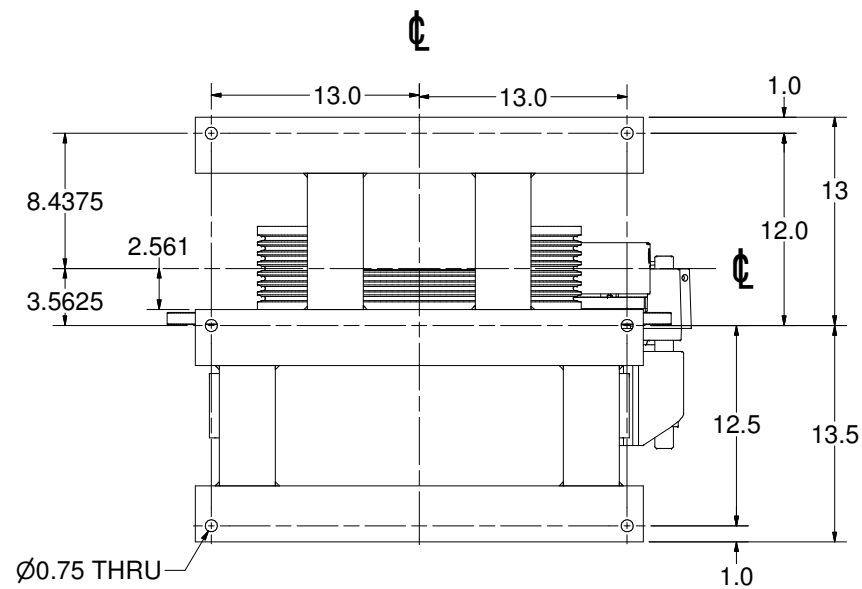
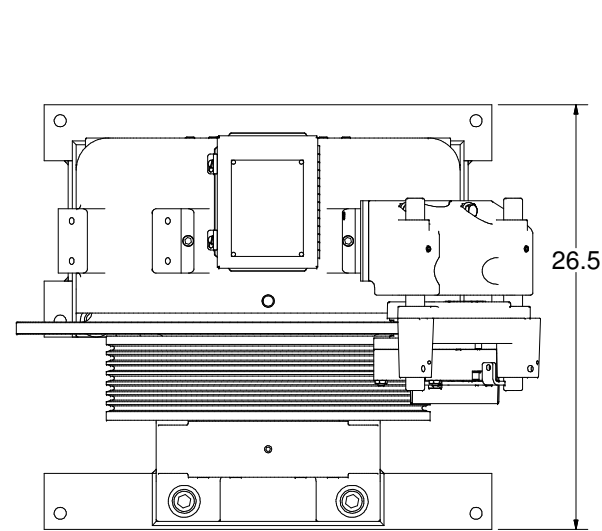
|                |        | COUNTER BALANCE % |      |      |      |      | CAPACITY (LBS) |
|----------------|--------|-------------------|------|------|------|------|----------------|
| TRACTION WHEEL | ROPING | 50                | 47.5 | 45   | 42.5 | 40   |                |
| 15"            | 1:1    | 2000              | 1900 | 1800 | 1725 | 1650 |                |
|                | 2:1    | 4000              | 3800 | 3625 | 3475 | 3325 |                |
| 15.75"         | 1:1    | 1900              | 1800 | 1725 | 1650 | 1575 |                |
|                | 2:1    | 3800              | 3625 | 3450 | 3300 | 3175 |                |
| 20"            | 1:1    | 1500              | 1425 | 1350 | 1300 | 1250 |                |
|                | 2:1    | 3000              | 2850 | 2725 | 2600 | 2500 |                |



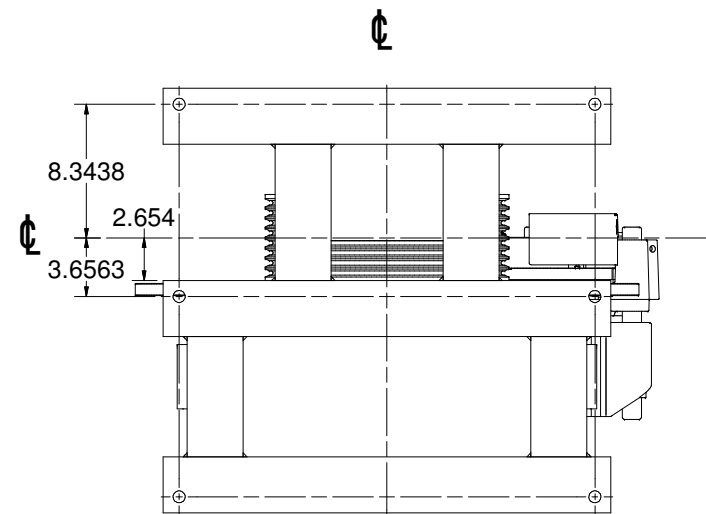
| ITEM | QTY       | PART NUMBER           | DESCRIPTION                                     |                                 |
|------|-----------|-----------------------|-------------------------------------------------|---------------------------------|
| 1    | 1         | GL171B-01             | BASE FABRICATION - FINISHED                     |                                 |
| 2    | 1         | GL130-001             | BASE HOUSING, MOTOR #GL130                      |                                 |
| 3    | 1         | GL131-002             | ROTOR ASSEMBLY, MOTOR #GL131                    |                                 |
|      | 3.1       | 1                     | GL131-004                                       | ROTOR                           |
|      | 3.2       | 28                    | GL130-099                                       | PERMANENT MAGNET - MOTOR #GL130 |
| 4    | 1         | GL130A-005            | BEARING CAP                                     |                                 |
| 5    | 1         | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |                                 |
| 6    | 1         | GL100-010             | 20" TW (6 x 1/2" ROPE MAX)                      |                                 |
|      |           | GL101-009             | 15" TW (8 x 3/8" ROPE MAX)                      |                                 |
|      |           | GL101-011             | 15.75" TW (8 x 3/8" ROPE MAX)                   |                                 |
| 7    | 1         | GL131-018             | MAIN SHAFT                                      |                                 |
| 8    | 1         | GL185-019             | END CAP                                         |                                 |
| 9    | 1         | GL171-020             | BEARING END CAP                                 |                                 |
| 10   | 8         | GL100-073             | BODY BOLT                                       |                                 |
| 11   | 1         | GL100-088             | KEY - STATOR CORE TO BASE                       |                                 |
| 12   | 1         | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |                                 |
| 13   | 1         | GL130-090             | SEALED SPHERICAL ROLLER BEARING                 |                                 |
| 14   | 1         | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |                                 |
| 15   | 4         | GL130-092             | RETAINING RING - SHAFT                          |                                 |
| 16   | 1         | GL130-093             | RETAINING RING - HOUSING                        |                                 |
| 17   | 1         | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |                                 |
| 18   | 1         | GL100-095             | KEY - ROTOR TO SHAFT                            |                                 |
| 19   | 1         | GL130-100             | WINDING ASSEMBLY - 28 POLE                      |                                 |
| 20   | 1         | GL130-144             | DISC BRAKE (MAYR #8) - MRL                      |                                 |
|      | 20.1      | 1                     | GL130-144-115                                   | MAYR #8; RSD8 510 03 52V8211833 |
|      | 20.2      | 1                     | 144-001                                         | BRAKE BASE                      |
|      | 20.3      | 1                     | 144-002                                         | ADAPTOR PLATE - BRAKE BASE      |
|      | 20.4      | 1                     | 144-003                                         | COVER - MAYR #8 ELECTRICAL      |
|      | 20.5      | 2                     | 144-012                                         | BRAKE ROD                       |
|      | 20.6      | 4                     | 1/2 - 13 UNC x 1.75"                            | HEX HEAD CAP SCREW              |
|      | 20.7      | 4                     | 1/2-13 UNC x 1.5"                               | FLAT HEAD CAP SCREW             |
|      | 20.8      | 4                     | 1/2" WASHER                                     | STANDARD WASHER                 |
|      | 20.9      | 2                     | 3/8-16 UNC x 0.625"                             | SET SCREW                       |
| 21   | As<br>Nec | GL171-157-05          | OUTBOARD STAND SHIM - 0.005"                    |                                 |
|      |           | GL171-157-10          | OUTBOARD STAND SHIM - 0.010"                    |                                 |
|      |           | GL171-157-31          | OUTBOARD STAND SHIM - 0.031"                    |                                 |
| 22   | 1         | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |                                 |
| 23   | 1         | GL100-165             | FELT DUST SEAL                                  |                                 |
| 24   | 2         | 1 - 8 UNC x 5"        | SOCKET HEAD CAP SCREW                           |                                 |
| 25   | 6         | 1 - 8 UNC x 3.5"      | SOCKET HEAD CAP SCREW                           |                                 |
| 26   | 10        | 1" WASHER             | SAE WASHER                                      |                                 |
| 27   | 2         | 1 - 8 UNC NUT         | HEAVY HEX NUT                                   |                                 |
| 28   | 8         | Washer GB 859-87 18   | Single coil spring lock washers, Light type     |                                 |
| 29   | 2         | 3/4-10 UNCx0.75       | HALF DOG SET SCREW                              |                                 |
| 30   | 1         | 1/2-13 UNCx0.5        | HALF DOG SET SCREW                              |                                 |
| 31   | 6         | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |                                 |
| 32   | 6         | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |                                 |
| 33   | 8         | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |                                 |
| 34   | 4         | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |                                 |
| 35   | 6         | 3/8 WASHER            | STANDARD LOCK                                   |                                 |
| 36   | 8         | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |                                 |
| 37   | 4         | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |                                 |
| 38   | 4         | #8 WASHER             | INT. TOOTH LOCKWASHER                           |                                 |
| 39   | 1         | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |                                 |

| THESE APPLICATIONS USING WINDINGS DESIGNED FOR 2:1 |               |                                |                           |                  |                        |                        |                           |                        |                        |                           |                        |
|----------------------------------------------------|---------------|--------------------------------|---------------------------|------------------|------------------------|------------------------|---------------------------|------------------------|------------------------|---------------------------|------------------------|
|                                                    |               |                                |                           |                  |                        | ROPED 1:1              |                           |                        | ROPED 2:1              |                           |                        |
| MACHINE #                                          | WINDING P/N   | COIL/WINDING<br>EFFICIENCY (%) | FRAME/MAGNET<br>SIZE (mm) | VOLTAGE<br>(Vac) | MACHINE<br>SPEED (rpm) | CAR SPEED<br>20" (fpm) | CAR SPEED<br>15.75" (fpm) | CAR SPEED<br>15" (fpm) | CAR SPEED<br>20" (fpm) | CAR SPEED<br>15.75" (fpm) | CAR SPEED<br>15" (fpm) |
| GL131-20L                                          | GL130-170-200 | 90.6                           | 130                       | 170              | 101.9                  | 533                    | 420                       | 400                    | 267                    | 210                       | 200                    |
| GL131-20H                                          | GL130-360-200 | 90.7                           | 130                       | 360              | 101.9                  | 533                    | 420                       | 400                    | 267                    | 210                       | 200                    |
| GL131-35L                                          | GL130-170-350 | 93.1                           | 130                       | 170              | 178.3                  | 933                    | 735                       | 700                    | 467                    | 368                       | 350                    |
| GL131-35H                                          | GL130-360-350 | 93                             | 130                       | 360              | 178.3                  | 933                    | 735                       | 700                    | 467                    | 368                       | 350                    |

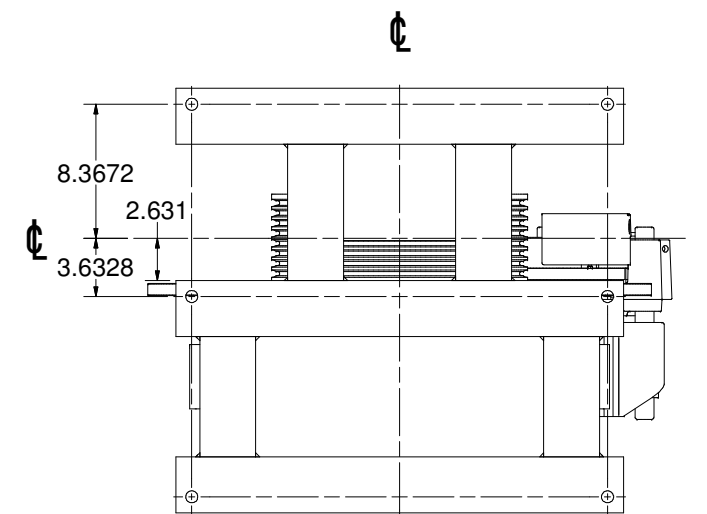
|  |  |   |                                                                                   |             |                                       |                |                       |                                                                    |
|--|--|---|-----------------------------------------------------------------------------------|-------------|---------------------------------------|----------------|-----------------------|--------------------------------------------------------------------|
|  |  | D | ADD 15.75" TW, UPDATE CHARTS FOR SPEED & CAPACITY, PUR #918                       | LTL 4/12/18 | HOLLISTER-WHITNEY<br>ELEVATOR CO. LLC |                |                       |                                                                    |
|  |  | C | ADD 15" TW, UPDATE CHARTS FOR 15" TW, ADD CAPACITY CHARTS, ADD 2:1 DATA, PUR #921 | LTL 12/6/17 | GEARLESS MACHINE w/OUTBOARD STAND     |                |                       |                                                                    |
|  |  | B | GL185-019 WAS C-171-019 PUR #788                                                  | LTL 6/23/16 | DRAWN BY LTL                          | SCALE 1 / 4    | MATERIAL              | REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED |
|  |  | A | PRODUCTION RELEASE, PUR# 658                                                      | LTL 7/2/14  | SHEET SIZE D                          | DATE 6/27/2014 | GL131<br>SHEET 1 OF 2 |                                                                    |



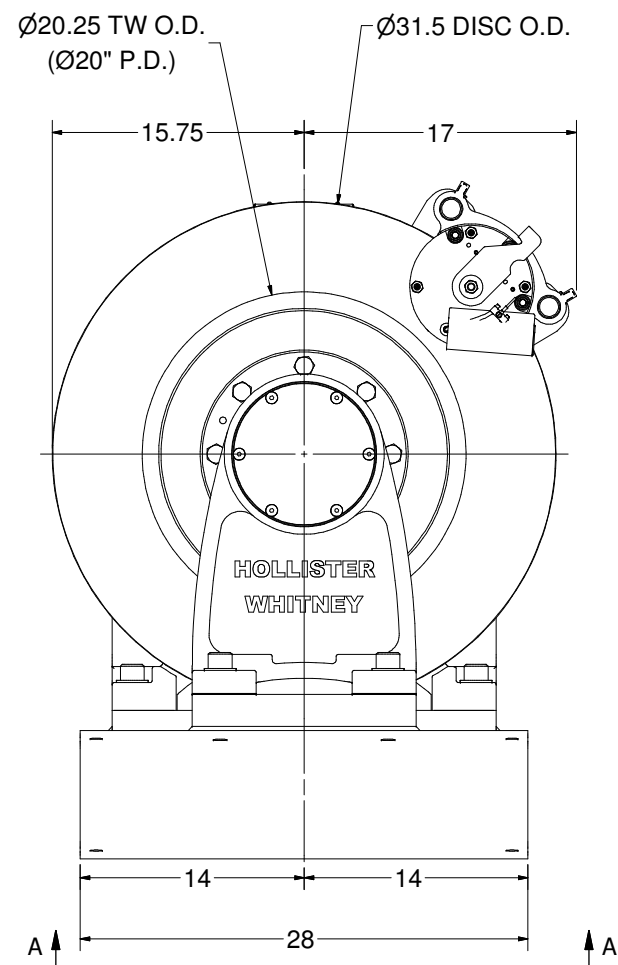
VIEW A-A  
SCALE 1 / 6  
20" TW



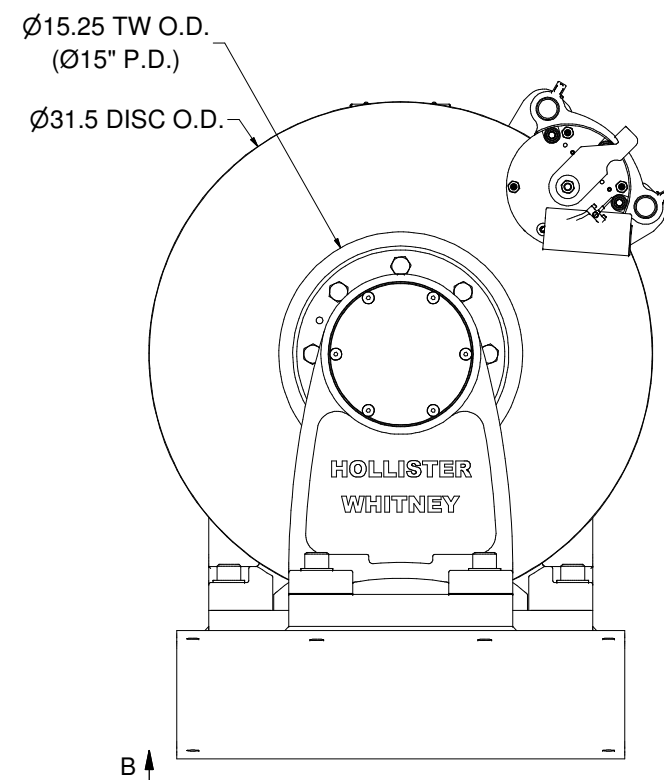
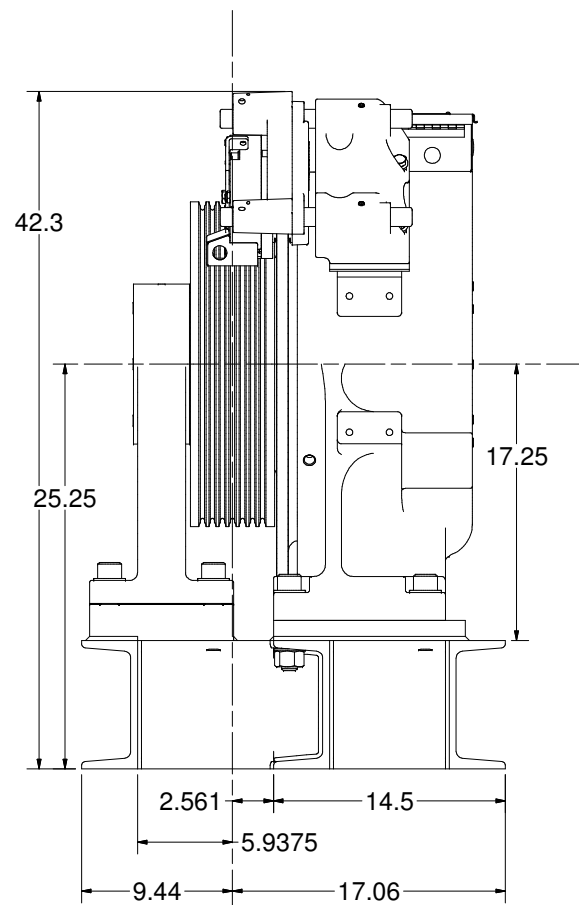
VIEW B-B  
SCALE 1 / 6  
15" TW



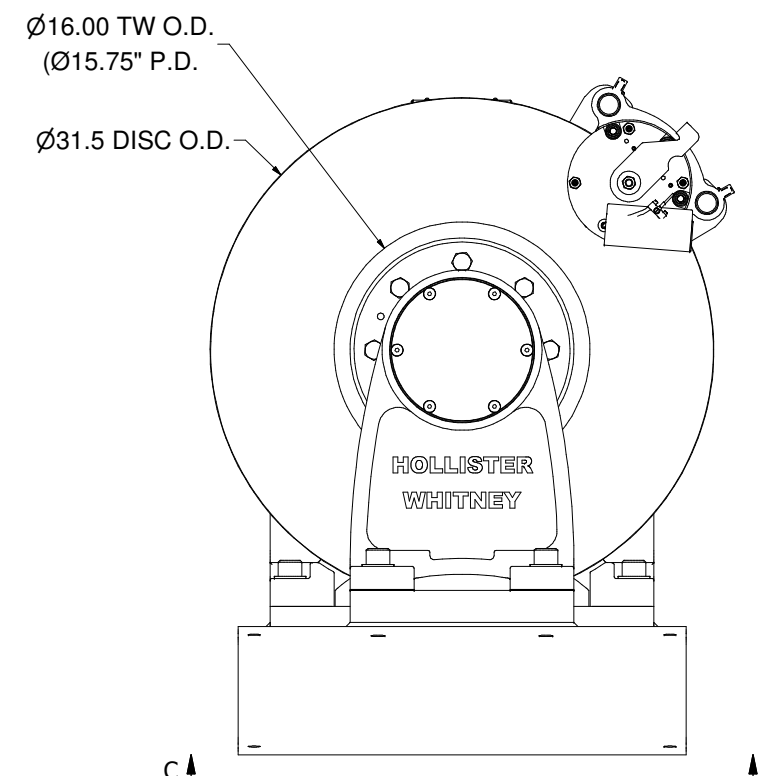
VIEW C-C  
SCALE 1 / 6  
15.75" TW



20" TRACTION WHEEL



15" TRACTION WHEEL



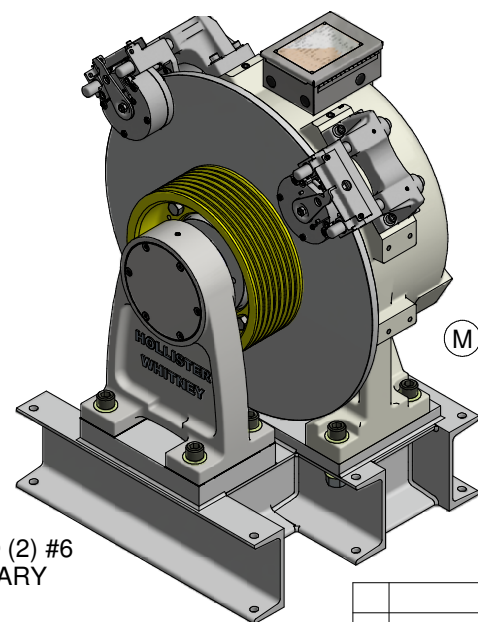
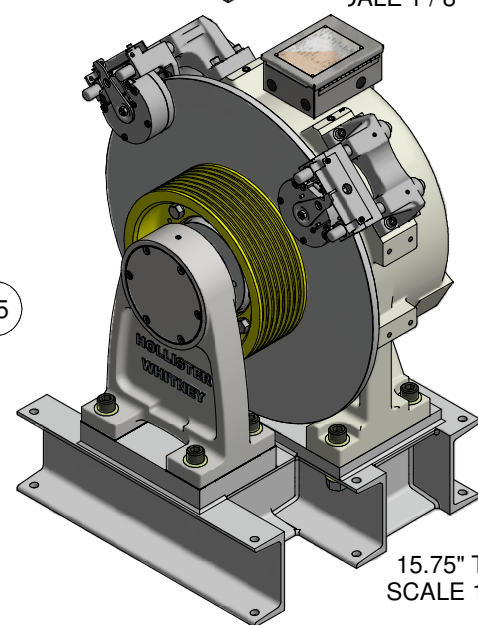
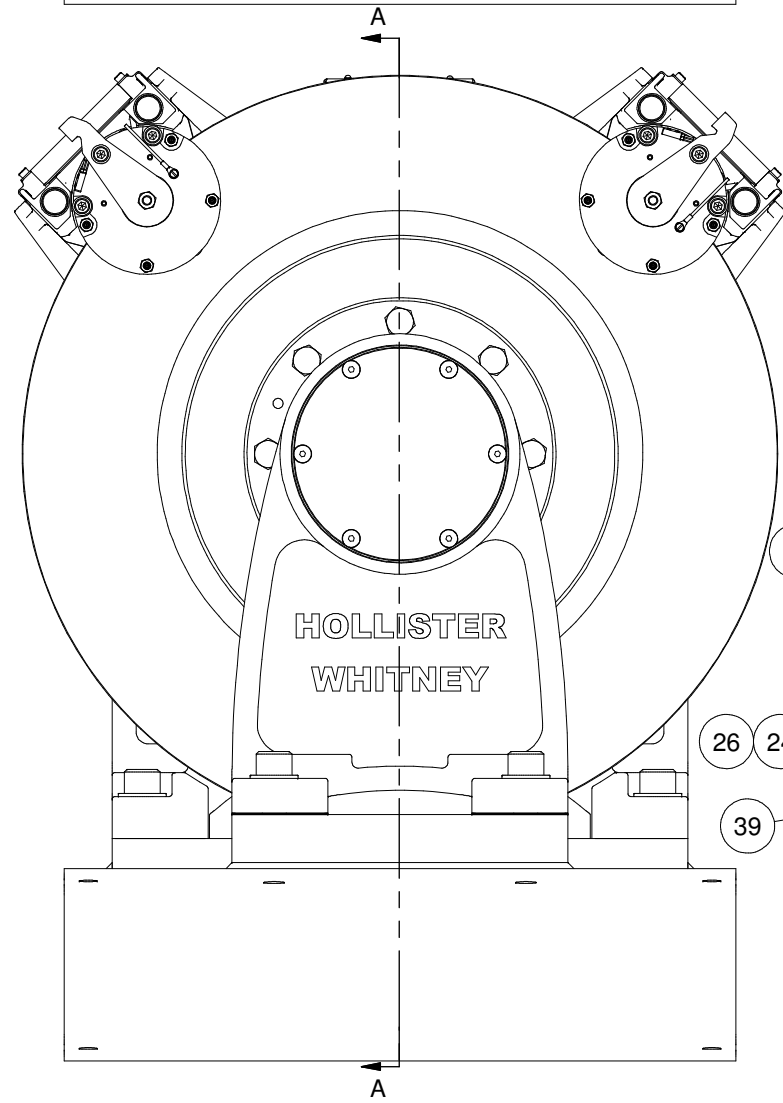
15.75" TRACTION WHEEL

**NOTE: TRACTION WHEEL  
CENTERLINE  
VARIES WITH DIAMETER**

SEE PAGE 1 OF 2 FOR  
REVISIONS

|  |  |  |  |  |  |                                            |                |                            |                                                                             |                       |  |  |
|--|--|--|--|--|--|--------------------------------------------|----------------|----------------------------|-----------------------------------------------------------------------------|-----------------------|--|--|
|  |  |  |  |  |  | HOLLISTER-WHITNEY<br>ELEVATOR CO. LLC      |                |                            |                                                                             | WEIGHT: 2216.8 lbmass |  |  |
|  |  |  |  |  |  | TITLE<br>GEARLESS MACHINE w/OUTBOARD STAND |                |                            |                                                                             |                       |  |  |
|  |  |  |  |  |  | DRAWN BY<br>LTL                            | SCALE<br>1 / 6 | MATERIAL<br>SEE PARTS LIST | REFERENCE TOL.<br>ALL DIMENSIONS REFERENCE<br>UNLESS OTHERWISE<br>SPECIFIED |                       |  |  |
|  |  |  |  |  |  | SHEET SIZE<br>D                            |                | DATE<br>6/27/2014          |                                                                             | GL131<br>SHEET 2 OF 2 |  |  |





|                                  |             |   |  |                                                  |             |   |                                               |              |                                    |                |                                                                    |
|----------------------------------|-------------|---|--|--------------------------------------------------|-------------|---|-----------------------------------------------|--------------|------------------------------------|----------------|--------------------------------------------------------------------|
|                                  |             | M |  | ADD SHIMS, GL171-019 WAS GL171-019. PUR #788     | LTL 6/22/16 | F | ADD WHEEL & WINDING OPTIONS, PUR #554         | LTL 12/28/12 | HOLLISTER-WHITNEY                  |                |                                                                    |
|                                  |             | L |  | EFFICIENCY UPDATE, #673                          | LTL 9/19/14 | E | REMOVE GUARD (NOW SEPARATE ITEM, PUR #542     | LTL 1/16/12  | ELEVATOR CO. LLC                   |                |                                                                    |
| UPDATE SPEED & R #918            | LTL 4/12/18 | K |  | REMOVE GL100-008, #848                           | LTL 5/20/14 | D | UPDATE BRAKES, PUR #513                       | LTL 7/20/12  | TITLE                              |                |                                                                    |
|                                  |             | J |  | BRAKE UPDT, 1*BOLTS TO SHCS, ADD THRU BOLT, #508 | 8/21/13     | C | UPDATE, INCREASED DISC & MACHINE HT, PUR #496 | LTL 6/28/12  | SCALELESS MACHINE w/OUTBOARD STAND |                |                                                                    |
| UPDATE 15" TW Y CHARTS, PUR #921 | LTL 12/6/17 | H |  | ADD EFFICIENCY WINDING CHART, PUR #692           | LTL 4/18/13 | B | ADD GL171-40L, UPDATE PUR #493                | LTL 9/9/12   | DRAWN BY LTL                       | 1 / 4          | MATERIAL                                                           |
|                                  |             | G |  | GL171-095 WAS GL100-095, PUR #565                | LTL 2/4/13  | A | PRODUCTION RELEASE, PUR #470                  | LTL 10/26/11 | SEE PARTS LIST                     |                | REFERENCE TOL. ALL DIMENSIONS REFERENCE UNLESS OTHERWISE SPECIFIED |
|                                  |             |   |  |                                                  |             |   |                                               |              | SHEET SIZE D                       | DATE 9/14/2011 | GL171 SHEET 1 OF 1                                                 |

| THESE APPLICATIONS USING WINDINGS DESIGNED FOR 1:1 |               |                             |                        |               |                     |                     |                        |                     |                     |                        |                     |
|----------------------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|---------------------|
|                                                    |               |                             |                        |               |                     | ROPED 1:1           |                        |                     | ROPED 2:1           |                        |                     |
| MACHINE #                                          | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) | CAR SPEED 20" (fpm) | CAR SPEED 15.75" (fpm) | CAR SPEED 15" (fpm) | CAR SPEED 20" (fpm) | CAR SPEED 15.75" (fpm) | CAR SPEED 15" (fpm) |
| GL171-20L                                          | GL171-170-200 | 87                          | 170                    | 170           | 38.2                | 200                 | 158                    | 150                 | 100                 | 79                     | 75                  |
| GL171-20H                                          | GL171-360-200 | 87                          | 170                    | 360           | 38.2                | 200                 | 158                    | 150                 | 100                 | 79                     | 75                  |
| GL171-40L                                          | GL171-170-400 | 87                          | 170                    | 170           | 76.4                | 400                 | 315                    | 300                 | 200                 | 158                    | 150                 |
| THESE APPLICATIONS USING WINDINGS DESIGNED FOR 2:1 |               |                             |                        |               |                     |                     |                        |                     |                     |                        |                     |
|                                                    |               |                             |                        |               |                     | ROPED 1:1           |                        |                     | ROPED 2:1           |                        |                     |
| GL171-35L                                          | GL170-170-350 | 93.9                        | 170                    | 170           | 178.3               | 933                 | 735                    | 700                 | 467                 | 368                    | 350                 |
| GL171-35H                                          | GL170-360-350 | 94                          | 170                    | 360           | 178.3               | 933                 | 735                    | 700                 | 467                 | 368                    | 350                 |

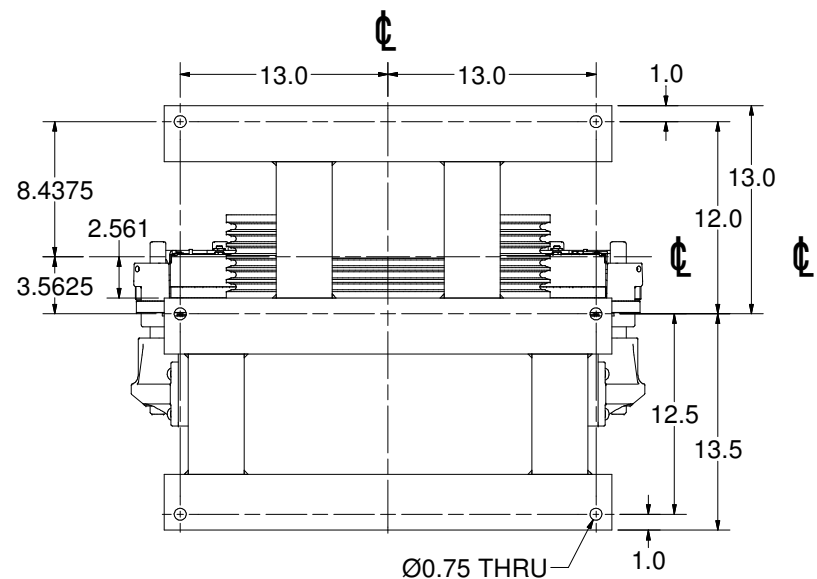
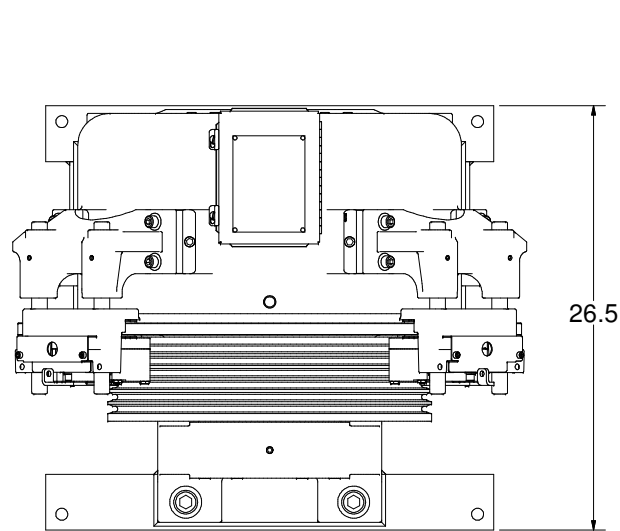
(P) MACHINE REQUIRES TWO (2) #6  
(F) BRAKES USED AS PRIMARY  
(H) MACHINE BRAKE.  
(L) EMERGENCY SERVICE  
(N) ADDITIONALLY REQUIRES ONE (1)  
ROPE GRIPPER OR TWO (2)  
ADDITIONAL #6 BRAKES

15" TW  
SCALE 1 / 8

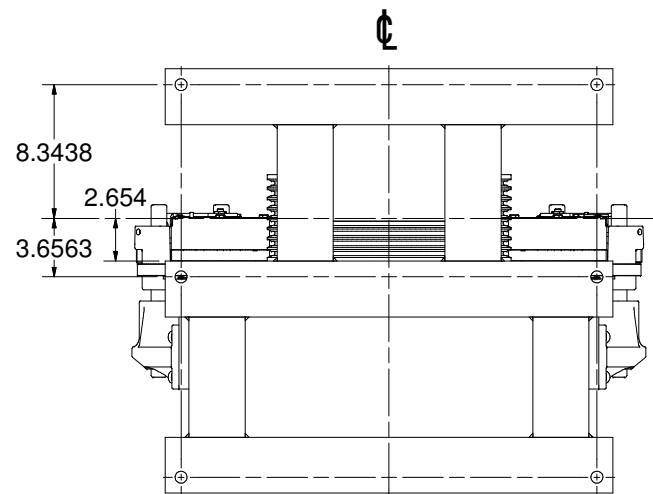
HOLLISTER-WHITNEY  
ELEVATOR CO. LLC

GEARLESS MACHINE w/OUTBOARD STAND

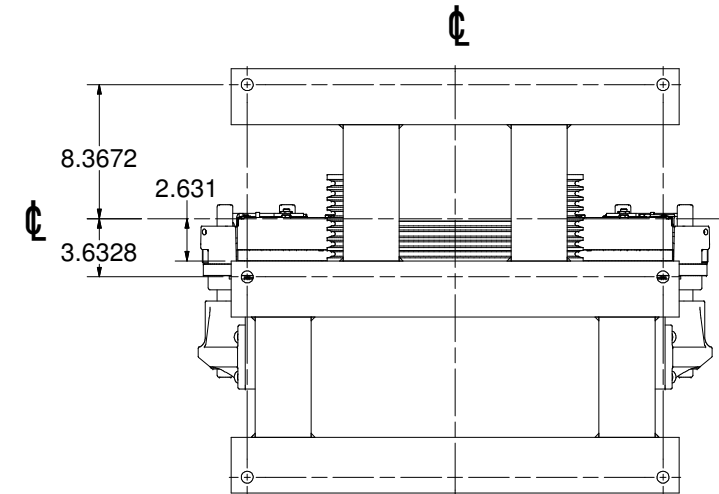
|                 |                   |                            |                                                                             |
|-----------------|-------------------|----------------------------|-----------------------------------------------------------------------------|
| DRAWN BY<br>LTL | SCALE<br>1 / 4    | MATERIAL<br>SEE PARTS LIST | REFERENCE TOL.<br>ALL DIMENSIONS REFERENCE<br>UNLESS OTHERWISE<br>SPECIFIED |
| SHEET SIZE<br>D | DATE<br>9/14/2011 | GL171<br>SHEET 1 OF 2      |                                                                             |



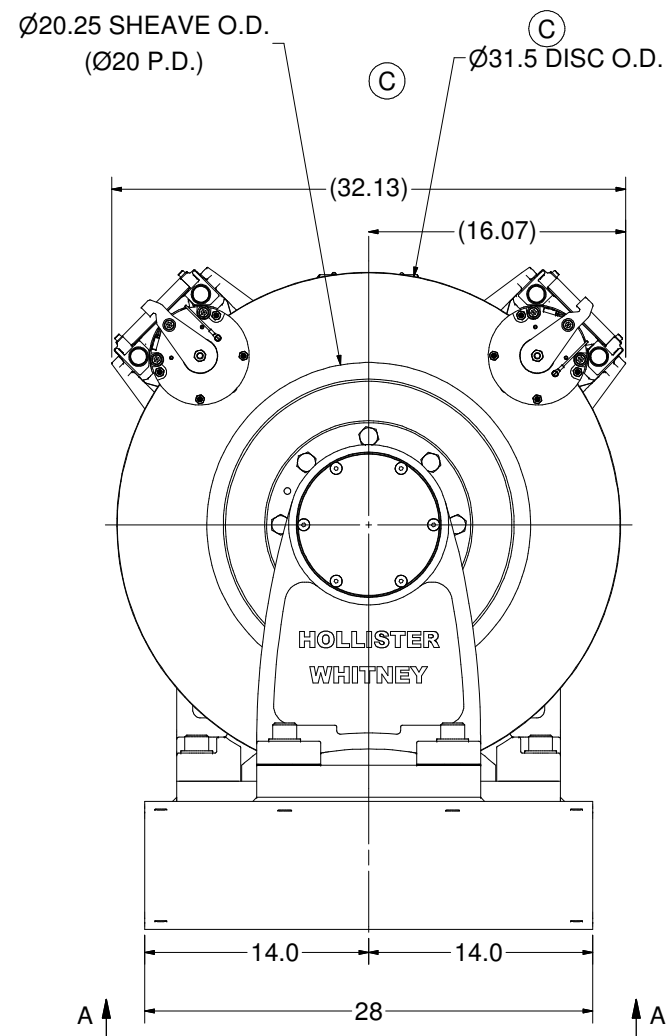
VIEW A-A  
SCALE 1 / 6  
20" TW



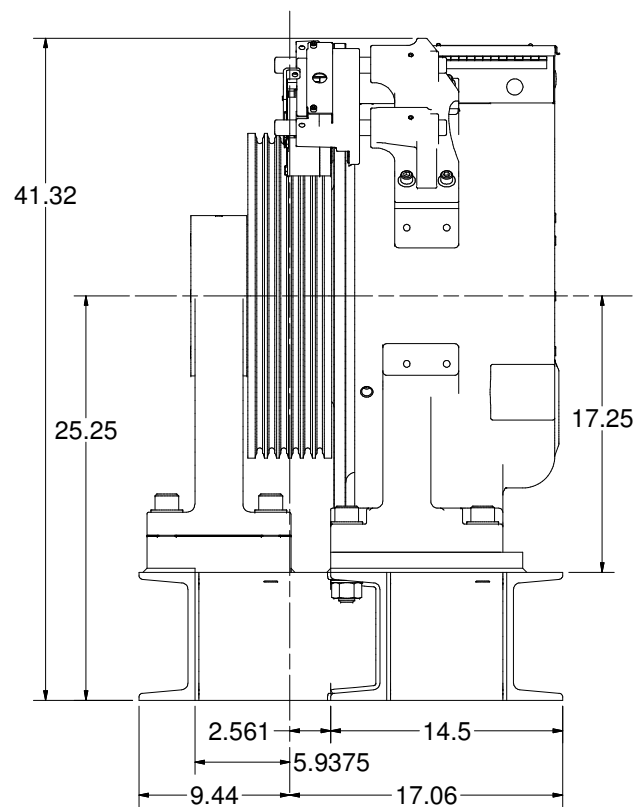
VIEW B-B  
SCALE 1 / 6  
15" TW



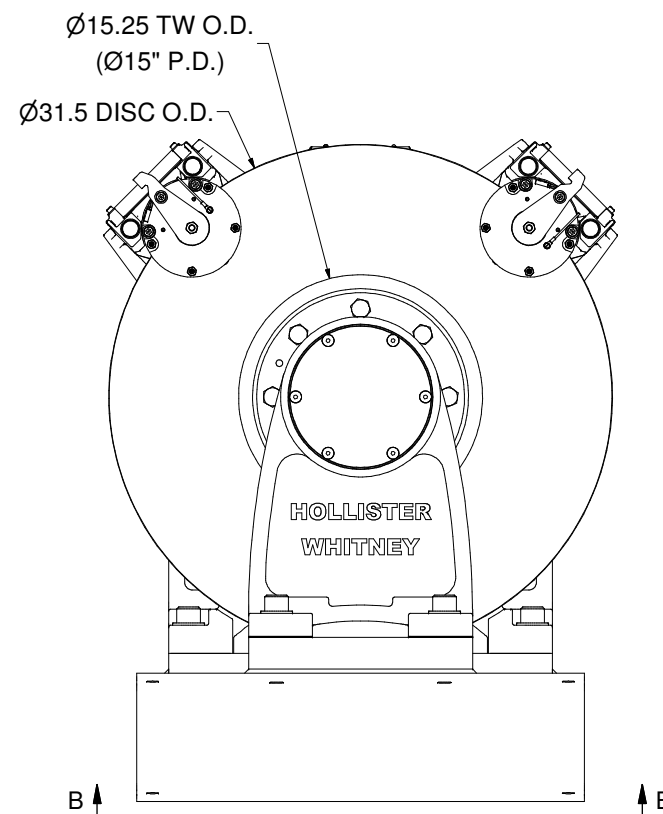
VIEW C-C  
SCALE 1 / 6  
15.75" TW



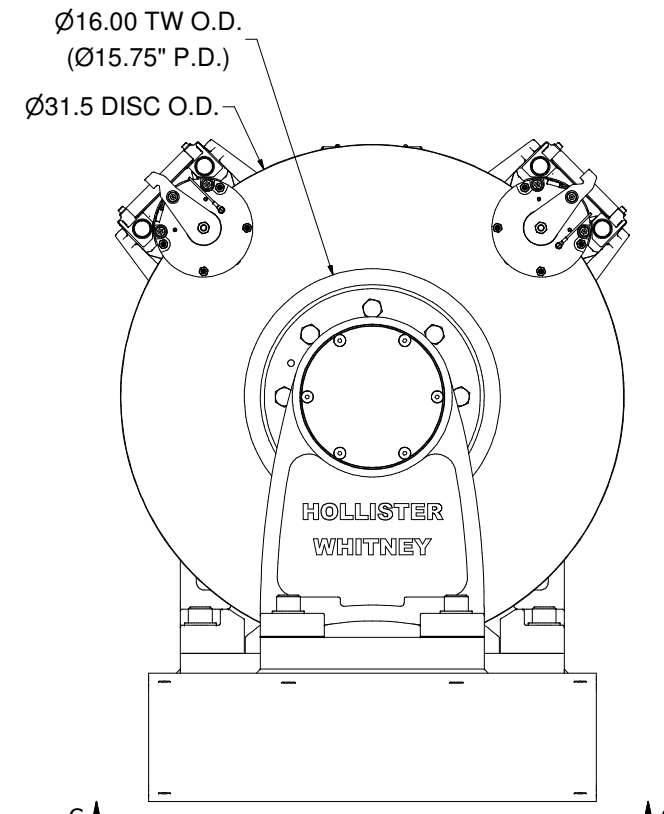
20" TRACTION WHEEL



**NOTE: TRACTION WHEEL  
CENTERLINE  
VARIES WITH DIAMETER**



15" TRACTION WHEEL

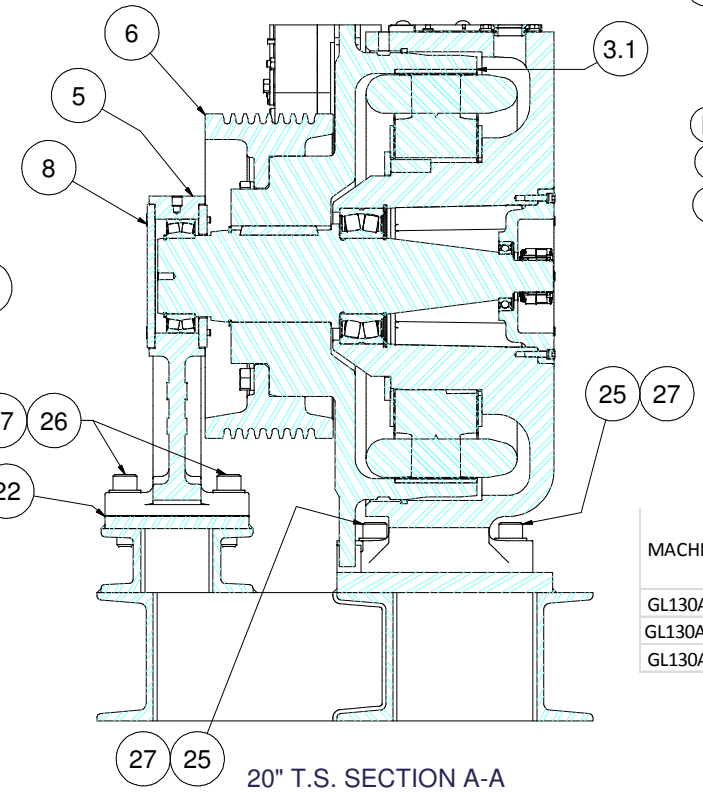
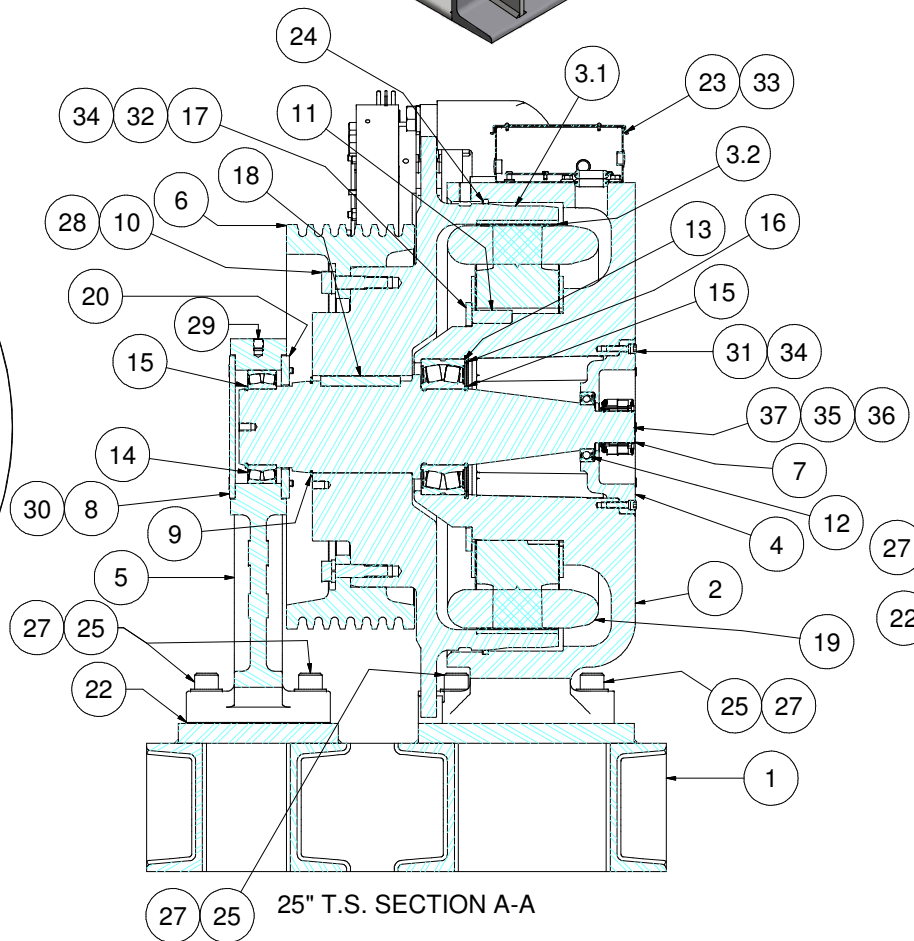
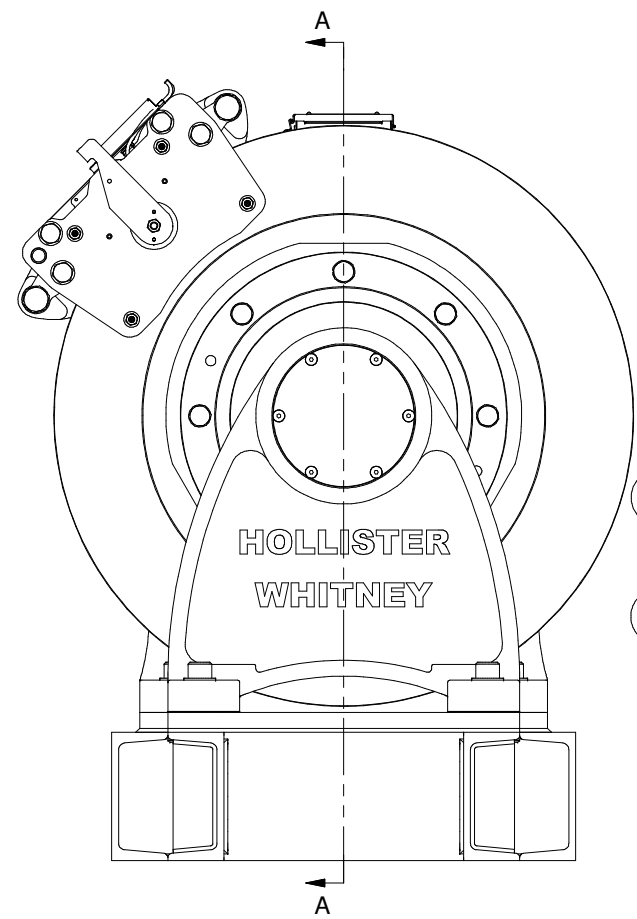
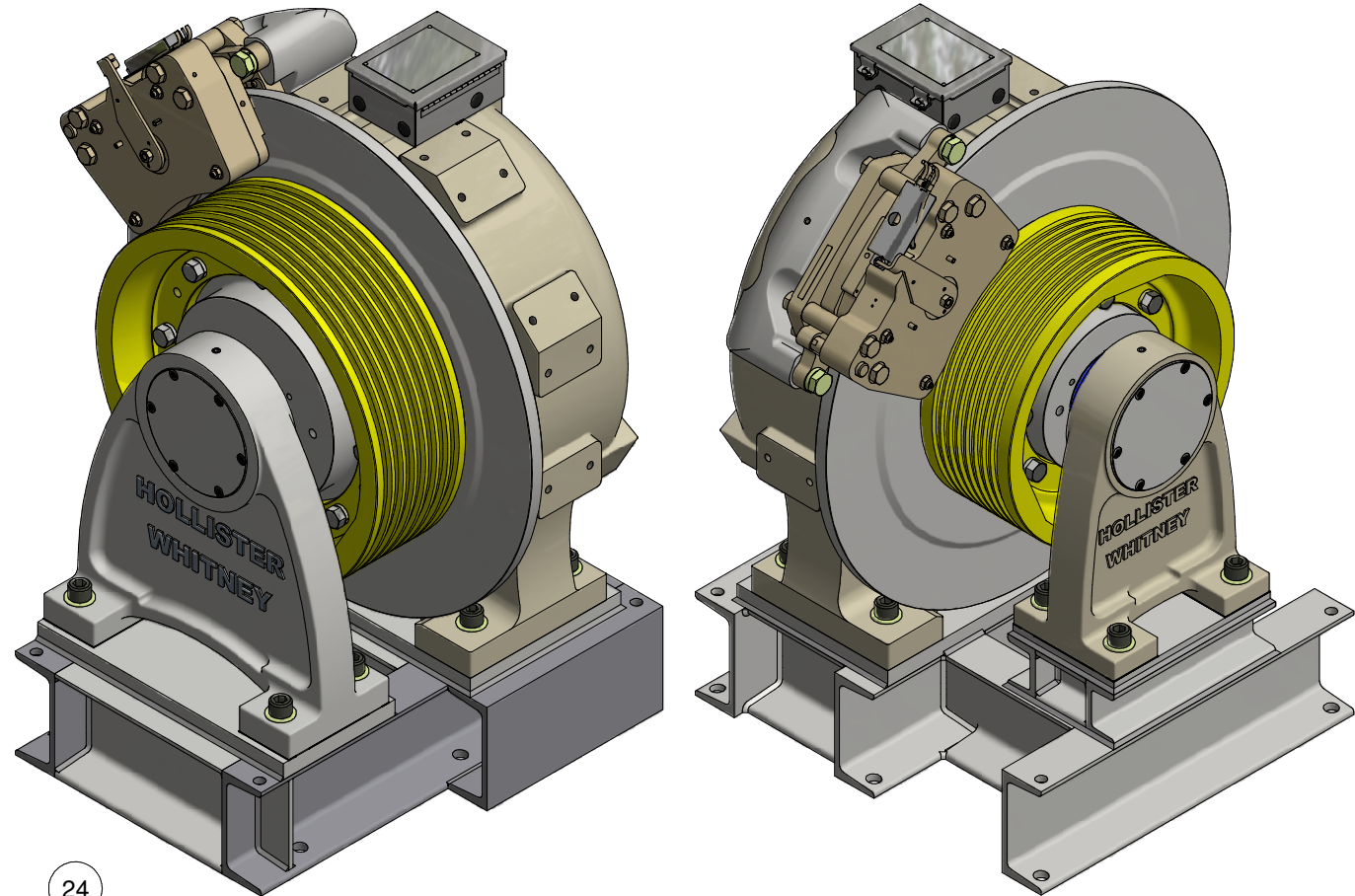
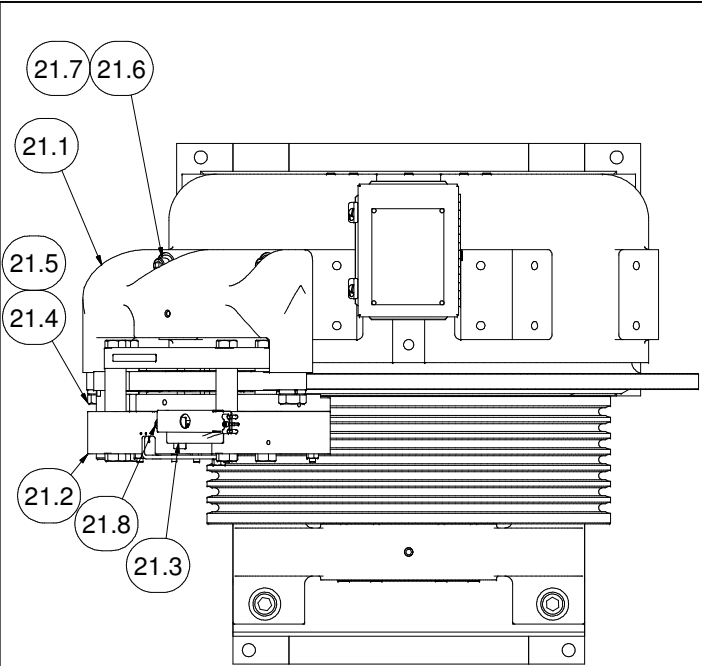


15.75" TRACTION WHEEL

SEE PAGE 1 OF 2 FOR  
REVISIONS

|            |       |                |  |               |  |                          |  |                  |  |                                       |  |
|------------|-------|----------------|--|---------------|--|--------------------------|--|------------------|--|---------------------------------------|--|
|            |       |                |  |               |  |                          |  |                  |  | WEIGHT: 2336.4 lbmass                 |  |
|            |       |                |  |               |  |                          |  |                  |  | HOLLISTER-WHITNEY<br>ELEVATOR CO. LLC |  |
|            |       |                |  |               |  |                          |  |                  |  | GEARLESS MACHINE w/OUTBOARD STAND     |  |
| DRAWN BY   | SCALE | MATERIAL       |  | REFERENCE TOL |  | ALL DIMENSIONS REFERENCE |  | UNLESS OTHERWISE |  | SPECIFIED                             |  |
| LTL        | 1 / 6 | SEE PARTS LIST |  | DATE          |  | GL171                    |  | SHEET 2 OF 2     |  |                                       |  |
| SHEET SIZE | D     | 9/14/2011      |  |               |  |                          |  |                  |  |                                       |  |





| ITEM | QTY | PART NUMBER          | DESCRIPTION                                          |
|------|-----|----------------------|------------------------------------------------------|
| 1    | 1   | GL130AB-01           | FINISHING BASE, GL130A, 25" T.S. 2000 lb Cap.        |
|      | 1   | GL130AB-03           | FINISHING BASE, GL130A, 20" T.S. 2500 lb Cap.        |
| 2    | 1   | GL130A-001           | BASE HOUSING, MOTOR #GL130A                          |
| 3    | 1   | GL130A-002           | ROTOR ASSEMBLY - #GL130A, 25" T.S. 2000 lb Cap.      |
|      | 1   | GL130A-002-1         | ROTOR ASSEMBLY - #GL130A, 20" T.S. 2500 lb Cap.      |
| 3.1  | 1   | GL130A-004           | ROTOR - GL130A, 25" T.S.                             |
|      | 1   | GL130A-004-1         | ROTOR - GL130A, 20" T.S.                             |
| 3.2  | 40  | GL260-099            | PERMANENT MAGNET - #GL260 & GL130A MOTORS            |
|      | 1   | GL130A-005           | BEARING CAP                                          |
| 5    | 1   | GL185-006            | OUTBOARD STAND, 25" T.S. 2000 lb Cap.                |
|      | 1   | GL171-006            | OUTBOARD STAND, 20" T.S. 2000 lb Cap.                |
| 6    | 1   | GL185-008            | SHEAVE, 25"                                          |
|      | 1   | GL130A-008           | SHEAVE, 20"                                          |
| 7    | 1   | GL130A-018           | MAIN SHAFT - GL130A 1:1 MACHINE                      |
| 8    | 1   | GL185-019            | END CAP, OUTBOARD STAND, 25" T.W.                    |
|      | 1   | GL171-019            | END CAP, OUTBOARD STAND, 20" T.W.                    |
| 9    | 1   | GL185-020            | RETAINING RING - ROTOR                               |
| 10   | 8   | GL185-073            | BODY BOLT                                            |
| 11   | 1   | GL100-088            | KEY - STATOR CORE TO BASE                            |
| 12   | 1   | GL185-089            | BEARING, SEALED SR DEEP GROOVE BALL                  |
| 13   | 1   | GL130-090            | SEALED SPHERICAL ROLLER BEARING                      |
| 14   | 1   | GL185-090            | BEARING, SEALED SPHERICAL ROLLER                     |
| 15   | 2   | GL130-092            | RETAINING RING - SHAFT                               |
| 16   | 1   | GL130-093            | RETAINING RING - HOUSING                             |
| 17   | 1   | GL185-094            | CLAMP RING - STATOR ASSEMBLY                         |
| 18   | 1   | GL185-095            | KEY - MAIN SHAFT TO ROTOR                            |
| 19   | 1   | GL130A-100           | WINDING ASSEMBLY                                     |
| 20   | 1   | GL185-104            | INBOARD CAP, OUTBOARD STAND, 25" T.W.                |
| 21   | 1   | GL185-143            | DISC BRAKE (MAYR 10) ASSEMBLY                        |
| 21.1 | 1   | 143-001              | BRAKE BASE                                           |
| 21.2 | 1   | GL185-143-115        | MAYR #10; RSD 10/894.210.03                          |
| 21.3 | 2   | 143-003              | ELECTRICAL COVER                                     |
| 21.4 | 4   | 1-8 UNC - 3.25       | Hex Cap Screw                                        |
| 21.5 | 2   | 1" WASHER            | Helical Spring Lock Washers                          |
| 21.6 | 4   | 5/8 - 11 UNC - 2.5   | HEX HEAD CAP SCREW                                   |
| 21.7 | 4   | 5/8" WASHER          | STANDARD WASHER                                      |
| 21.8 | 4   | M10 - 1.5 - 12 mm    | SOCKET HEAD CAP SCREW                                |
| 21.9 | AS  | 143-026              | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)               |
|      | NEC | 143-027              | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)               |
| 22   | AS  | GL185-157-05         | OUTBOARD STAND SHIM - 0.005" GL185 A-STAND, 25" T.W. |
|      |     | GL185-157-10         | OUTBOARD STAND SHIM - 0.010" GL185 A-STAND, 25" T.W. |
|      |     | GL185-157-31         | OUTBOARD STAND SHIM - 0.031" GL185 A-STAND, 25" T.W. |
|      | AS  | GL171-157-05         | OUTBOARD STAND SHIM - 0.005" GL171 A-STAND, 20" T.W. |
|      |     | GL171-157-10         | OUTBOARD STAND SHIM - 0.010" GL171 A-STAND, 20" T.W. |
|      |     | GL171-157-31         | OUTBOARD STAND SHIM - 0.031" GL171 A-STAND, 20" T.W. |
| 23   | 1   | GL100-159            | HOFFMAN ELECTRICAL ENCLOSURE                         |
| 24   | 1   | GL100-165-1          | FELT DUST SEAL                                       |
| 25   | 8   | 1-8 UNC - 4          | SH CAP SCREW, GL130A, 25" T.W., BASE & A-STAND       |
|      | 4   |                      | SH CAP SCREW, GL130A1, 20" T.W., BASE ONLY           |
| 26   | 4   | 1-8 UNC - 3.5        | SH CAP SCREW, GL130A1, 20" T.W., GL 171 A-STAND      |
| 27   | 8   | 1 WASHER             | SAE WASHER                                           |
| 28   | 8   | 13/16 WASHER         | Heavy Helical Spring Lock Washers(Inch Series)       |
| 29   | 1   | 5/8-11 UNC x 0.625   | Set Screw - Flat Point                               |
| 30   | 6   | 3/8-16 UNC x 4       | FLAT HEAD CAP SCREWS                                 |
| 31   | 8   | 3/8 - 16 UNC x 1.5   | SOCKET HEAD CAP SCREW                                |
| 32   | 6   | 3/8 - 16 UNC x 1.25  | SOCKET HEAD CAP SCREW                                |
| 33   | 4   | 3/8-16 UNC x 0.5     | WHIZ BOLT                                            |
| 34   | 14  | 3/8 Lock Washers     | High-Collar Helical Spring Lock Washers              |
| 35   | 4   | No. 8 - 32 UNC - 1/4 | Socket Head Cap Screw                                |
| 36   | 4   | #8 LOCK WASHER       | EXT. TOOTH LOCK WASHER                               |
| 37   | 1   | ECN 113 52810061     | 50mm HEIDENHAIN ENCODER                              |

| MACHINE #  | WINDING P/N    | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (RPM) | CAR SPEED | CAR SPEED |
|------------|----------------|-----------------------------|------------------------|---------------|---------------------|-----------|-----------|
|            |                |                             |                        |               |                     | 20" (fpm) | 25" (fpm) |
| GL130A-20L | GL130A-170-200 | 90                          | 130A/130               | 170           | 38.2                | 200       | 250       |
| GL130A-20H | GL130A-360-200 | 90                          | 130A/130               | 360           | 38.2                | 200       | 250       |
| GL130A-40L | GL130A-170-400 | 91                          | 130A/130               | 170           | 76.4                | 400       | 500       |

Max. Est. Weight: 3824.22 lbmass

HOLLISTER-WHITNEY

ELEVATOR CO.

GEARLESS MACHINE, 2500# CAP w/ 20" TW,

2000# CAP w/25" TW; 1:1 ROPED

F

UPDATE 1" BOLTS TO SHCS & LENGTH, PUR #608

8/13/13

E

ADD EFFICIENCY TO WINDING CHART, PUR #592

4/18/13

D

GL100-159 LOCATION UPDATE, PUR #565

10/26/12

C

GL100-159 WAS GL185-159, PUR #538

10/26/12

B

UPDATE BRAKE, REMOVE 1 BRAKE, PUR #513

9/5/12

A

ADD GL130A-40L MACHINE, PUR #493

1/5/12

DRAWN BY

LTL

NA

MATERIAL

SEE PARTS LIST

DIMENSIONAL TOL.

1 PLACE ±0.01, 2 PLACE ±0.005  
3&4 PLACE±0.001, ANGLES±0.1°  
REF. OPEN, (NOMINAL) ± 0.01/05

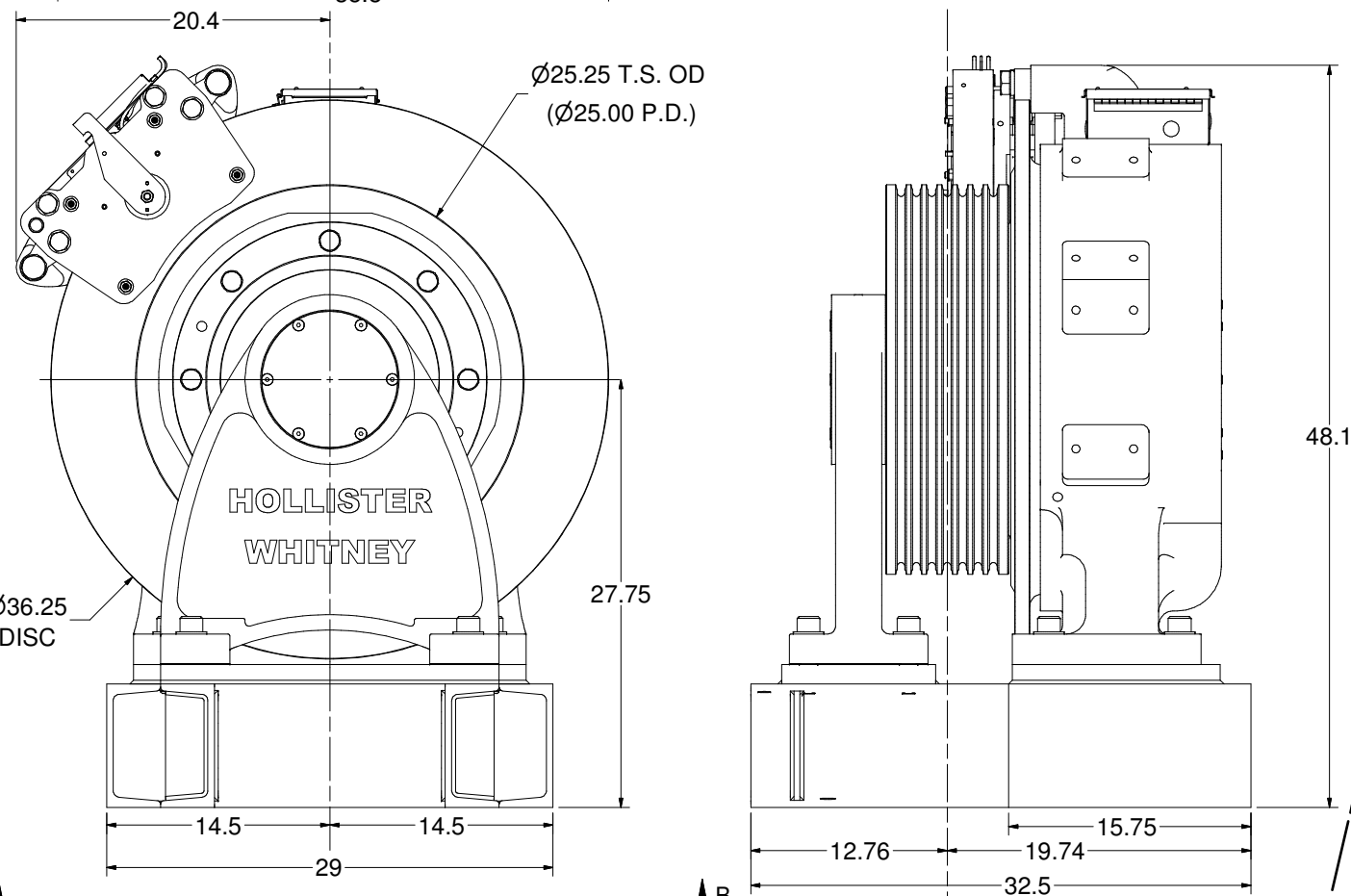
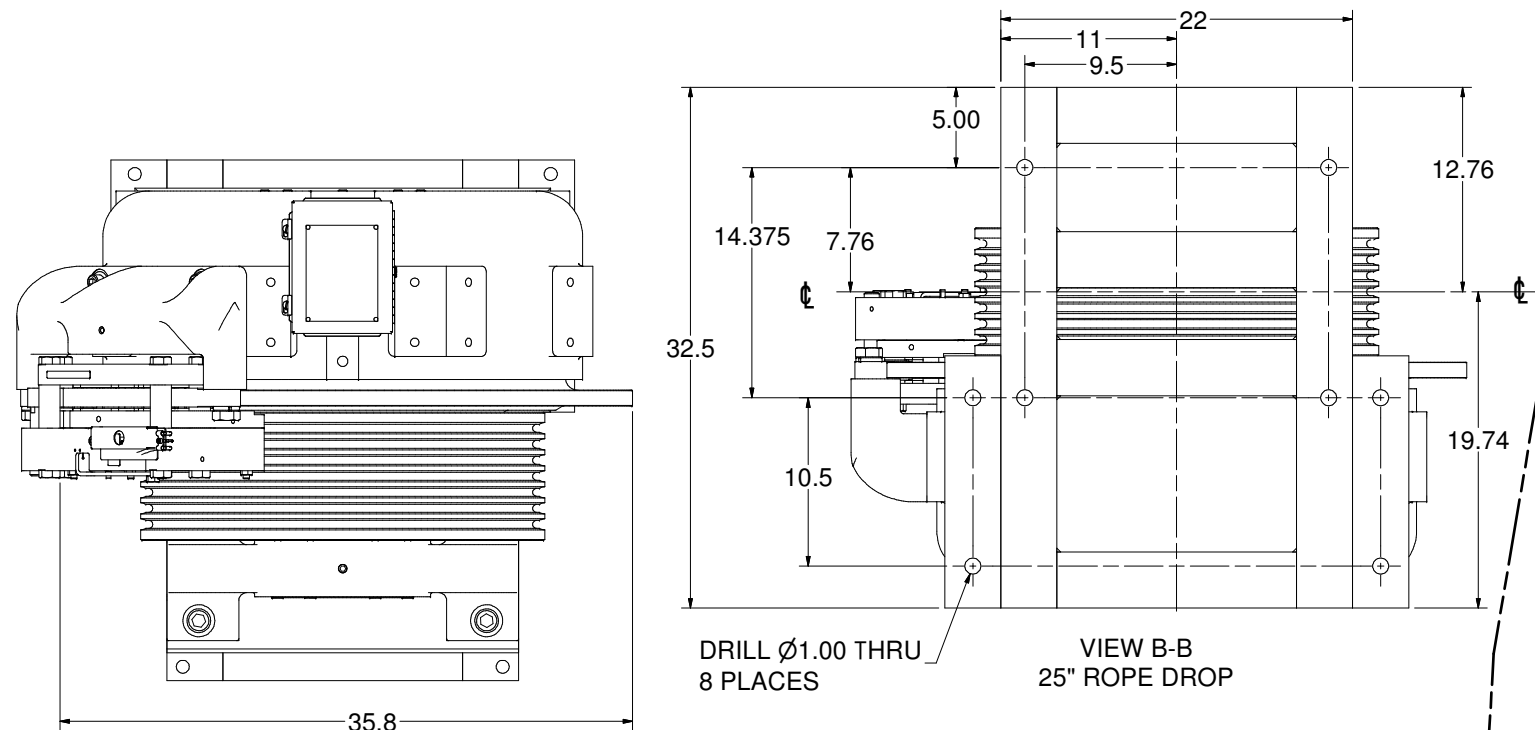
SHEET SIZE

D

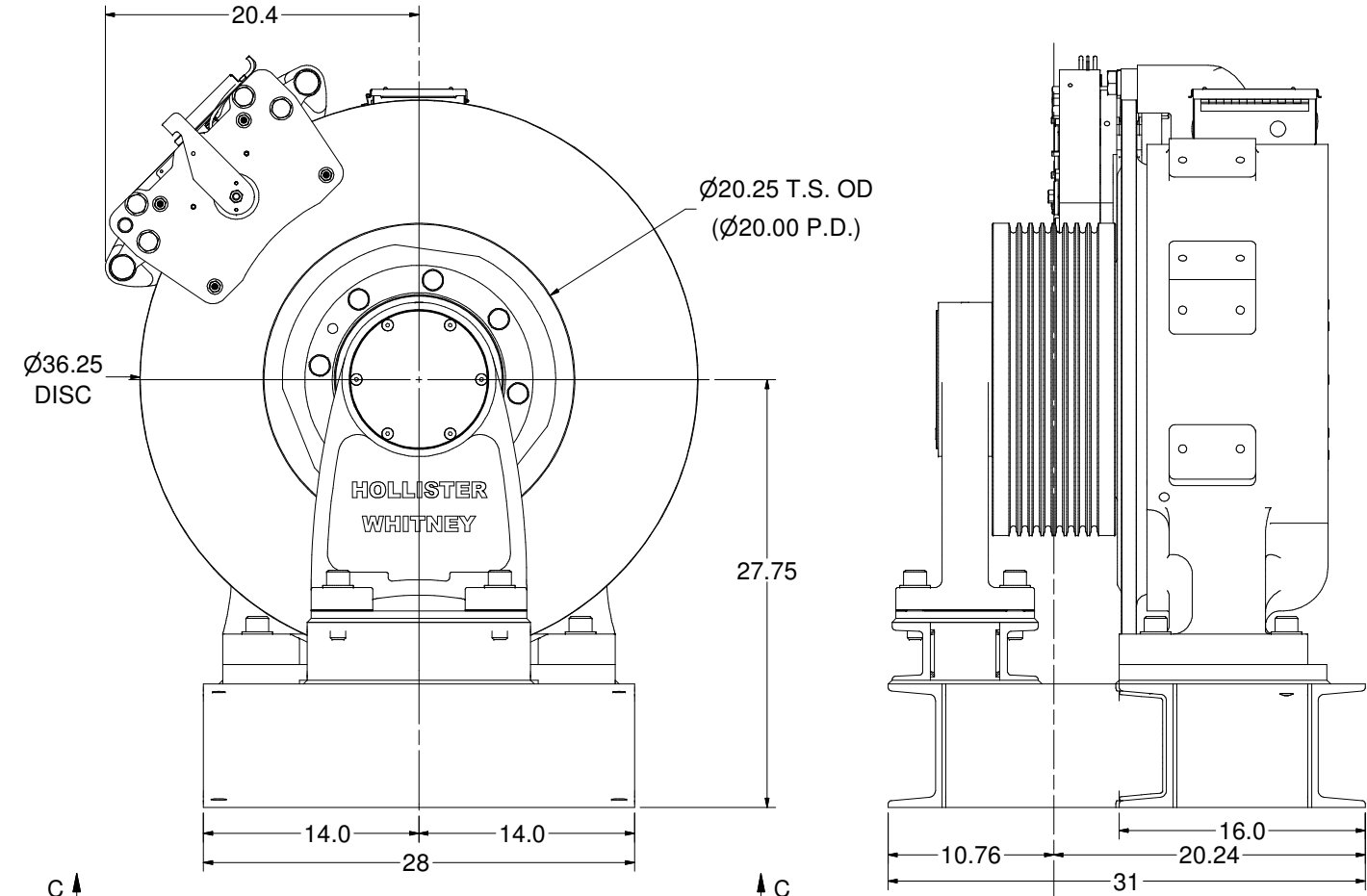
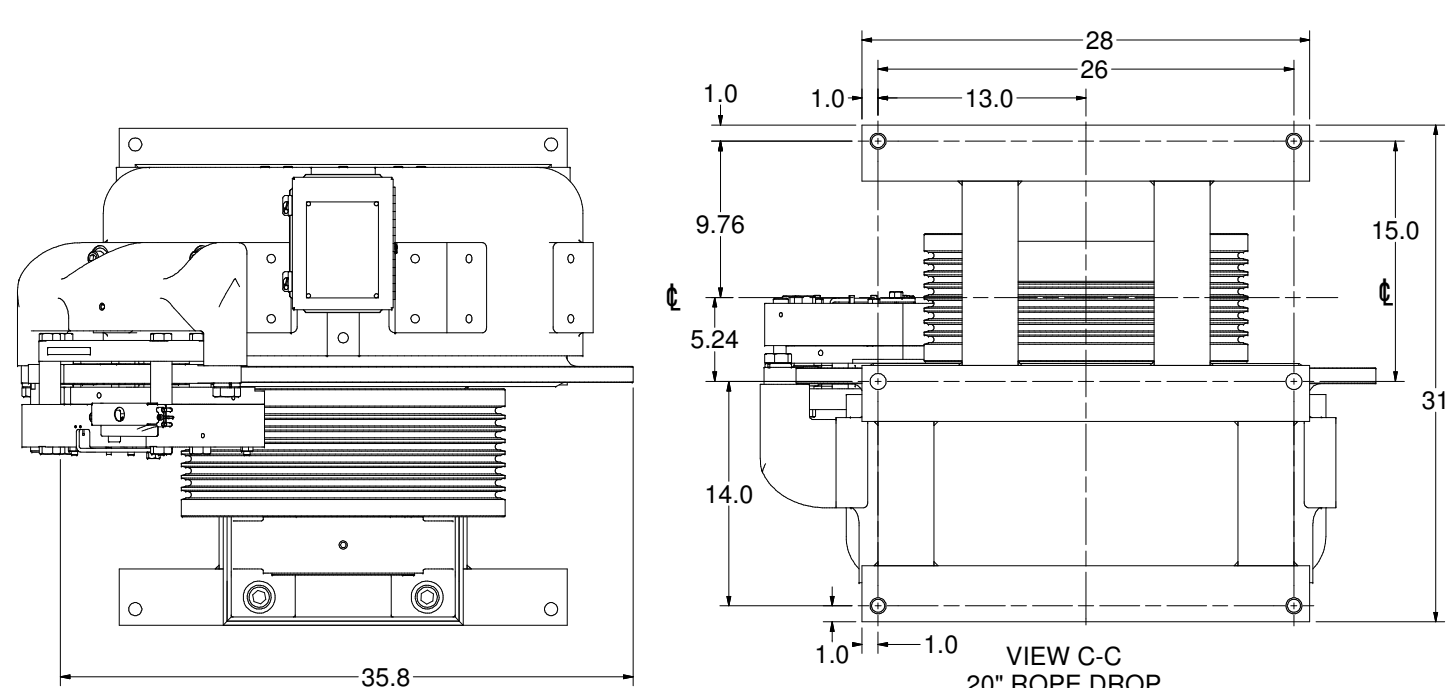
DATE

11/11/2011

GL130A



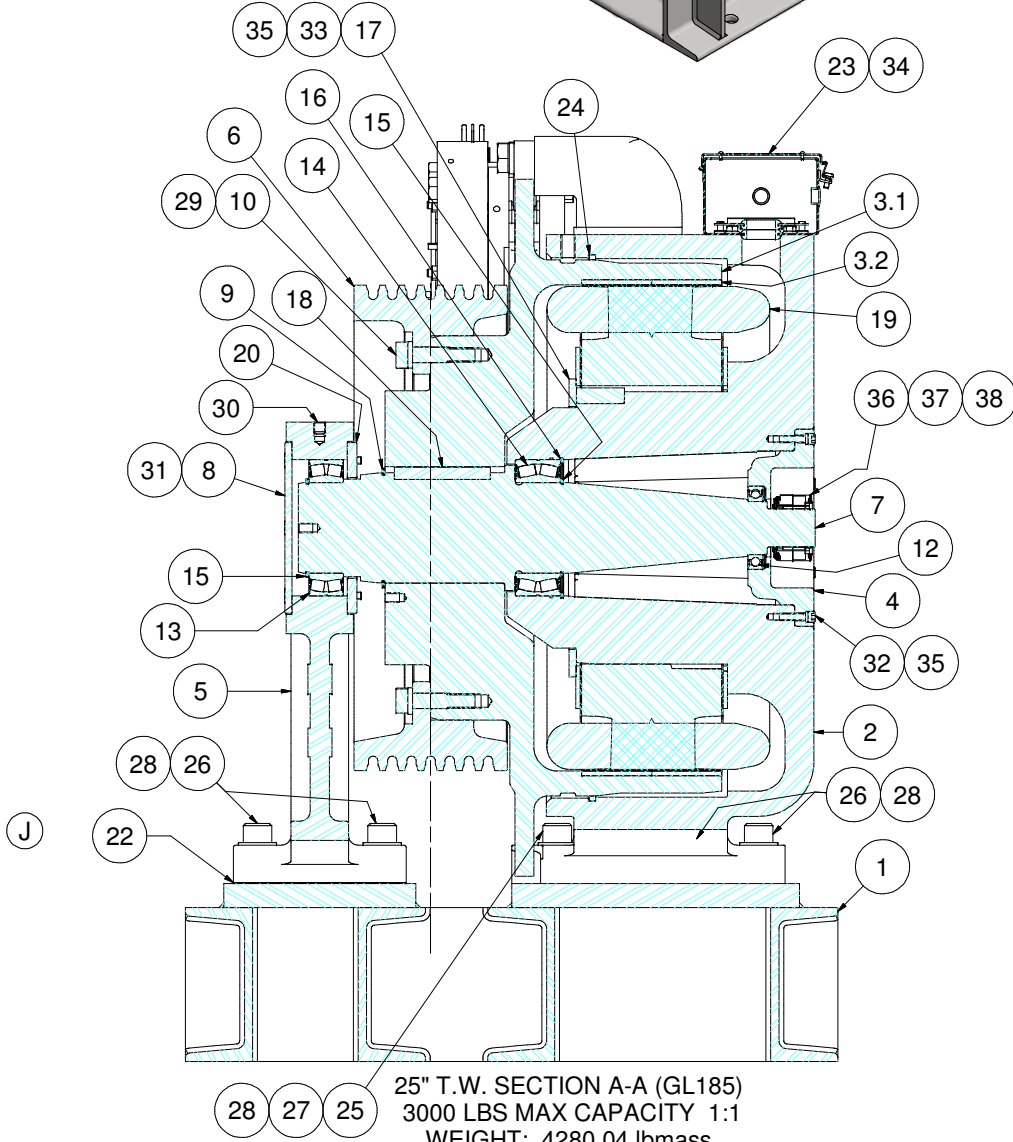
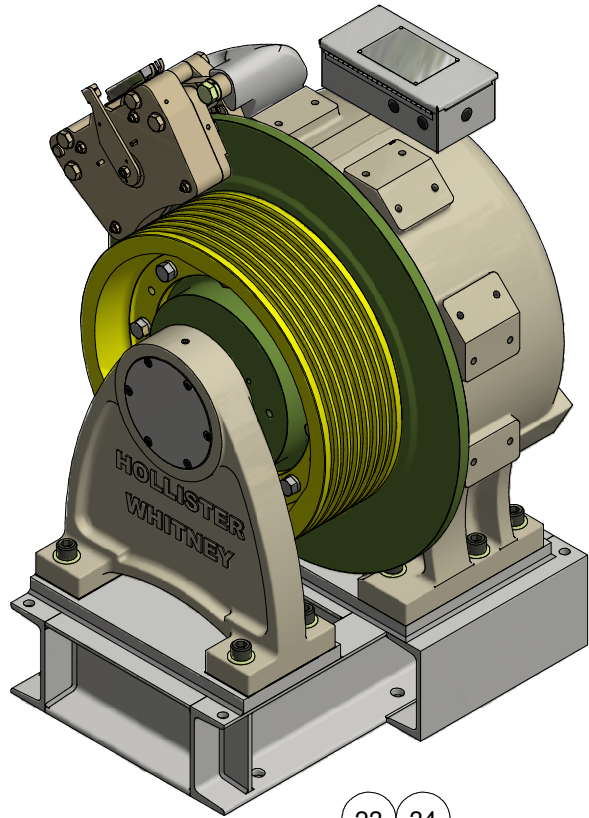
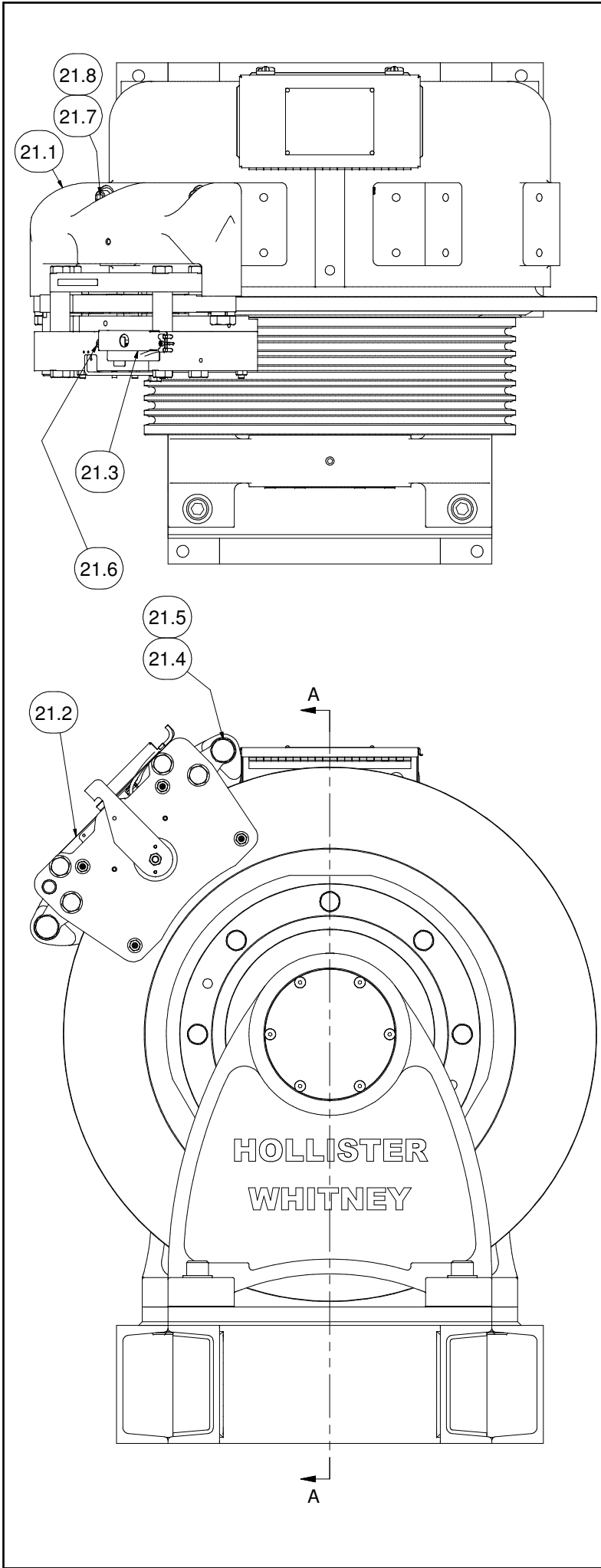
**25" SHEAVE**  
**2000# CAP. MAX**  
GL130A Mass: 3828 lbmass



**20" SHEAVE**  
**2500# CAP. MAX**  
GL130A1 Mass: 3429 lbmass

|                                                                              |       |                           |                                                                                                |
|------------------------------------------------------------------------------|-------|---------------------------|------------------------------------------------------------------------------------------------|
| Max. Est. Weight: 3824.22 lbmass                                             |       |                           |                                                                                                |
| HOLLISTER-WHITNEY                                                            |       |                           |                                                                                                |
| ELEVATOR CO.                                                                 |       |                           |                                                                                                |
| TITLE: GEARLESS MACHINE, 2500# CAP w/ 20" TW, 2000# CAP w/ 25" TW; 1:1 ROPED |       |                           |                                                                                                |
| DRAWN BY                                                                     | SCALE | MATERIAL                  | DIMENSIONAL TOL.                                                                               |
| LTL                                                                          | NA    | SEE PARTS LIST OTHER SIDE | 1 PLACE ±0.01, 2 PLACE ±0.005, 3&4 PLACES ±0.001, ANGLES ±0.1° REF. - OPEN, (NOMINAL) ± 0.0156 |
| SHEET SIZE                                                                   | D     | DATE                      | GL130A                                                                                         |
| SEE OTHER SIDE FOR UPDATES                                                   |       |                           |                                                                                                |
| 11/11/2011                                                                   |       |                           |                                                                                                |





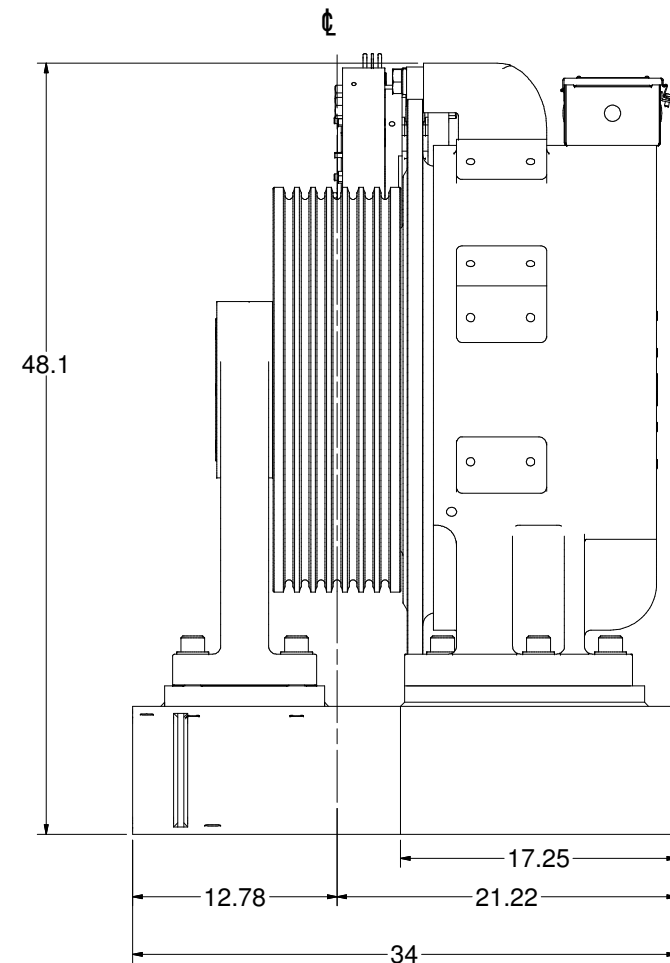
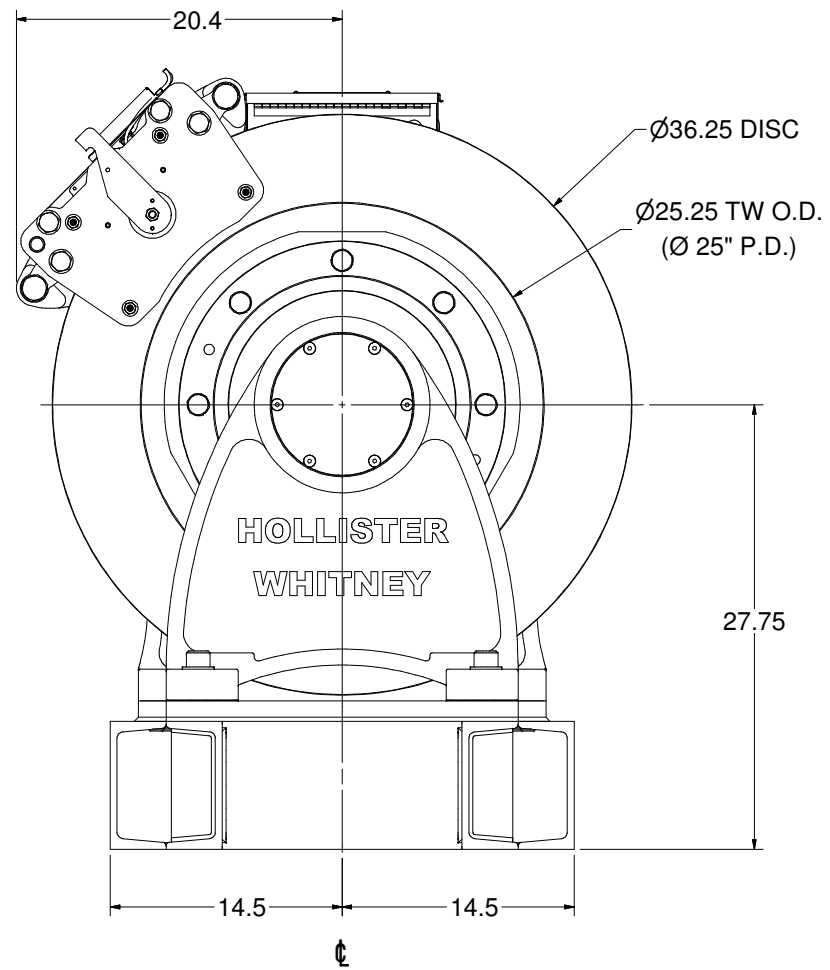
25" T.W. SECTION A-A (GL185)  
3000 LBS MAX CAPACITY 1:1  
WEIGHT: 4280.04 lbmass

| ITEM | QTY       | PART NUMBER           | DESCRIPTION                                          |
|------|-----------|-----------------------|------------------------------------------------------|
| 1    | 1         | GL185B-01             | FINISHING BASE, GL185, 25" T.W. 3000 LBS CAP.        |
| 2    | 1         | GL185-001             | BASE HOUSING, MOTOR #GL185                           |
| 3    | 1         | GL185-002             | ROTOR ASSEMBLY - #GL185, 25" T.W. 3000 LBS CAP.      |
| 3.1  | 1         | GL185-004             | ROTOR - #GL185, 25" T.W. 3000 LBS CAP.               |
|      | 80        | GL185-099             | PERMANENT MAGNET - MOTOR #GL185                      |
| 4    | 1         | GL260-005             | BEARING CAP                                          |
| 5    | 1         | GL185-006             | OUTBOARD STAND, AC GEARLESS, 25" T.W.                |
| 6    | 1         | GL185-008             | 25" TRACTION WHEEL                                   |
| 7    | 1         | GL185-018             | MAIN SHAFT - GL185 1:1 MACHINE                       |
| 8    | 1         | GL185-019             | END CAP, OUTBOARD STAND, 25" T.W.                    |
| 9    | 1         | GL185-020             | RETAINING RING - ROTOR                               |
| 10   | 8         | GL185-073             | BODY BOLT                                            |
| 11   | 1         | GL100-088             | KEY - STATOR CORE TO BASE                            |
| 12   | 1         | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL          |
| 13   | 1         | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                     |
| 14   | 1         | GL185-091             | BEARING, SEALED SPHERICAL ROLLER                     |
| 15   | 2         | GL130-092             | RETAINING RING - SHAFT                               |
| 16   | 1         | GL100-093             | RETAINING RING - HOUSING                             |
| 17   | 1         | GL185-094             | CLAMP RING - STATOR ASSEMBLY                         |
| 18   | 1         | GL185-095             | KEY - MAIN SHAFT TO ROTOR                            |
| 19   | 1         | GL185-100             | WINDING ASSEMBLY - 40 POLE                           |
| 20   | 1         | GL185-104             | INBOARD CAP, OUTBOARD STAND, 25" T.W.                |
| 21   | 1         | GL185-143             | DISC BRAKE (MAYR 10) ASSEMBLY                        |
| 21.1 | 1         | 143-001               | BRAKE BASE                                           |
| 21.2 | 1         | GL185-143-115         | MAYR #10; RSD 10/894.210.03                          |
| 21.3 | 1         | 143-003               | COVER - MAYR #10 ELECTRICAL                          |
| 21.4 | 2         | 1 - 8 UNC x 3.5"      | HEX HEAD CAP SCREW                                   |
| 21.5 | 2         | 1" WASHER             | STANDARD LOCK WASHER                                 |
| 21.6 | 1         | M10 x 1.5 x 12 mm     | SHCS - METRIC                                        |
| 21.7 | 4         | 5/8 - 11 UNC x 2.5"   | SOCKET HEAD CAP SCREW                                |
| 21.8 | 4         | 5/8 WASHER            | STANDARD WASHER                                      |
| 21.9 | AS        | 143-026               | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)               |
|      | NEC       | 143-027               | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)               |
| 22   | 1         | GL185-159             | HOFFMAN ELECTRICAL ENCLOSURE, A12064CH MODIFIED      |
| 23   | AS<br>NEC | GL185-157-05          | OUTBOARD STAND SHIM - 0.005" GL185 A-STAND, 25" T.W. |
|      |           | GL185-157-10          | OUTBOARD STAND SHIM - 0.010" GL185 A-STAND, 25" T.W. |
|      |           | GL185-157-31          | OUTBOARD STAND SHIM - 0.031" GL185 A-STAND, 25" T.W. |
| 24   | 1         | GL100-165-1           | FELT DUST SEAL                                       |
| 25   | 2         | 1 - 8 UNC x 5.5"      | SOCKET HEAD CAP SCREW                                |
| 26   | 8         | 1 - 8 UNC x 4"        | SOCKET HEAD CAP SCREW, 25" T.W., BASE & A-STAND      |
| 27   | 2         | 1 - 8 UNC NUT         | HEAVY HEX NUT                                        |
| 28   | 12        | 1" WASHER             | SAE WASHER                                           |
| 29   | 8         | 13/16 WASHER          | HEAVY LOCK WASHER                                    |
| 30   | 1         | 5/8-11 UNC x 0.625    | HALF DOG SET SCREW                                   |
| 31   | 6         | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                                 |
| 32   | 6         | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                                |
| 33   | 6         | 3/8 - 16 UNC x 1.25   | SOCKET HEAD CAP SCREW                                |
| 34   | 4         | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                            |
| 35   | 12        | 0.375 WASHER          | CAP SCREW LOCK WASHER                                |
| 36   | 1         | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                              |
| 37   | 4         | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                                |
| 38   | 4         | #8 LOCK WASHER        | EXT. TOOTH LOCK WASHER                               |

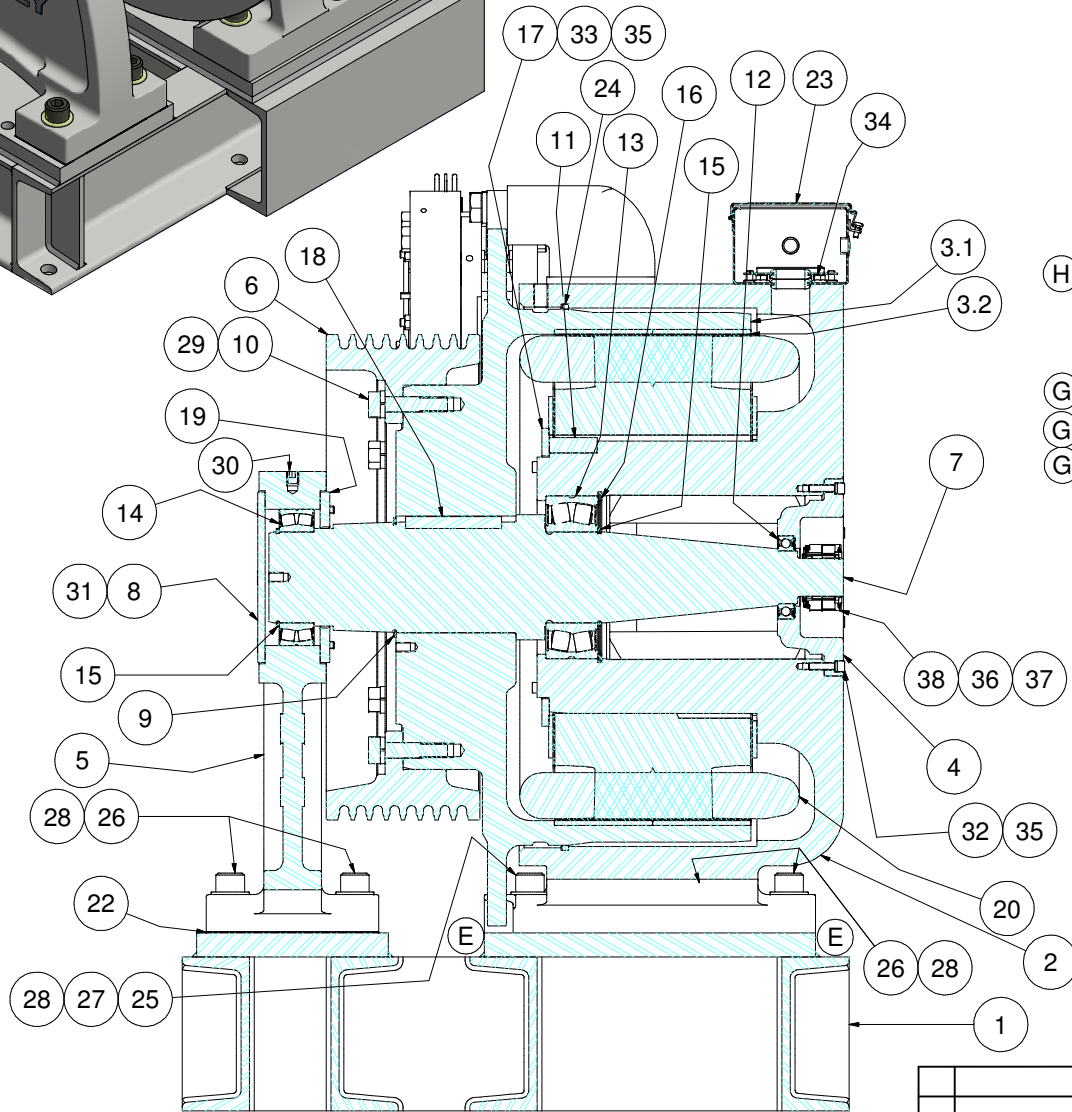
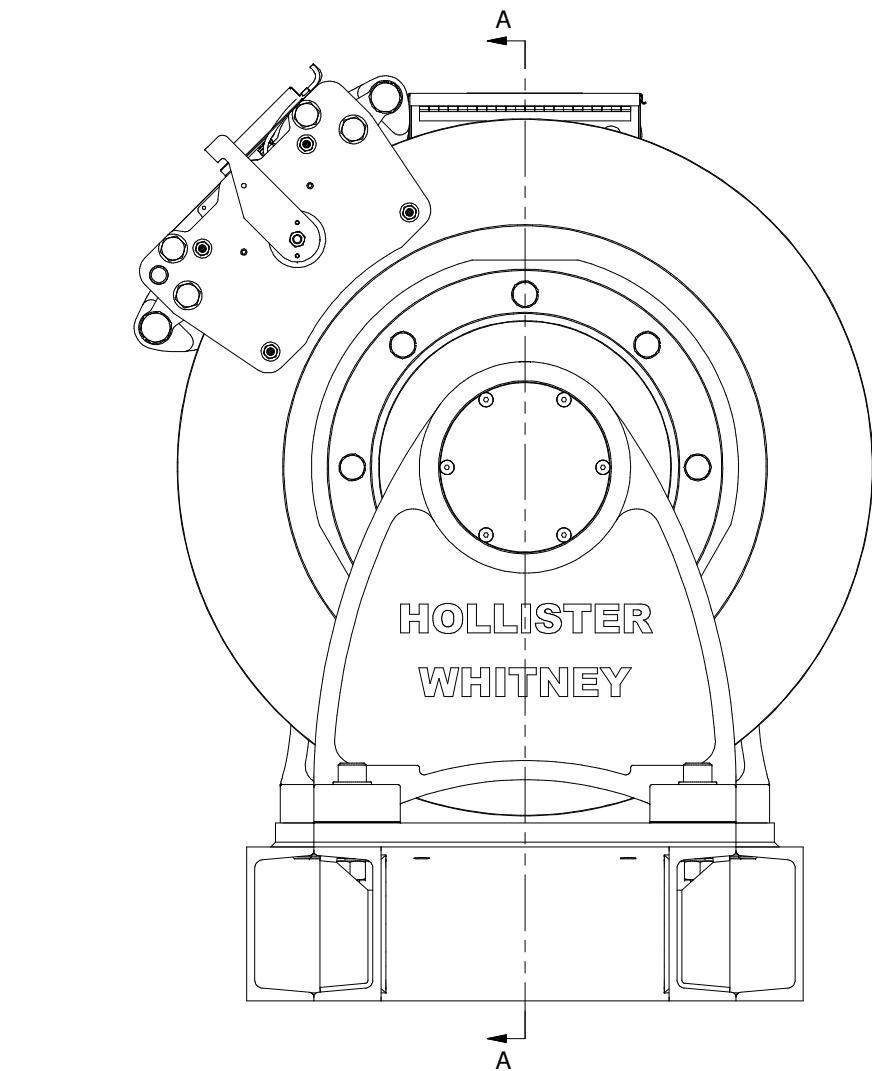
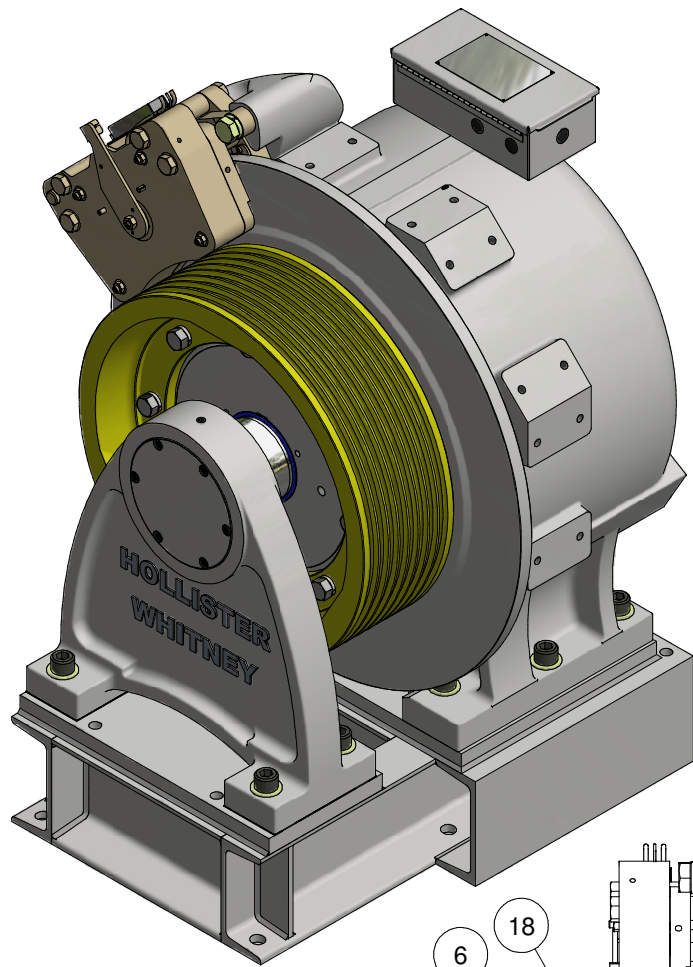
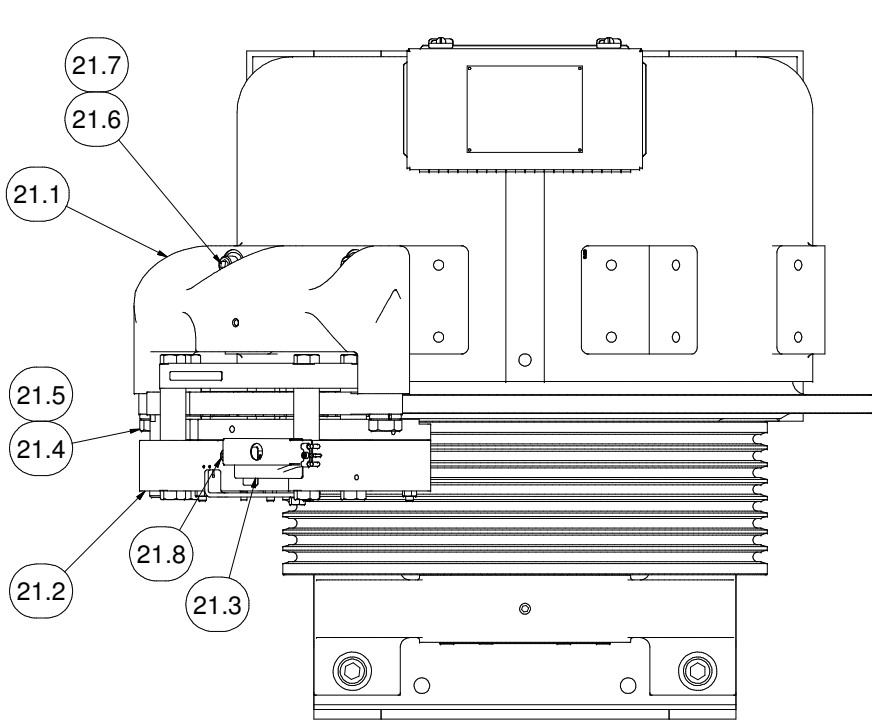
| MACHINE WINDINGS GL185-100 |               |                             |                        |               |                     |
|----------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|
| MACHINE #                  | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (RPM) |
| GL185-35L                  | GL185-170-350 | 90                          | 185                    | 170           | 350                 |
| GL185-35H                  | GL185-360-350 | 90                          | 185                    | 360           | 350                 |
| GL185-50L                  | GL185-170-500 | 90                          | 185                    | 170           | 76.4                |
| GL185-50H                  | GL185-360-500 | 90                          | 185                    | 360           | 76.4                |
| GL185-70L                  | GL185-170-700 | 90                          | 185                    | 170           | 107.0               |

WEIGHT: 4280.0 lbmass

|   |                                                    |     |                                              |     |                                                   |                                     |                  |                                                                                                                  |
|---|----------------------------------------------------|-----|----------------------------------------------|-----|---------------------------------------------------|-------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|
|   |                                                    | F   | UPDATE BOLTS TO SHCS, ADD THRU BOLT PUR #608 | LTL | 8/13/13                                           | HOLLISTER-WHITNEY<br>ELEVATOR CORP. |                  |                                                                                                                  |
|   |                                                    | E   | ADD EFFICIENCY TO WINDING CHART, PUR #592    | LTL | 4/18/13                                           |                                     |                  |                                                                                                                  |
| J | ADD A-STAND & BRAKE SHIMS, PUR#842                 | LTL | 8/26/17                                      | D   | BRAKE UPDATE, REMOVE BRAKE, PUR #613              | LTL                                 | 9/5/12           | TITLE<br>GEARLESS MACHINE (3000 LBS MAX CAPACITY); 1:1 ROPED                                                     |
| H | REMOVE 1xGL185-090, ADD 1x GL185-091, PUR #639     | LTL | 5/5/14                                       | C   | ADD SECOND BRAKE, SHEET 2, PUR #469               | LTL                                 | 10/26/11         | DRAWN BY<br>LTL                                                                                                  |
| G | ADD 2ND LOCKWING, GL260-005 WAS GL100-005, 9/23/13 | LTL | 9/15/11                                      | B   | ADD GL185-020, UPDATE ITEMS 5, 7, 8, 19, PUR #458 | LTL                                 | 9/15/11          | SCALE<br>NA                                                                                                      |
|   |                                                    |     |                                              | A   | RELEASE FOR PRODUCTION, PUR #453                  | LTL                                 | 8/18/11          | MATERIAL<br>SEE PARTS LIST ABOVE                                                                                 |
|   |                                                    |     |                                              |     |                                                   | SHEET SIZE<br>D                     | DATE<br>8/8/2011 | DIMENSIONAL TOL.<br>1 PLACE ± 0.01 2 PLACE ± 0.005 3/4 PLACE ± 0.001 ANGLES ± 0.1° REF. OPEN, (NOMINAL) ± 0.0150 |
|   |                                                    |     |                                              |     |                                                   |                                     |                  | GL185<br>SHEET 1 OF 2                                                                                            |



SEE OTHER SIDE FOR REVISIONS



SECTION A-A

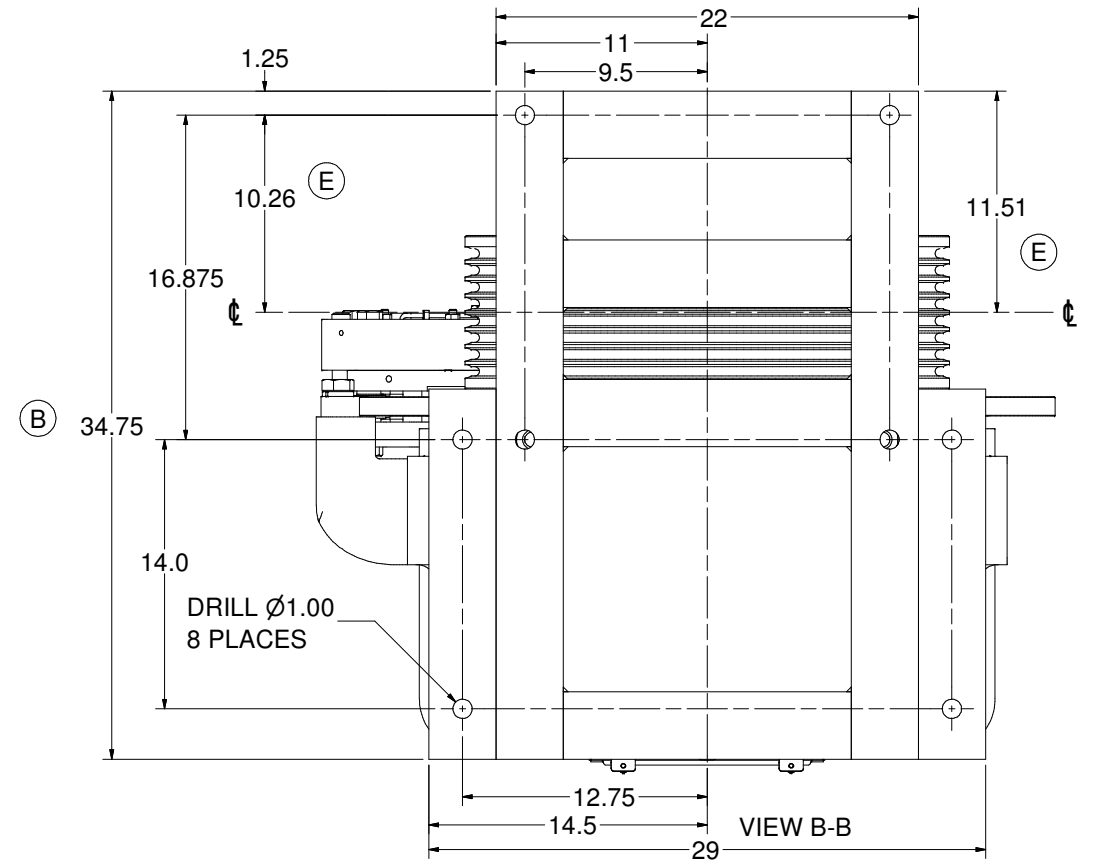
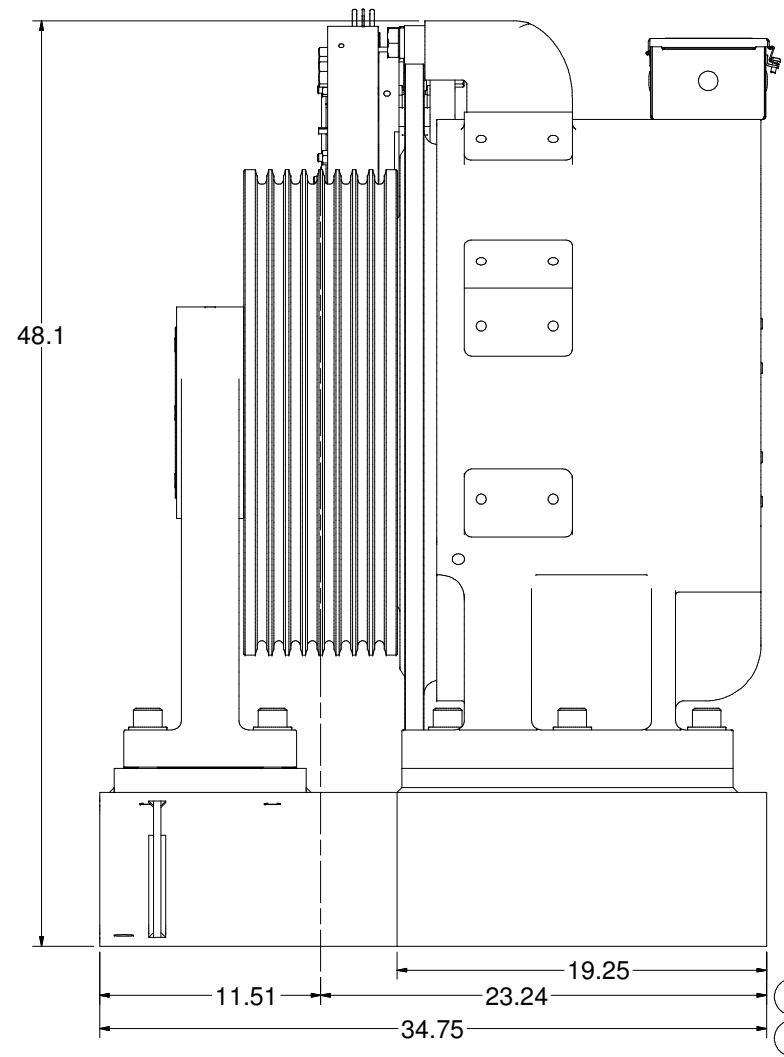
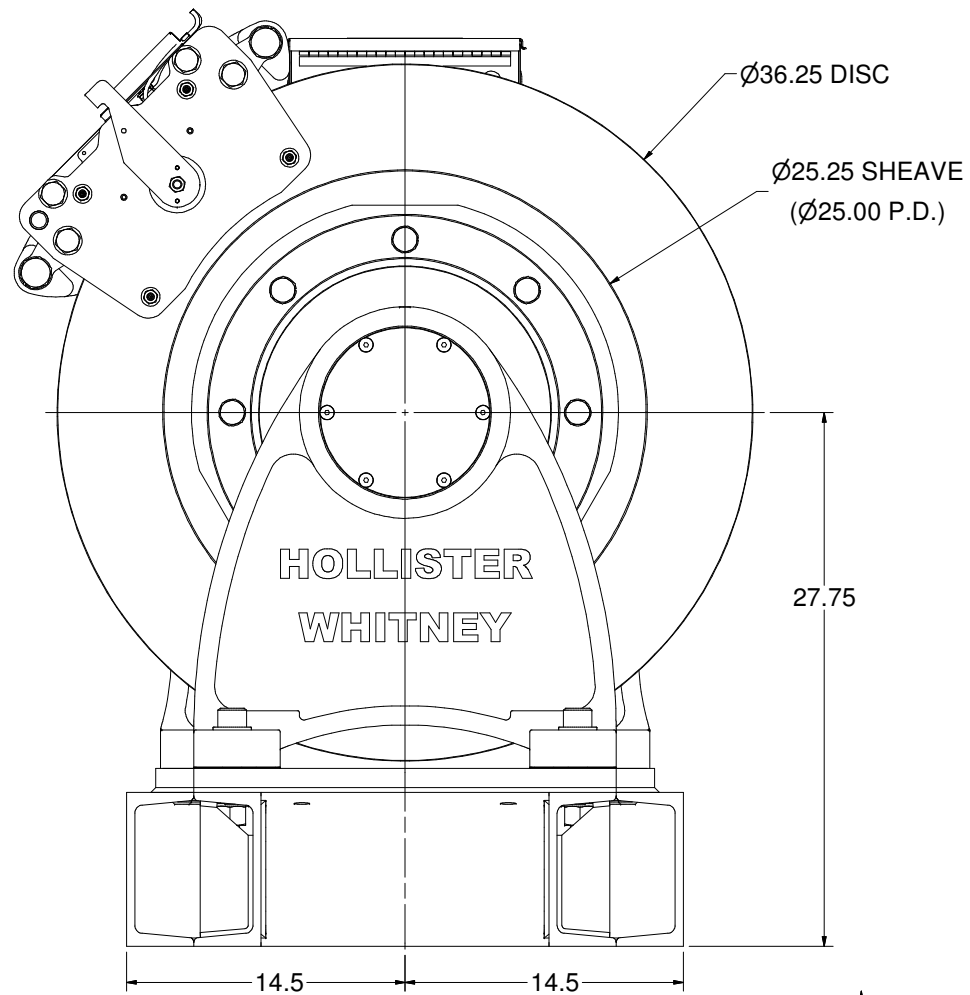
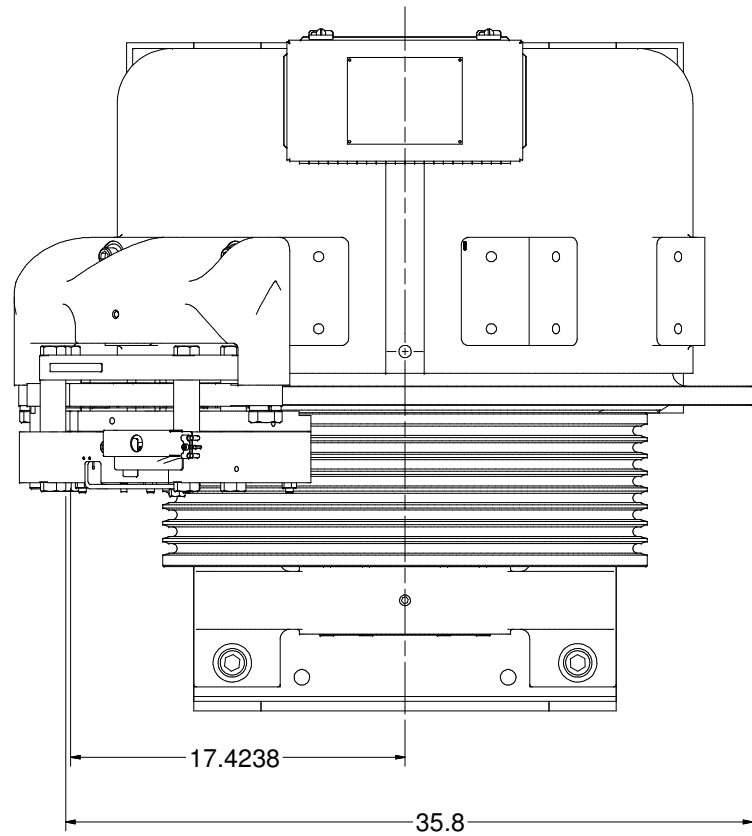
| ITEM | QTY       | PART NUMBER          | DESCRIPTION                                     |
|------|-----------|----------------------|-------------------------------------------------|
| 1    | 1         | GL260B-01            | FINISHING BASE, GL260                           |
| 2    | 1         | GL260-001            | BASE HOUSING, MOTOR #GL260                      |
| 3    | 1         | GL260-002            | ROTOR ASSEMBLY - MOTOR #GL260                   |
| 3.1  | 1         | GL260-004            | ROTOR                                           |
|      | 80        | GL260-099            | PERMANENT MAGNET - #GL260 & GL130A MOTORS       |
| 4    | 1         | GL260-005            | BEARING CAP                                     |
| 5    | 1         | GL185-006            | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1         | GL185-008            | SHEAVE, 25"                                     |
| 7    | 1         | GL260-018            | MAIN SHAFT                                      |
| 8    | 1         | GL185-019            | END CAP                                         |
| 9    | 1         | GL185-020            | RETAINING RING - ROTOR                          |
| 10   | 8         | GL185-073            | BODY BOLT                                       |
| 11   | 1         | GL100-088            | KEY - STATOR CORE TO BASE                       |
| 12   | 1         | GL185-089            | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1         | GL130-090            | SEALED SPHERICAL ROLLER BEARING                 |
| 14   | 1         | GL185-090            | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 2         | GL130-092            | RETAINING RING - SHAFT                          |
| 16   | 1         | GL130-093            | RETAINING RING - HOUSING                        |
| 17   | 1         | GL185-094            | CLAMP RING - STATOR ASSEMBLY                    |
| 18   | 1         | GL185-095            | KEY - MAIN SHAFT TO ROTOR                       |
| 19   | 1         | GL185-104            | CAP                                             |
| 20   | 1         | GL260-100            | WINDING ASSEMBLY - 40 POLE                      |
| 21   | 1         | GL185-143            | DISC BRAKE (MAYR 10) ASSEMBLY                   |
| 21.1 | 1         | 143-001              | BRAKE BASE                                      |
| 21.2 | 1         | GL185-143-115        | MAYR #10; RSD 10/894.210.03                     |
| 21.3 | 1         | 143-003              | COVER - MAYR #10 ELECTRICAL                     |
| 21.4 | 2         | 1 - 8 UNC x 3.5"     | HEX HEAD CAP SCREW                              |
| 21.5 | 2         | 1" WASHER            | STANDARD LOCK WASHER                            |
| 21.6 | 4         | 5/8 - 11 UNC x 2.5"  | SOCKET HEAD CAP SCREW                           |
| 21.7 | 4         | 5/8 WASHER           | STANDARD WASHER                                 |
| 21.8 | 1         | M10 x 1.5 x 12 mm    | SHCS - METRIC                                   |
| 21.9 | AS<br>NEC | 143-026              | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)          |
|      |           | 143-027              | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)          |
| 22   | AS<br>NEC | GL185-157-05         | OUTBOARD STAND SHIM - 0.005"                    |
|      |           | GL185-157-10         | OUTBOARD STAND SHIM - 0.010"                    |
|      |           | GL185-157-31         | OUTBOARD STAND SHIM - 0.031"                    |
| 23   | 1         | GL185-159            | HOFFMAN ELECTRICAL ENCLOSURE, A12064CH MODIFIED |
| 24   | 1         | GL100-165-1          | FELT DUST SEAL                                  |
| 25   | 2         | 1 - 8 UNC x 5.5"     | SOCKET HEAD CAP SCREW                           |
| 26   | 8         | 1 - 8 UNC x 4"       | SOCKET HEAD CAP SCREW                           |
| 27   | 2         | 1 - 8 UNC NUT        | HEAVY HEX NUT                                   |
| 28   | 12        | 1" WASHER            | SAE WASHER                                      |
| 29   | 8         | 13/16 WASHER         | HEAVY LOCK WASHER                               |
| 30   | 1         | 5/8-11 UNC x 0.625   | HALF DOG SET SCREW                              |
| 31   | 6         | 3/8-16 UNC x 4       | FLAT HEAD CAP SCREWS                            |
| 32   | 6         | 3/8 - 16 UNC - 1 1/2 | SOCKET HEAD CAP SCREW                           |
| 33   | 6         | 3/8 - 16 UNC - 1 1/4 | SOCKET HEAD CAP SCREW                           |
| 34   | 4         | 3/8-16 UNC x 0.5     | WHIZ BOLT                                       |
| 35   | 12        | 3/8 Lock Washers     | HI-COLLAR LOCK WASHER                           |
| 36   | 4         | No. 8 - 32 UNC - 1/4 | HEX HEAD CAP SCREW                              |
| 37   | 4         | #8 LOCK WASHER       | EXT. TOOTH LOCK WASHER                          |
| 38   | 1         | ECN 113 52810061     | 50mm HEIDENHAIN ENCODER                         |

| MACHINE # | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (RPM) | CAR SPEED (fpm) |
|-----------|---------------|-----------------------------|------------------------|---------------|---------------------|-----------------|
| GL260-35L | GL260-170-350 | 90                          | 260                    | 170           | 53.5                | 350             |
| GL260-35H | GL260-360-350 | 90                          | 260                    | 360           | 53.5                | 350             |
| GL260-50L | GL260-170-500 | 90                          | 260                    | 170           | 53.5                | 500             |
| GL260-50H | GL260-360-500 | 90                          | 260                    | 360           | 53.5                | 500             |
| GL260-70L | GL260-170-700 | 90                          | 260                    | 170           | 53.5                | 700             |

WEIGHT: 4769.2 lbmass

|   |                                                  |             |   |                                  |                                             |              |                                           |                |       |              |                                                                                              |
|---|--------------------------------------------------|-------------|---|----------------------------------|---------------------------------------------|--------------|-------------------------------------------|----------------|-------|--------------|----------------------------------------------------------------------------------------------|
|   |                                                  |             |   | F                                | ADD WINDING CHART, PUR #592                 | LTL 4/18/13  | HOLLISTER-WHITNEY<br>ELEVATOR CORP.       |                |       |              |                                                                                              |
|   |                                                  |             |   | E                                | MOVE MACHINE C/L 0.5", PUR #579             | LTL 3/5/13   | TITLE                                     |                |       |              |                                                                                              |
|   |                                                  |             |   | D                                | BEARING HOUSING P/N WAS GL185-005, PUR #536 | LTL 10/22/12 | GEARLES MACHINE, 4000# MAX CAP, 1:1 ROPED |                |       |              |                                                                                              |
|   |                                                  |             |   | C                                | UPDATE BRAKE, REMOVE L BRAKE, PUR #513      | LTL 9/5/12   | DRAWN BY                                  |                | SCALE | MATERIAL     | DIMENSIONAL TOL.                                                                             |
| H | ADD A STAND & BRAKE SHIMS, PUR #642              | LTL 6/26/17 | B | 34.75" BASE WAS 36", PUR #608    | LTL 6/27/12                                 | L            | NA                                        | SEE PARTS LIST |       |              | 1 PLACE 1.001 ; 2 PLACE 2.000<br>3/64 PLACE 1.001; ANGLES 0.01<br>REF. OPEN, INTERNAL 0.0016 |
| G | UPDATE BOLTS TO SHCS, L ADD THRU BOLTS, PUR #608 | LTL 8/20/13 | A | CORRECT BRAKE ASSY QTY, PUR #478 | LTL 1/11/12                                 | SHEET SIZE   |                                           | DATE           |       | GL2600       |                                                                                              |
|   |                                                  |             |   |                                  |                                             | D            |                                           | 11/18/2011     |       | SHEET 1 OF 2 |                                                                                              |





SEE OTHER SIDE FOR  
REVISIONS

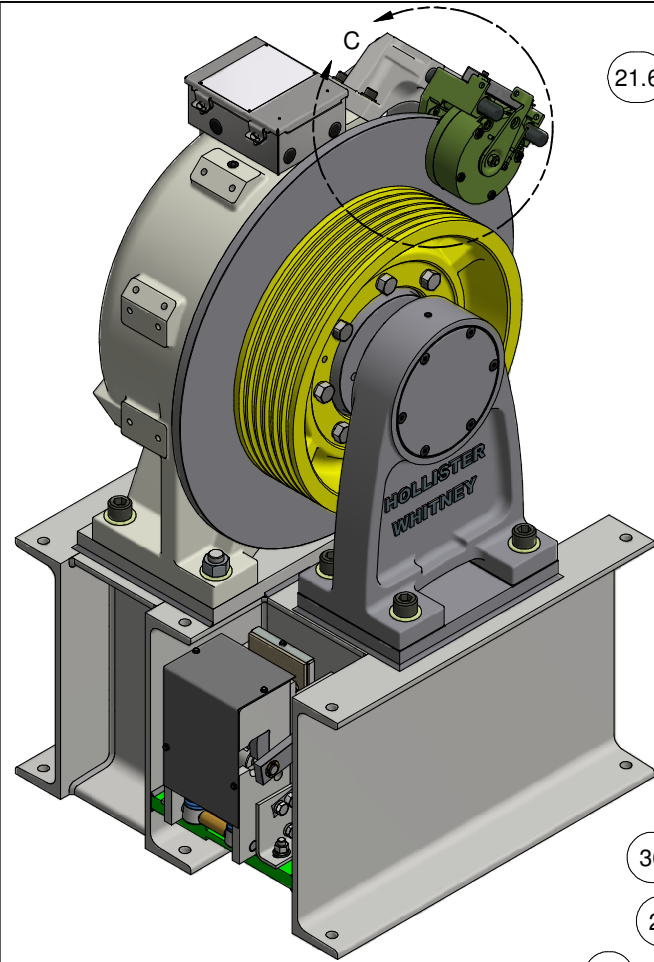
WEIGHT: 4769.2 lbmass

**HOLLISTER-WHITNEY**  
ELEVATOR CORP.

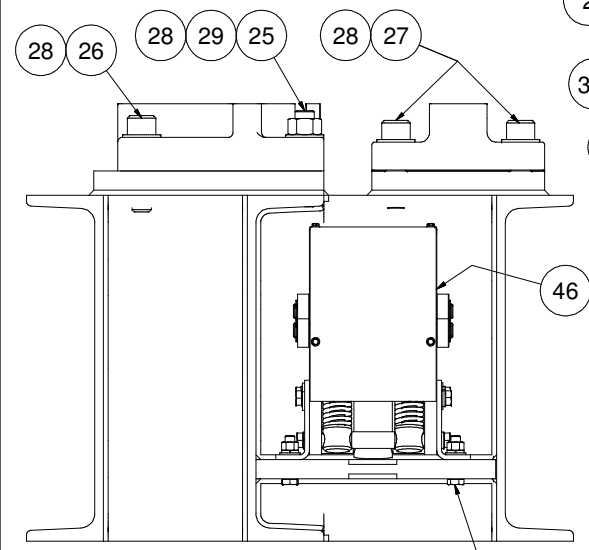
GEARLES MACHINE, 4000# MAX CAP, 1:1 ROPED

| DRAWN BY | SCALE | MATERIAL                     | DIMENSIONAL TOL.                                                                                  |
|----------|-------|------------------------------|---------------------------------------------------------------------------------------------------|
| LTL      | NA    | SEE PARTS LIST<br>OTHER SIDE | 1 PLACE ± 0.01 2 PLACE ± 0.005<br>3&4 PLACE ± 0.001 ANGLES ± 0.1°<br>REF. OPEN (NOMINAL) ± 0.0156 |

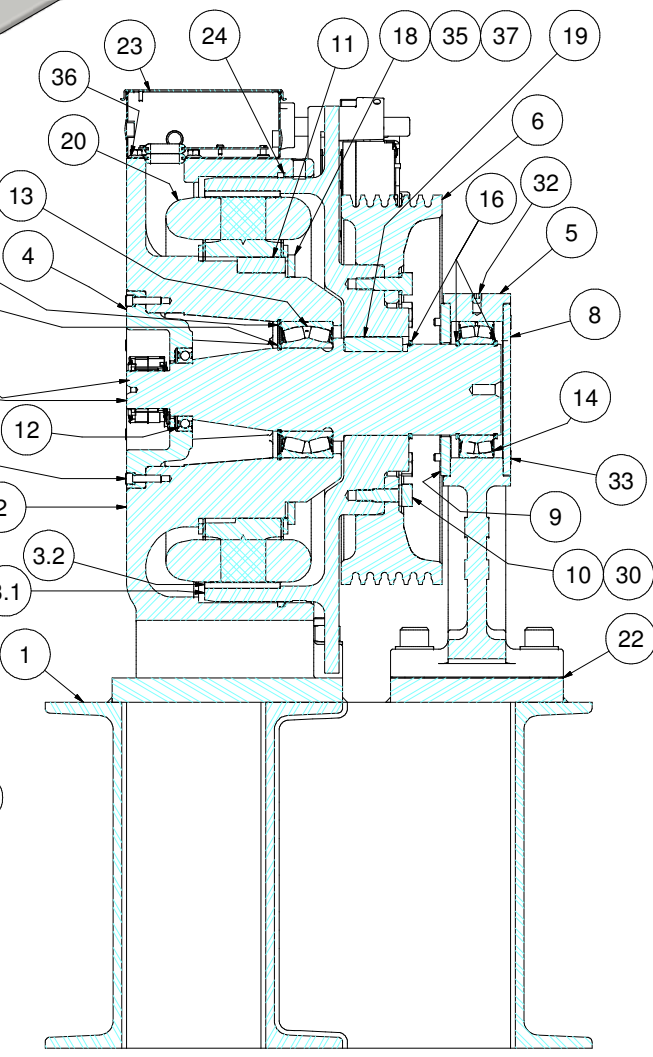
| SHEET SIZE | DATE       | GL260        |
|------------|------------|--------------|
| D          | 11/18/2011 | SHEET 2 OF 2 |



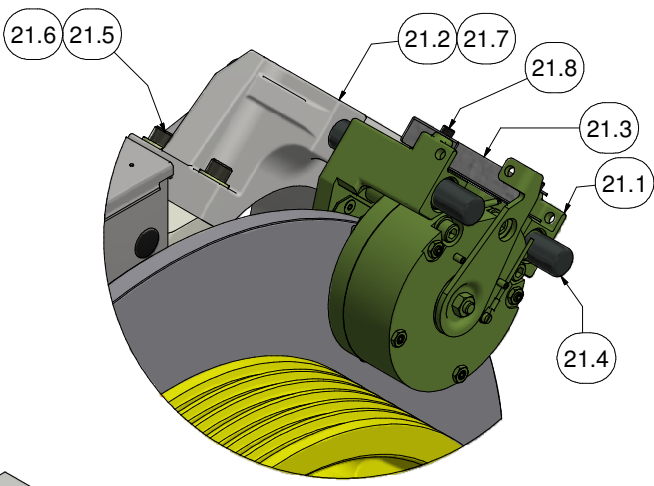
MACHINE REQUIRES ONE (1) PRIMARY SERVICE BRAKE AND ONE ROPE GRIPPER FOR EMERGENCY SERVICE. 620 ROPE GRIPPER (NOT INCLUDED) SHOWN ON LEFT SIDE. RIGHT SIDE SIMILAR. BOLT-DOWN HARDWARE INCLUDED.



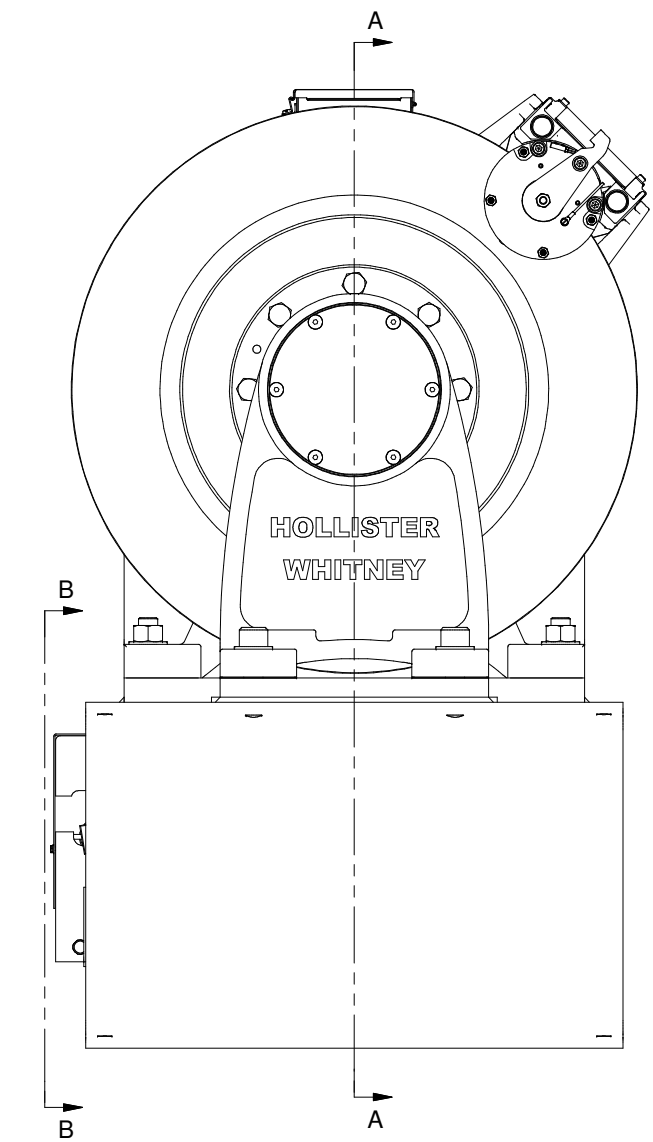
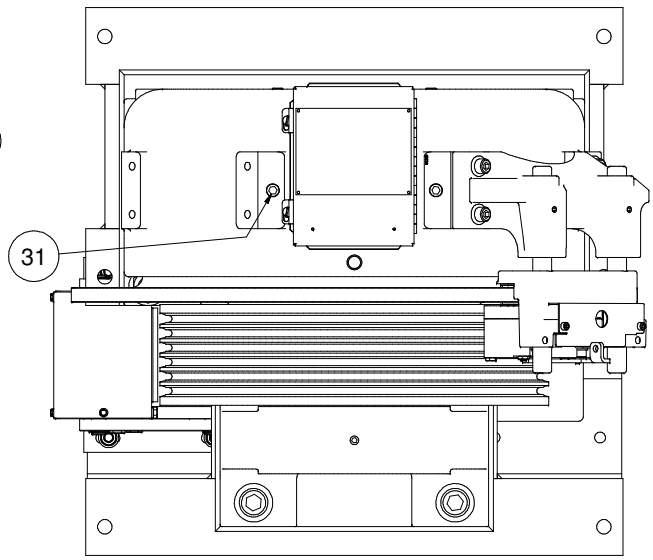
VIEW B-B



SECTION A-A



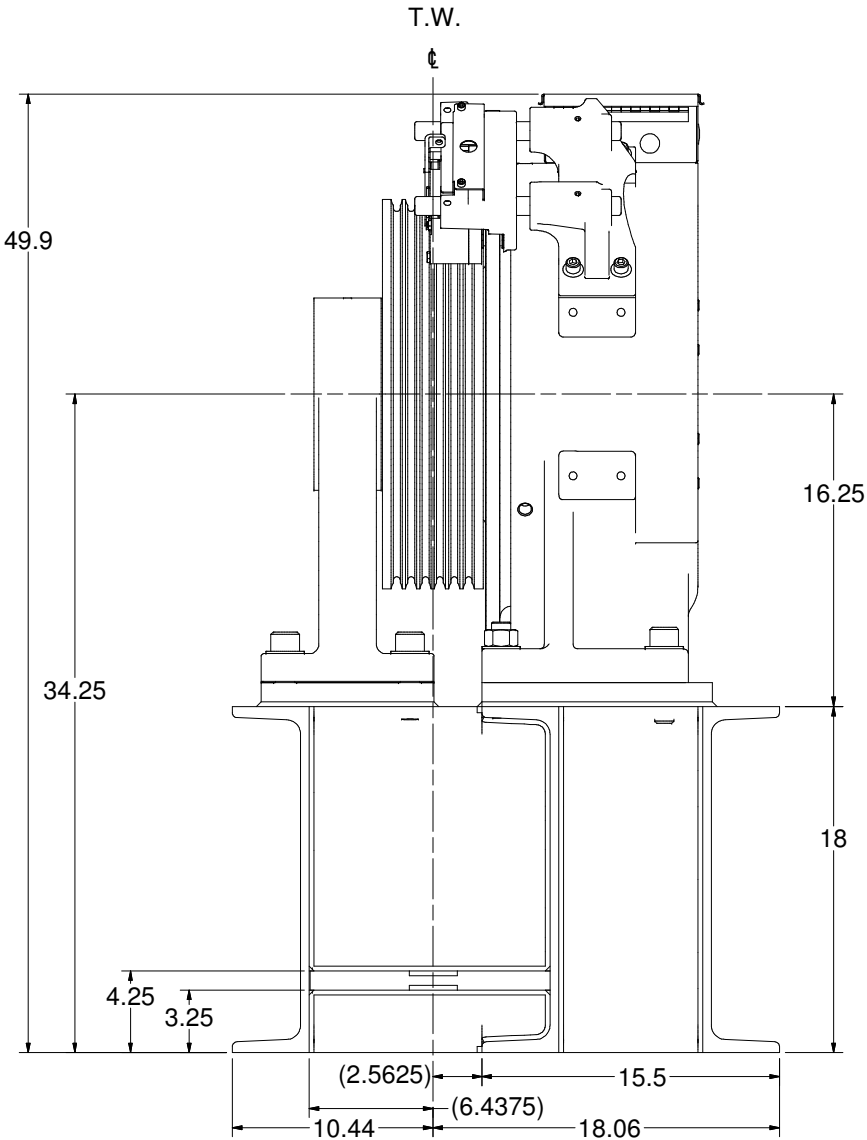
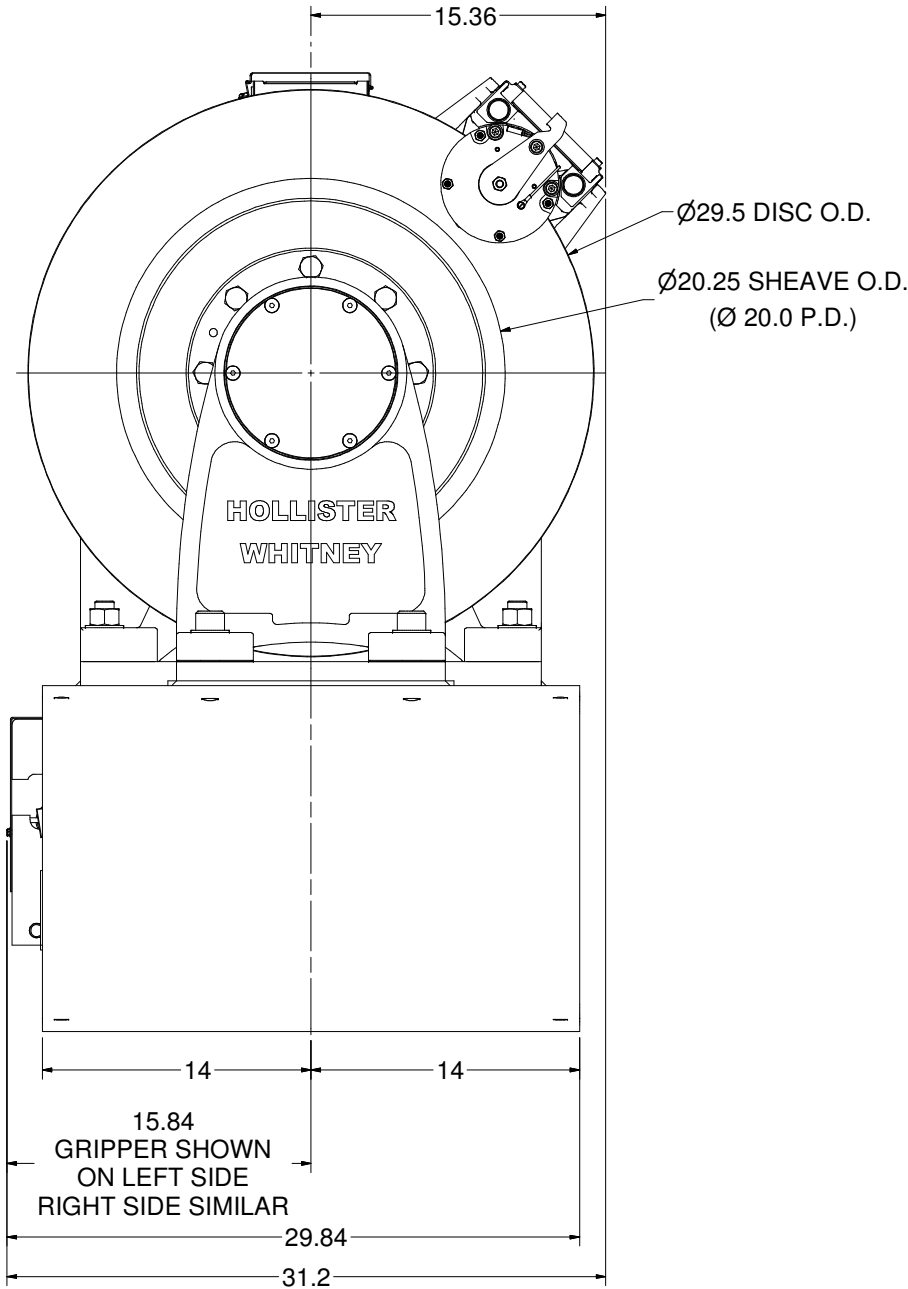
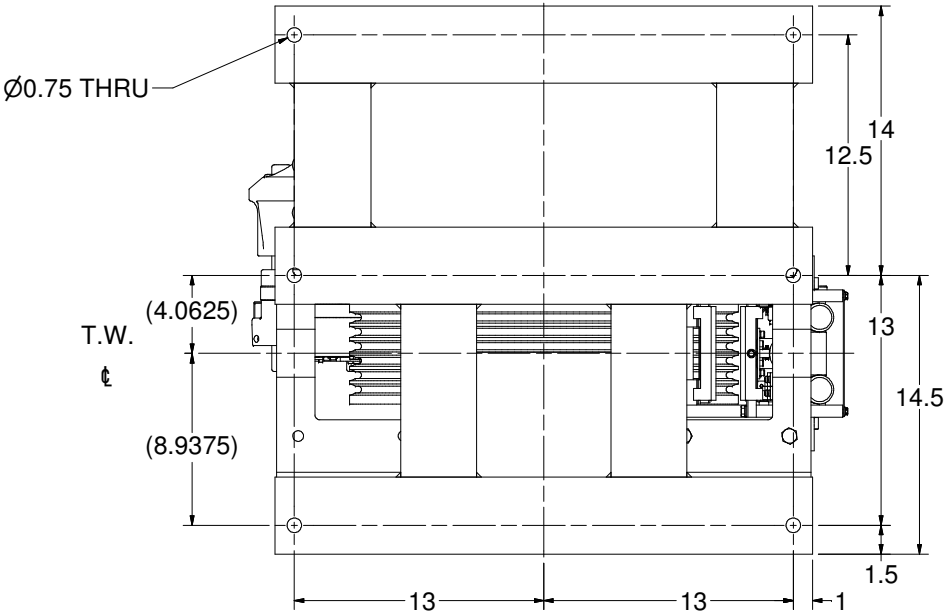
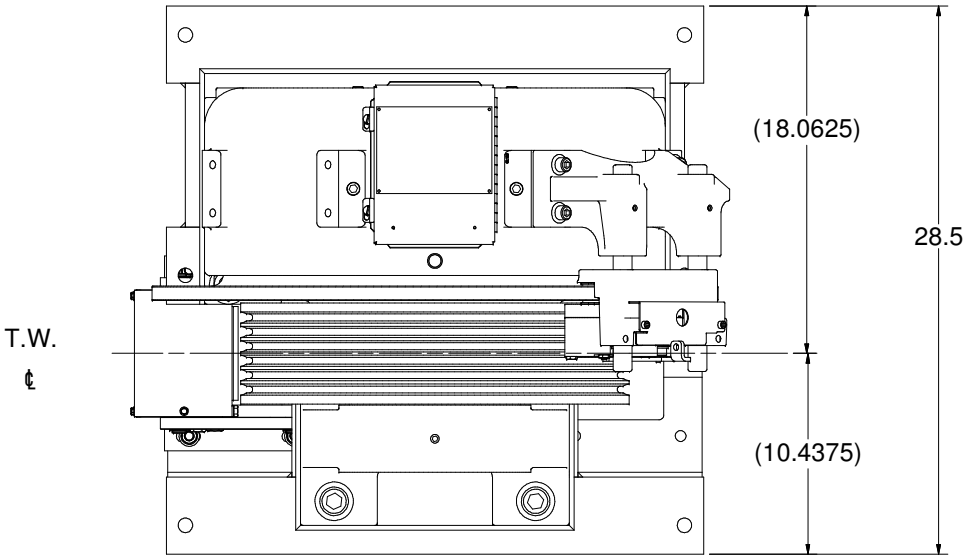
DETAIL C



| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                             |                        |               |                     |                     |
|-------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|---------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) | CAR SPEED 20" (fpm) |
| GL101-15L                           | GL100-170-150 | 87.2                        | 100                    | 170           | 76.4                | 400                 |
| GL101-15H                           | GL100-360-150 | 87.1                        | 100                    | 360           | 76.4                | 400                 |
| GL101-20L                           | GL100-170-200 | 89.2                        | 100                    | 170           | 101.9               | 533                 |
| GL101-20H                           | GL100-360-200 | 89.3                        | 100                    | 360           | 101.9               | 533                 |

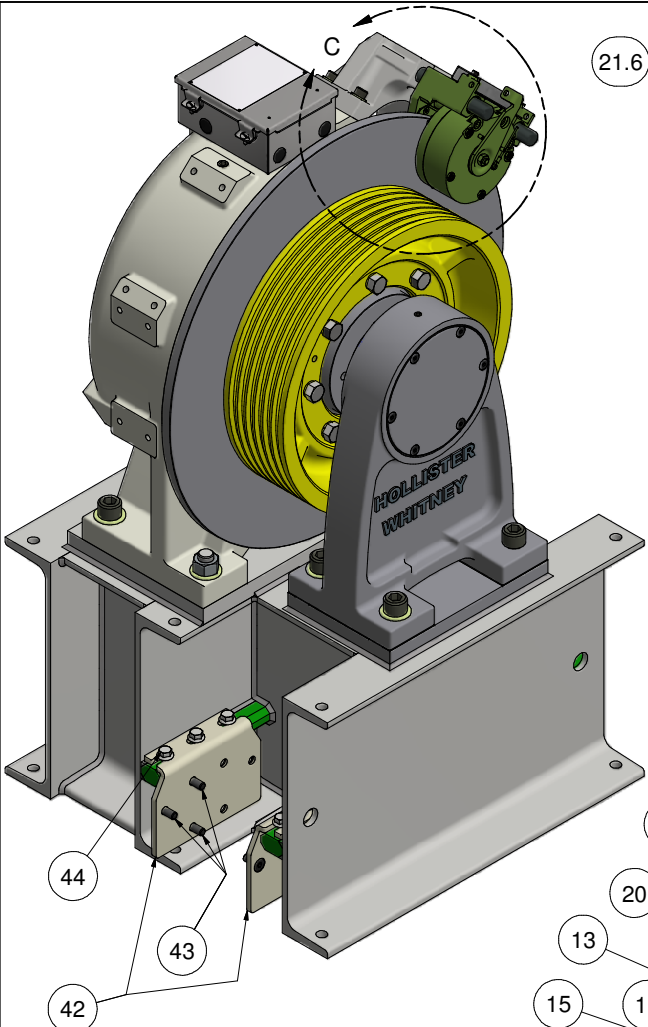
| ITEM | QTY     | PART NUMBER           | DESCRIPTION                                     |
|------|---------|-----------------------|-------------------------------------------------|
| 1    | 1       | GL101B-620            | BASE FABRICATION - FINISHED                     |
| 2    | 1       | GL100-001             | BASE HOUSING, MOTOR #GL100                      |
| 3    | 1       | GL101-002             | ROTOR ASSEMBLY, MOTOR #GL100                    |
| 3.1  | 1       | GL101-004             | ROTOR                                           |
| 3.2  | 28      | GL100-099             | PERMANENT MAGNET - MOTOR #GL100                 |
| 4    | 1       | GL260-005             | BEARING CAP                                     |
| 5    | 1       | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1       | GL100-010             | 20" SHEAVE, 6 x 1/2" ROPE MAX                   |
| 7    | 1       | GL101-018             | MAIN SHAFT                                      |
| 8    | 1       | GL185-019             | END CAP                                         |
| 9    | 1       | GL171-020             | BEARING END CAP                                 |
| 10   | 8       | GL100-073             | BODY BOLT                                       |
| 11   | 1       | GL100-088             | KEY - STATOR CORE TO BASE                       |
| 12   | 1       | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1       | GL100-090             | Bearings, Sealed Spherical Roller               |
| 14   | 1       | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 1       | GL100-092             | RETAINING RING - SHAFT                          |
| 16   | 3       | GL130-092             | RETAINING RING - SHAFT                          |
| 17   | 1       | GL100-093             | RETAINING RING - HOUSING                        |
| 18   | 1       | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |
| 19   | 1       | GL100-095             | KEY - ROTOR TO SHAFT                            |
| 20   | 1       | GL100-100             | WINDING ASSEMBLY                                |
| 21   | 1       | GL100-146             | DISC BRAKE (MAYR #6) - MRL                      |
| 21.1 | 1       | GL100-146-115         | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC)   |
| 21.2 | 1       | 142-001               | BRAKE BASE                                      |
| 21.3 | 1       | 146-003               | COVER - MAYR #6 ELECTRICAL                      |
| 21.4 | 2       | 142-012               | BRAKE ROD                                       |
| 21.5 | 4       | 1/2-13 UNC x 2        | SOCKET HEAD CAP SCREW                           |
| 21.6 | 4       | 1/2" WASHER           | STANDARD WASHER                                 |
| 21.7 | 2       | 3/8-16 UNC x 0.375    | SET SCREW                                       |
| 21.8 | 2       | M6 x 1.00 x 8mm       | SHCS - Metric                                   |
| 22   | As Nec. | GL171-157-05          | OUTBOARD STAND SHIM - 0.005"                    |
|      |         | GL171-157-10          | OUTBOARD STAND SHIM - 0.010"                    |
|      |         | GL171-157-31          | OUTBOARD STAND SHIM - 0.031"                    |
| 23   | 1       | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |
| 24   | 1       | GL100-165             | FELT DUST SEAL                                  |
| 25   | 2       | 1 - 8 UNC x 5"        | ALL THREAD - GRADE 5                            |
| 26   | 2       | 1 - 8 UNC x 4"        | SOCKET HEAD CAP SCREW                           |
| 27   | 4       | 1 - 8 UNC x 3.25"     | SOCKET HEAD CAP SCREW                           |
| 28   | 8       | 1" WASHER             | SAE WASHER                                      |
| 29   | 8       | 1" NUT                | HEX NUT                                         |
| 30   | 8       | M18 LOCK WASHER       | HELICAL SPRING LOCK WASHER - BODY BOLT          |
| 31   | 6       | 3/4 - 10 UNC x 0.75"  | SET SCREW (HOLE PLUG)                           |
| 32   | 6       | 1/2 - 13 UNC x 0.5"   | SET SCREW (HOLE PLUG)                           |
| 33   | 6       | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |
| 34   | 6       | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |
| 35   | 6       | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |
| 36   | 4       | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |
| 37   | 6       | 3/8 WASHER            | STANDARD LOCK                                   |
| 38   | 6       | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |
| 39   | 4       | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |
| 40   | 4       | #8 WASHER             | INT. TOOTH LOCKWASHER                           |
| 41   | 1       | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |
| 42   | 4       | 1/2 - 13 UNC x 2.25"  | HEX HEAD CAP SCREW                              |
| 43   | 4       | 1/2 - 13 UNC NUT      | HEX NUT                                         |
| 44   | 4       | 1/2 WASHER            | LOCK WASHER                                     |
| 45   | 4       | 1/2 WASHER            | STANDARD WASHER                                 |
| 46   | 1       | 620                   | NOT INCLUDED - SHOWN FOR CLARITY                |

|  |  |  |  |                                                                                                                                                             |  |  |  |
|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  |  |  |  | Weight: 2184.14 lbmass                                                                                                                                      |  |  |  |
|  |  |  |  | HOLLISTER-WHITNEY                                                                                                                                           |  |  |  |
|  |  |  |  | ELEVATOR CO.                                                                                                                                                |  |  |  |
|  |  |  |  | TITLE GEARLESS MACHINE, 1100# @ 50% CB, 1000# @ 45% CB, 900# @ 40% CB                                                                                       |  |  |  |
|  |  |  |  | DRAWN BY LTL SCALE NA MATERIAL SEE PARTS LIST DIMENSIONAL TOL. 1 PLACE ±0.01, 2 PLACE ±0.005 3/4 PLACE ±0.001, ANGLES ±0.1° REF. OPEN, (NOMINAL) ± 0.01/156 |  |  |  |
|  |  |  |  | B GL185-019 WAS GL171-019, PUR #788 LTL 6/23/16 SHEET SIZE D DATE 5/22/2014                                                                                 |  |  |  |
|  |  |  |  | A PRODUCTION RELEASE, PUR #640 LTL 5/23/14                                                                                                                  |  |  |  |
|  |  |  |  | GL101-620                                                                                                                                                   |  |  |  |

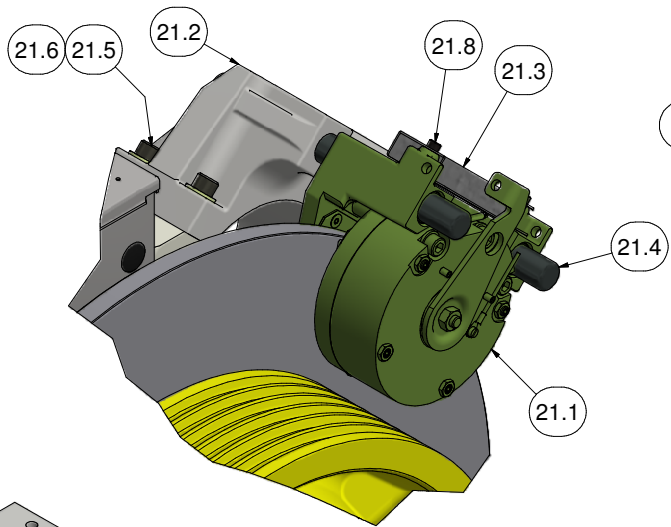
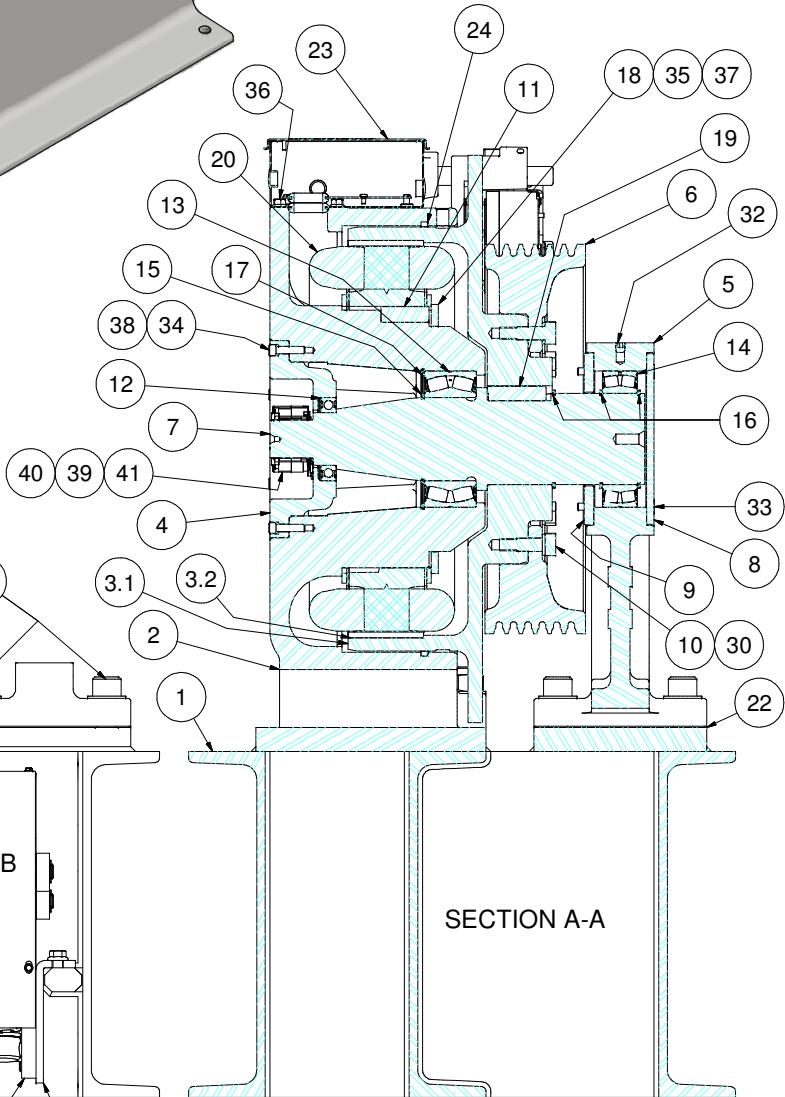
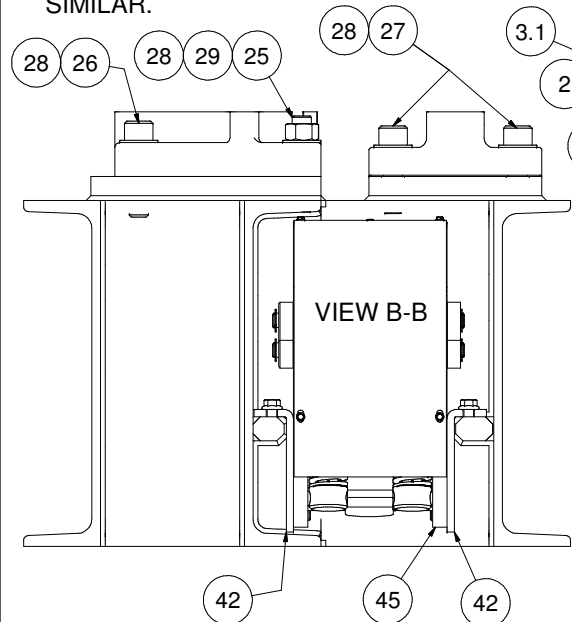


|                                                                          |  |  |  |  |  |  |                                                                                                                        |             |                            |
|--------------------------------------------------------------------------|--|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------|
| Weight: 2184.14 lbmass                                                   |  |  |  |  |  |  |                                                                                                                        |             |                            |
| HOLLISTER-WHITNEY                                                        |  |  |  |  |  |  |                                                                                                                        |             |                            |
| ELEVATOR CO.                                                             |  |  |  |  |  |  |                                                                                                                        |             |                            |
| TITLE GEARLESS MACHINE, 1100# @ 50% CB,<br>1000# @ 45% CB, 900# @ 40% CB |  |  |  |  |  |  |                                                                                                                        |             |                            |
| SEE OTHER<br>SIDE FOR<br>REVISIONS                                       |  |  |  |  |  |  | DRAWN BY<br>LTL                                                                                                        | SCALE<br>NA | MATERIAL<br>SEE PARTS LIST |
|                                                                          |  |  |  |  |  |  | SHEET<br>SIZE                                                                                                          | D           | DATE<br>5/22/2014          |
|                                                                          |  |  |  |  |  |  | DIMENSIONAL TOL.<br>1 PLACE ±0.01, 2 PLACE ±0.005<br>3&4 PLACE ±0.001, ANGLES ±0.1°<br>REF. - OPEN, (NOMINAL) ± 0.0156 |             |                            |
|                                                                          |  |  |  |  |  |  | GL101-620                                                                                                              |             |                            |

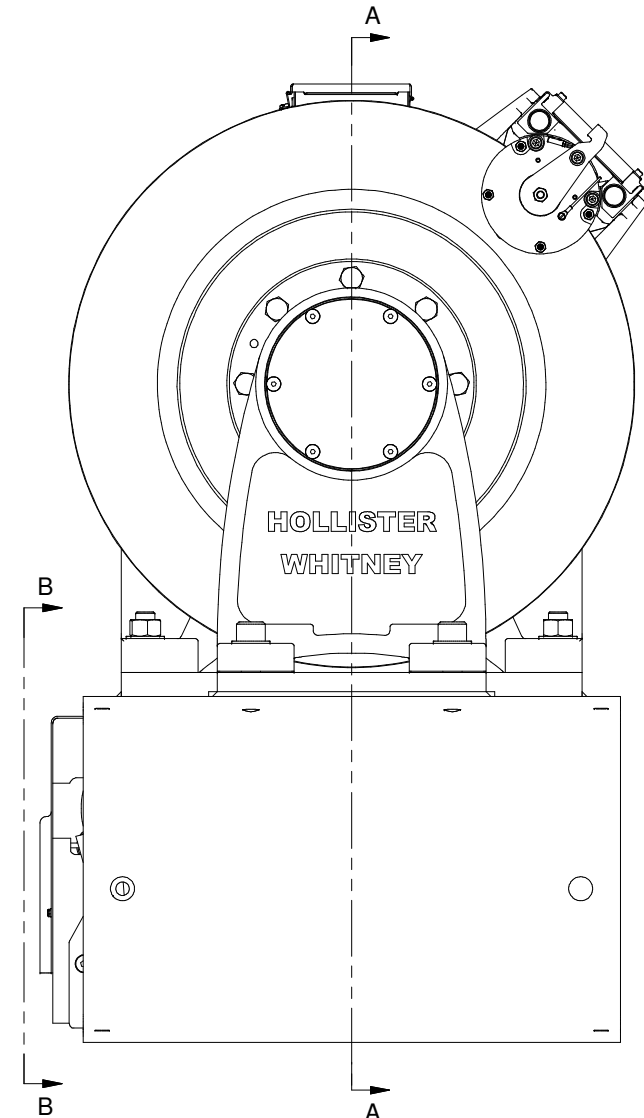
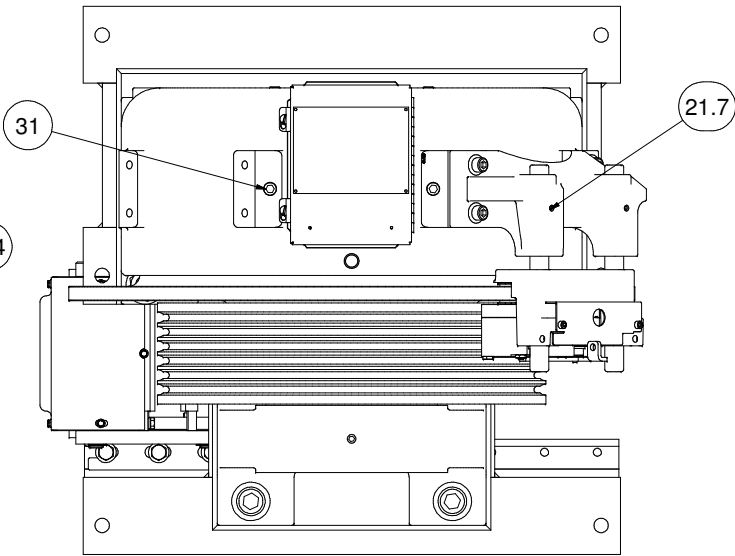




MACHINE REQUIRES ONE (1) PRIMARY SERVICE BRAKE AND ONE ROPE GRIPPER FOR EMERGENCY SERVICE. 622 ROPE GRIPPER SHOWN ON LEFT SIDE, RIGHT SIDE SIMILAR.



DETAIL C



| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                             |                        |               |                     |                     |
|-------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|---------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) | CAR SPEED 20" (fpm) |
| GL101-15L                           | GL100-170-150 | 87.2                        | 100                    | 170           | 76.4                | 400                 |
| GL101-15H                           | GL100-360-150 | 87.1                        | 100                    | 360           | 76.4                | 400                 |
| GL101-20L                           | GL100-170-200 | 89.2                        | 100                    | 170           | 101.9               | 533                 |
| GL101-20H                           | GL100-360-200 | 89.3                        | 100                    | 360           | 101.9               | 533                 |

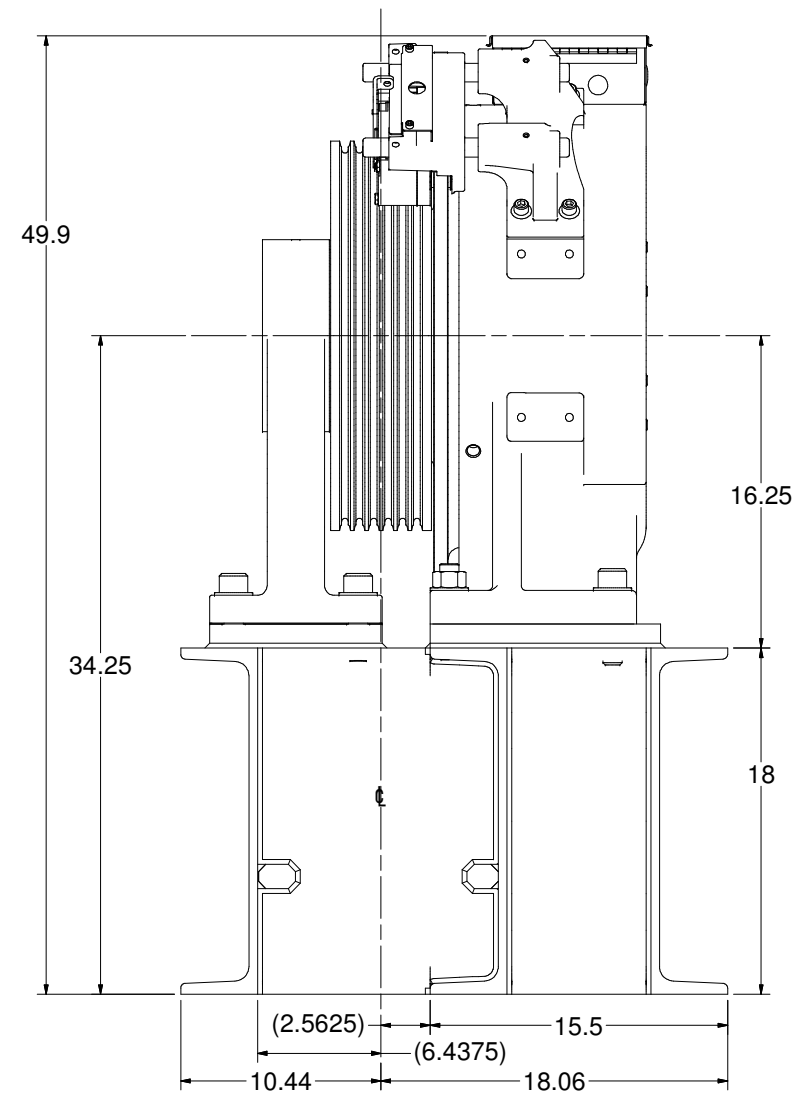
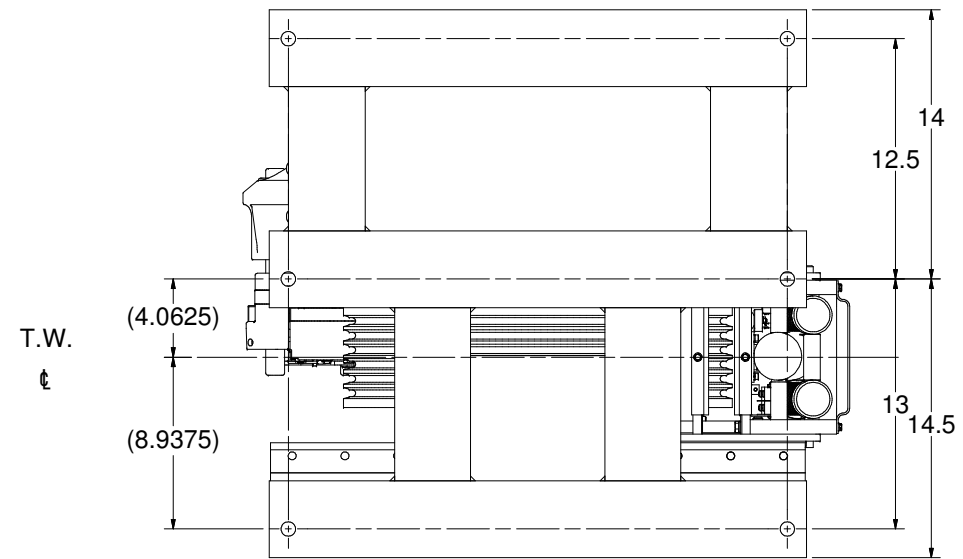
| ITEM | QTY     | PART NUMBER           | DESCRIPTION                                     |
|------|---------|-----------------------|-------------------------------------------------|
| 1    | 1       | GL101B-622            | BASE FABRICATION - FINISHED                     |
| 2    | 1       | GL100-001             | BASE HOUSING, MOTOR #GL100                      |
| 3    | 1       | GL101-002             | ROTOR ASSEMBLY, MOTOR #GL100                    |
| 3.1  | 1       | GL101-004             | ROTOR                                           |
| 3.2  | 28      | GL100-099             | PERMANENT MAGNET - MOTOR #GL100                 |
| 4    | 1       | GL260-005             | BEARING CAP                                     |
| 5    | 1       | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1       | GL100-010             | 20" SHEAVE, 6 x 1/2" ROPE MAX                   |
| 7    | 1       | GL101-018             | MAIN SHAFT                                      |
| 8    | 1       | GL185-019             | END CAP                                         |
| 9    | 1       | GL171-020             | BEARING END CAP                                 |
| 10   | 8       | GL100-073             | BODY BOLT                                       |
| 11   | 1       | GL100-088             | KEY - STATOR CORE TO BASE                       |
| 12   | 1       | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1       | GL100-090             | Bearings, Sealed Spherical Roller               |
| 14   | 1       | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 1       | GL100-092             | RETAINING RING - SHAFT                          |
| 16   | 3       | GL130-092             | RETAINING RING - SHAFT                          |
| 17   | 1       | GL100-093             | RETAINING RING - HOUSING                        |
| 18   | 1       | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |
| 19   | 1       | GL100-095             | KEY - ROTOR TO SHAFT                            |
| 20   | 1       | GL100-100             | WINDING ASSEMBLY                                |
| 21   | 1       | GL100-146             | DISC BRAKE (MAYR #6) - MRL                      |
| 21.1 | 1       | GL100-146-115         | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC)   |
| 21.2 | 1       | 142-001               | BRAKE BASE                                      |
| 21.3 | 1       | 146-003               | COVER - MAYR #6 ELECTRICAL                      |
| 21.4 | 2       | 142-012               | BRAKE ROD                                       |
| 21.5 | 4       | 1/2-13 UNC x 2        | SOCKET HEAD CAP SCREW                           |
| 21.6 | 4       | 1/2" WASHER           | STANDARD WASHER                                 |
| 21.7 | 2       | 3/8-16 UNC x 0.375    | SET SCREW                                       |
| 21.8 | 2       | M6 x 1.00 x 8mm       | SHCS - Metric                                   |
| 22   | As Nec. | GL171-157-05          | OUTBOARD STAND SHIM - 0.005"                    |
|      |         | GL171-157-10          | OUTBOARD STAND SHIM - 0.010"                    |
|      |         | GL171-157-31          | OUTBOARD STAND SHIM - 0.031"                    |
| 23   | 1       | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |
| 24   | 1       | GL100-165             | FELT DUST SEAL                                  |
| 25   | 2       | 1 - 8 UNC x 5"        | SOCKET HEAD CAP SCREW                           |
| 26   | 2       | 1 - 8 UNC x 4"        | SOCKET HEAD CAP SCREW                           |
| 27   | 4       | 1 - 8 UNC x 3.25"     | SOCKET HEAD CAP SCREW                           |
| 28   | 8       | 1" WASHER             | SAE WASHER                                      |
| 29   | 8       | 1" NUT                | HEX NUT                                         |
| 30   | 8       | Washer GB 859-87 18   | Single coil spring lock washers, Light type     |
| 31   | 6       | 3/4 - 10 UNC x 0.75"  | SET SCREW (HOLE PLUG)                           |
| 32   | 6       | 1/2 - 13 UNC x 0.5"   | SET SCREW (HOLE PLUG)                           |
| 33   | 6       | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |
| 34   | 6       | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |
| 35   | 6       | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |
| 36   | 4       | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |
| 37   | 6       | 3/8 WASHER            | STANDARD LOCK                                   |
| 38   | 6       | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |
| 39   | 4       | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |
| 40   | 4       | #8 WASHER             | INT. TOOTH LOCKWASHER                           |
| 41   | 1       | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |
| 42   | 2       | 622-041-GL            | MOUNTING ANGLE, GL101-622 BASE                  |
| 43   | 6       | 1/2 - 13 UNC x 1.25"  | FLAT HEAD CAP SCREW                             |
| 44   | 6       | 1/2 - 13 UNC x 1.25"  | HEX FLANGE HEAD SREW                            |
| 45   | 1       | 622                   | NOT INCLUDED, SHOWN FOR CLARITY ONLY            |

Weight: 2184.41 lbmass

HOLLISTER-WHITNEY  
ELEVATOR CO.

TITLE GEARLESS MACHINE, 1100# @ 50% CB,  
1000# @ 45% CB, 900# @ 40% CB

|            |     |         |           |                              |                |                                                                                                  |
|------------|-----|---------|-----------|------------------------------|----------------|--------------------------------------------------------------------------------------------------|
| DRAWN BY   | LTL | SCALE   | NA        | MATERIAL                     | SEE PARTS LIST | DIMENSIONAL TOL.                                                                                 |
| BY         | LTL | 6/23/16 | NA        | PRODUCTION RELEASE, PUR #640 | DATE 5/21/2014 | 1 PLACE ±0.01, 2 PLACE ±0.005<br>3/84 PLACE ±0.001, ANGLES ±0.1°<br>REF. OPEN, (NOMINAL) ±0.0156 |
| SHEET SIZE | D   | DATE    | 5/21/2014 | GL101-622                    |                |                                                                                                  |



Weight: 2184.41 lbmass

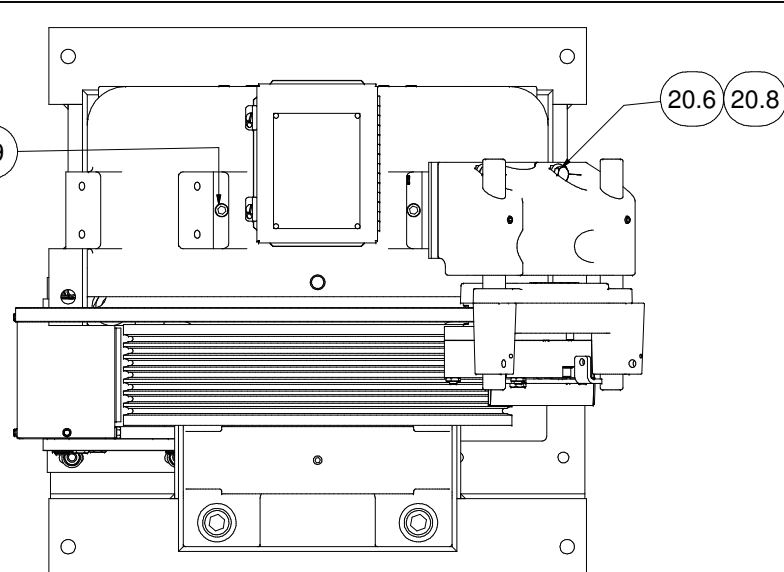
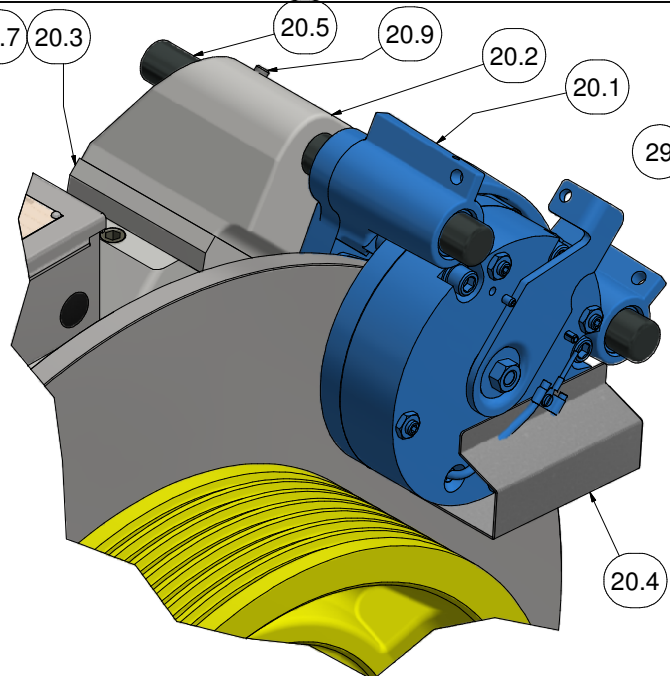
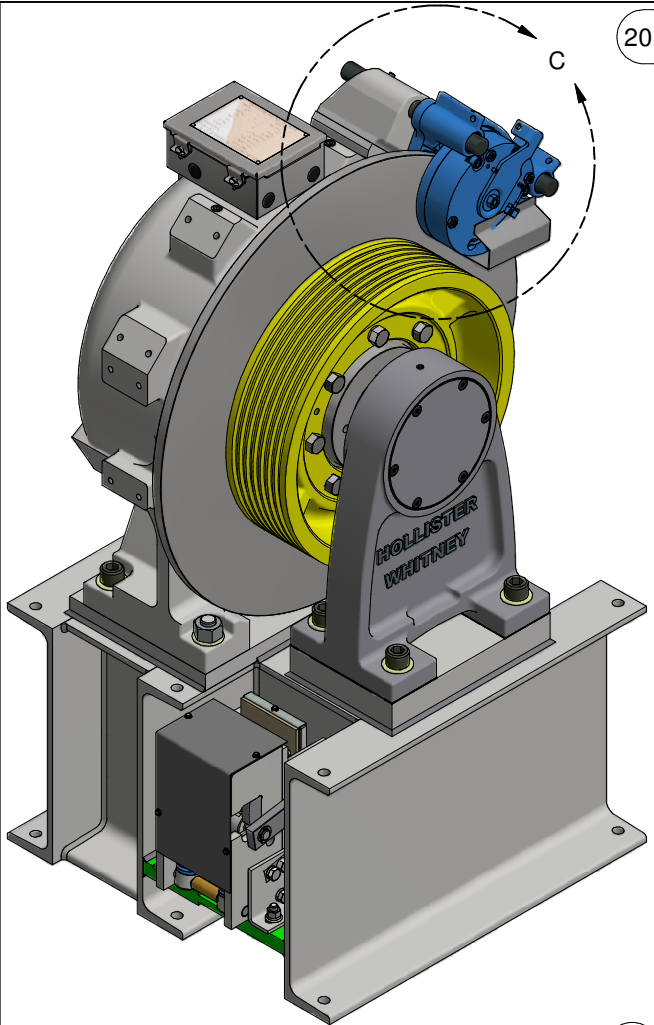
HOLLISTER-WHITNEY  
ELEVATOR CO.

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| TITLE | GEARLESS MACHINE, 1100# @ 50% CB,<br>1000# @ 45% CB, 900# @ 40% CB |
|-------|--------------------------------------------------------------------|

|          |       |                |                                                                                                                            |
|----------|-------|----------------|----------------------------------------------------------------------------------------------------------------------------|
| DRAWN BY | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                                                           |
| 1.1      | 1:1   | SEE PARTS LIST | 1 PLACE $\pm 0.01$ , 2 PLACE $\pm 0.005$<br>3/4 PLACE $\pm 0.001$ , ANGLES $\pm 0.1^\circ$<br>SEE CPM, NOMINAL $\pm 0.015$ |

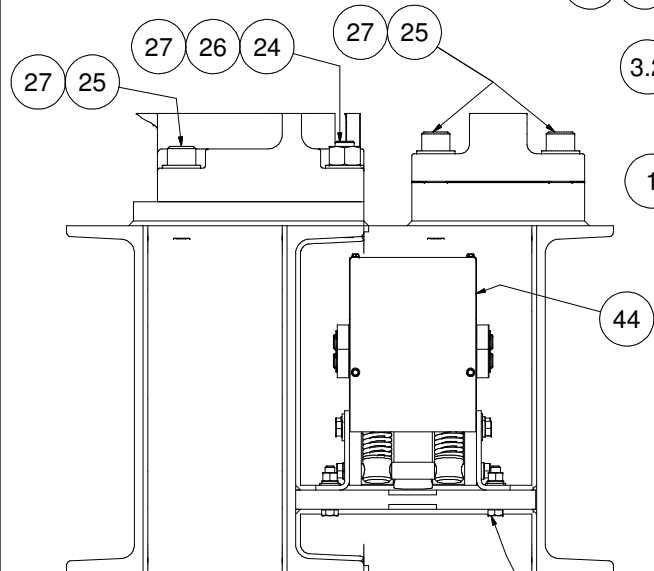
SEE OTHER SIDE FOR REVISIONS

|               |   |                   |           |
|---------------|---|-------------------|-----------|
| SHEET<br>SIZE | D | DATE<br>5/21/2014 | GL101-622 |
|---------------|---|-------------------|-----------|

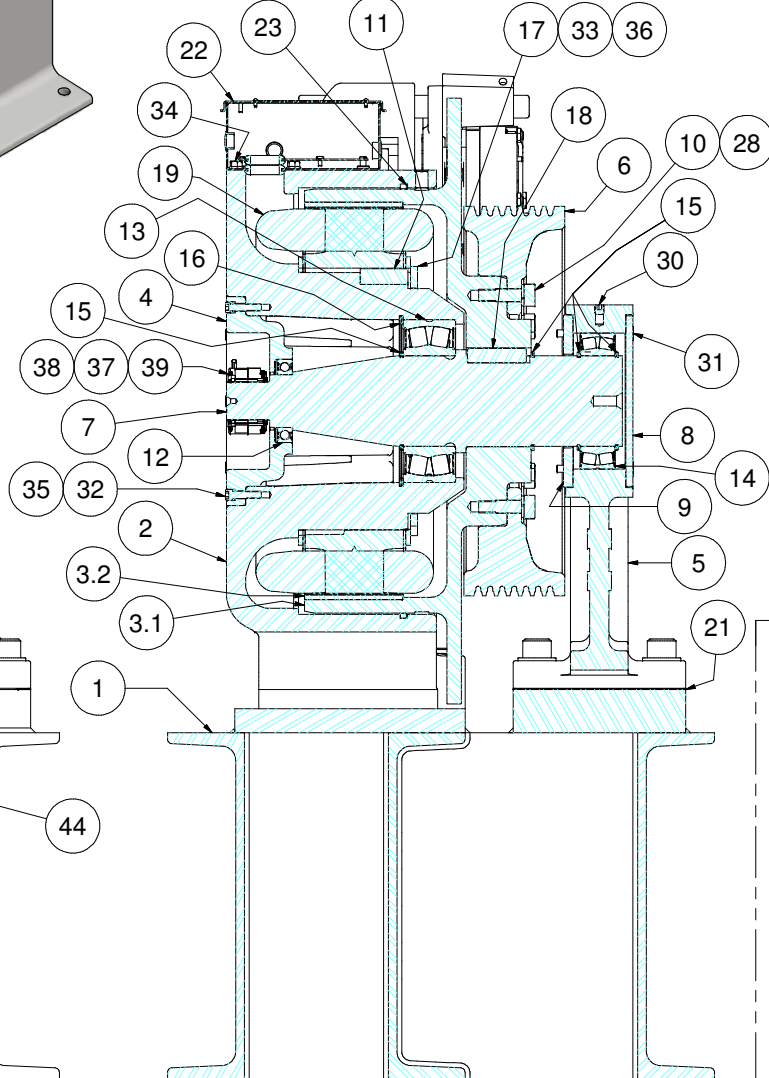


| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                             |                        |               |                     |                     |
|-------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|---------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) | CAR SPEED 20" (fpm) |
| GL131-20L                           | GL130-170-200 | 90.6                        | 130                    | 170           | 101.9               | 533                 |
| GL131-20H                           | GL130-360-200 | 90.7                        | 130                    | 360           | 101.9               | 533                 |
| GL131-35L                           | GL130-170-350 | 93.1                        | 130                    | 170           | 178.3               | 933                 |
| GL131-35H                           | GL130-360-350 | 93                          | 130                    | 360           | 178.3               | 933                 |

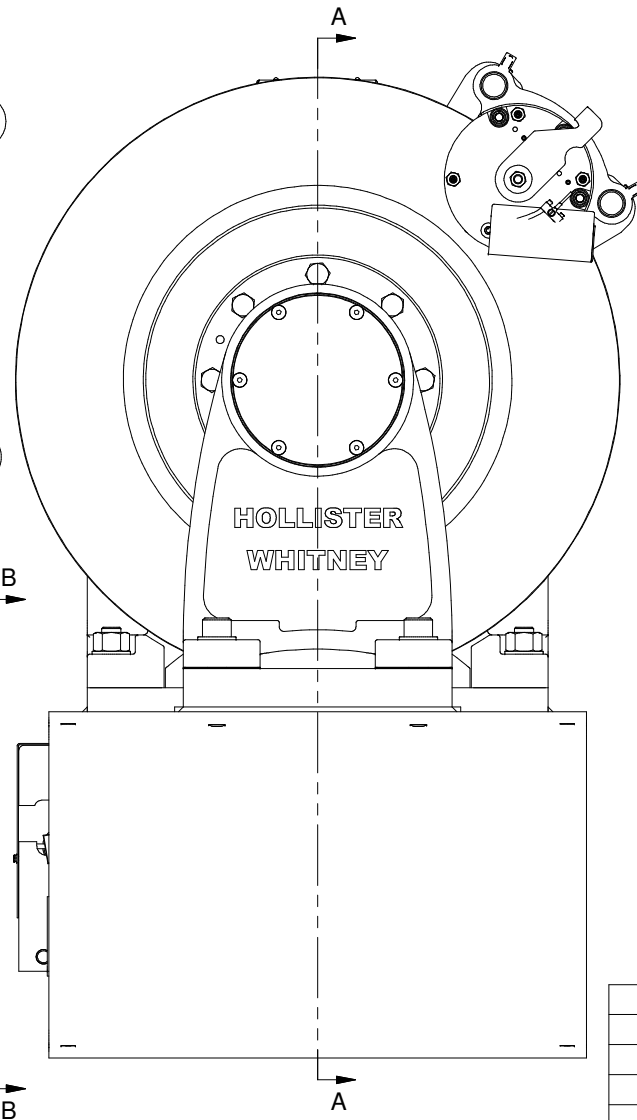
MACHINE REQUIRES ONE (1) PRIMARY SERVICE BRAKE AND ONE ROPE GRIPPER FOR EMERGENCY SERVICE. 620 ROPE GRIPPER (NOT INCLUDED) SHOWN ON LEFT SIDE, RIGHT SIDE SIMILAR. ROPE GRIPPER BOLT-DOWN HARDWARE INCLUDED.



VIEW B-B

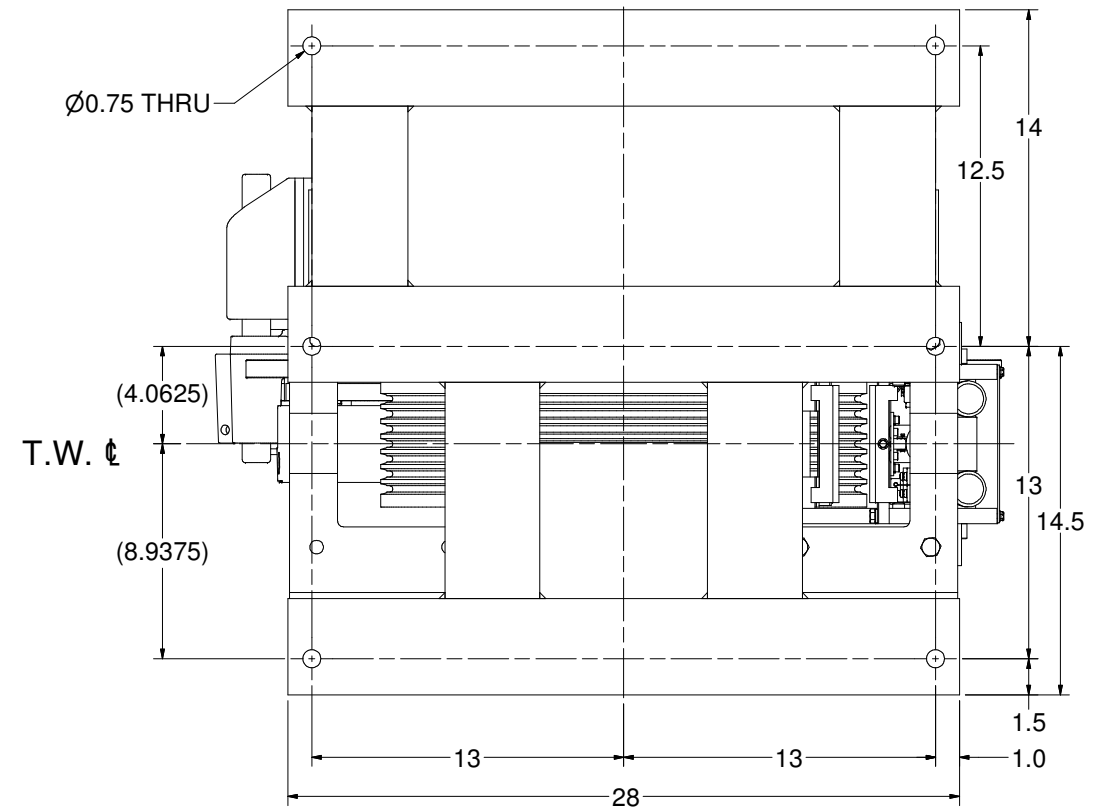
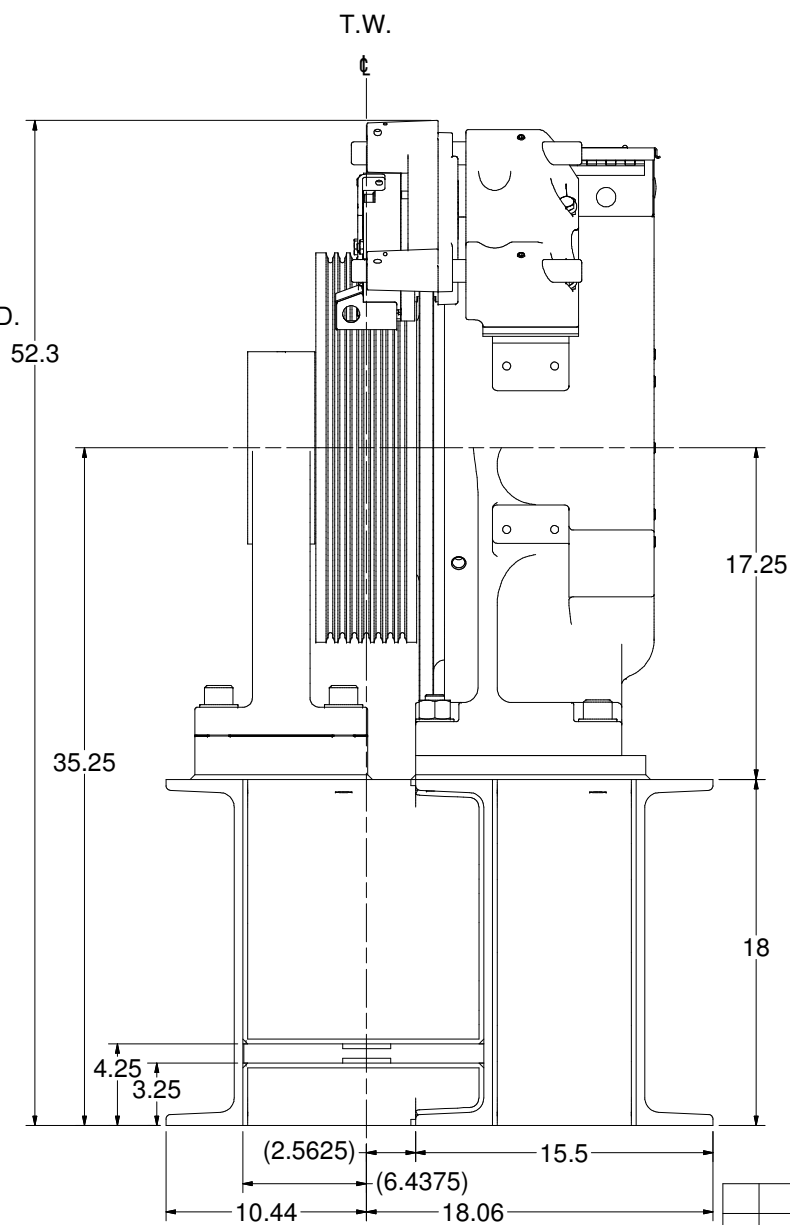
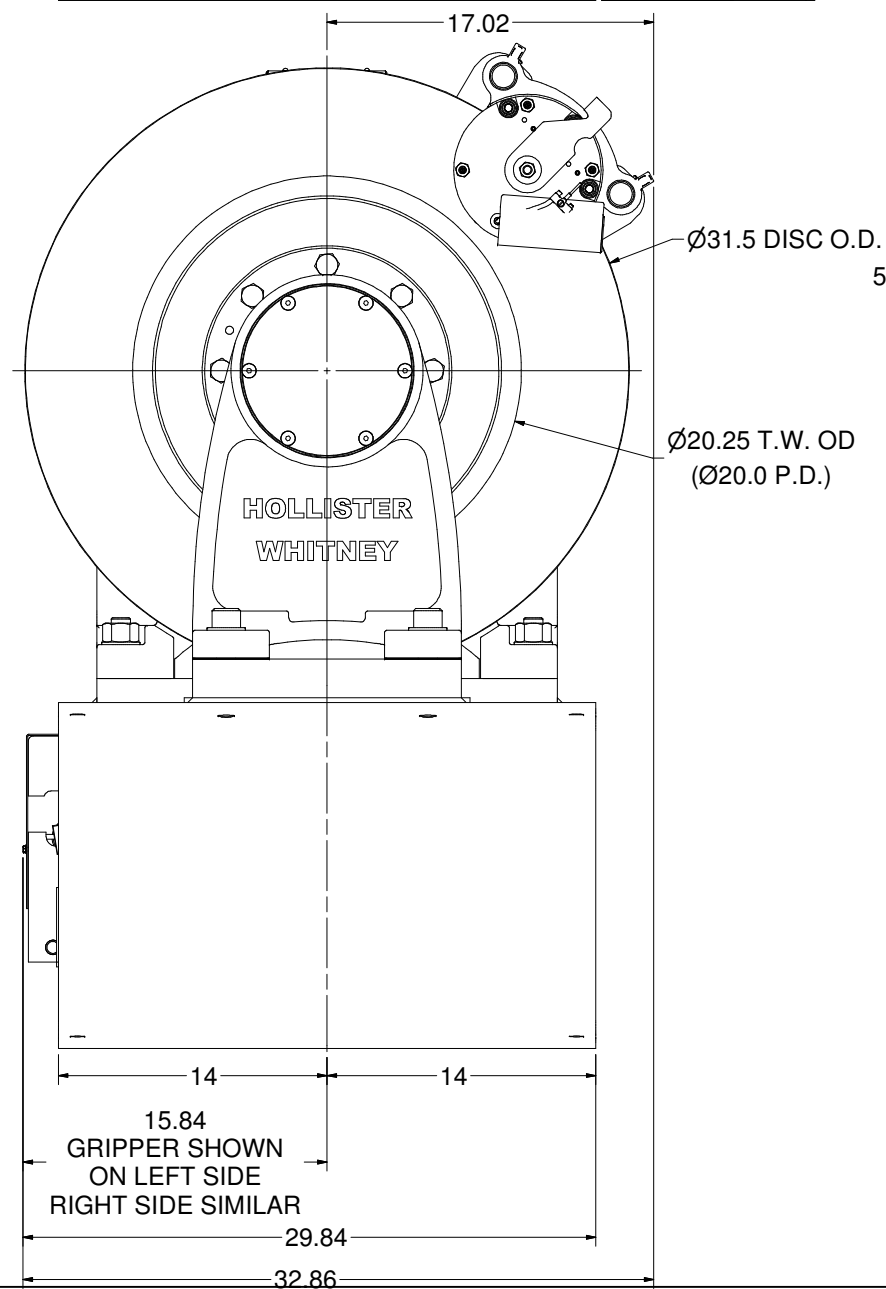
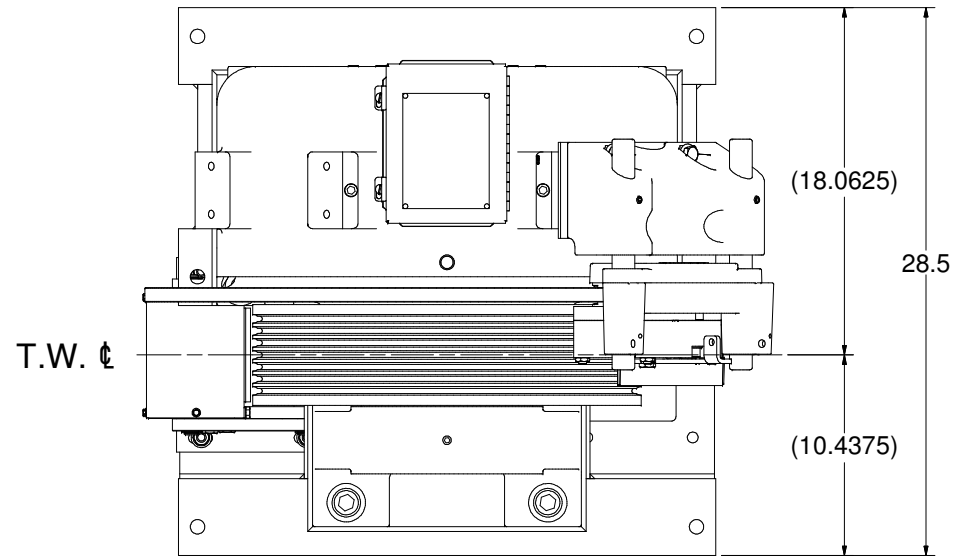


SECTION A-A



| ITEM | QTY     | PART NUMBER           | DESCRIPTION                                     |
|------|---------|-----------------------|-------------------------------------------------|
| 1    | 1       | GL171B-620            | BASE FABRICATION - FINISHED                     |
| 2    | 1       | GL130-001             | BASE HOUSING, MOTOR #GL130                      |
| 3    | 1       | GL131-002             | ROTOR ASSEMBLY, MOTOR #GL131                    |
| 3.1  | 1       | GL131-004             | ROTOR                                           |
|      | 28      | GL130-099             | PERMANENT MAGNET - MOTOR #GL130                 |
| 4    | 1       | GL130A-005            | BEARING CAP                                     |
| 5    | 1       | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1       | GL100-010             | 20" TRACTION SHEAVE (WIDE)                      |
| 7    | 1       | GL131-018             | MAIN SHAFT                                      |
| 8    | 1       | GL185-019             | END CAP                                         |
| 9    | 1       | GL171-020             | BEARING END CAP                                 |
| 10   | 8       | GL100-073             | BODY BOLT                                       |
| 11   | 1       | GL100-088             | KEY - STATOR CORE TO BASE                       |
| 12   | 1       | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1       | GL130-090             | SEALED SPHERICAL ROLLER BEARING                 |
| 14   | 1       | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 4       | GL130-092             | RETAINING RING - SHAFT                          |
| 16   | 1       | GL130-093             | RETAINING RING - HOUSING                        |
| 17   | 1       | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |
| 18   | 1       | GL100-095             | KEY - ROTOR TO SHAFT                            |
| 19   | 1       | GL130-100             | WINDING ASSEMBLY - 28 POLE                      |
| 20   | 1       | GL130-144             | DISC BRAKE (MAYR #8) - MRL                      |
| 20.1 | 1       | GL130-144-115         | MAYR #8; RSD8 510 03 52V8211833                 |
|      | 1       | 144-001               | BRAKE BASE                                      |
| 20.2 | 1       | 144-002               | ADAPTOR PLATE - BRAKE BASE                      |
| 20.3 | 1       | 144-003               | COVER - MAYR #8 ELECTRICAL                      |
| 20.4 | 1       | 144-003               | COVER - MAYR #8 ELECTRICAL                      |
| 20.5 | 2       | 144-012               | BRAKE ROD                                       |
| 20.6 | 4       | 1/2 - 13 UNC x 1.75"  | HEX HEAD CAP SCREW                              |
| 20.7 | 4       | 1/2-13 UNC x 1.5      | FLAT HEAD CAP SCREW                             |
| 20.8 | 4       | 1/2" WASHER           | STANDARD WASHER                                 |
| 20.9 | 2       | 3/8-16 UNC x 0.625    | Hexagon Socket Set Screw - Flat Point           |
| 21   | AS NEC. | GL171-157-05          | OUTBOARD STAND SHIM STOCK - 0.005"              |
|      |         | GL171-157-10          | OUTBOARD STAND SHIM STOCK - 0.010"              |
|      |         | GL171-157-31          | OUTBOARD STAND SHIM STOCK - 0.031"              |
|      |         | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |
| 22   | 1       | GL100-165             | FELT DUST SEAL                                  |
| 23   | 1       | GL100-165             | FELT DUST SEAL                                  |
| 24   | 2       | 1 - 8 UNC x 5         | ALL THREAD - GRADE 5                            |
| 25   | 6       | 1 - 8 UNC x 3.5"      | SOCKET HEAD CAP SCREW                           |
| 26   | 2       | 1 - 8 UNC NUT         | HEAVY HEX NUT                                   |
| 27   | 8       | 1" WASHER             | SAE WASHER                                      |
| 28   | 8       | M18 LOCK WASHER       | HELICAL SPRING LOCK WASHER - BODY BOLT          |
| 29   | 2       | 3/4-10 UNCx0.75       | HALF DOG SET SCREW                              |
| 30   | 1       | 1/2-13 UNCx0.5        | HALF DOG SET SCREW                              |
| 31   | 6       | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |
| 32   | 8       | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |
| 33   | 6       | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |
| 34   | 4       | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |
| 35   | 8       | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |
| 36   | 6       | 3/8 WASHER            | STANDARD LOCK                                   |
| 37   | 4       | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |
| 38   | 4       | #8 WASHER             | INT. TOOTH LOCKWASHER                           |
| 39   | 1       | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |
| 40   | 4       | 1/2 - 13 UNC x 2.25"  | HEX HEAD CAP SCREW                              |
| 41   | 4       | 1/2 - 13 UNC          | NUT - STANDARD HEX                              |
| 42   | 4       | 1/2 LOCK WASHER       | STANDARD LOCK WASHER                            |
| 43   | 4       | 1/2" WASHER           | STANDARD WASHER                                 |
| 44   | 1       | 620                   | NOT INCLUDED- SHOWN FOR CLARITY                 |

|                                   |  |                                         |  |
|-----------------------------------|--|-----------------------------------------|--|
| Weight: 2475.71 lbmass            |  | HOLLISTER-WHITNEY                       |  |
| ELEVATOR CO.                      |  | TITLE                                   |  |
| GEARLESS MACHINE, 1500# @ 50% CB, |  | 1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED |  |
| DRAWN BY                          |  | SCALE                                   |  |
| LTL                               |  | NA                                      |  |
| DATE                              |  | 8/13/2014                               |  |
| SHEET SIZE                        |  | D                                       |  |
| B                                 |  | GL185-019 WAS GL171-019, PUR #788       |  |
| A                                 |  | LTL                                     |  |
| PRODUCTION RELEASE, PUR #658      |  | 8/13/14                                 |  |
| SEE PARTS LIST                    |  | DIMENSIONAL TOL.                        |  |
| 1 PLACE ±0.01, 2 PLACE ±0.005     |  | 3/84 PLACES ±0.001, ANGLES ±0.1°        |  |
| REF. OPEN, (NOMINAL) ±0.0156      |  | GL131-620                               |  |



Weight: 2475.71 lbmass

HOLLISTER-WHITNEY  
ELEVATOR CO.

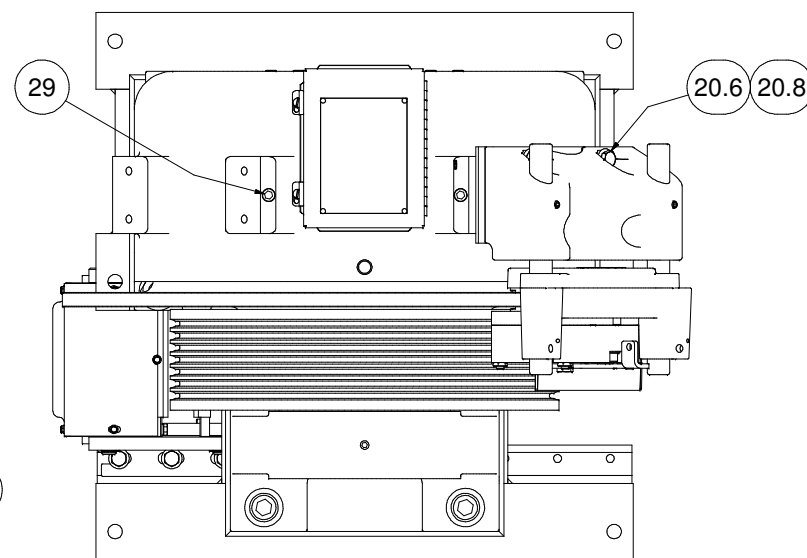
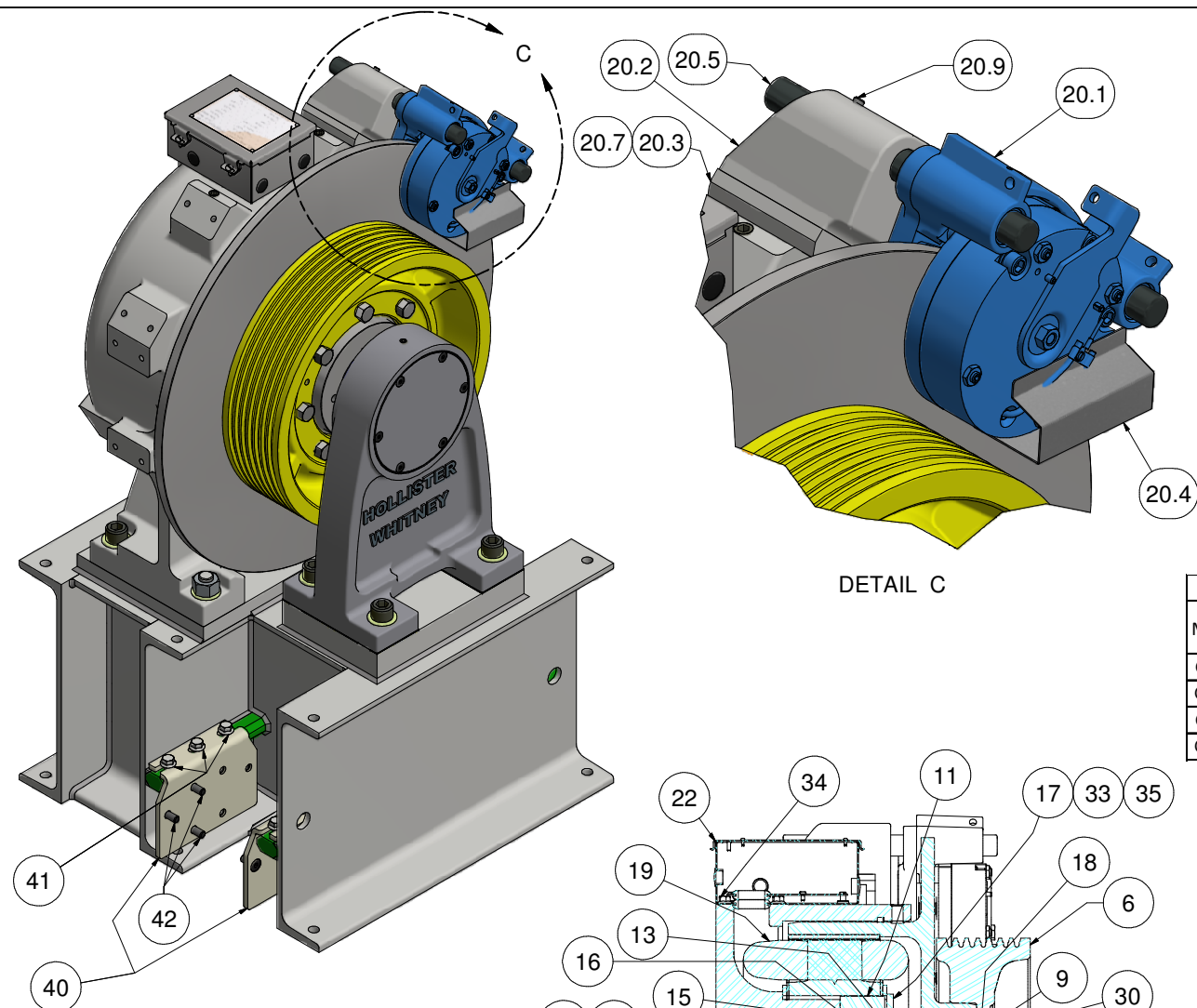
TITLE GEARLESS MACHINE, 1500# @ 50% CB,  
1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED

SEE OTHER  
SIDE FOR  
REVISIONS

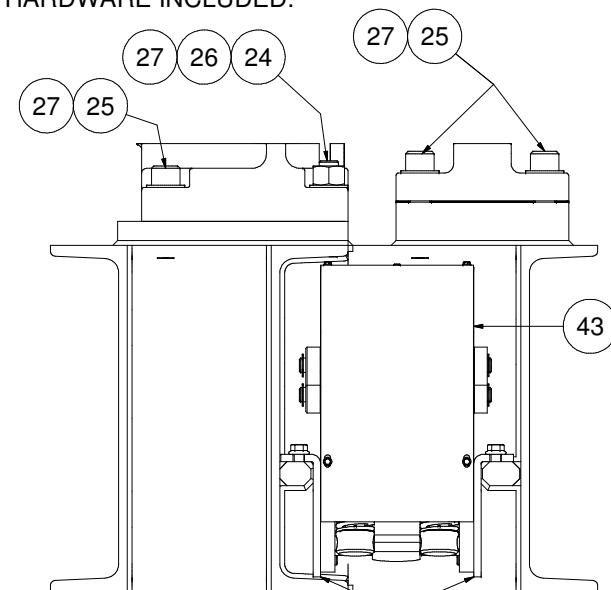
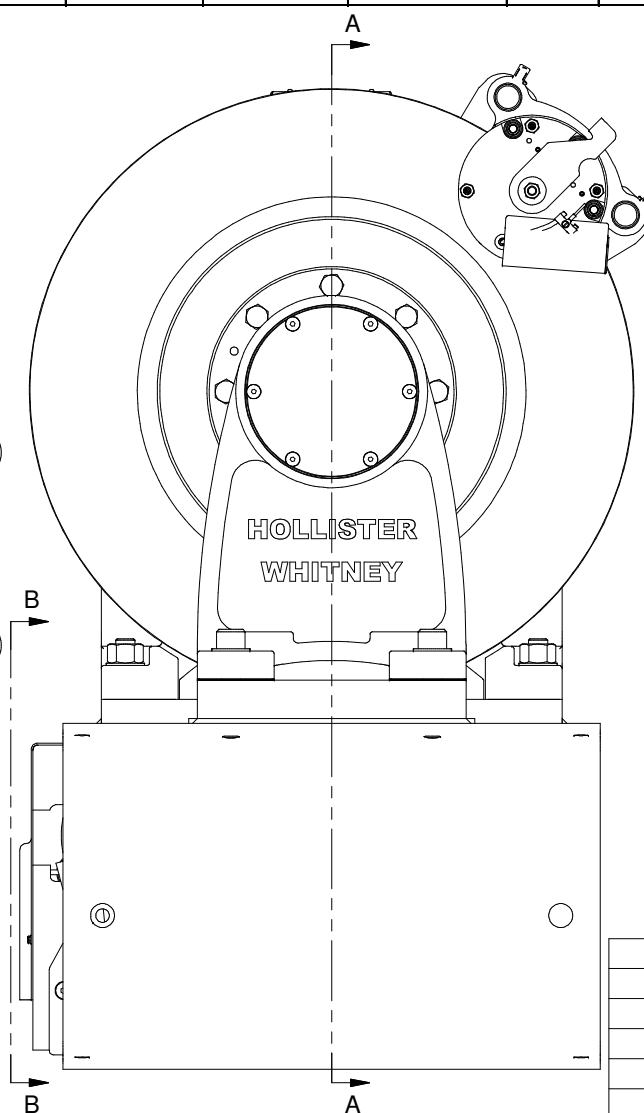
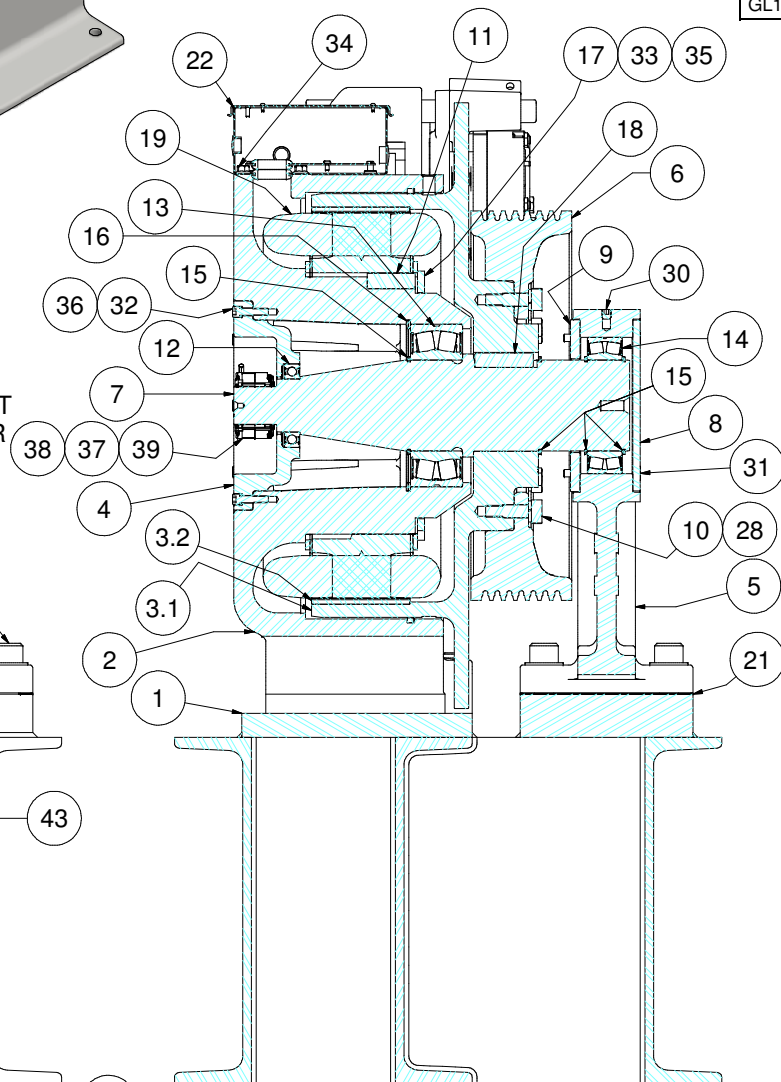
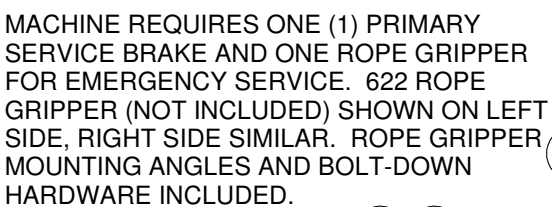
DRAWN BY LTL SCALE NA MATERIAL SEE PARTS LIST  
DIMENSIONAL TOL.  
1 PLACE ±0.01, 2 PLACE ±0.005  
3&4 PLACE ±0.001, ANGLES ±0.1°  
REF - OPEN, (NOMINAL) ± 0.0156

SHEET D DATE 8/13/2014 GL131-620





| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                                |                           |                  |                        |                        |
|-------------------------------------|---------------|--------------------------------|---------------------------|------------------|------------------------|------------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING<br>EFFICIENCY (%) | FRAME/MAGNET<br>SIZE (mm) | VOLTAGE<br>(Vac) | MACHINE<br>SPEED (rpm) | CAR SPEED<br>20" (fpm) |
| GL131-20L                           | GL130-170-200 | 90.6                           | 130                       | 170              | 101.9                  | 533                    |
| GL131-20H                           | GL130-360-200 | 90.7                           | 130                       | 360              | 101.9                  | 533                    |
| GL131-35L                           | GL130-170-350 | 93.1                           | 130                       | 170              | 178.3                  | 933                    |
| GL131-35H                           | GL130-360-350 | 93                             | 130                       | 360              | 178.3                  | 933                    |



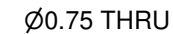
| ITEM | QTY        | PART NUMBER           | DESCRIPTION                                     |                                 |
|------|------------|-----------------------|-------------------------------------------------|---------------------------------|
| 1    | 1          | GL171B-622            | BASE FABRICATION - FINISHED                     |                                 |
| 2    | 1          | GL130-001             | BASE HOUSING, MOTOR #GL130                      |                                 |
| 3    | 1          | GL131-002             | ROTOR ASSEMBLY, MOTOR #GL131                    |                                 |
|      | 3.1        | 1                     | GL131-004                                       | ROTOR                           |
|      | 3.2        | 28                    | GL130-099                                       | PERMANENT MAGNET - MOTOR #GL130 |
| 4    | 1          | GL130A-005            | BEARING CAP                                     |                                 |
| 5    | 1          | GL171-006             | OUTBOARD STAND, AC GEARLESS                     |                                 |
| 6    | 1          | GL100-010             | 20" TRACTION SHEAVE (WIDE)                      |                                 |
| 7    | 1          | GL131-018             | MAIN SHAFT                                      |                                 |
| 8    | 1          | GL185-019             | END CAP                                         |                                 |
| 9    | 1          | GL171-020             | BEARING END CAP                                 |                                 |
| 10   | 8          | GL100-073             | BODY BOLT                                       |                                 |
| 11   | 1          | GL100-088             | KEY - STATOR CORE TO BASE                       |                                 |
| 12   | 1          | GL185-089             | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |                                 |
| 13   | 1          | GL130-090             | SEALED SPHERICAL ROLLER BEARING                 |                                 |
| 14   | 1          | GL185-090             | BEARING, SEALED SPHERICAL ROLLER                |                                 |
| 15   | 4          | GL130-092             | RETAINING RING - SHAFT                          |                                 |
| 16   | 1          | GL130-093             | RETAINING RING - HOUSING                        |                                 |
| 17   | 1          | GL100-094             | CLAMP RING - STATOR ASSEMBLY                    |                                 |
| 18   | 1          | GL100-095             | KEY - ROTOR TO SHAFT                            |                                 |
| 19   | 1          | GL130-100             | WINDING ASSEMBLY - 28 POLE                      |                                 |
| 20   | 1          | GL130-144             | DISC BRAKE (MAYR #8) - MRL                      |                                 |
|      | 20.1       | 1                     | GL130-144-115                                   | MAYR #8; RSD8 510 03 52V8211833 |
|      | 20.2       | 1                     | 144-001                                         | BRAKE BASE                      |
|      | 20.3       | 1                     | 144-002                                         | ADAPTOR PLATE - BRAKE BASE      |
|      | 20.4       | 1                     | 144-003                                         | COVER - MAYR #8 ELECTRICAL      |
|      | 20.5       | 2                     | 144-012                                         | BRAKE ROD                       |
|      | 20.6       | 4                     | 1/2 - 13 UNC x 1.75"                            | HEX HEAD CAP SCREW              |
|      | 20.7       | 4                     | 1/2-13 UNC x 1.5                                | FLAT HEAD CAP SCREW             |
|      | 20.8       | 4                     | 1/2" WASHER                                     | STANDARD WASHER                 |
|      | 20.9       | 2                     | 3/8-16 UNC x 0.625                              | FLAT POINT SET SCREW            |
| 21   | AS<br>NEC. | GL171-157-05          | OUTBOARD STAND SHIM STOCK - 0.005"              |                                 |
|      |            | GL171-157-10          | OUTBOARD STAND SHIM STOCK - 0.010"              |                                 |
|      |            | GL171-157-31          | OUTBOARD STAND SHIM STOCK - 0.031"              |                                 |
| 22   | 1          | GL100-159             | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |                                 |
| 23   | 1          | GL100-165             | FELT DUST SEAL                                  |                                 |
| 24   | 2          | 1 - 8 UNC x 5         | ALL THREAD - GRADE 5                            |                                 |
| 25   | 6          | 1 - 8 UNC x 3.5"      | SOCKET HEAD CAP SCREW                           |                                 |
| 26   | 2          | 1 - 8 UNC NUT         | HEAVY HEX NUT                                   |                                 |
| 27   | 8          | 1" WASHER             | SAE WASHER                                      |                                 |
| 28   | 8          | M18 LOCK WASHER       | HELICAL SPRING LOCK WASHER - BODY BOLT          |                                 |
| 29   | 2          | 3/4-10 UNCx0.75       | HALF DOG SET SCREW                              |                                 |
| 30   | 1          | 1/2-13 UNCx0.5        | HALF DOG SET SCREW                              |                                 |
| 31   | 6          | 3/8-16 UNC x 4        | FLAT HEAD CAP SCREWS                            |                                 |
| 32   | 8          | 3/8 - 16 UNC x 1.5    | SOCKET HEAD CAP SCREW                           |                                 |
| 33   | 6          | 3/8 - 16 UNC x 1      | SOCKET HEAD CAP SCREW                           |                                 |
| 34   | 4          | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                                       |                                 |
| 35   | 6          | 3/8 WASHER            | STANDARD LOCK                                   |                                 |
| 36   | 8          | 0.375 WASHER          | CAP SCREW LOCK WASHER                           |                                 |
| 37   | 4          | #8-32 x 1/4"          | SOCKET HEAD CAP SCREW                           |                                 |
| 38   | 4          | #8 WASHER             | INT. TOOTH LOCKWASHER                           |                                 |
| 39   | 1          | ECN 113 52810061      | 50mm HEIDENHAIN ENCODER                         |                                 |
| 40   | 2          | 622-041-GL            | MOUNTING ANGLE, GL171-622 BASE                  |                                 |
| 41   | 6          | 1/2-13 UNC x 1.25     | FLANGE HEAD HEX BOLT                            |                                 |
| 42   | 6          | 1/2 - 13 UNC x 1.25   | FLAT HEAD CAP SCREW                             |                                 |
| 43   | 1          | 622                   | NOT INCLUDED, SHOWN FOR CLARITY ONLY            |                                 |

Weight: 2476.00 lbmass

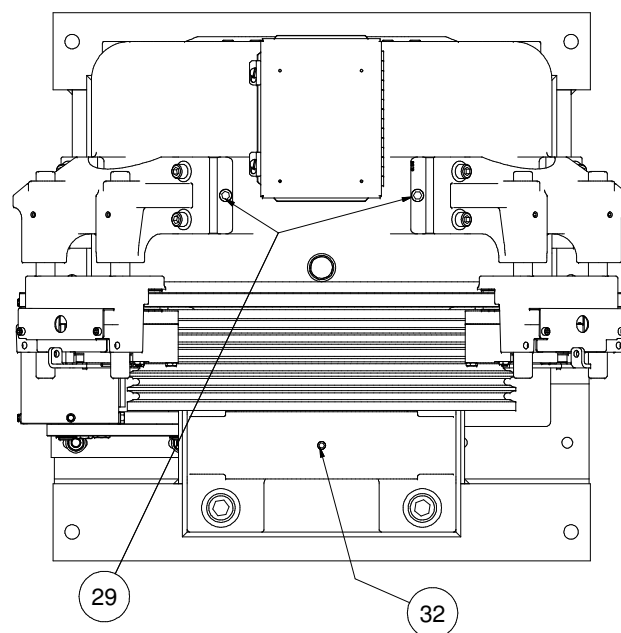
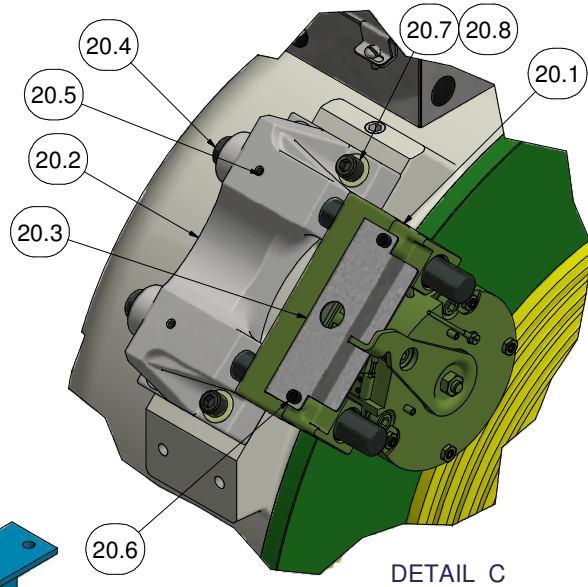
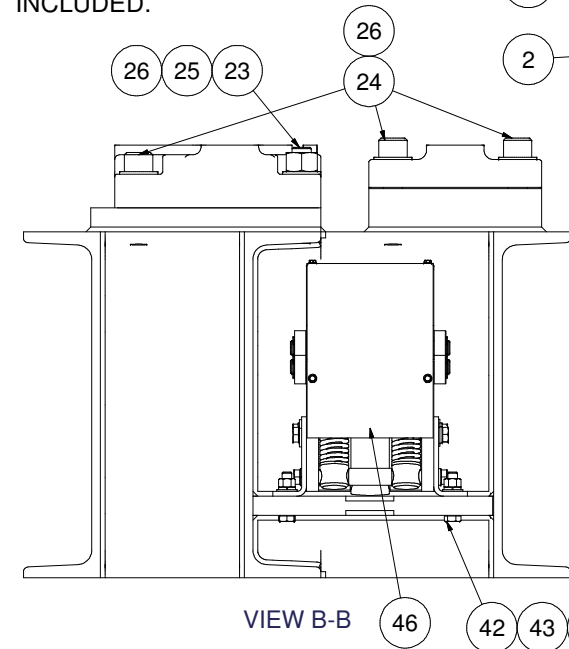
HOLLISTER-WHITNEY  
ELEVATOR CO.

|       |                                                                              |
|-------|------------------------------------------------------------------------------|
| TITLE | GEARLESS MACHINE, 1500# @ 50% CB,<br>1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED |
|-------|------------------------------------------------------------------------------|

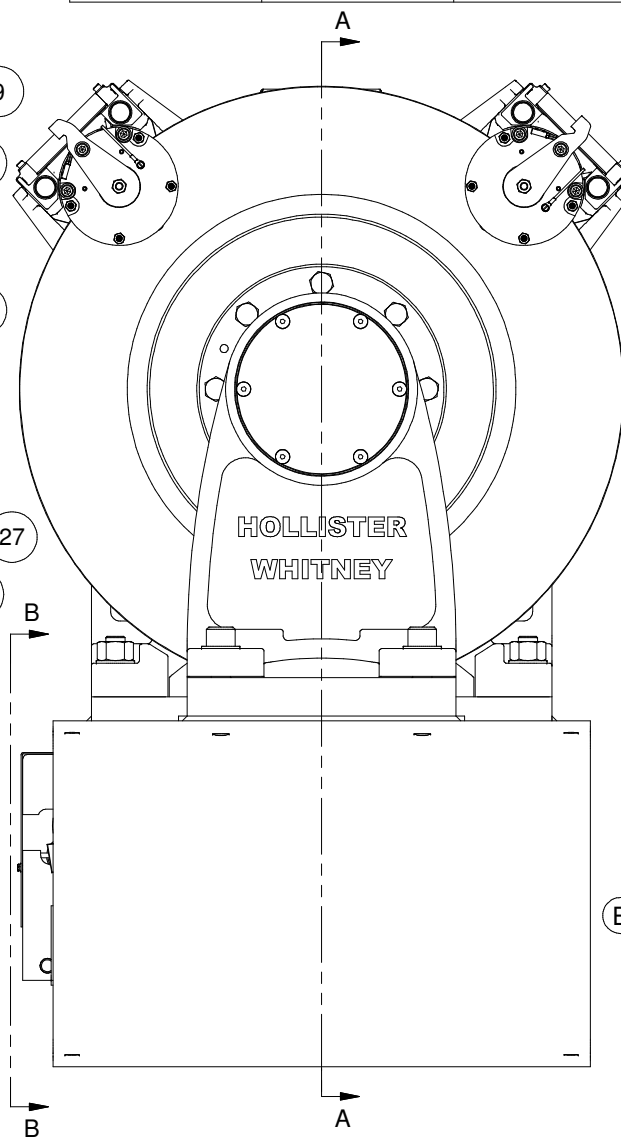
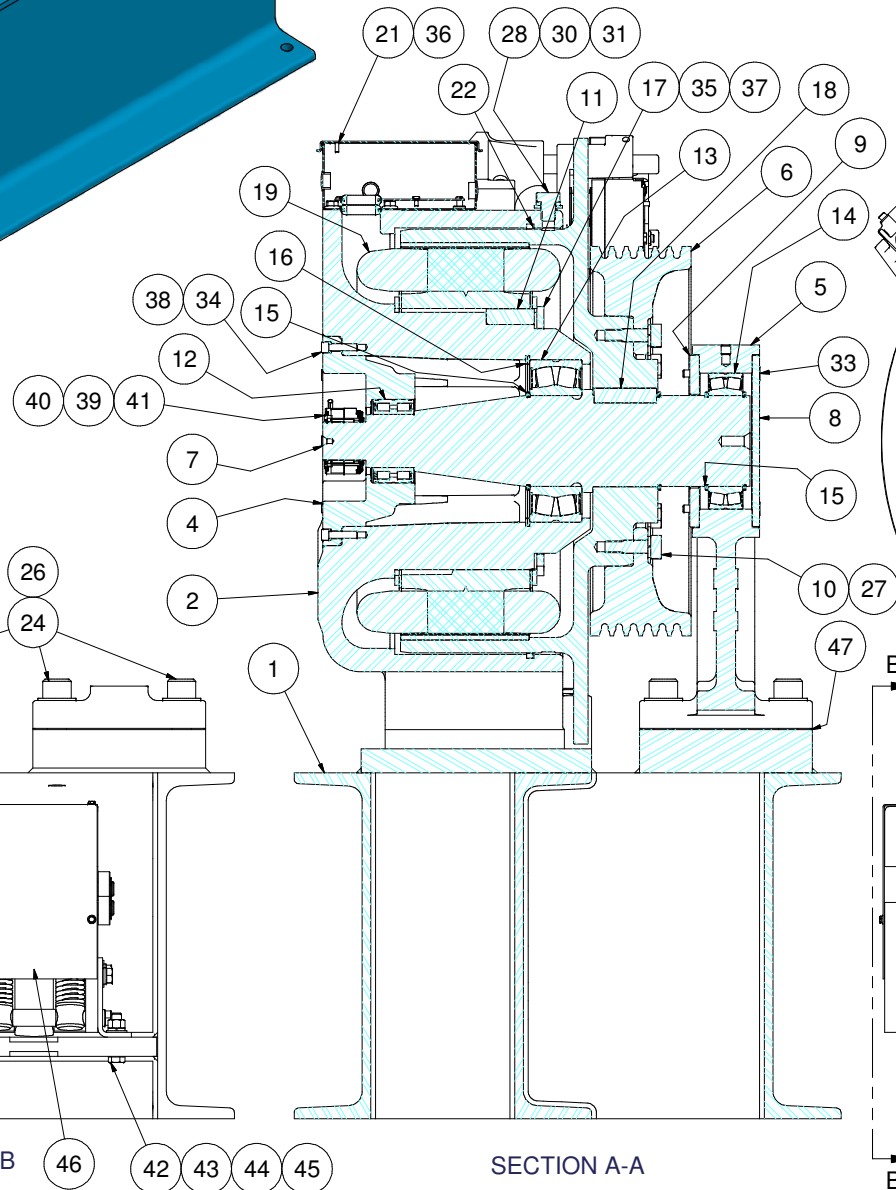
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|----|------------|-------|----------------|--------------------------------------------------------------------------------------------------|
| 16 | DRAWN BY   | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                                 |
|    | LTL        | NA    | SEE PARTS LIST | 1 PLACE ±0.01, 2 PLACE ±0.005<br>3/64 PLACE ±0.001, ANGLES±0.1°<br>REF., OPEN, (NOMINAL) ±0.0156 |
| 14 | SHEET SIZE | D     | DATE           |                                                                                                  |
|    |            |       | 8/13/2014      | GL131-622                                                                                        |



|  |  |  |  |  |                                    |                                |                                                                                                                     |
|--|--|--|--|--|------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------|
|  |  |  |  |  |                                    |                                | HOLLISTER-WHITNEY<br>ELEVATOR CO.                                                                                   |
|  |  |  |  |  |                                    | TITLE                          | GEARLESS MACHINE, 1500# @ 50% CB,<br>1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED                                        |
|  |  |  |  |  | SEE OTHER<br>SIDE FOR<br>REVISIONS | DRAWN BY<br><br>LTL            | SCALE<br><br>NA                                                                                                     |
|  |  |  |  |  |                                    | MATERIAL<br><br>SEE PARTS LIST | DIMENSIONAL TOL.<br>1 PLACE ±0.01, 2 PLACE ±0.005,<br>3&4 PLACE±0.001, ANGLES±0.1°<br>REF. OPEN, NOMINAL = + 0.0150 |
|  |  |  |  |  |                                    | SHEET SIZE D DATE 8/13/2014    | GL131-622                                                                                                           |



| GEARLESS WINDINGS, 2000 lb CAPACITY, 1:1 |               |           |         |           |
|------------------------------------------|---------------|-----------|---------|-----------|
| ACG MACHINE                              | WINDING P/N   | MAG WIDTH | VOLTAGE | CAR SPEED |
| GL171-20L-620                            | GL171-170-200 | 170 mm    | 170 Vac | 200 fpm   |
| GL171-20H-620                            | GL171-360-200 | 170 mm    | 360 Vac | 200 fpm   |
| GL171-40L-620                            | GL171-170-400 | 170 mm    | 170 Vac | 400 fpm   |

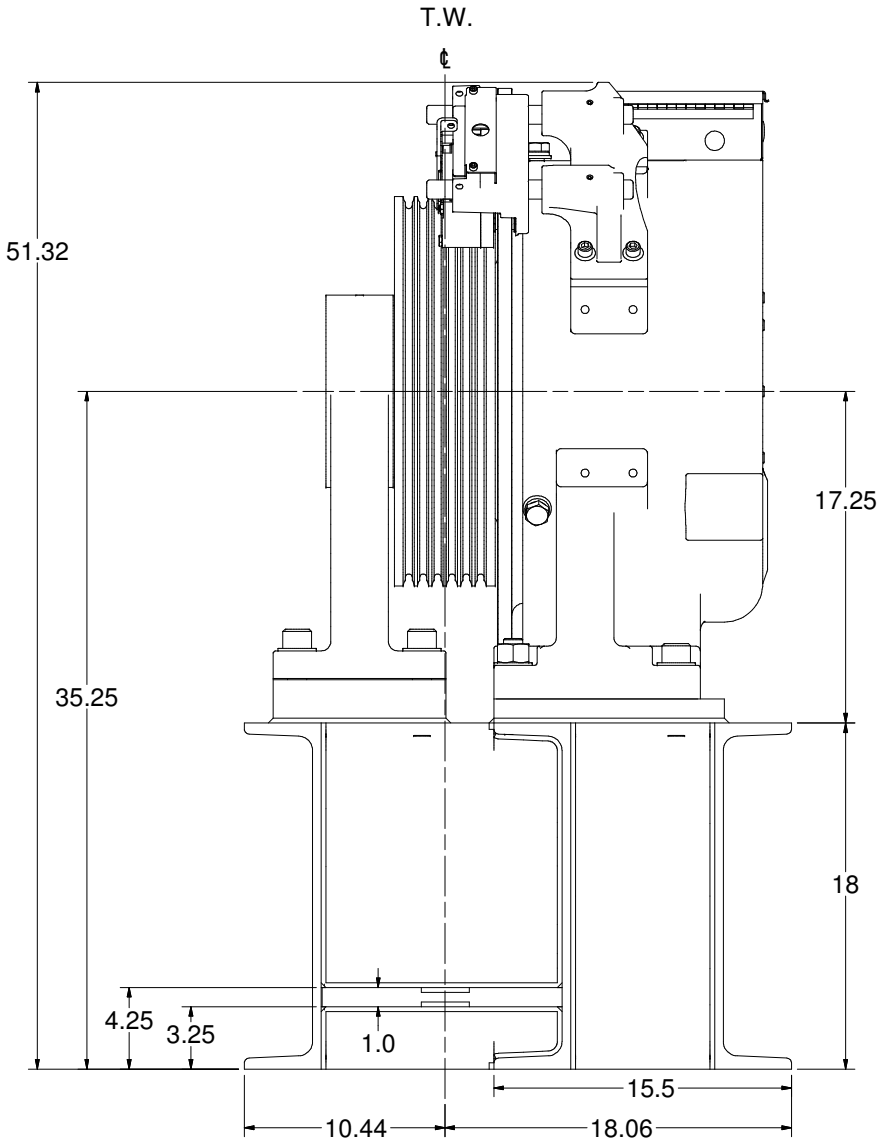
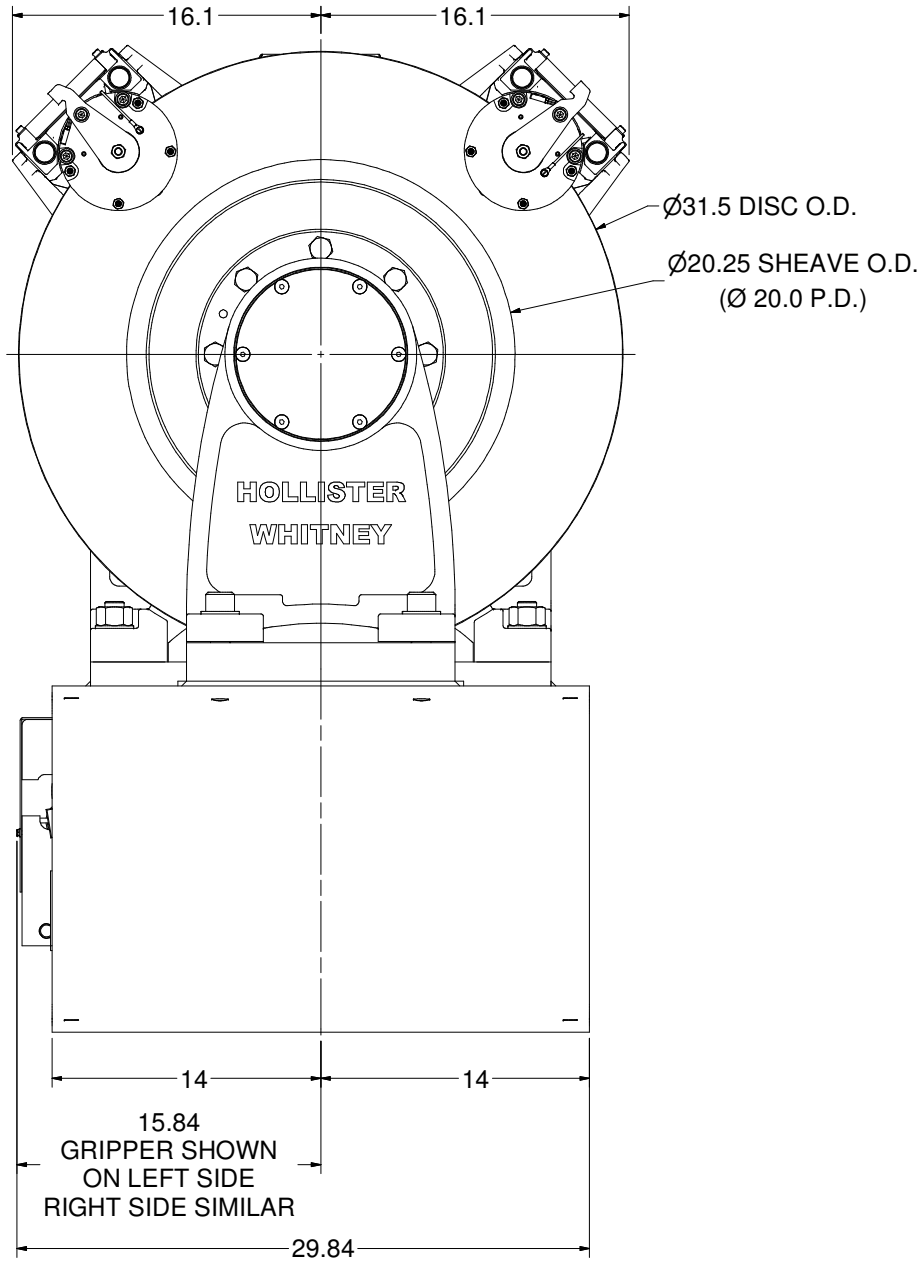
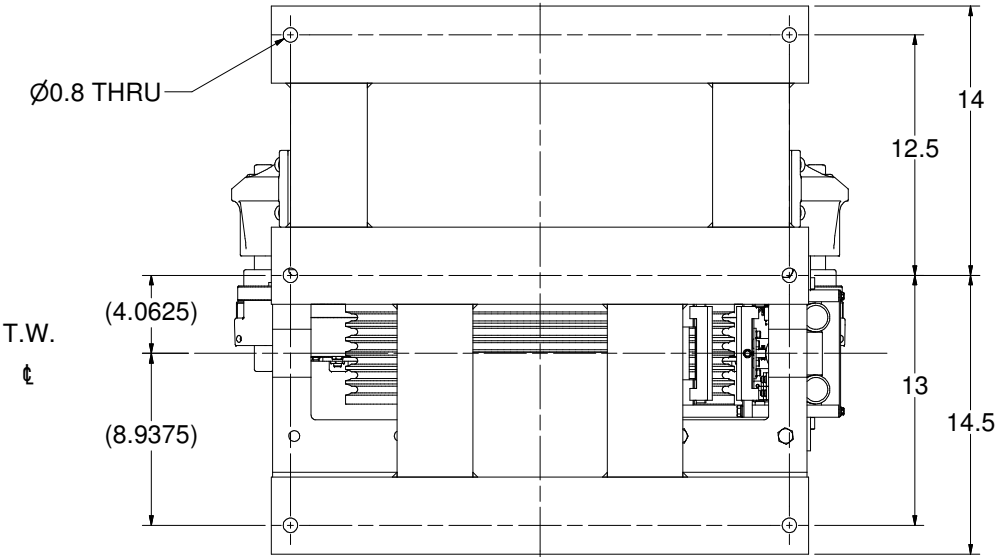
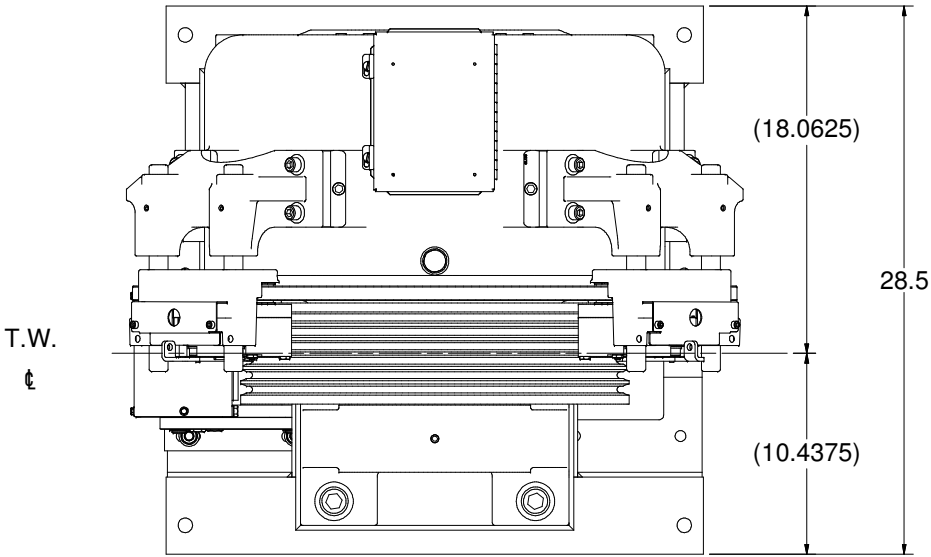


| 2:1 GEARLESS WINDINGS USED 1:1, 1500 lb CAP |               |              |         |           |
|---------------------------------------------|---------------|--------------|---------|-----------|
| ACG MACHINE                                 | PART NO.      | MAGNET WIDTH | VOLTAGE | CAR SPEED |
| GL171-35L-620                               | GL170-170-350 | 170 mm       | 170 Vac | 900 fpm   |
| GL171-35H-620                               | GL170-360-350 | 170 mm       | 360 Vac | 900 fpm   |

|   |               |   |                                              |  |              |   |                              |                                                                     |             |              |                                                        |      |           |                |                  |                                                                                              |  |
|---|---------------|---|----------------------------------------------|--|--------------|---|------------------------------|---------------------------------------------------------------------|-------------|--------------|--------------------------------------------------------|------|-----------|----------------|------------------|----------------------------------------------------------------------------------------------|--|
| B | ACG MACHINE   |   | PART NO.                                     |  | MAGNET WIDTH |   | VOLTAGE                      |                                                                     | CAR SPEED   |              |                                                        |      |           |                |                  |                                                                                              |  |
|   | GL171-35L-620 |   | GL170-170-350                                |  | 170 mm       |   | 170 Vac                      |                                                                     | 900 fpm     |              |                                                        |      |           |                |                  |                                                                                              |  |
|   | GL171-35H-620 |   | GL170-360-350                                |  | 170 mm       |   | 360 Vac                      |                                                                     | 900 fpm     |              | Weight: 2595.17 lbmass                                 |      |           |                |                  |                                                                                              |  |
|   |               |   |                                              |  |              |   | E                            | REMOVE GL100-008, PUR #648                                          |             | LTL 5/20/14  | HOLLISTER-WHITNEY                                      |      |           |                |                  |                                                                                              |  |
|   |               |   |                                              |  |              |   | D                            | BRAKE UPDATE, 1" BOLTS TO SHCS, 1" ALL THREAD & HEAVY NUT, PUR #608 |             | LTL 8/22/13  | ELEVATOR CO.                                           |      |           |                |                  |                                                                                              |  |
|   |               |   |                                              |  |              |   |                              |                                                                     |             |              | TITLE GEARLESS MACHINE W/620, 2000# MAX CAP. 1:1 ROPED |      |           |                |                  |                                                                                              |  |
|   |               |   |                                              |  |              |   | C                            | GL171-095 WAS GL100-095, PUR #565                                   |             | LTL 2/4/13   | DRAWN BY                                               |      | SCALE     | MATERIAL       | DIMENSIONAL TOL. |                                                                                              |  |
|   |               |   |                                              |  |              |   |                              | ADD WINDING OPTIONS, PUR #554                                       |             | LTL 12/28/12 | LTL                                                    |      | NA        | SEE PARTS LIST |                  | 1 PLACE ±0.01, 2 PLACE ±0.005<br>3&4 PLACE±.001, ANGLES±0.1<br>REF., OPEN, (NC/NMA) ± 0.0156 |  |
|   |               | F | ADD SHIMS, GL185-019 WAS GL171-018, PUR #388 |  | LTL 6/22/16  | A | PRODUCTION RELEASE, LTL #539 |                                                                     | LTL 11/1/12 | SHEET        | D                                                      | DATE | 11/1/2012 |                | GL171-620        |                                                                                              |  |

| ITEM | QTY     | PART NUMBER          | DESCRIPTION                                            |                                               |
|------|---------|----------------------|--------------------------------------------------------|-----------------------------------------------|
| 1    | 1       | GL171B-620           | BASE FABRICATION - FINISHED                            |                                               |
| 2    | 1       | GL170-001            | BASE HOUSING, MOTOR #GL170                             |                                               |
| 3    | 1       | GL171-002            | ROTOR ASSEMBLY, MOTOR #GL171                           |                                               |
| 4    | 1       | GL130-005            | BEARING CAP                                            |                                               |
| 5    | 1       | GL171-006            | OUTBOARD STAND, AC GEARLESS                            |                                               |
| 6    | 1       | GL100-010            | 20" SHEAVE, 6 x 1/2" ROPE MAX                          |                                               |
| 7    | 1       | GL171-018            | MAIN SHAFT                                             |                                               |
| 8    | 1       | GL185-019            | END CAP                                                |                                               |
| 9    | 1       | GL171-020            | BEARING END CAP                                        |                                               |
| 10   | 8       | GL100-073            | BODY BOLT                                              |                                               |
| 11   | 1       | GL100-088            | KEY - STATOR CORE TO BASE                              |                                               |
| 12   | 1       | GL100-089            | Bearing, Sealed Double Row Cylindrical Roller          |                                               |
| 13   | 1       | GL130-090            | SEALED SPHERICAL ROLLER BEARING                        |                                               |
| 14   | 1       | GL185-090            | BEARING, SEALED SPHERICAL ROLLER                       |                                               |
| 15   | 4       | GL130-092            | RETAINING RING - SHAFT                                 |                                               |
| 16   | 1       | GL130-093            | RETAINING RING - HOUSING                               |                                               |
| 17   | 1       | GL100-094            | CLAMP RING - STATOR ASSEMBLY                           |                                               |
| 18   | 1       | GL171-095            | KEY - MAIN SHAFT TO ROTOR                              |                                               |
| 19   | 1       | GL171-100            | WINDING ASSEMBLY - 28 POLE, 1:1 Application            |                                               |
|      |         | GL170-100            | WINDING ASSEMBLY - 28 POLE (2:1 IN 1:1 APL), SEE BELOW |                                               |
| 20   | 2       | GL100-146            | DISC BRAKE (MAYR #6) - MRL                             |                                               |
| D    | 20.1    | 2                    | GL100-146-115                                          | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC) |
|      | 20.2    | 2                    | 142-001                                                | BRAKE BASE                                    |
|      | 20.3    | 2                    | 146-003                                                | COVER - MAYR #6 ELECTRICAL                    |
|      | 20.4    | 4                    | 142-012                                                | BRAKE ROD                                     |
|      | 20.5    | 4                    | 3/8-16 UNC x 0.375                                     | SET SCREW                                     |
|      | 20.6    | 4                    | M6 x 1.00 x 8mm                                        | SHCS - Metric                                 |
|      | 20.7    | 8                    | 1/2-13 UNC x 2                                         | SOCKET HEAD CAP SCREW                         |
|      | 20.8    | 8                    | 1/2" WASHER                                            | STANDARD WASHER                               |
| 21   | 1       | GL100-159            | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED        |                                               |
| 22   | 1       | GL100-165            | FELT DUST SEAL                                         |                                               |
| 23   | 2       | 1 - 8 UNC x 5        | ALL THREAD - GRADE 5                                   |                                               |
| 24   | 6       | 1 - 8 UNC x 3.5"     | SOCKET HEAD CAP SCREW                                  |                                               |
| 25   | 2       | 1 - 8 UNC NUT        | HEAVY HEX NUT                                          |                                               |
| 26   | 8       | 1" WASHER            | SAE WASHER                                             |                                               |
| 27   | 8       | M18 LOCK WASHER      | HELICAL SPRING LOCK WASHER - BODY BOLT                 |                                               |
| 28   | 3       | 3/4 - 10 UNC x 1.0   | HEX HEAD CAP SCREW                                     |                                               |
| 29   | 2       | 3/4-10 UNC x 0.75    | Hexagon Socket Set Screw - Flat Point                  |                                               |
| 30   | 3       | 3/4 WASHER           | SAE WASHER                                             |                                               |
| 31   | 3       | 3/4" WASHER          | STANDARD LOCK WASHER                                   |                                               |
| 32   | 1       | 1/2-13 UNC x 0.5     | Hexagon Socket Set Screw - Flat Point                  |                                               |
| 33   | 6       | 3/8-16 UNC x 4       | FLAT HEAD CAP SCREWS                                   |                                               |
| 34   | 8       | 3/8 - 16 UNC - 1 1/2 | Hexagon Socket Head Cap Screw                          |                                               |
| 35   | 6       | 3/8 - 16 UNC - 1     | Hexagon Socket Head Cap Screw                          |                                               |
| 36   | 4       | 3/8-16 UNC x 0.625   | Hex Flange Screw - Regular Thread - Inch               |                                               |
| 37   | 6       | 0.375 WASHER         | Helical Spring Lock Washers                            |                                               |
| 38   | 8       | 0.375 WASHER         | CAP SCREW LOCK WASHER                                  |                                               |
| 39   | 4       | #8-32 x 1/4"         | SOCKET HEAD CAP SCREW                                  |                                               |
| 40   | 4       | #8 WASHER            | INT. TOOTH LOCKWASHER                                  |                                               |
| 41   | 1       | ECN 113 52810061     | 50mm HEIDENHAIN ENCODER                                |                                               |
| 42   | 4       | 1/2-13 UNC - 2.25    | Hex Cap Screw                                          |                                               |
| 43   | 4       | 1/2 - 13 UNC         | Hex Nuts (Inch Series) Hex Nut                         |                                               |
| 44   | 4       | 1/2 WASHER           | Regular Helical Spring Lock Washers(Inch Series)       |                                               |
| 45   | 4       | 1/2 WASHER           | Plain Washer (Inch )Type A and B                       |                                               |
| 46   | 1       | 620                  | NOT INCLUDED- SHOWN FOR CLARITY                        |                                               |
| 47   | AS NEC. | GL171-157-05         | OUTBOARD STAND SHIM STOCK - 0.005"                     |                                               |
|      |         | GL171-157-10         | OUTBOARD STAND SHIM - 0.010"                           |                                               |
|      |         | GL171-157-31         | OUTBOARD STAND SHIM STOCK - 0.031"                     |                                               |

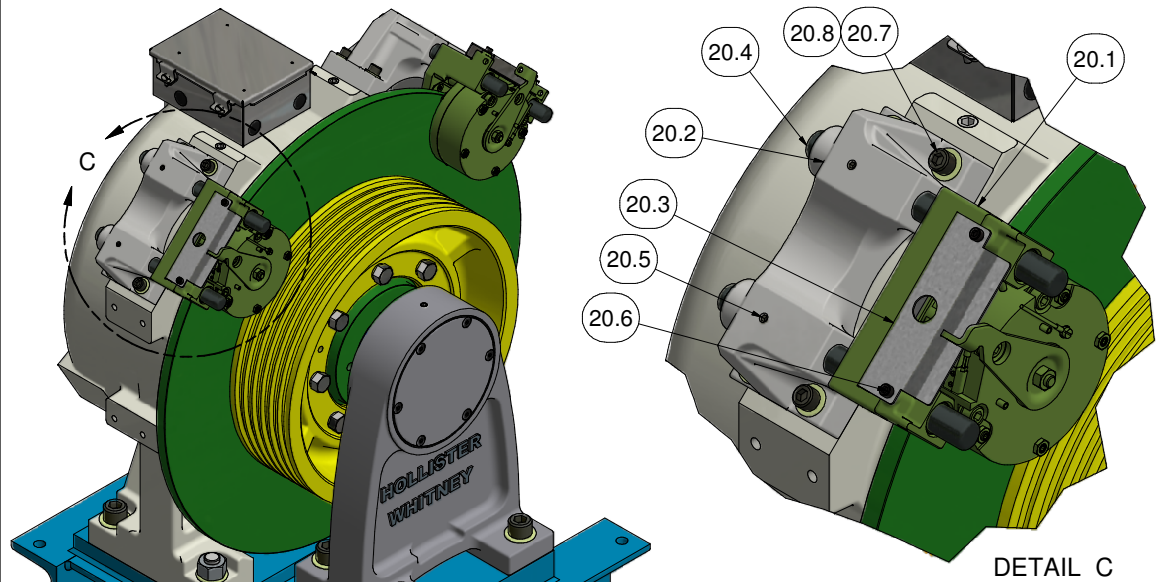




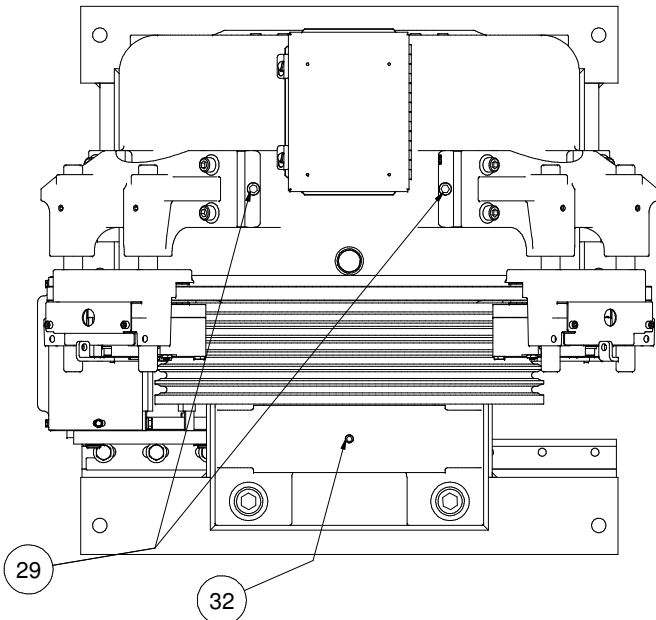
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|--------------------------------------------------------|--|--|--|----------------|--|--|--|-------------------------------------------------------------------------------------------------------------|--|
| Weight: 2595.17 lbmass                                 |  |  |  |                |  |  |  |                                                                                                             |  |
| HOLLISTER-WHITNEY                                      |  |  |  |                |  |  |  |                                                                                                             |  |
| ELEVATOR CO.                                           |  |  |  |                |  |  |  |                                                                                                             |  |
| TITLE GEARLESS MACHINE W/620, 2000# MAX CAP. 1:1 ROPED |  |  |  |                |  |  |  |                                                                                                             |  |
| DRAWN BY LTL                                           |  |  |  | SCALE NA       |  |  |  | MATERIAL SEE PARTS LIST                                                                                     |  |
| SHEET SIZE                                             |  |  |  | DATE 11/1/2012 |  |  |  | DIMENSIONAL TOL. 1 PLACE ±0.01, 2 PLACE ±0.005 3&4 PLACE ±0.001, ANGLES ±0.1° REF. OPEN, (NOMINAL) ± 0.0156 |  |
|                                                        |  |  |  |                |  |  |  | GL171-620                                                                                                   |  |

SEE OTHER  
SIDE FOR  
REVISIONS

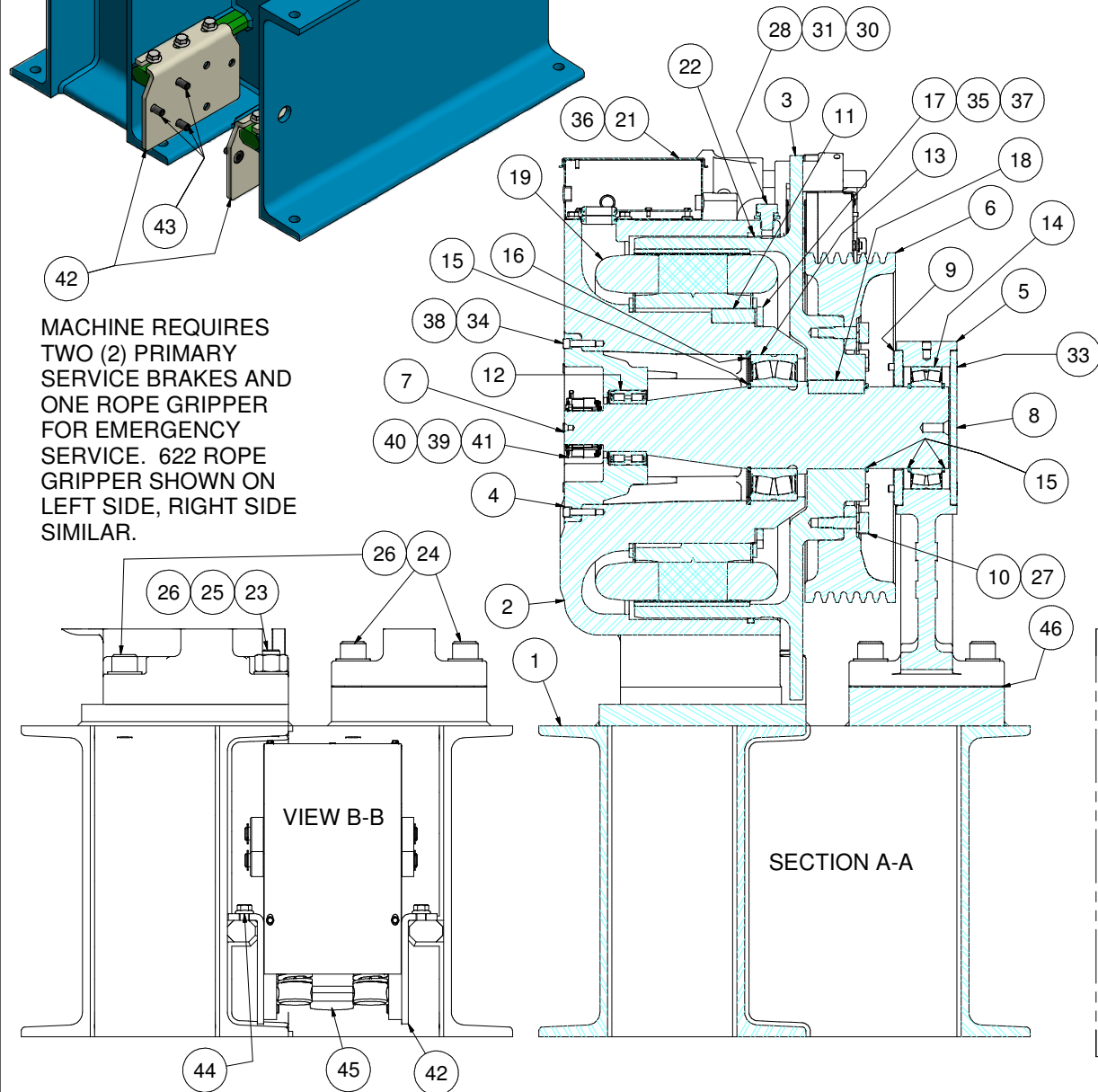




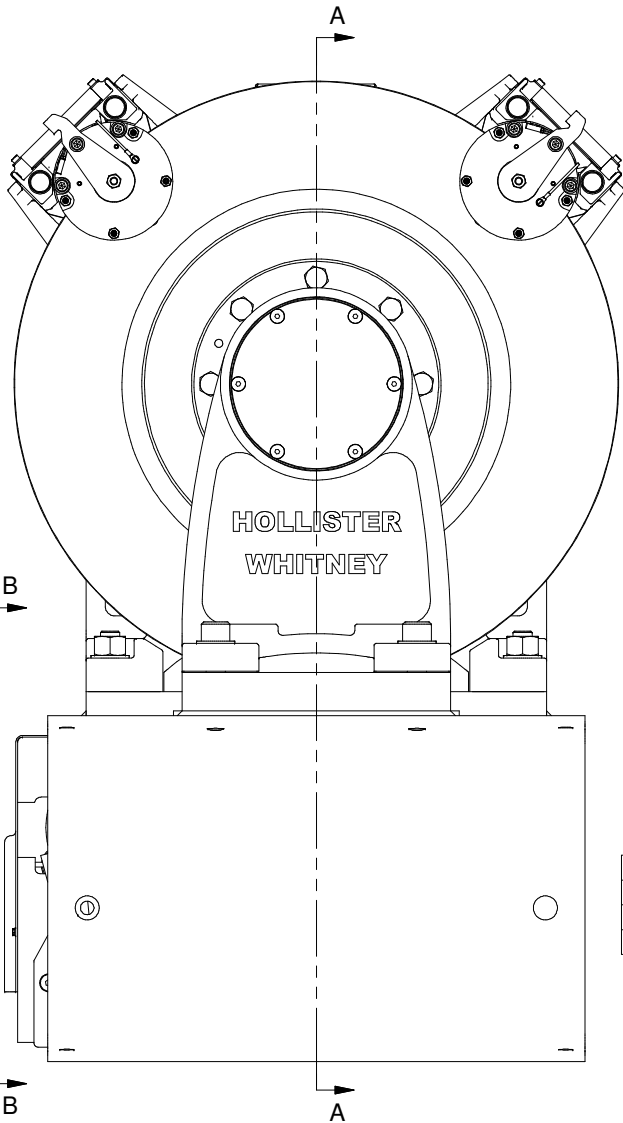
DETAIL C



| GEARLESS WINDINGS, 2000 lb CAPACITY, 1:1 |               |           |         |           |
|------------------------------------------|---------------|-----------|---------|-----------|
| ACG MACHINE                              | WINDING P/N   | MAG WIDTH | VOLTAGE | CAR SPEED |
| GL171-20L-622                            | GL171-170-200 | 170 mm    | 170 Vac | 200 fpm   |
| GL171-20H-622                            | GL171-360-200 | 170 mm    | 360 Vac | 200 fpm   |
| GL171-40L-622                            | GL171-170-400 | 170 mm    | 170 Vac | 400 fpm   |



MACHINE REQUIRES TWO (2) PRIMARY SERVICE BRAKES AND ONE ROPE GRIPPER FOR EMERGENCY SERVICE. 622 ROPE GRIPPER SHOWN ON LEFT SIDE, RIGHT SIDE SIMILAR.



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| ITEM | QTY     | PART NUMBER              | DESCRIPTION                                           |
|------|---------|--------------------------|-------------------------------------------------------|
| 1    | 1       | GL171B-622               | BASE FABRICATION - FINISHED                           |
| 2    | 1       | GL170-001                | BASE HOUSING, MOTOR #GL170                            |
| 3    | 1       | GL171-002                | ROTOR ASSEMBLY, MOTOR #GL171                          |
| 4    | 1       | GL130-005                | BEARING CAP                                           |
| 5    | 1       | GL171-006                | OUTBOARD STAND, AC GEARLESS                           |
| 6    | 1       | GL100-010                | 20" SHEAVE, 6 x 1/2" ROPE MAX                         |
| 7    | 1       | GL171-018                | MAIN SHAFT                                            |
| 8    | 1       | GL185-019                | END CAP                                               |
| 9    | 1       | GL171-020                | BEARING END CAP                                       |
| 10   | 8       | GL100-073                | BODY BOLT                                             |
| 11   | 1       | GL100-088                | KEY - STATOR CORE TO BASE                             |
| 12   | 1       | GL100-089                | Bearing, Sealed Double Row Cylindrical Roller         |
| 13   | 1       | GL130-090                | SEALED SPHERICAL ROLLER BEARING                       |
| 14   | 1       | GL185-090                | BEARING, SEALED SPHERICAL ROLLER                      |
| 15   | 4       | GL130-092                | RETAINING RING - SHAFT                                |
| 16   | 1       | GL130-093                | RETAINING RING - HOUSING                              |
| 17   | 1       | GL100-094                | CLAMP RING - STATOR ASSEMBLY                          |
| 18   | 1       | GL171-095                | KEY - MAIN SHAFT TO ROTOR                             |
| 19   | 1       | GL171-100                | WINDING ASSEMBLY - 28 POLE, 1:1 Application           |
| 20   | 1       | GL170-100                | WINDING ASSEMBLY - 28 POLE (2:1 IN 1:1 APL) SEE BELOW |
| 20.1 | 2       | GL100-146                | DISC BRAKE (MAYR #6) - MRL                            |
| 20.2 | 2       | GL100-146-115            | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC)         |
| 20.3 | 2       | 142-001                  | BRAKE BASE                                            |
| 20.4 | 2       | 146-003                  | COVER - MAYR #6 ELECTRICAL                            |
| 20.5 | 4       | 142-012                  | BRAKE ROD                                             |
| 20.6 | 4       | 3/8-16 UNC x 0.375       | SET SCREW                                             |
| 20.7 | 4       | M6 x 1.00 x 8mm          | SHCS - Metric                                         |
| 20.8 | 8       | 1/2-13 UNC x 2           | SOCKET HEAD CAP SCREW                                 |
| 20.9 | 8       | 1/2" WASHER              | STANDARD WASHER                                       |
| 21   | 1       | GL100-159                | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED       |
| 22   | 1       | GL100-165                | FELT DUST SEAL                                        |
| 23   | 2       | 1 - 8 UNC x 5            | ALL THREAD - GRADE 5                                  |
| 24   | 6       | 1 - 8 UNC x 3.5"         | SOCKET HEAD CAP SCREW                                 |
| 25   | 2       | 1 - 8 UNC NUT            | HEAVY HEX NUT                                         |
| 26   | 8       | 1" WASHER                | SAE WASHER                                            |
| 27   | 8       | M18 LOCK WASHER-DIN 127B | HELICAL SPRING LOCK WASHER - BODY BOLT                |
| 28   | 3       | 3/4 - 10 UNC x 1.0       | HEX HEAD CAP SCREW                                    |
| 29   | 2       | 3/4-10 UNC x 0.75        | Hexagon Socket Set Screw - Flat Point                 |
| 30   | 3       | 3/4 WASHER               | SAE WASHER                                            |
| 31   | 3       | 3/4" WASHER              | STANDARD LOCK WASHER                                  |
| 32   | 1       | 1/2-13 UNC x 0.5         | Hexagon Socket Set Screw - Flat Point                 |
| 33   | 6       | 3/8-16 UNC x 4           | FLAT HEAD CAP SCREWS                                  |
| 34   | 8       | 3/8 - 16 UNC - 1 1/2     | Hexagon Socket Head Cap Screw                         |
| 35   | 6       | 3/8 - 16 UNC - 1         | Hexagon Socket Head Cap Screw                         |
| 36   | 4       | 3/8-16 UNC x 0.625       | Hex Flange Screw - Regular Thread - Inch              |
| 37   | 6       | 0.375 WASHER             | Helical Spring Lock Washers                           |
| 38   | 8       | 0.375 WASHER             | CAP SCREW LOCK WASHER                                 |
| 39   | 4       | #8 WASHER                | INT. TOOTH LOCKWASHER                                 |
| 40   | 4       | #8-32 x 1/4"             | SOCKET HEAD CAP SCREW                                 |
| 41   | 1       | ECN 113 52810061         | 50mm HEIDENHAIN ENCODER                               |
| 42   | 2       | 622-041-GL               | MOUNTING ANGLE, GL171-622 BASE                        |
| 43   | 6       | 1/2 - 13 UNC x 1.25      | FLAT HEAD CAP SCREW                                   |
| 44   | 6       | 1/2-13 UNC x 1.25        | HEX FLANGE HEAD SCREW                                 |
| 45   | 1       | 622                      | NOT INCLUDED, SHOWN FOR CLARITY ONLY                  |
| 46   | AS NEC. | GL171-157-05             | OUTBOARD STAND SHIM STOCK - 0.005"                    |
|      |         | GL171-157-10             | OUTBOARD STAND SHIM - 0.010"                          |
|      |         | GL171-157-31             | OUTBOARD STAND SHIM STOCK - 0.031"                    |

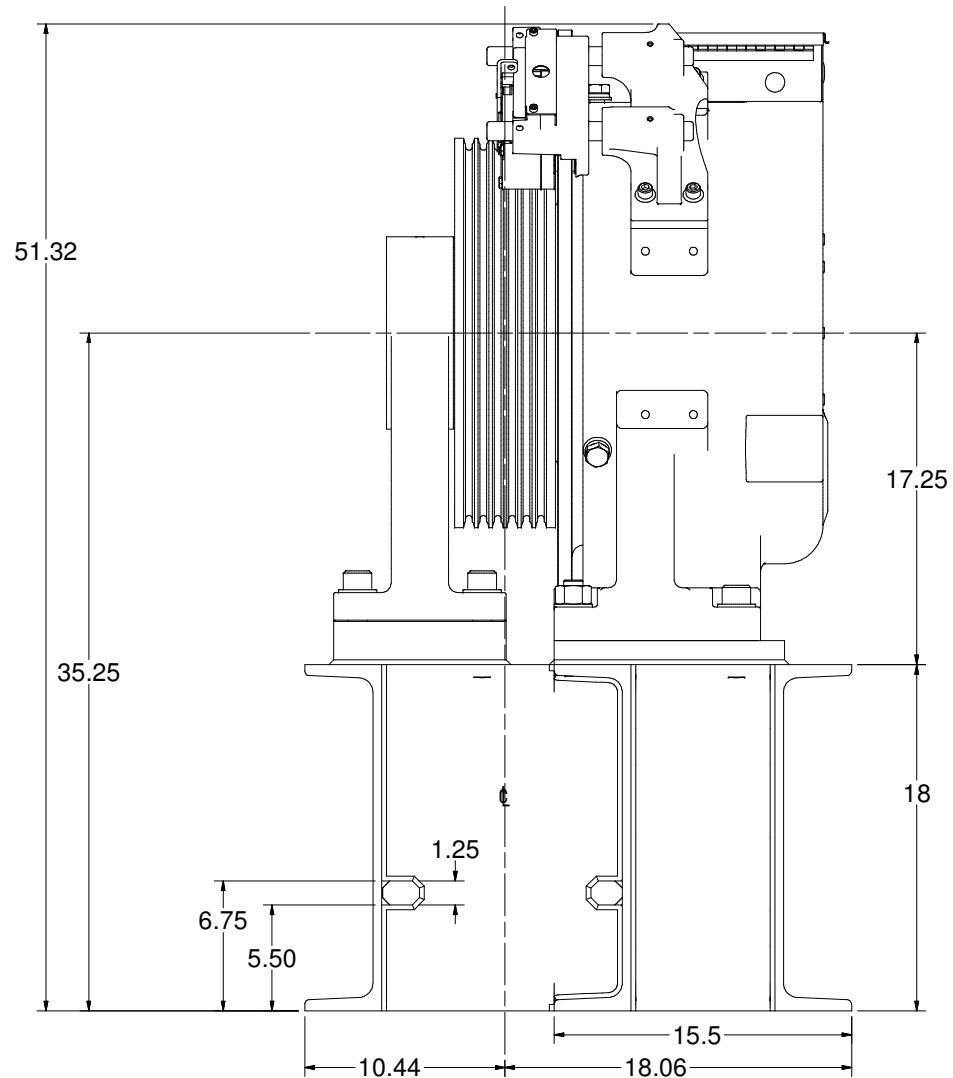
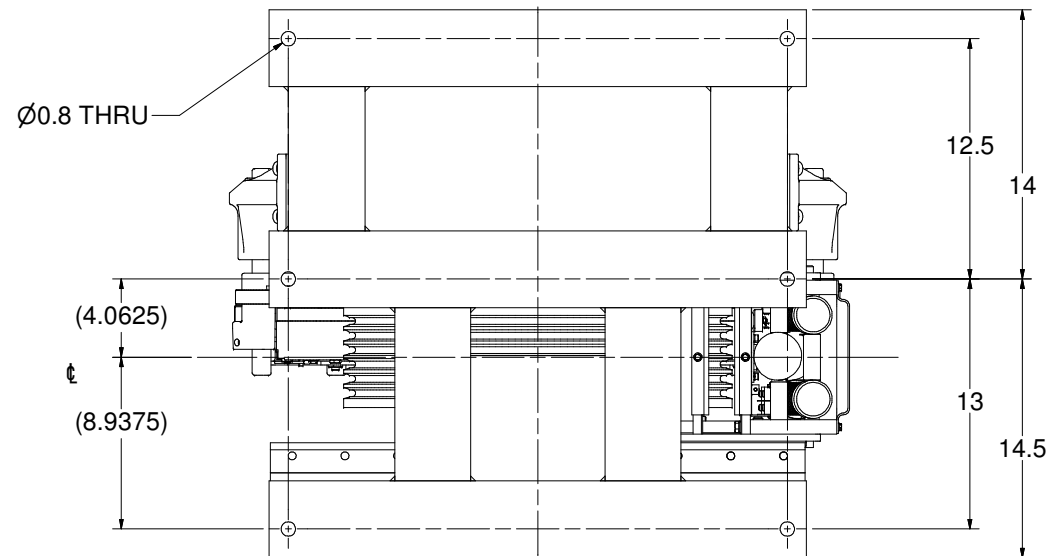
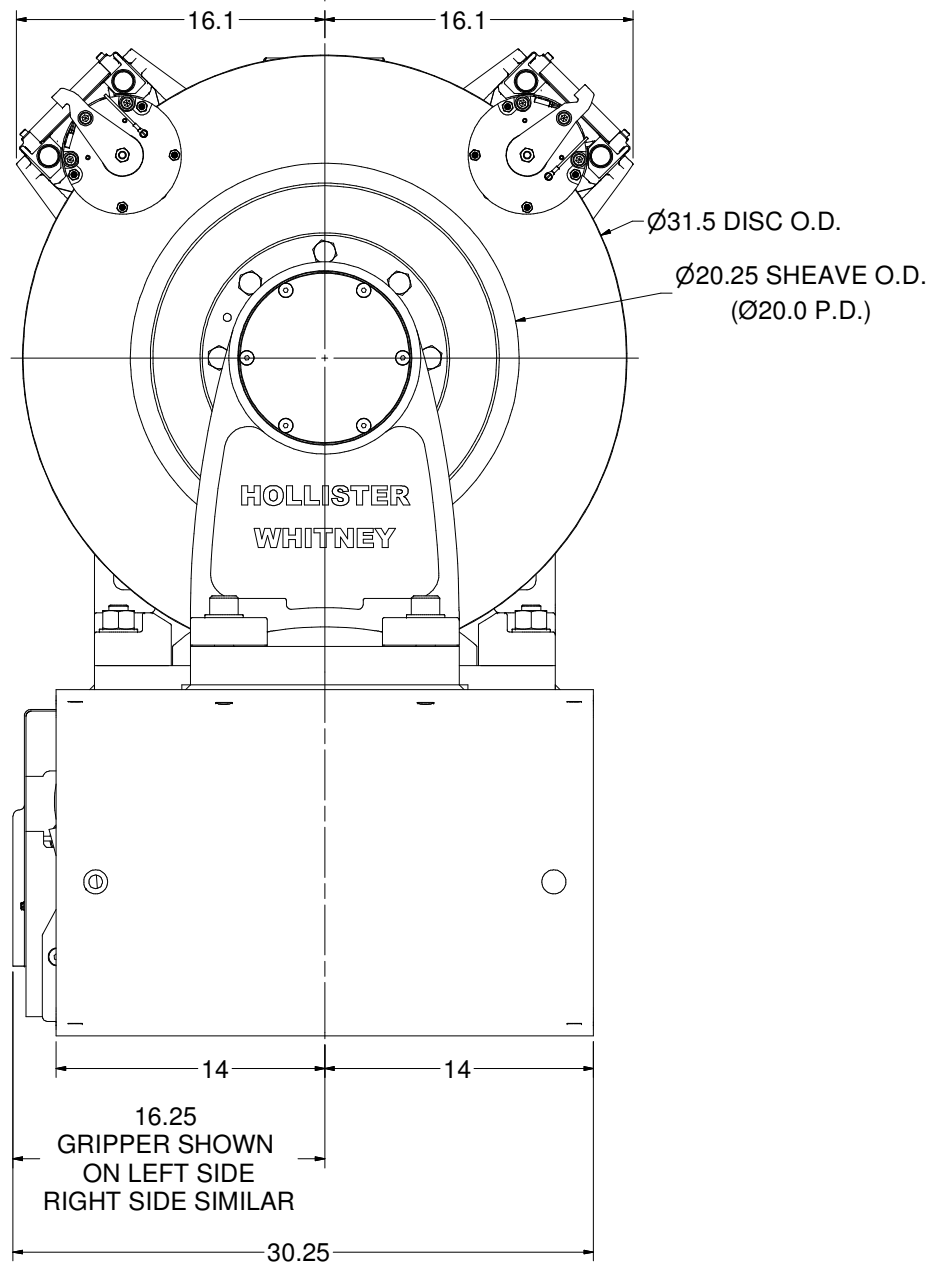
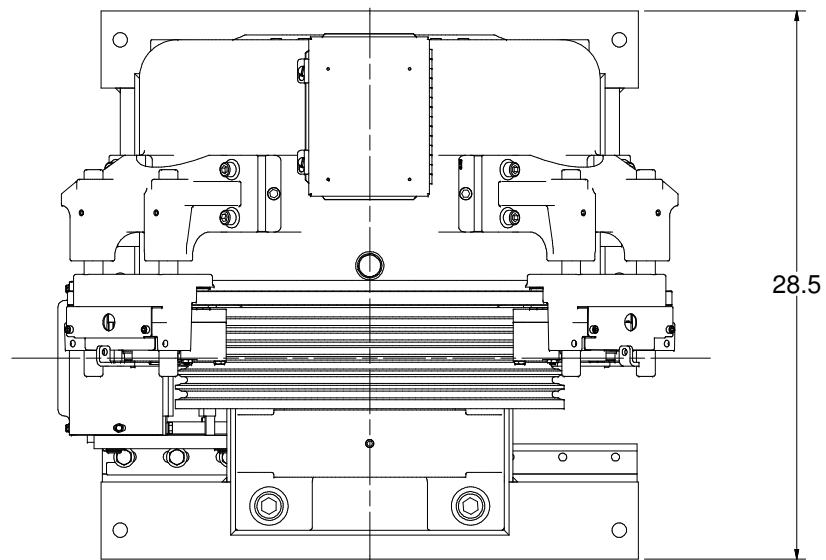
| 2:1 GEARLESS WINDINGS USED 1:1, 1500 lb CAP |               |              |         |           |
|---------------------------------------------|---------------|--------------|---------|-----------|
| ACG MACHINE                                 | PART NO.      | MAGNET WIDTH | VOLTAGE | CAR SPEED |
| GL171-35L-622                               | GL170-170-350 | 170 mm       | 170 Vac | 900 fpm   |
| GL171-35H-622                               | GL170-360-350 | 170 mm       | 360 Vac | 900 fpm   |

Weight: 2595.43 lbmass

HOLLISTER-WHITNEY  
ELEVATOR CO.  
TITLE GEARLESS MACHINE W/622, 2000# MAX  
CAP. 1:1 ROPED

|   |                                                                   |     |          |
|---|-------------------------------------------------------------------|-----|----------|
| E | UPDATE BRAKE, 1" BOLTS TO SHCS, ADD 1" ALL THREAD & NUT, PUR #608 | LTL | 9/22/13  |
| D | GL171-095 WAS GL100-095, PUR #565                                 | LTL | 2/4/13   |
| C | ADD WINDING OPTIONS, PUR #554                                     | LTL | 12/28/12 |
| B | ASSEMBLY UPDATE, PUR #533                                         | LTL | 10/22/12 |
| F | REMOVE GL100-008, PUR #648                                        | LTL | 5/20/14  |
| A | PRODUCTION RELEASE, PUR #525                                      | LTL | 10/2/12  |
| G | ADD SHIMS, GL185-019 WAS GL171-019, PUR #788                      | LTL | 6/22/16  |
| F | REMOVE GL100-008, PUR #648                                        | LTL | 5/20/14  |

|                |       |                |                                                                                               |
|----------------|-------|----------------|-----------------------------------------------------------------------------------------------|
| DRAWN BY       | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                              |
| SEE PARTS LIST | NA    | SEE PARTS LIST | 1 PLACE ±0.01, 2 PLACE ±0.005, 3/8 PLACE ±0.001, ANGLES ±0.1° REF. OPEN, (NOMINAL) ± 0.01/156 |
| SHEET SIZE     | D     | DATE           | 9/28/2012                                                                                     |
|                |       |                | GL171-622                                                                                     |

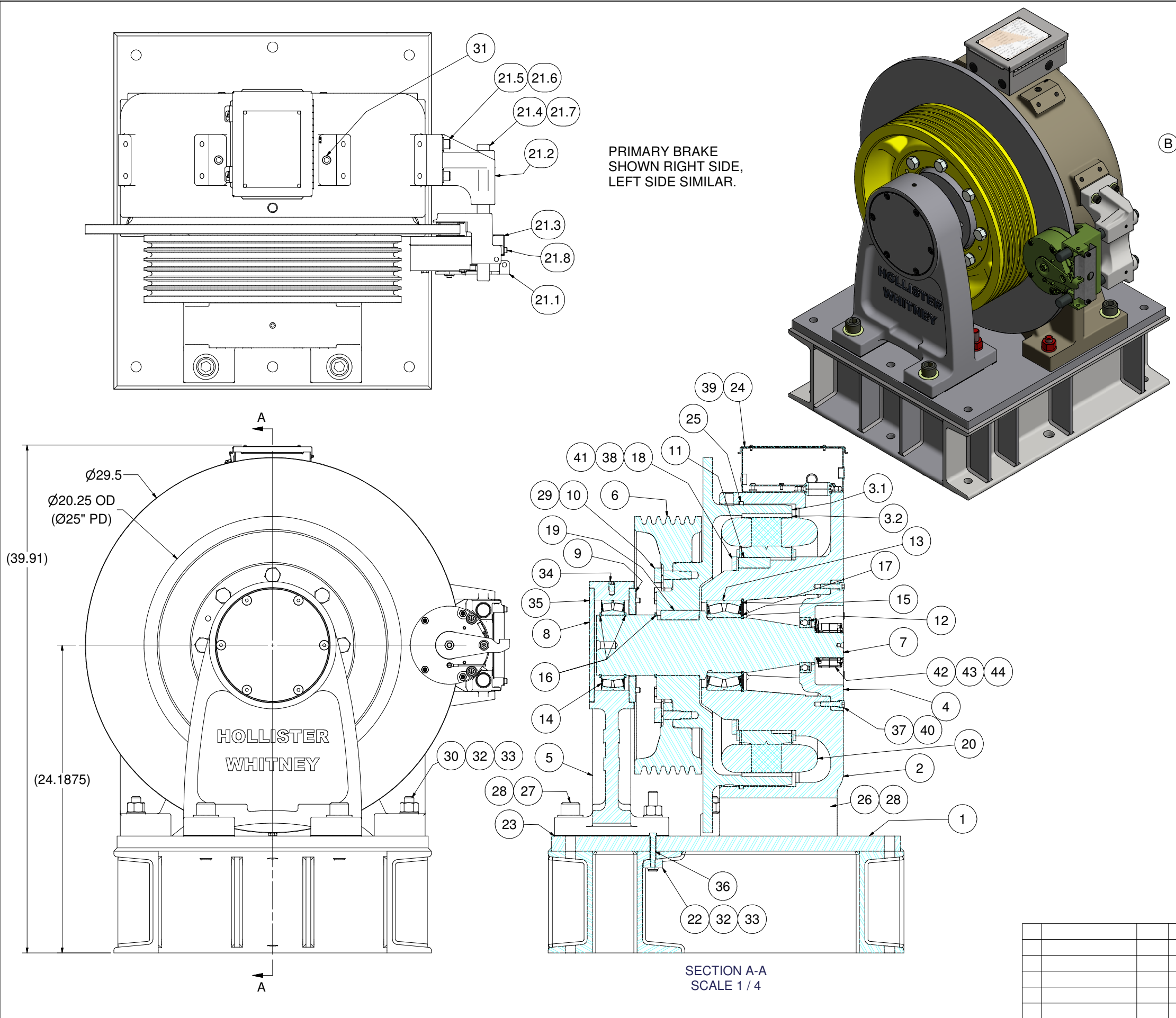


Weight: 2595.43 lbmass

**HOLLISTER-WHITNEY**  
ELEVATOR CO.  
TITLE GEARLESS MACHINE W/622, 2000# MAX  
CAP. 1:1 ROPED

|            |       |                |                                                                                                  |
|------------|-------|----------------|--------------------------------------------------------------------------------------------------|
| DRAWN BY   | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                                 |
| LTL        | NA    | SEE PARTS LIST | 1 PLACE ±0.01, 2 PLACE ±0.005<br>3&4 PLACE ±0.001, ANGLES ±0.1°<br>REF. OPEN, (NOMINAL) ± 0.0156 |
| SHEET SIZE | D     | DATE 9/28/2012 | GL171-622                                                                                        |

SEE OTHER SIDE FOR REVISIONS



| ITEM | QTY     | PART NUMBER              | DESCRIPTION                                     |
|------|---------|--------------------------|-------------------------------------------------|
| 1    | 1       | GL101BS-01               | FINISHING BASE, BASEMENT SET, GL101             |
| 2    | 1       | GL100-001                | BASE HOUSING, MOTOR #GL100                      |
| 3    | 1       | GL101-002                | ROTOR ASSEMBLY, MOTOR #GL101                    |
| 3.1  | 1       | GL101-004                | ROTOR                                           |
|      | 28      | GL100-099                | PERMANENT MAGNET - MOTOR #GL100                 |
| 4    | 1       | GL260-005                | BEARING CAP                                     |
| 5    | 1       | GL171-006                | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1       | GL100-010                | 20" SHEAVE, 6 x 1/2" ROPE MAX                   |
| 7    | 1       | GL101-018                | MAIN SHAFT                                      |
| 8    | 1       | GL185-019                | END CAP                                         |
| 9    | 1       | GL171-020                | BEARING END CAP                                 |
| 10   | 8       | GL100-073                | BODY BOLT                                       |
| 11   | 1       | GL100-088                | KEY - STATOR CORE TO BASE                       |
| 12   | 1       | GL185-089                | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1       | GL100-090                | Bearings, Sealed Spherical Roller               |
| 14   | 1       | GL185-090                | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 1       | GL100-092                | RETAINING RING - SHAFT                          |
| 16   | 3       | GL130-092                | RETAINING RING - SHAFT                          |
| 17   | 1       | GL100-093                | RETAINING RING - HOUSING                        |
| 18   | 1       | GL100-094                | CLAMP RING - STATOR ASSEMBLY                    |
| 19   | 1       | GL100-095                | KEY - ROTOR TO SHAFT                            |
| 20   | 1       | GL100-100                | WINDING ASSEMBLY                                |
| 21   | 1       | GL100-146                | DISC BRAKE (MAYR #6) - MRL                      |
| 21.1 | 1       | GL100-146-115            | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC)   |
| 21.2 | 1       | 142-001                  | BRAKE BASE                                      |
| 21.3 | 1       | 146-003                  | COVER - MAYR #6 ELECTRICAL                      |
| 21.4 | 2       | 142-012                  | BRAKE ROD                                       |
| 21.5 | 4       | 1/2-13 UNC x 2           | SOCKET HEAD CAP SCREW                           |
| 21.6 | 4       | 1/2" WASHER              | STANDARD WASHER                                 |
| 21.7 | 2       | 3/8-16 UNC x 0.375       | SET SCREW                                       |
| 21.8 | 2       | M6 x 1.00 x 8mm          | SHCS - Metric                                   |
| 22   | 1       | GL171BS-156-5            | SHIPPING BOLT                                   |
| 23   | AS NEC. | GL171-157-05             | OUTBOARD STAND SHIM STOCK - 0.005"              |
|      |         | GL171-157-10             | OUTBOARD STAND SHIM - 0.010"                    |
|      |         | GL171-157-31             | OUTBOARD STAND SHIM STOCK - 0.031"              |
| 24   | 1       | GL100-159                | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |
| 25   | 1       | GL100-165                | FELT DUST SEAL                                  |
| 26   | 2       | 1 - 8 UNC x 4            | SOCKET HEAD CAP SCREW                           |
| 27   | 2       | 1 - 8 UNC x 3.5          | SOCKET HEAD CAP SCREW                           |
| 28   | 4       | 1" WASHER                | SAE WASHER                                      |
| 29   | 8       | M18 LOCKWASHER - DIN1278 | BODY BOLT LOCK WASHER                           |
| 30   | 2       | 3/4-10 X 5               | HEX HEAD BOLT                                   |
| 31   | 2       | 3/4-10 UNCx0.875         | HALF DOG SET SCREW                              |
| 32   | 4       | 3/4 - 10 UNC             | HEAVY HEX NUT                                   |
| 33   | 6       | 3/4 WASHER               | SAE WASHER                                      |
| 34   | 1       | 1/2-13 UNCx0.75          | HALF DOG SET SCREW                              |
| 35   | 6       | 3/8-16 UNC x 4           | FLAT HEAD CAP SCREWS                            |
| 36   | 1       | 3/8-16 X 2.5"            | HEX HEAD BOLT                                   |
| 37   | 6       | 3/8 - 16 UNC x 1.5       | SOCKET HEAD CAP SCREW                           |
| 38   | 6       | 3/8 - 16 UNC x 1         | SOCKET HEAD CAP SCREW                           |
| 39   | 4       | 3/8 - 16 UNC x 0.625     | WHIZ BOLT                                       |
| 40   | 6       | 0.375 WASHER             | CAP SCREW LOCK WASHER                           |
| 41   | 6       | 3/8 WASHER               | STANDARD LOCK                                   |
| 42   | 1       | ECN 113 52810061         | 50mm HEIDENHAIN ENCODER                         |
| 43   | 4       | #8-32 x 1/4              | SOCKET HEAD CAP SCREW                           |
| 44   | 4       | #8 WASHER                | INT. TOOTH LOCKWASHER                           |

| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                             |                        |               |                     |
|-------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) |
| GL101-15L                           | GL100-170-150 | 87.2                        | 100                    | 170           | 76.4                |
| GL101-15H                           | GL100-360-150 | 87.1                        | 100                    | 360           | 76.4                |
| GL101-20L                           | GL100-170-200 | 89.2                        | 100                    | 170           | 101.9               |
| GL101-20H                           | GL100-360-200 | 89.3                        | 100                    | 360           | 101.9               |

Weight: 2015.45 lbmass

HOLLISTER-WHITNEY

ELEVATOR CO.

TITLE

GEARLESS MACHINE, 1100# @ 50% CB,  
1000# @ 45% CB, 900# @ 40% CB

DRAWN BY

LTL

SCALE

NA

MATERIAL

SEE PARTS LIST

DIMENSIONAL TOL.

1 PLACE ±0.01, 2 PLACE ±0.005  
3/4 PLACE ±0.001, ANGLES ±0.1°  
REF. - OPEN, (NOMINAL) ± 0.0156

DATE

5/21/2014

GL101BS

B

GL185-019 WAS GL171-019,  
PUR #788

LTL

6/23/16

A

PRODUCTION RELEASE,  
PUR #719

LTL

8/31/15

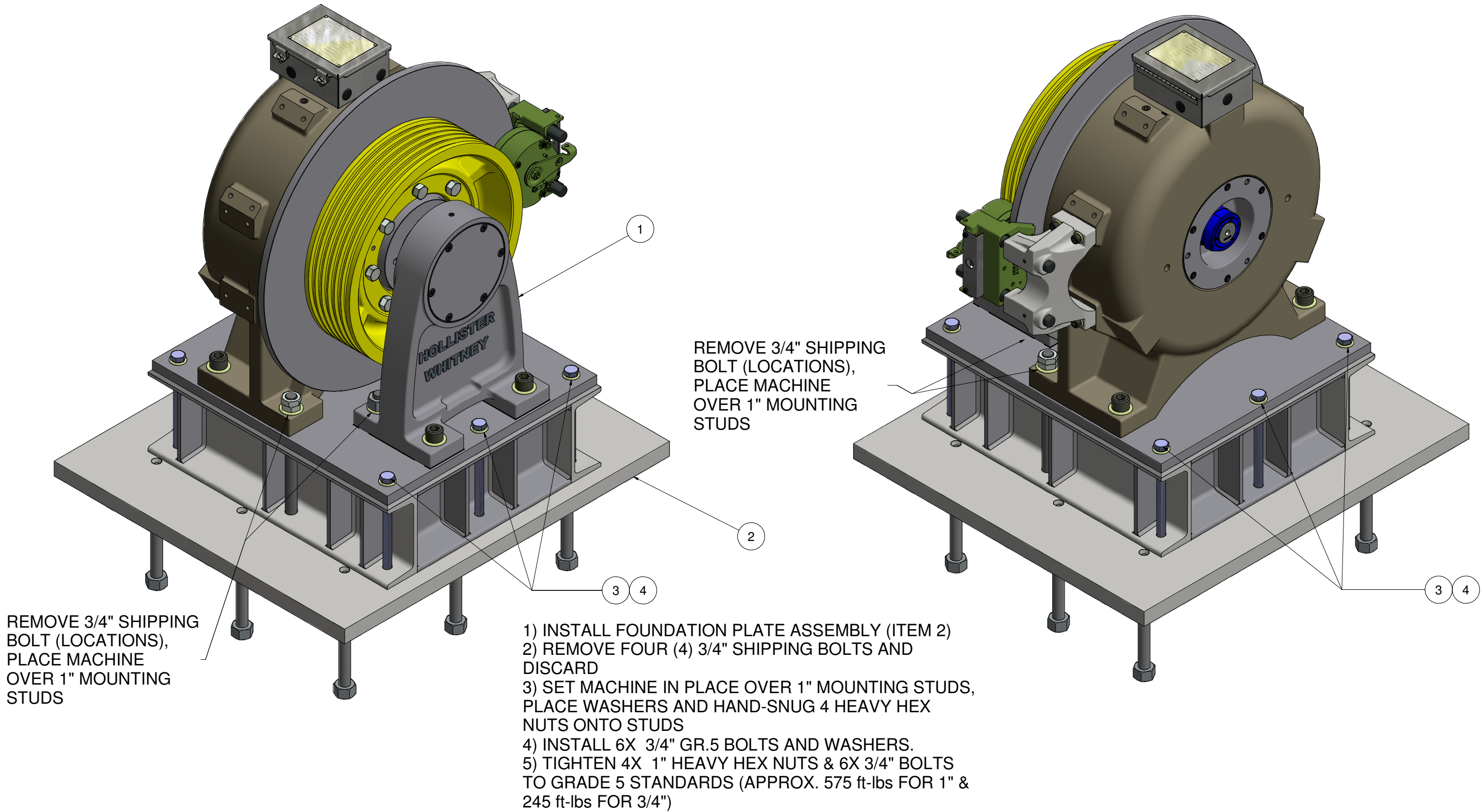
SHEET SIZE

D



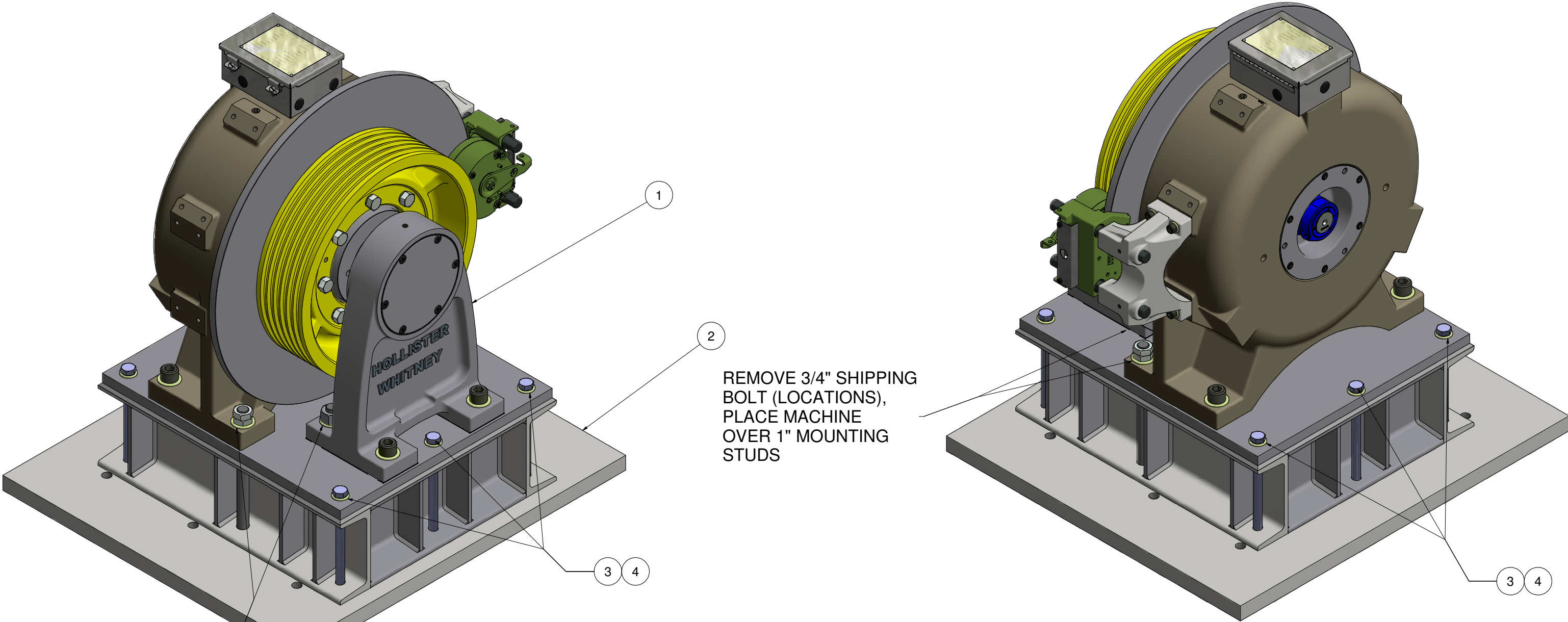
| Parts List |     |                 |                                                                 |                 |
|------------|-----|-----------------|-----------------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                                     | MASS            |
| 1          | 1   | GL101BS         | GEARLESS MACHINE, 1100# @ 50% CB, 1000# @ 45% CB, 900# @ 40% CB | 2008.335 lbmass |
| 2          | 1   | GL101BS-156     | FOUNDATION PLATE ASSEMBLY - GL101 BASEMENT SET                  | 586.322 lbmass  |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                                   | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                                      | 0.045 lbmass    |

SUPPLIED FOUNDATION PLATE FOR  
NEW-POUR



| Parts List |     |                 |                                                                 |                 |
|------------|-----|-----------------|-----------------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                                     | MASS            |
| 1          | 1   | GL101BS         | GEARLESS MACHINE, 1100# @ 50% CB, 1000# @ 45% CB, 900# @ 40% CB | 2008.335 lbmass |
| 2          | 1   | GL101BS-156A    | FOUNDATION PLATE ASSEMBLY - GL101 BASEMENT SET                  | 560.484 lbmass  |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                                   | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                                      | 0.045 lbmass    |

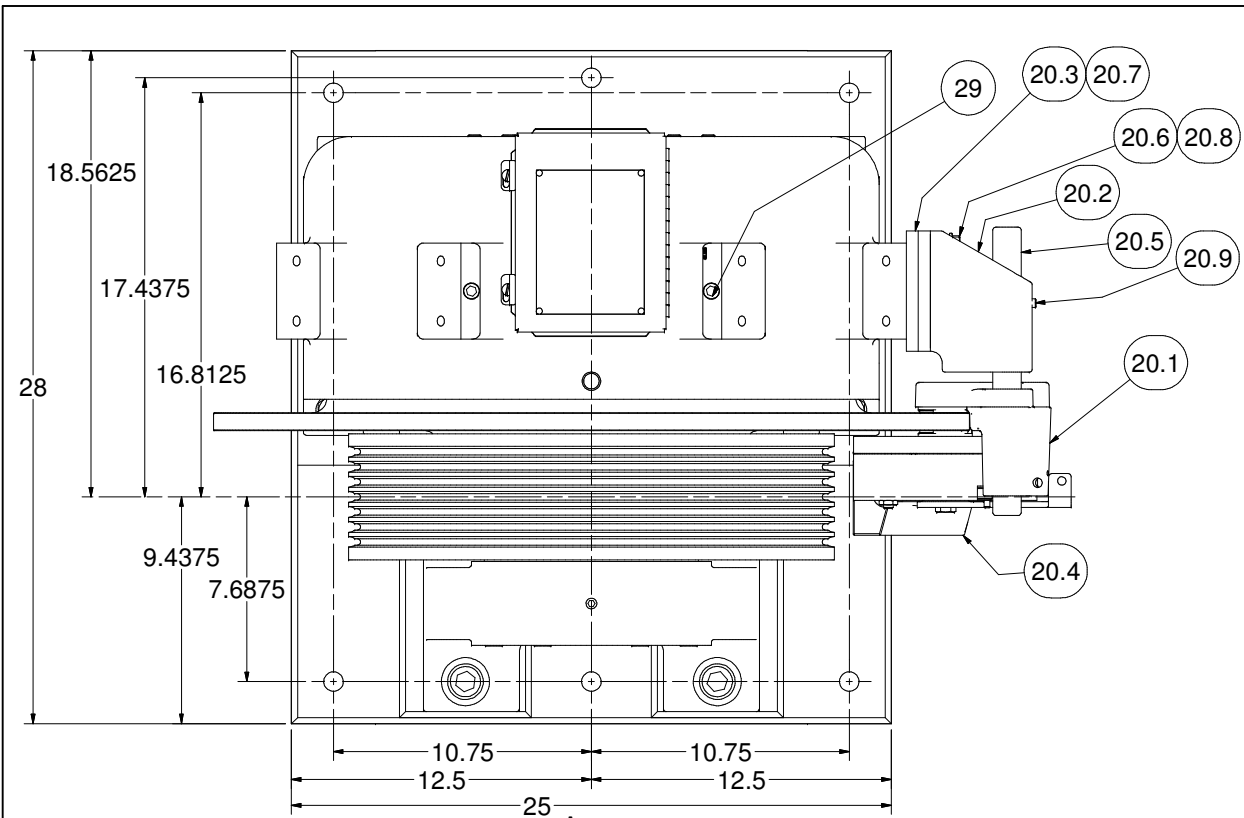
SUPPLIED FOUNDATION PLATE FOR  
SECURING TO EXISTING STRUCTURE



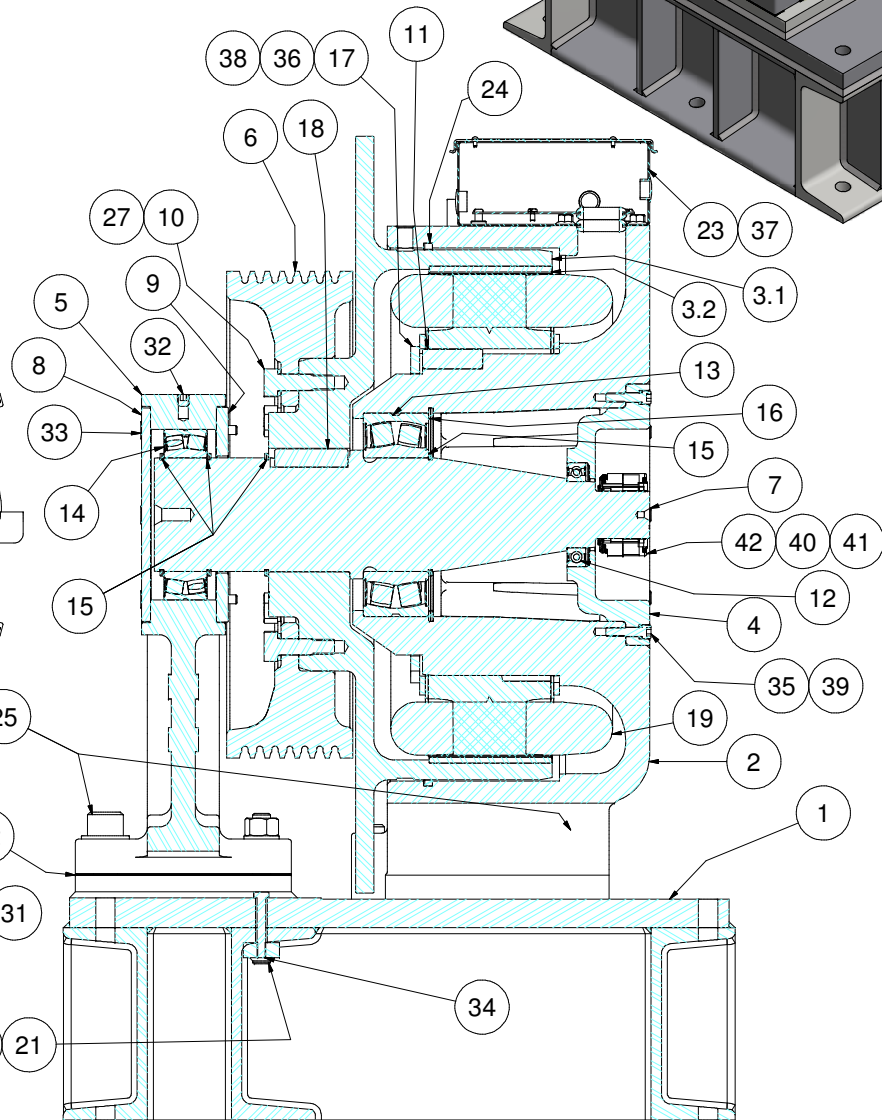
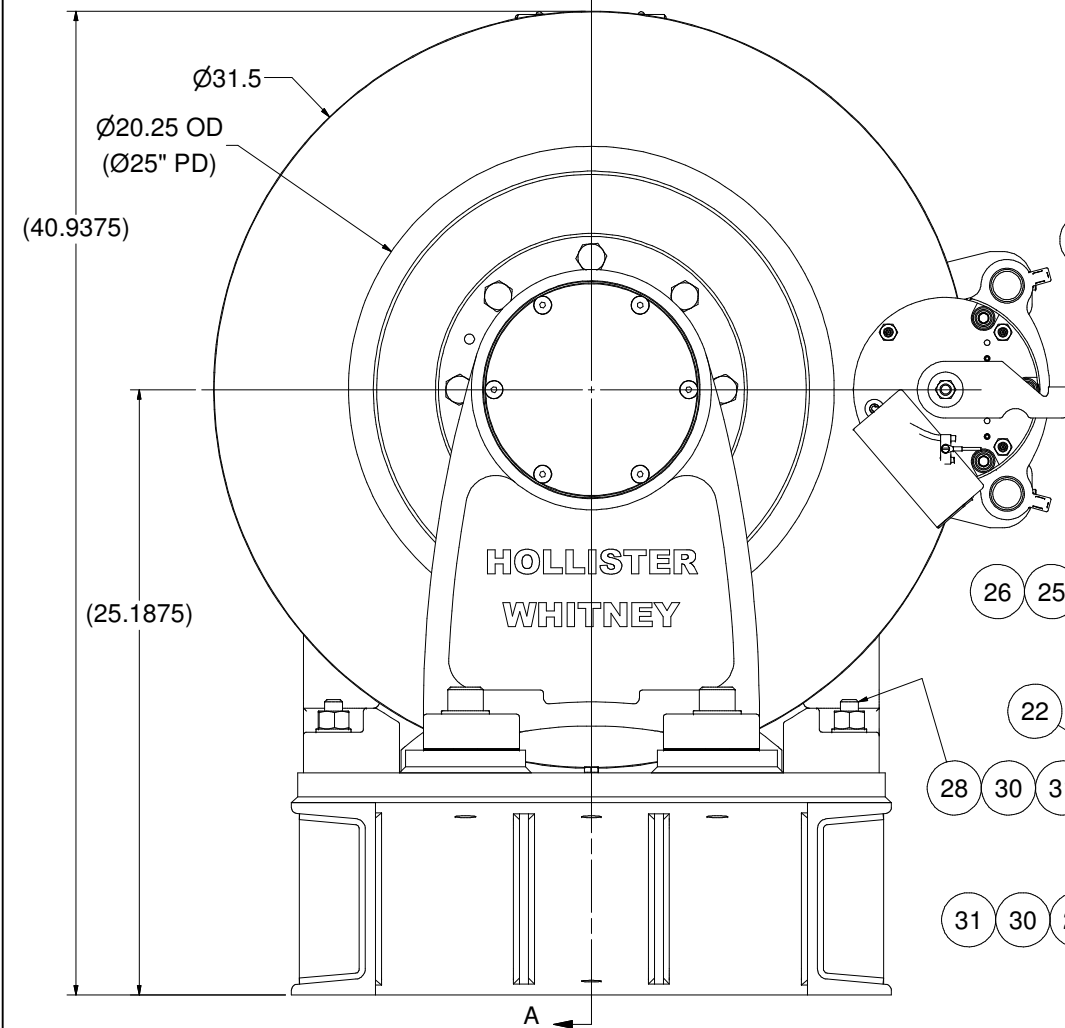
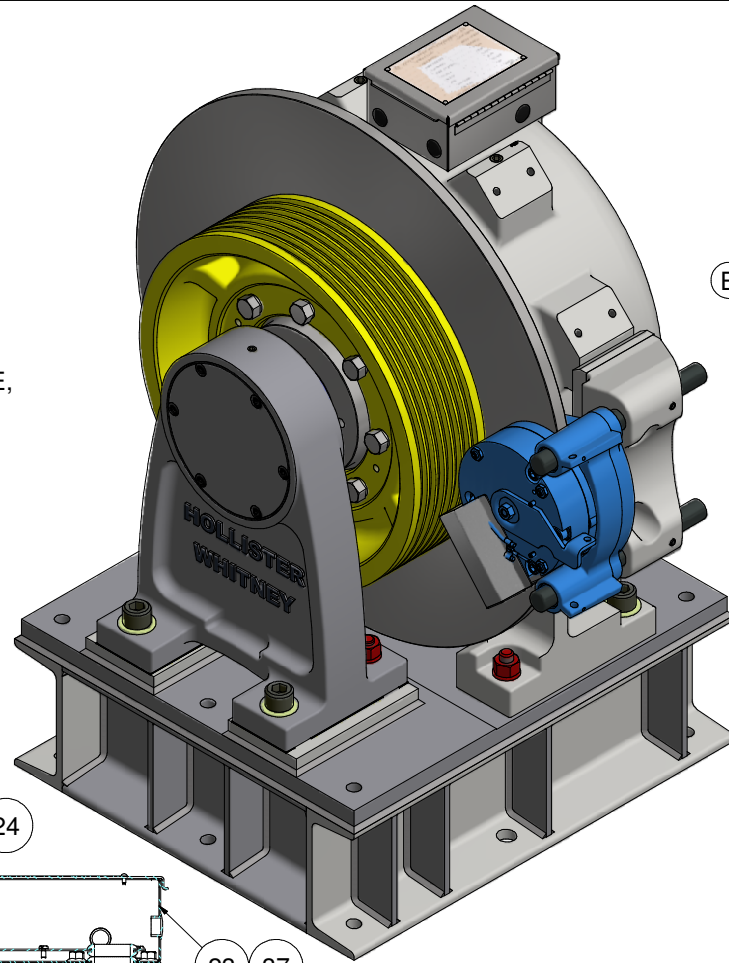
REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE FOUR (4) 3/4" SHIPPING BOLTS AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")





PRIMARY BRAKE  
SHOWN RIGHT SIDE,  
LEFT SIDE SIMILAR.



| ITEM | QTY     | PART NUMBER             | DESCRIPTION                                     |
|------|---------|-------------------------|-------------------------------------------------|
| 1    | 1       | GL171BS-01              | FINISHING BASE, BASEMENT SET, GL131 & GL171     |
| 2    | 1       | GL130-001               | BASE HOUSING, MOTOR #GL130                      |
| 3    | 1       | GL131-002               | ROTOR ASSEMBLY, MOTOR #GL131                    |
| 3.1  | 1       | GL131-004               | ROTOR                                           |
| 3.2  | 28      | GL130-099               | PERMANENT MAGNET - MOTOR #GL130                 |
| 4    | 1       | GL130A-005              | BEARING CAP                                     |
| 5    | 1       | GL171-006               | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1       | GL100-010               | 20" TRACTION SHEAVE (WIDE)                      |
| 7    | 1       | GL131-018               | MAIN SHAFT                                      |
| 8    | 1       | GL185-019               | END CAP                                         |
| 9    | 1       | GL171-020               | BEARING END CAP                                 |
| 10   | 8       | GL100-073               | BODY BOLT                                       |
| 11   | 1       | GL100-088               | KEY - STATOR CORE TO BASE                       |
| 12   | 1       | GL185-089               | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1       | GL130-090               | SEALED SPHERICAL ROLLER BEARING                 |
| 14   | 1       | GL185-090               | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 4       | GL130-092               | RETAINING RING - SHAFT                          |
| 16   | 1       | GL130-093               | RETAINING RING - HOUSING                        |
| 17   | 1       | GL100-094               | CLAMP RING - STATOR ASSEMBLY                    |
| 18   | 1       | GL100-095               | KEY - ROTOR TO SHAFT                            |
| 19   | 1       | GL130-100               | WINDING ASSEMBLY - 28 POLE                      |
| 20   | 1       | GL130-144               | DISC BRAKE (MAYR #8) - MRL                      |
| 20.1 | 1       | GL130-144-115           | MAYR #8; RSD8 510 03 52V8211833                 |
| 20.2 | 1       | 144-001                 | BRAKE BASE                                      |
| 20.3 | 1       | 144-002                 | ADAPTOR PLATE - BRAKE BASE                      |
| 20.4 | 1       | 144-003                 | COVER - MAYR #8 ELECTRICAL                      |
| 20.5 | 2       | 144-012                 | BRAKE ROD                                       |
| 20.6 | 4       | 1/2 - 13 UNC x 1.75     | HEX HEAD CAP SCREW                              |
| 20.7 | 4       | 1/2 - 13 UNC x 1.5      | Hexagon Socket Flat Countersunk Head Cap Screw  |
| 20.8 | 4       | 1/2" WASHER             | STANDARD WASHER                                 |
| 20.9 | 2       | 3/8-16 UNC x 0.625      | Hexagon Socket Set Screw - Flat Point           |
| 21   | 1       | GL171BS-156-5           | SHIPPING BOLT                                   |
| 22   | As Nec. | GL171-157-05            | OUTBOARD STAND SHIM - 0.005"                    |
|      |         | GL171-157-10            | OUTBOARD STAND SHIM - 0.010"                    |
|      |         | GL171-157-31            | OUTBOARD STAND SHIM - 0.031"                    |
| 23   | 1       | GL100-159               | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED |
| 24   | 1       | GL100-165               | FELT DUST SEAL                                  |
| 25   | 4       | 1 - 8 UNC x 3.5"        | SOCKET HEAD CAP SCREW                           |
| 26   | 4       | 1" WASHER               | SAE WASHER                                      |
| 27   | 8       | M18 LOCKWASHER-DIN 127B | HELICAL SPRING LOCK WASHER - BODY BOLT          |
| 28   | 2       | 3/4-10 X 5"             | HEX HEAD BOLT                                   |
| 29   | 2       | 3/4-10 UNCx0.75         | HALF DOG SET SCREW                              |
| 30   | 4       | 3/4 - 10 UNC            | HEAVY HEX NUT                                   |
| 31   | 6       | 3/4 WASHER              | SAE WASHER                                      |
| 32   | 1       | 1/2-13 UNCx0.5          | HALF DOG SET SCREW                              |
| 33   | 6       | 3/8-16 UNC x 4          | FLAT HEAD CAP SCREWS                            |
| 34   | 1       | 3/8-16 X 2.5"           | HEX HEAD BOLT                                   |
| 35   | 8       | 3/8 - 16 UNC x 1.5      | SOCKET HEAD CAP SCREW                           |
| 36   | 6       | 3/8 - 16 UNC x 1        | SOCKET HEAD CAP SCREW                           |
| 37   | 4       | 3/8 - 16 UNC x 0.625"   | WHIZ BOLT                                       |
| 38   | 6       | 3/8 WASHER              | STANDARD LOCK                                   |
| 39   | 8       | 0.375 WASHER            | CAP SCREW LOCK WASHER                           |
| 40   | 4       | #8-32 x 1/4"            | SOCKET HEAD CAP SCREW                           |
| 41   | 4       | #8 WASHER               | INT. TOOTH LOCKWASHER                           |
| 42   | 1       | ECN 113 52810061        | 50mm HEIDENHAIN ENCODER                         |

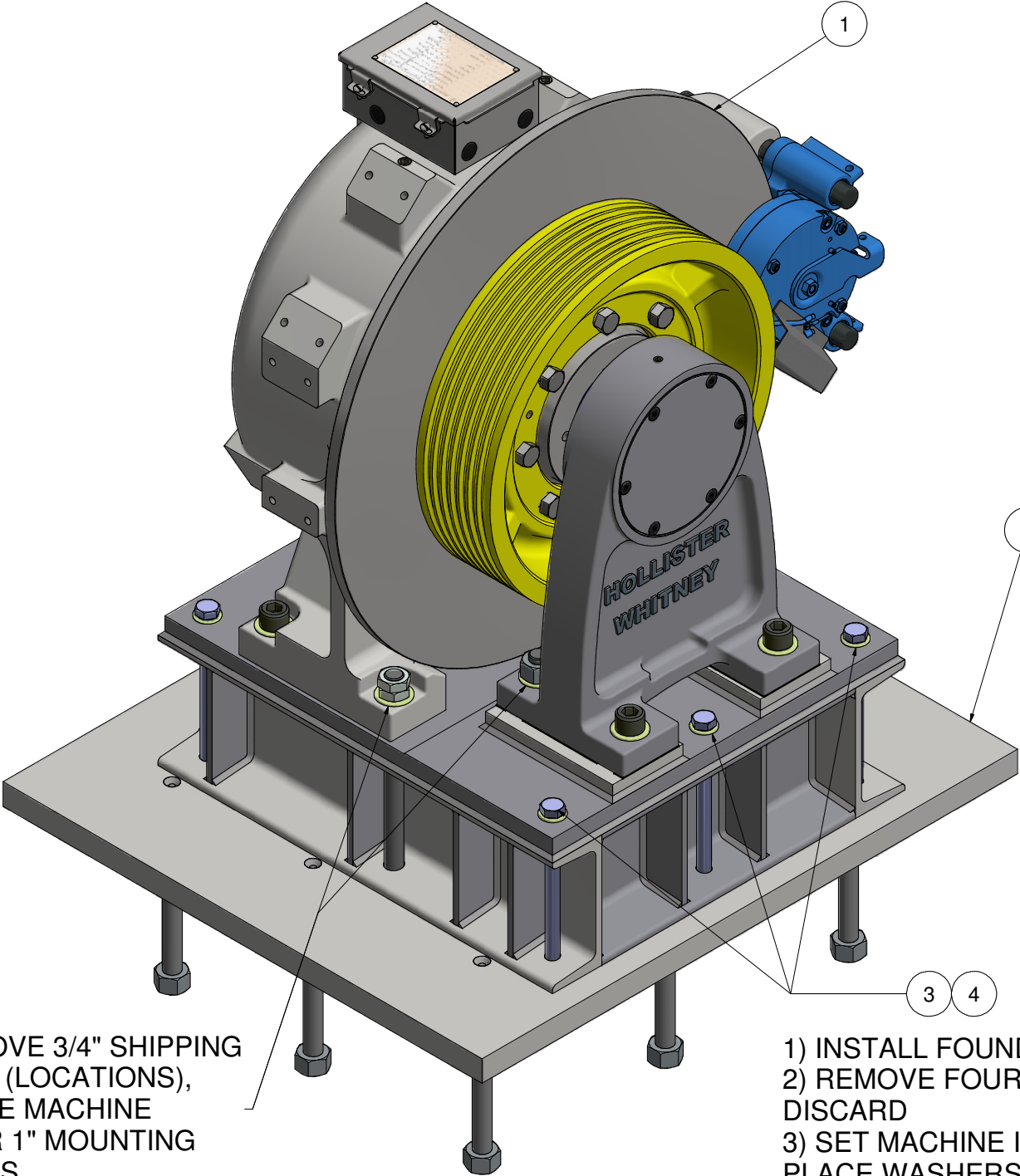
| 1:1 APPLICATIONS USING 2:1 WINDINGS |               |                             |                        |               |                     |
|-------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|
| MACHINE #                           | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) |
| GL131-20L                           | GL130-170-200 | 90.6                        | 130                    | 170           | 101.9               |
| GL131-20H                           | GL130-360-200 | 90.7                        | 130                    | 360           | 101.9               |
| GL131-35L                           | GL130-170-350 | 93.1                        | 130                    | 170           | 178.3               |
| GL131-35H                           | GL130-360-350 | 93                          | 130                    | 360           | 178.3               |

|                                                                       |                                   |     |         |            |    |
|-----------------------------------------------------------------------|-----------------------------------|-----|---------|------------|----|
| Weight: 2299.55 lbmass                                                |                                   |     |         |            |    |
| HOLLISTER-WHITNEY                                                     |                                   |     |         |            |    |
| ELEVATOR CO.                                                          |                                   |     |         |            |    |
| TITLE GEARLESS MACHINE, 1500 @ 50%, 1350 @ 45%, 1250 @ 40%; 1:1 ROPED |                                   |     |         |            |    |
| B                                                                     | GL185-019 WAS GL171-019, PUR #788 | LTL | 6/23/16 | LTL        | NA |
|                                                                       |                                   |     |         |            |    |
| A                                                                     | PRODUCTION RELEASE, PUR #719      | LTL | 8/31/15 | SHEET SIZE | D  |
| DATE 8/28/2015                                                        |                                   |     |         | GL131BS    |    |



| Parts List |     |                 |                                                                           |                 |
|------------|-----|-----------------|---------------------------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                                               | MASS            |
| 1          | 1   | GL131BS         | GEARLESS MACHINE, 1500# @ 50% CB, 1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED | 2292.441 lbmass |
| 2          | 1   | GL171-BS-156    | FOUNDATION PLATE ASSEMBLY - GL131 & GL171 BASEMENT SET                    | 586.768 lbmass  |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                                             | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                                                | 0.045 lbmass    |

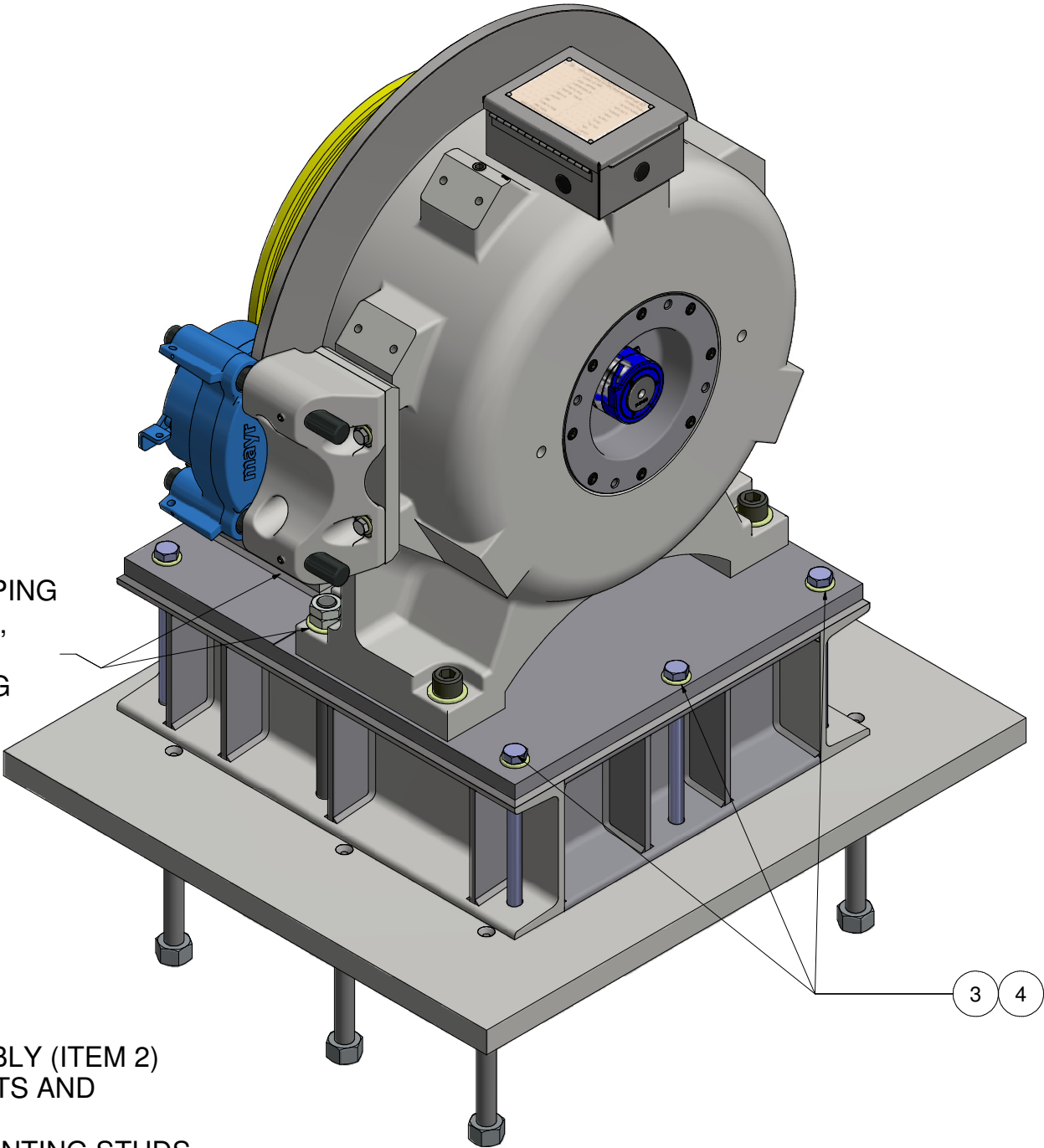
SUPPLIED FOUNDATION PLATE FOR  
NEW-POUR



REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

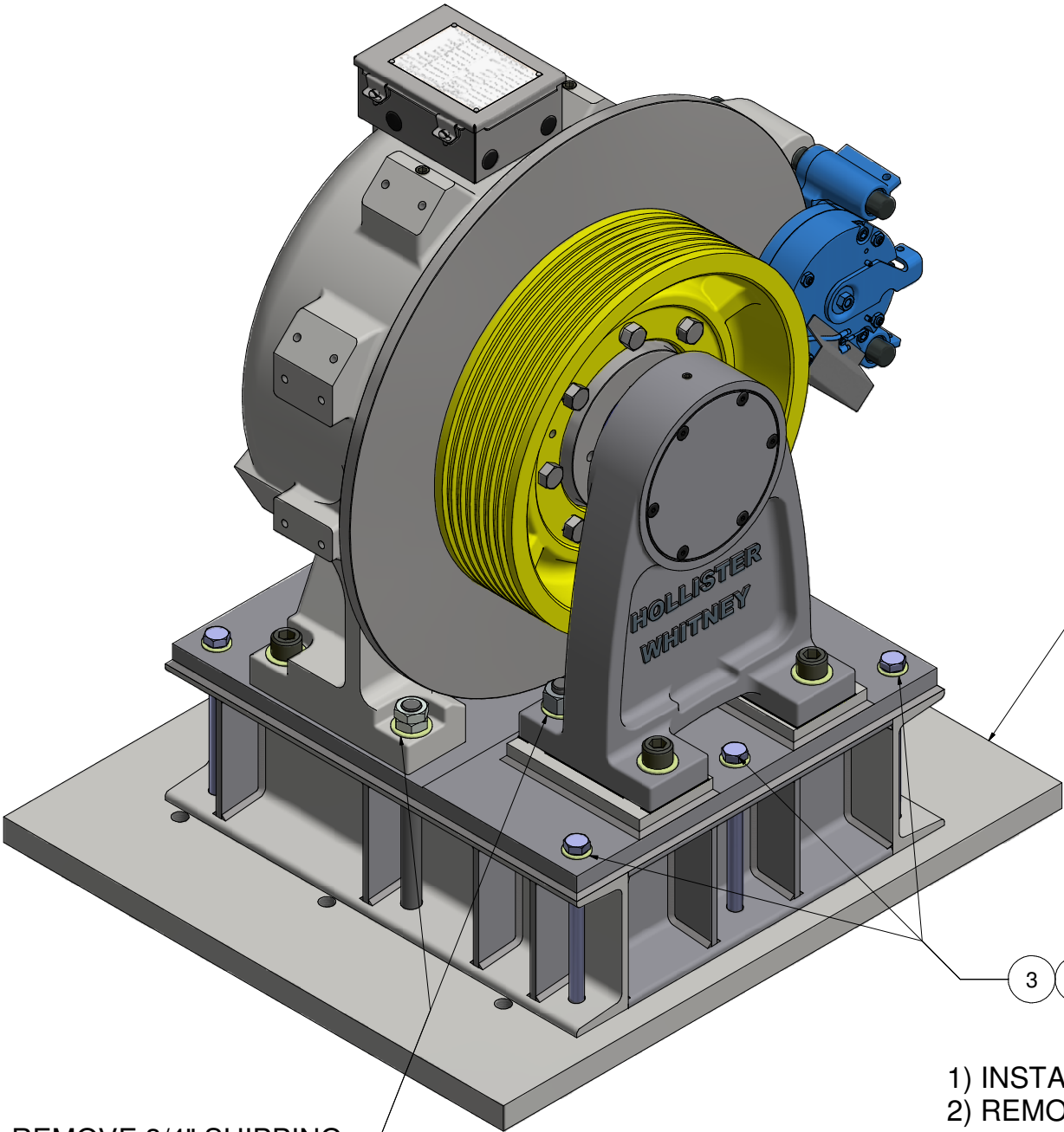
- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE FOUR (4) 3/4" SHIPPING BOLTS AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



3 4

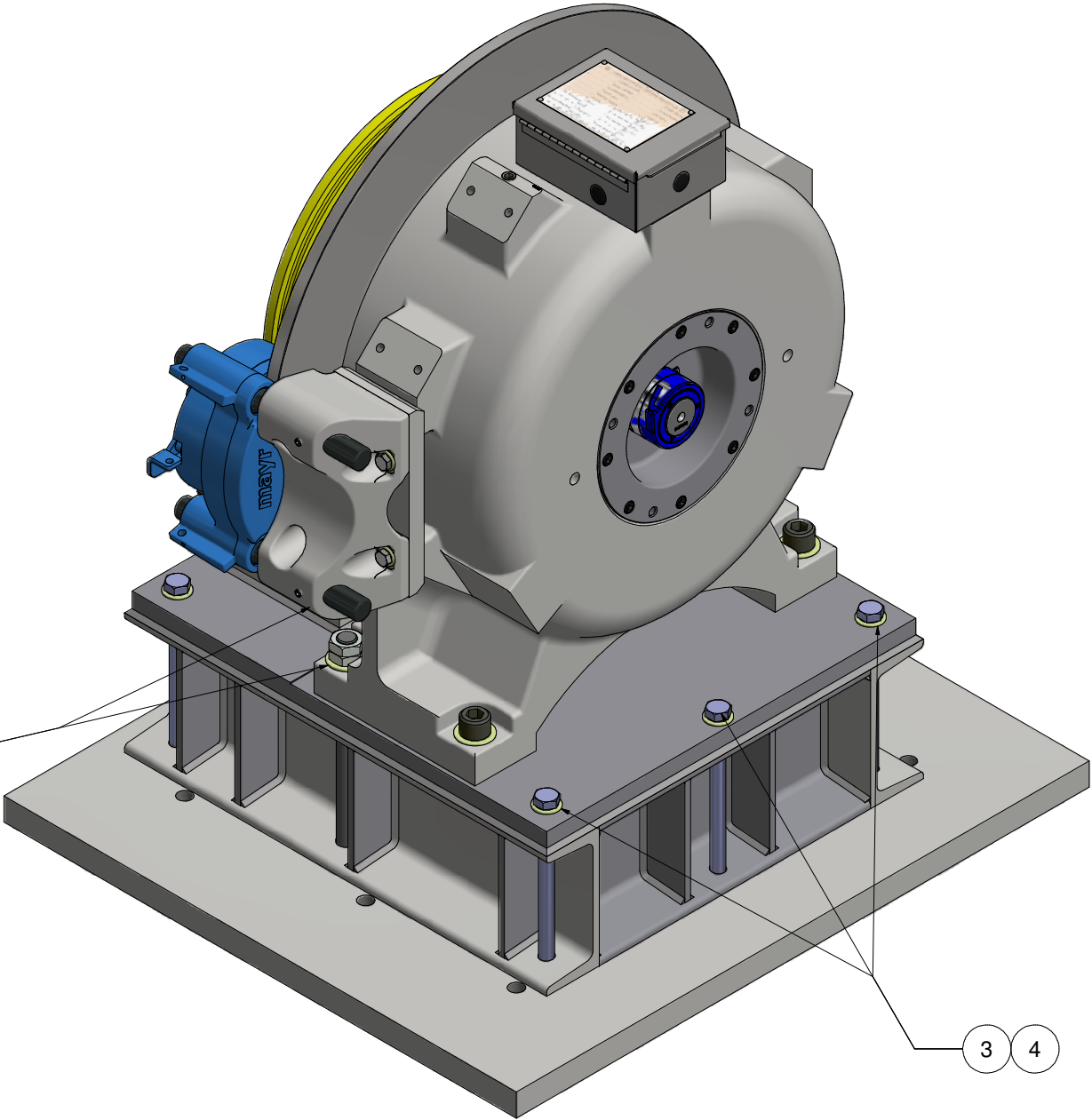
| Parts List |     |                 |                                                                           |                 |
|------------|-----|-----------------|---------------------------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                                               | MASS            |
| 1          | 1   | GL131BS         | GEARLESS MACHINE, 1500# @ 50% CB, 1350# @ 45% CB, 1250 @ 40% CB 1:1 ROPED | 2292.441 lbmass |
| 2          | 1   | GL171BS-156A    | FOUNDATION PLATE ASSEMBLY - GL131 & GL171 BASEMENT SET                    | 560.930 lbmass  |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                                             | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                                                | 0.045 lbmass    |

SUPPLIED FOUNDATION PLATE FOR  
SECURING TO EXISTING STRUCTURE



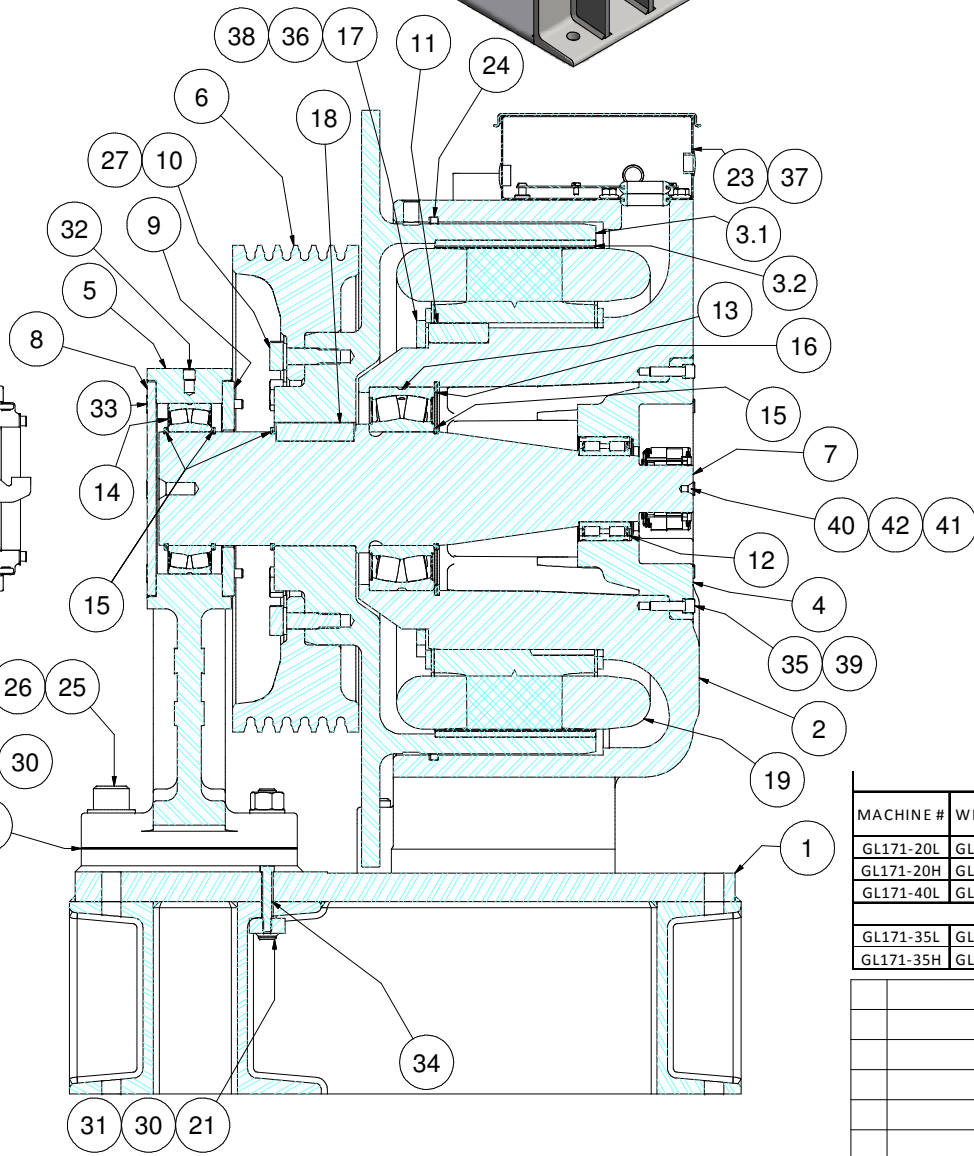
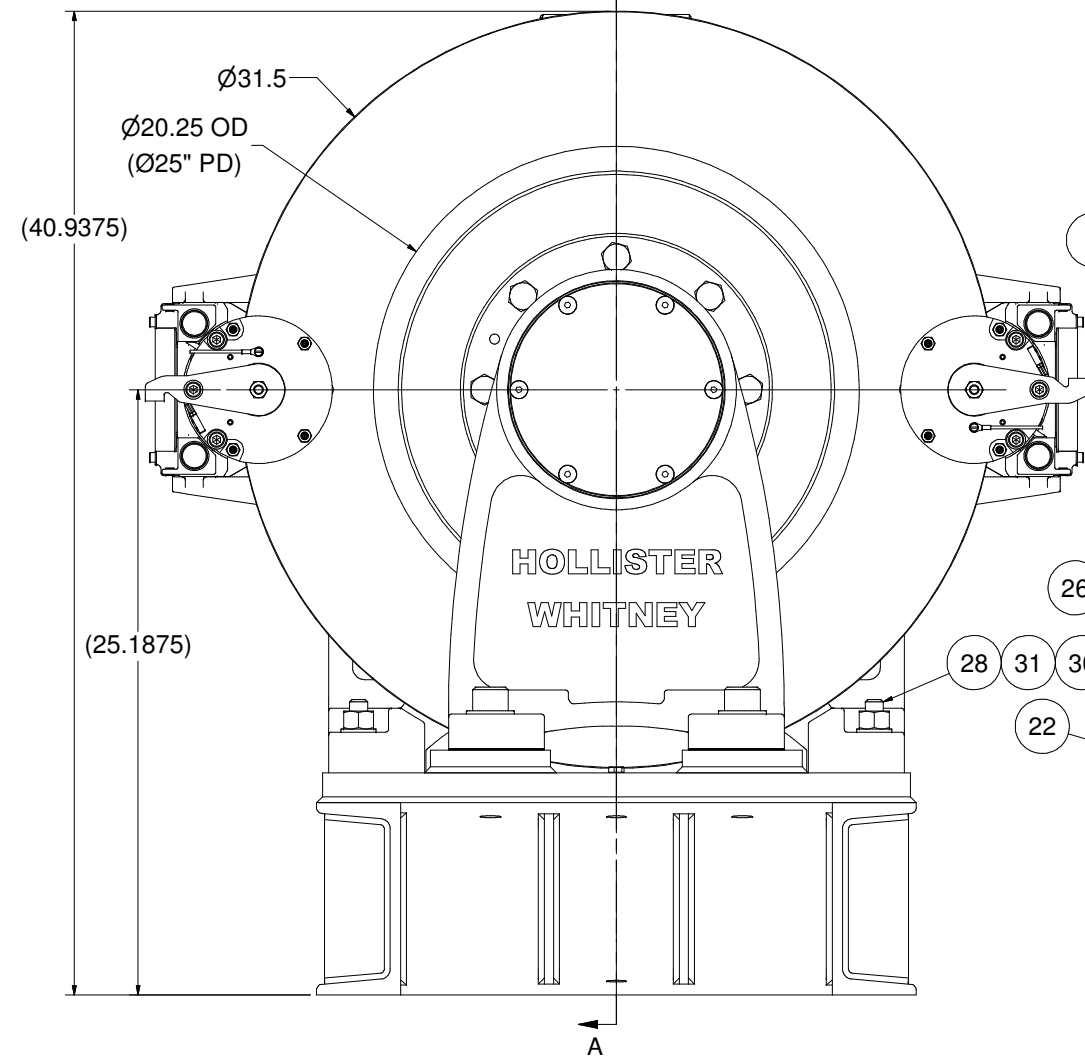
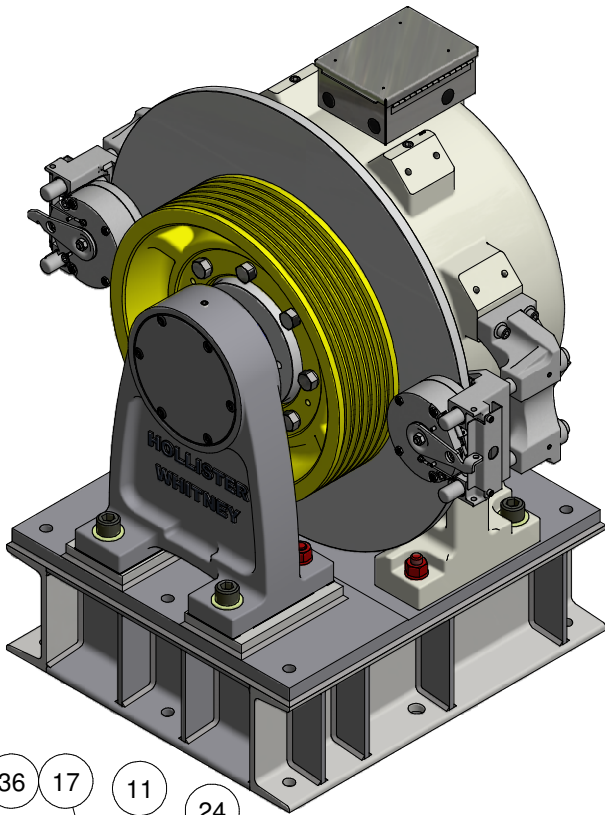
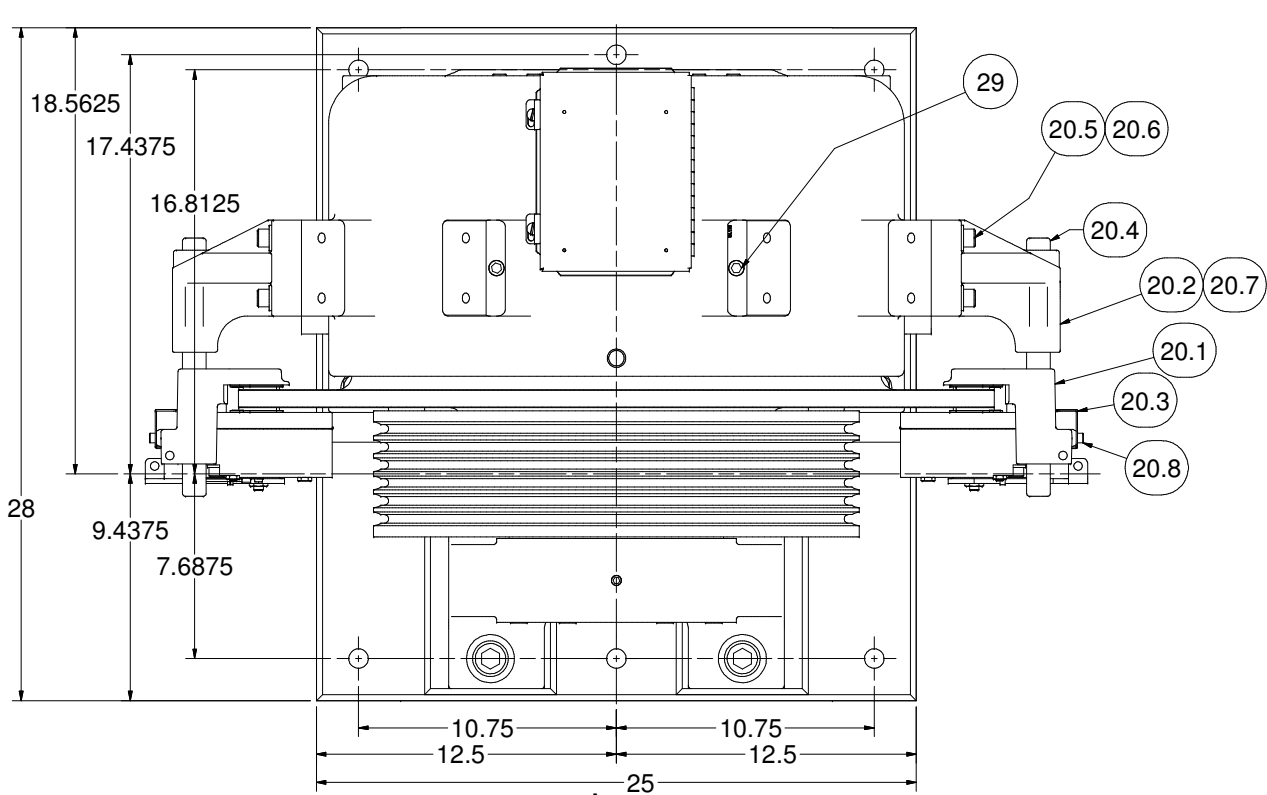
REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS



- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE FOUR (4) 3/4" SHIPPING BOLTS AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")





| ITEM | QTY     | PART NUMBER                 | DESCRIPTION                                        |
|------|---------|-----------------------------|----------------------------------------------------|
| 1    | 1       | GL171BS-01                  | FINISHING BASE, BASEMENT SET, GL131 & GL171        |
| 2    | 1       | GL170-001                   | BASE HOUSING, MOTOR #GL170                         |
| 3    | 1       | GL171-002                   | ROTOR ASSEMBLY, MOTOR #GL171                       |
| 3.1  | 1       | GL171-004                   | ROTOR                                              |
|      | 28      | GL170-099                   | PERMANENT MAGNET - MOTOR #GL170                    |
|      | 1       | GL130-005                   | BEARING CAP                                        |
| 4    | 1       | GL171-006                   | OUTBOARD STAND, AC GEARLESS                        |
| 5    | 1       | GL100-010                   | 20" TRACTION SHEAVE, 6 x 1/2" or 7 x 3/8" ROPE MAX |
| 6    | 1       | GL171-018                   | MAIN SHAFT                                         |
| 7    | 1       | GL185-019                   | END CAP                                            |
| 8    | 1       | GL171-020                   | BEARING END CAP                                    |
| 9    | 1       | GL100-073                   | BODY BOLT                                          |
| 10   | 8       | GL100-088                   | KEY - STATOR CORE TO BASE                          |
| 11   | 1       | GL100-089                   | Bearing, Sealed Double Row Cylindrical Roller      |
| 12   | 1       | GL130-090                   | SEALED SPHERICAL ROLLER BEARING                    |
| 13   | 1       | GL185-090                   | BEARING, SEALED SPHERICAL ROLLER                   |
| 14   | 1       | GL130-092                   | RETAINING RING - SHAFT                             |
| 15   | 4       | GL130-093                   | RETAINING RING - HOUSING                           |
| 16   | 1       | GL100-094                   | CLAMP RING - STATOR ASSEMBLY                       |
| 17   | 1       | GL171-095                   | KEY - MAIN SHAFT TO ROTOR                          |
| 18   | 1       | GL171-100                   | WINDING ASSEMBLY - 28 POLE                         |
| 19   | 1       | GL100-146                   | DISC BRAKE (MAYR #6) - MRL                         |
| 20   | 2       | GL100-146-115               | MAYR #6 RSD6 894 510 03 #8211863 (104/52 VDC)      |
| 20.1 | 1       | 142-001                     | BRAKE BASE                                         |
| 20.2 | 1       | 146-003                     | COVER - MAYR #6 ELECTRICAL                         |
| 20.3 | 1       | 142-012                     | BRAKE ROD                                          |
| 20.4 | 2       | 1/2-13 UNC x 2              | SOCKET HEAD CAP SCREW                              |
| 20.5 | 4       | 1/2" WASHER                 | STANDARD WASHER                                    |
| 20.6 | 4       | 3/8-16 UNC x 0.375          | SET SCREW                                          |
| 20.7 | 2       | M6 x 1.00 x 8mm             | SHCS - Metric                                      |
| 20.8 | 2       | GL171BS-156-5               | SHIPPING BOLT                                      |
| 21   | 1       | GL171-157-05                | OUTBOARD STAND SHIM STOCK - 0.005"                 |
| 22   | As Nec. | GL171-157-10                | OUTBOARD STAND SHIM STOCK - 0.010"                 |
|      |         | GL171-157-31                | OUTBOARD STAND SHIM STOCK - 0.031"                 |
|      |         |                             |                                                    |
| 23   | 1       | GL100-159                   | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED    |
| 24   | 1       | GL100-165                   | FELT DUST SEAL                                     |
| 25   | 4       | 1 - 8 UNC x 3.5"            | SOCKET HEAD CAP SCREW                              |
| 26   | 4       | 1" WASHER                   | SAE WASHER                                         |
| 27   | 8       | M18 LOCKWASHER-DIN 127B     | HELICAL SPRING LOCK WASHER - BODY BOLT             |
| 28   | 6       | 3/4 WASHER                  | SAE WASHER                                         |
| 29   | 4       | 3/4 - 10 UNC                | HEAVY HEX NUT                                      |
| 30   | 2       | 3/4-10 X 5"                 | HEX HEAD BOLT                                      |
| 31   | 2       | 3/4-10 UNC x 0.75           | Hexagon Socket Set Screw - Flat Point              |
| 32   | 1       | 1/2-13 UNC x 0.5            | Hexagon Socket Set Screw - Flat Point              |
| 33   | 1       | 3/8-16 X 2.5"               | HEX HEAD BOLT                                      |
| 34   | 6       | 3/8 - 16 UNC - 1 HS HCS     | Hexagon Socket Head Cap Screw                      |
| 35   | 6       | 3/8-16 UNC x 4              | FLAT HEAD CAP SCREWS                               |
| 36   | 6       | 0.375 WASHER                | Helical Spring Lock Washers                        |
| 37   | 4       | 3/8-16 UNC x 0.625          | Hex Flange Screw - Regular Thread - Inch           |
| 38   | 8       | 0.375 WASHER                | CAP SCREW LOCK WASHER                              |
| 39   | 8       | 3/8 - 16 UNC - 1 1/2 HS HCS | Hexagon Socket Head Cap Screw                      |
| 40   | 4       | #8 WASHER                   | INT. TOOTH LOCKWASHER                              |
| 41   | 4       | #8-32 x 1/4"                | SOCKET HEAD CAP SCREW                              |
| 42   | 1       | ECN 113 52810061            | 50mm HEIDENHAIN ENCODER                            |

| 1:1 WINDINGS AS DESIGNED 20" 2000 LBS CAP.                       |               |                             |                        |               |                     |
|------------------------------------------------------------------|---------------|-----------------------------|------------------------|---------------|---------------------|
| MACHINE #                                                        | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (rpm) |
| GL171-20L                                                        | GL171-170-200 | 77                          | 170                    | 170           | 38.2                |
| GL171-20H                                                        | GL171-360-200 | 77                          | 170                    | 360           | 38.2                |
| GL171-40L                                                        | GL171-170-400 | 87                          | 170                    | 170           | 76.4                |
| 2:1 WINDINGS USED IN 1:1 APPLICATIONS (40% CB) 20" 1500 LBS CAP. |               |                             |                        |               |                     |
| GL171-35L                                                        | GL170-170-350 | 93.9                        | 170                    | 170           | 178.3               |
| GL171-35H                                                        | GL170-360-350 | 94                          | 170                    | 360           | 178.3               |

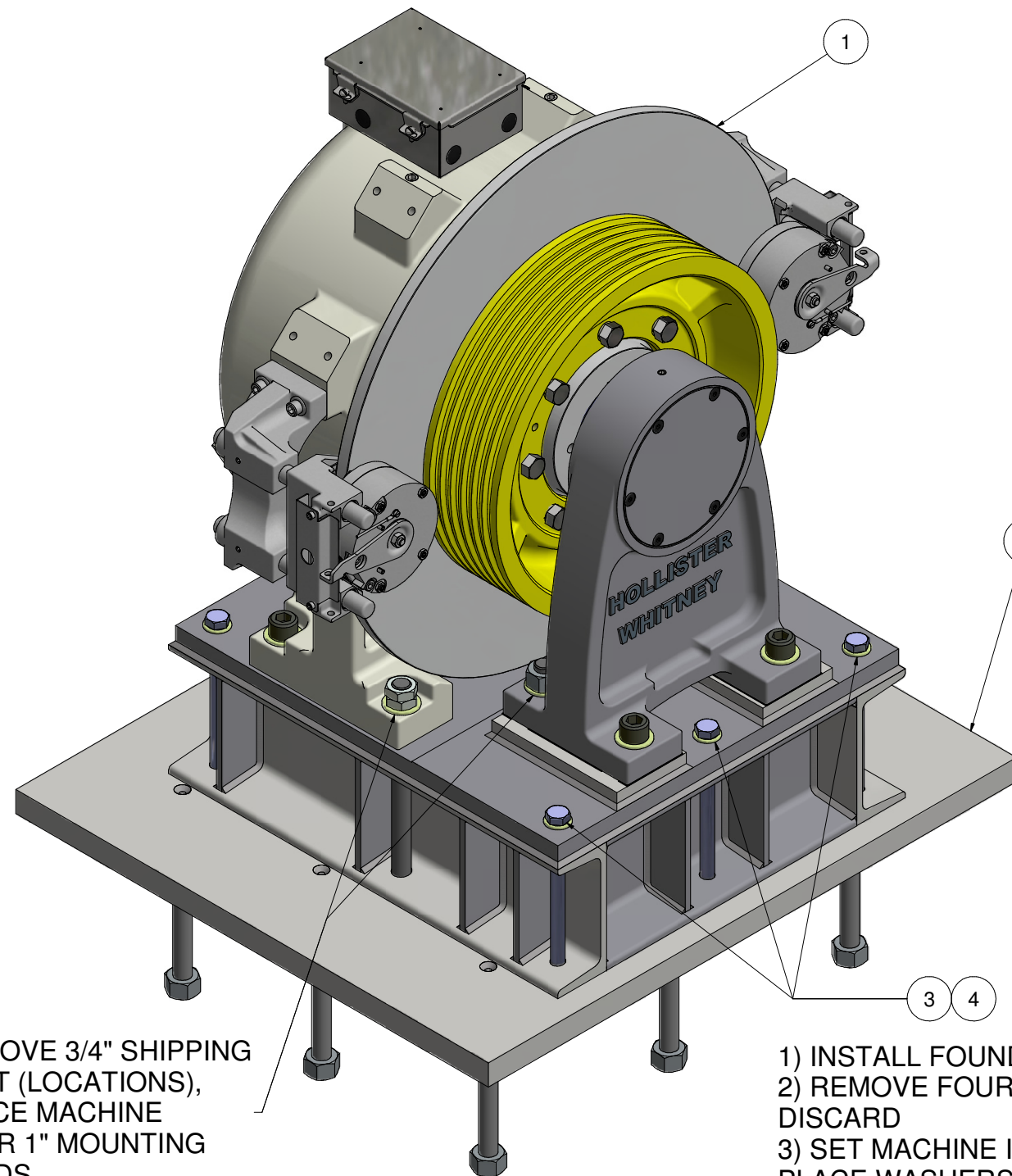
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|--|--|--|--|---|-------------------------------------------|----------------|---------------|-----------------------------------------------------|----------------|------------------|---------------------------------------------------------------------------------------------------|
|  |  |  |  |   |                                           |                |               | HOLLISTER-WHITNEY<br>ELEVATOR CO.                   |                |                  |                                                                                                   |
|  |  |  |  |   |                                           |                |               | TITLE GEARLESS MACHINE, 2000# MAX CAP. 1:1<br>ROPED |                |                  |                                                                                                   |
|  |  |  |  | D | GL185-019 WAS GL171-019,<br>PUR #788      | LTL<br>6/22/16 |               |                                                     |                |                  |                                                                                                   |
|  |  |  |  | C | UPDATE PARTS LIST, PUR<br>#719            | LTL<br>8/31/15 | DRAWN<br>BY   | SCALE                                               | MATERIAL       | DIMENSIONAL TOL. |                                                                                                   |
|  |  |  |  | B | REMOVE GL100-007, -008,<br>-009, PUR #648 | LTL<br>5/20/14 | LTL           | NA                                                  | SEE PARTS LIST |                  | 1. PLACE ±0.01, 2. PLACE ±0.005<br>3&4. PLACE±0.001, ANGLES±0.1°<br>REF., OPEN, (NOMINAL) ±0.0156 |
|  |  |  |  | A | PRODUCTION RELEASE,<br>PHB #630           | LTL<br>2/10/14 | SHEET<br>SIZE | D                                                   | DATE           | 9/26/2013        | GL171BS                                                                                           |



C

| Parts List |     |                 |                                                        |                 |
|------------|-----|-----------------|--------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                            | MASS            |
| 1          | 1   | GL171-BS        | GEARLESS MACHINE, 2000# MAX CAP. 1:1 ROPED             | 2412.187 lbmass |
| 2          | 1   | GL171-BS-156    | FOUNDATION PLATE ASSEMBLY - GL131 & GL171 BASEMENT SET | 586.768 lbmass  |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                          | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                             | 0.045 lbmass    |

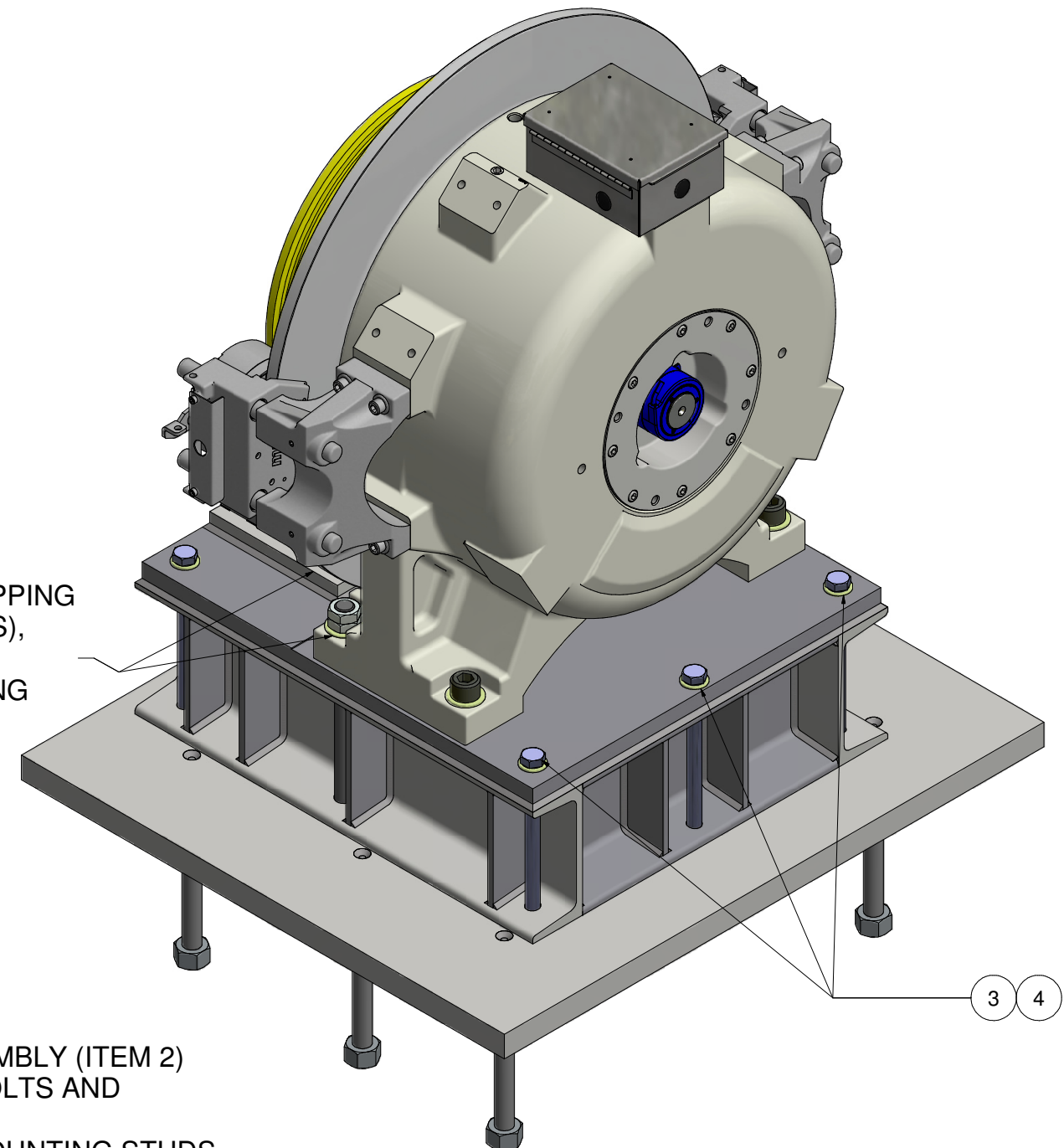
SUPPLIED FOUNDATION PLATE FOR  
NEW-POUR



REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE FOUR (4) 3/4" SHIPPING BOLTS AND DISCARD
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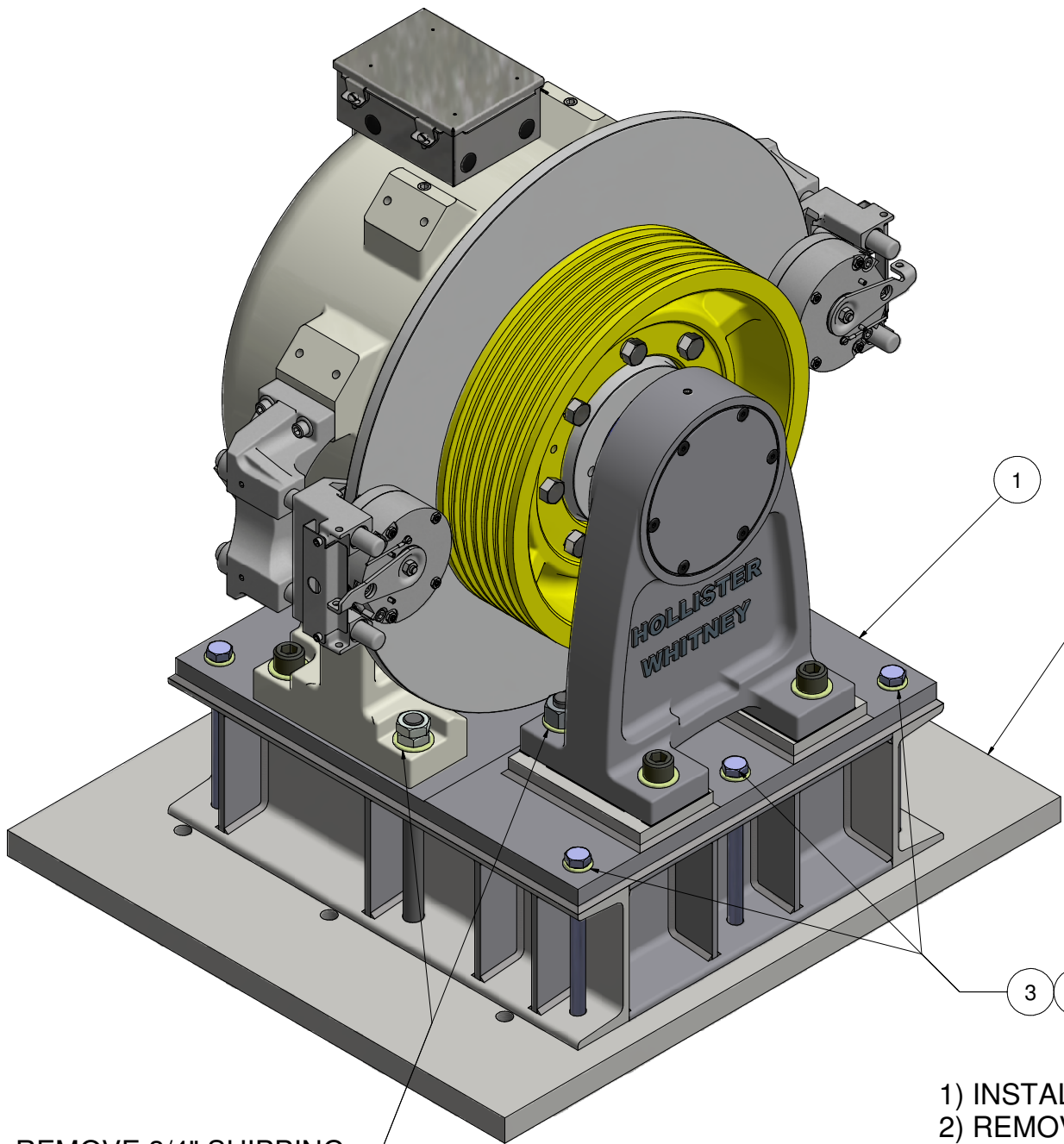


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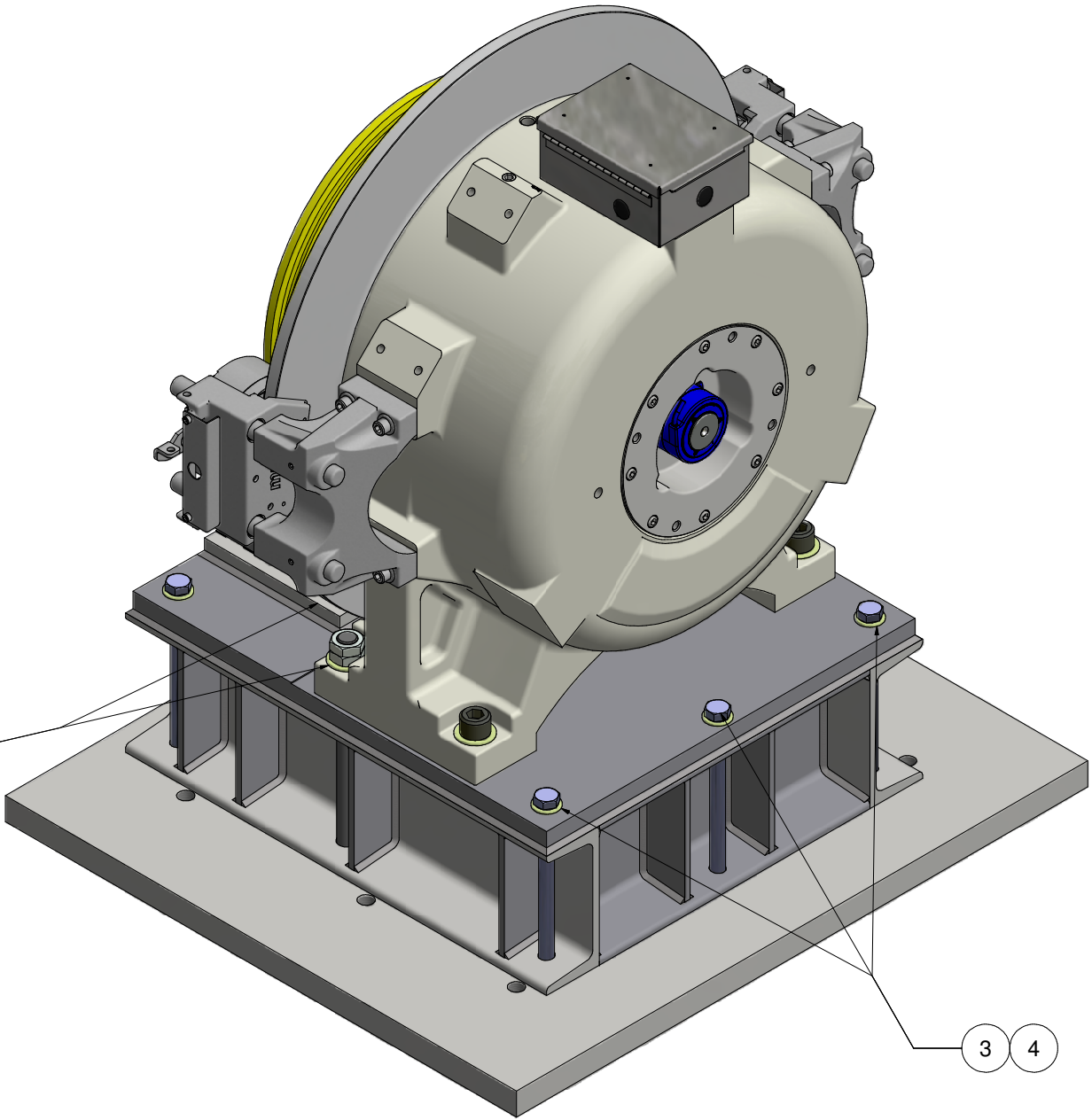
| Parts List |     |                 |                                                        |
|------------|-----|-----------------|--------------------------------------------------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                            |
| 1          | 1   | GL171-BS        | GEARLESS MACHINE, 2000# MAX CAP. 1:1 ROPED             |
| 2          | 1   | GL171BS-156A    | FOUNDATION PLATE ASSEMBLY - GL131 & GL171 BASEMENT SET |
| 3          | 6   | 3/4-10 X 3 INCH | HEX HEAD BOLT                                          |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                             |

SUPPLIED FOUNDATION PLATE FOR  
SECURING TO EXISTING STRUCTURE



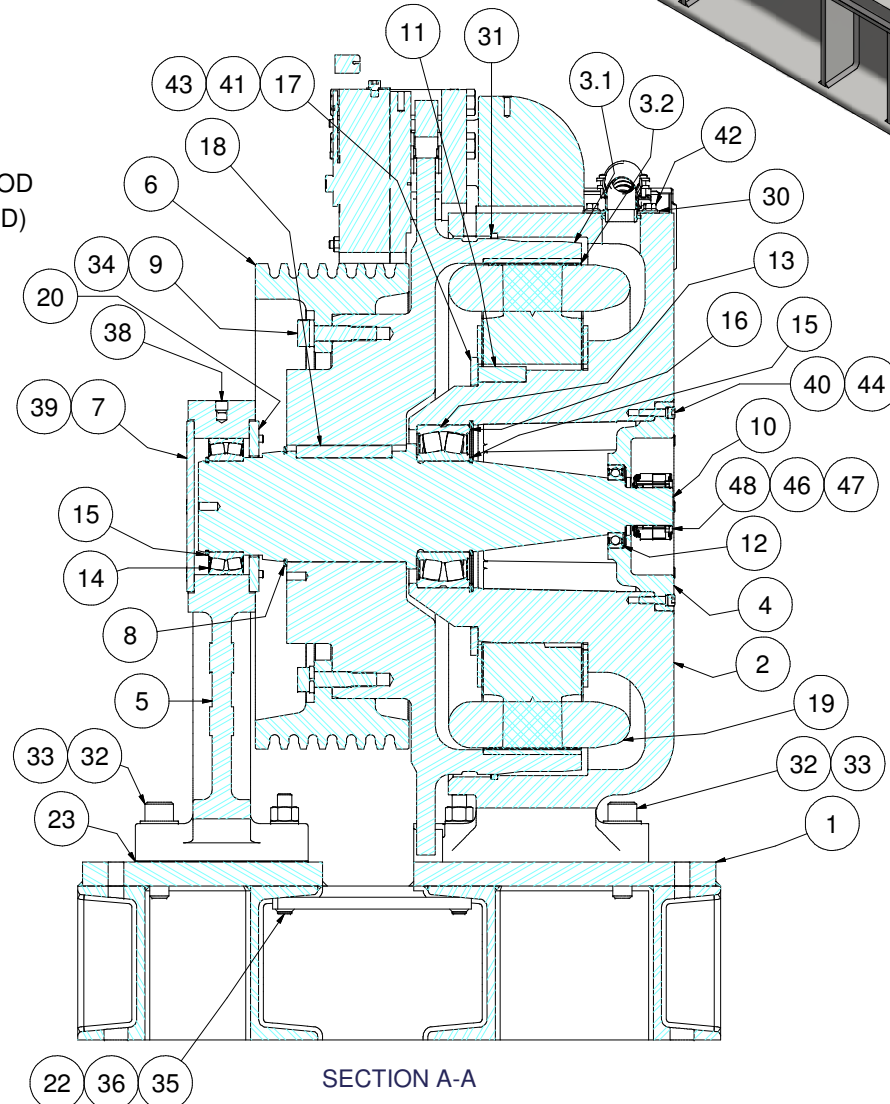
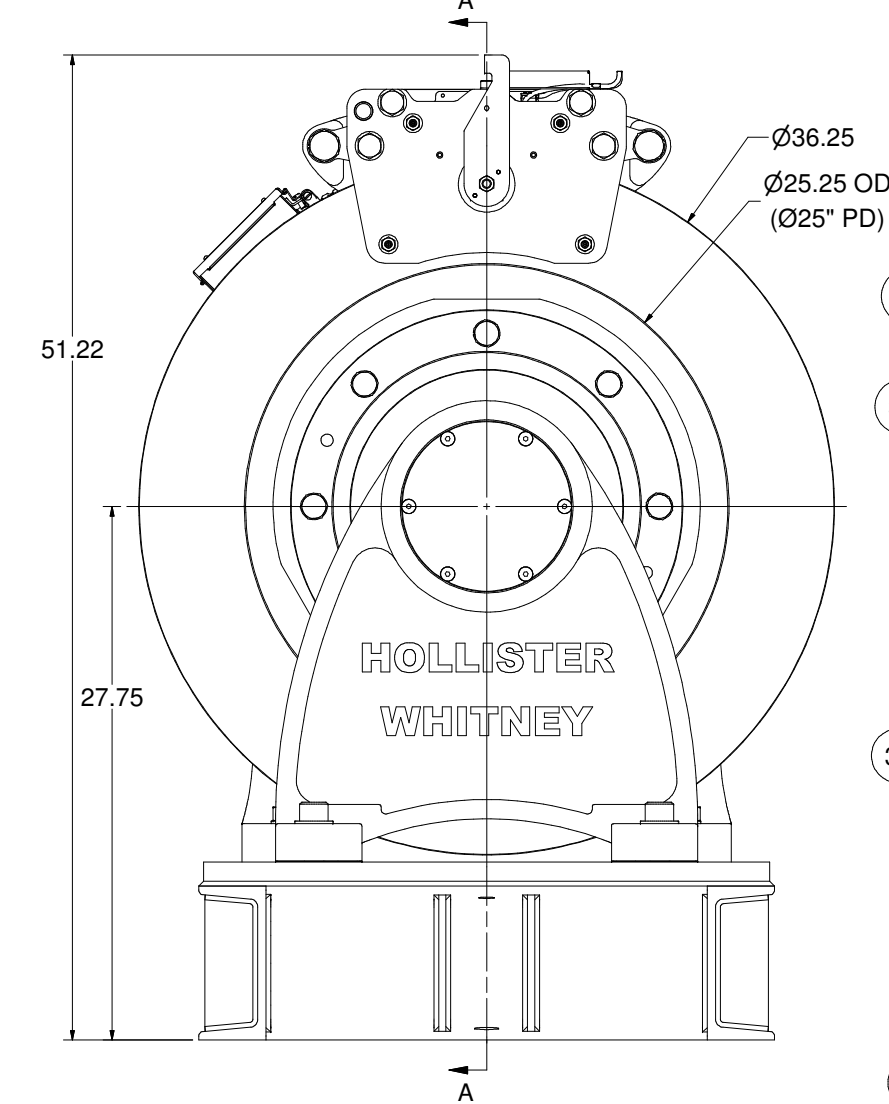
REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

REMOVE 3/4" SHIPPING  
BOLT (LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS



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| ITEM | QTY       | PART NUMBER         | DESCRIPTION                                                 |                                           |
|------|-----------|---------------------|-------------------------------------------------------------|-------------------------------------------|
| 1    | 1         | GL130ABS-01         | FINISHING BASE, BASEMENT SET, GL130A                        |                                           |
| 2    | 1         | GL130A-001          | BASE HOUSING, MOTOR #GL130A                                 |                                           |
| 3    | 1         | GL130A-002          | ROTOR ASSEMBLY - #GL130A, 25" T.S.                          |                                           |
|      | 3.1       | 1                   | GL130A-004                                                  | ROTOR - GL130A, 25" T.S.                  |
|      | 3.2       | 40                  | GL260-099                                                   | PERMANENT MAGNET - #GL260 & GL130A MOTORS |
| 4    | 1         | GL130A-005          | BEARING CAP                                                 |                                           |
| 5    | 1         | GL185-006           | OUTBOARD STAND, AC GEARLESS                                 |                                           |
| 6    | 1         | GL185-008           | SHEAVE, 25"                                                 |                                           |
| 7    | 1         | GL185-019           | END CAP                                                     |                                           |
| 8    | 1         | GL185-020           | RETAINING RING - ROTOR                                      |                                           |
| 9    | 8         | GL185-073           | BODY BOLT                                                   |                                           |
| 10   | 1         | GL130A-018          | MAIN SHAFT - GL130A 1:1 MACHINE                             |                                           |
| 11   | 1         | GL100-088           | KEY - STATOR CORE TO BASE                                   |                                           |
| 12   | 1         | GL185-089           | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL                 |                                           |
| 13   | 1         | GL130-090           | SEALED SPHERICAL ROLLER BEARING                             |                                           |
| 14   | 1         | GL185-090           | BEARING, SEALED SPHERICAL ROLLER                            |                                           |
| 15   | 2         | GL130-092           | RETAINING RING - SHAFT                                      |                                           |
| 16   | 1         | GL130-093           | RETAINING RING - HOUSING                                    |                                           |
| 17   | 1         | GL185-094           | CLAMP RING - STATOR ASSEMBLY                                |                                           |
| 18   | 1         | GL185-095           | KEY - MAIN SHAFT TO ROTOR                                   |                                           |
| 19   | 1         | GL130A-100          | WINDING ASSEMBLY - 40 POLE                                  |                                           |
| 20   | 1         | GL185-104           | CAP                                                         |                                           |
| 21   | 1         | GL185-143           | DISC BRAKE (MAYR 10) ASSEMBLY                               |                                           |
| B    | 21.1      | 1                   | 143-001                                                     | BRAKE BASE                                |
|      | 21.2      | 1                   | GL185-143-115                                               | MAYR #10; RSD 10/894.210.03               |
|      | 21.3      | 1                   | 143-003                                                     | COVER - MAYR #10 ELECTRICAL               |
|      | 21.4      | 2                   | 1-8 UNC - 3.25                                              | Hex Cap Screw                             |
|      | 21.5      | 2                   | 1" WASHERS                                                  | Helical Spring Lock Washers               |
|      | 21.6      | 4                   | 5/8-11 UNC - 2.5                                            | SOCKET HEAD CAP SCREW                     |
|      | 21.7      | 4                   | 5/8 WASHER                                                  | SAE WASHER                                |
|      | 21.8      | 1                   | M10 x 1.5 x 12 mm                                           | SHCS - METRIC                             |
| E    | 21.9      | AS                  | 143-026                                                     | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)    |
|      | NEC       | 143-027             | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)                      |                                           |
| 22   | 2         | GL130A-B5-156-5     | SHIPPING BOLT                                               |                                           |
| 23   | AS<br>NEC | GL185-157-05        | OUTBOARD STAND SHIM - 0.005" GL185 A-STAND, 25" T.W.        |                                           |
|      |           | GL185-157-10        | OUTBOARD STAND SHIM - 0.010" GL185 A-STAND, 25" T.W.        |                                           |
|      |           | GL185-157-31        | OUTBOARD STAND SHIM - 0.031" GL185 A-STAND, 25" T.W.        |                                           |
| 24   | 1         | GL100-159           | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED             |                                           |
| 25   | 1         | GL130A-159-12       | MOUNTING PLATE                                              |                                           |
| 26   | 2         | GL100-159-13        | 1-1/4 STRAIGHT BOX CONNECTOR (FLEXCON) - REF P/N BRID412DC2 |                                           |
| 27   | 1         | GL130A-159-13-1     | 1-1/4 90° BOX CONNECTOR (FLEXCON)                           |                                           |
| 28   | 1         | GL100-159-14        | 1-1/4 FLEX CONDUIT - REF. P/N GRF A114                      |                                           |
| 29   | 2         | GL100-159-15        | 1-1/4 ANTI SHORT BUSHING - REF. P/N THOMAS & BETTS CO. #425 |                                           |
| 30   | 1         | GL100-159-16        | BOX CONNECTOR PLATE                                         |                                           |
| 31   | 1         | GL100-165-1         | FELT DUST SEAL                                              |                                           |
| 32   | 4         | 1-8 UNC x 4         | SOCKET HEAD CAP SCREW                                       |                                           |
| 33   | 4         | 1" WASHER           | SAE WASHER                                                  |                                           |
| 34   | 8         | 13/16 WASHER        | HEAVY LOCK WASHER                                           |                                           |
| 35   | 4         | 3/4 UNC NUT         | HEAVY HEX NUT                                               |                                           |
| 36   | 4         | 3/4 WASHER          | SAE WASHER                                                  |                                           |
| 37   | 2         | 5/8-11 UNC x 1      | SOCKET HEAD CAP SCREW                                       |                                           |
| 38   | 1         | 5/8-11 UNC x 0.625  | HALF DOG SET SCREW                                          |                                           |
| 39   | 6         | 3/8-16 UNC x 4      | FLAT HEAD CAP SCREWS                                        |                                           |
| 40   | 8         | 3/8 - 16 UNC x 1.5  | SOCKET HEAD CAP SCREW                                       |                                           |
| 41   | 6         | 3/8 - 16 UNC x 1.25 | SOCKET HEAD CAP SCREW                                       |                                           |
| 42   | 4         | 3/8 - 16 UNC x 0.5  | WHIZ BOLT                                                   |                                           |
| 43   | 6         | 3/8 WASHER          | STANDARD LOCK                                               |                                           |
| 44   | 8         | 3/8 WASHER          | SOCKET HEAD CAP SCREW LOCK                                  |                                           |
| 45   | 4         | 1/4-20 UNC x 0.5    | WHIZ BOLT                                                   |                                           |
| 46   | 4         | #8-32 x 1/4"        | SOCKET HEAD CAP SCREW                                       |                                           |
| 47   | 4         | #8 LOCK WASHER      | EXT. TOOTH LOCK WASHER                                      |                                           |
| 48   | 1         | ECN 113 52810061    | 50mm HEIDENHAIN ENCODER                                     |                                           |

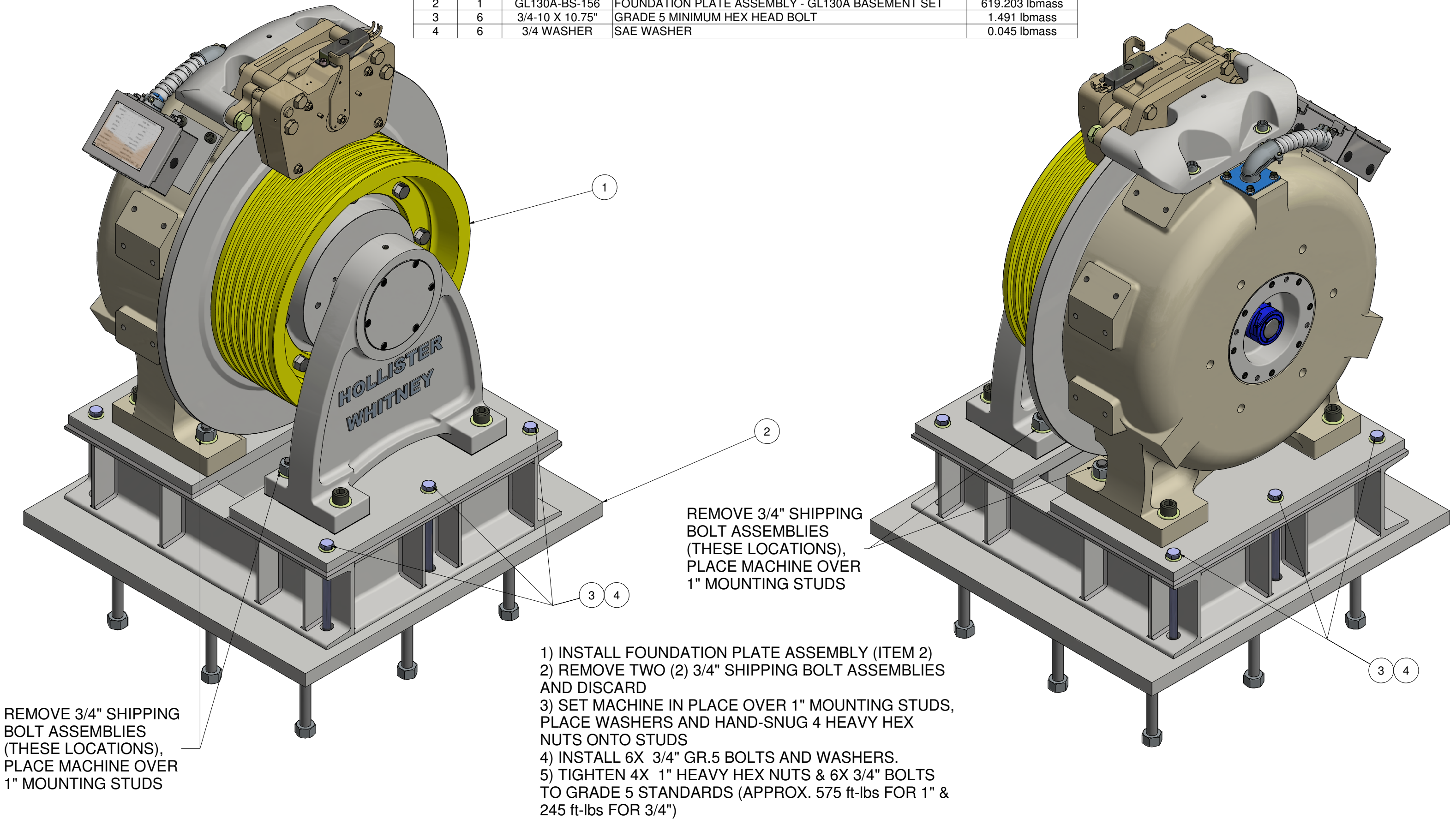
| MACHINE #  | WINDING P/N    | COIL/WINDING<br>EFFICIENCY (%) | FRAME/MAGNET<br>SIZE (mm) | VOLTAGE<br>(Vac) | MACHINE<br>SPEED<br>(RPM) | CAR SPEED<br>25" (fpm) |
|------------|----------------|--------------------------------|---------------------------|------------------|---------------------------|------------------------|
| GL130A-20L | GL130A-170-200 | 90                             | 130A/130                  | 170              | 38.2                      | 250                    |
| GL130A-20H | GL130A-360-200 | 90                             | 130A/130                  | 360              | 38.2                      | 250                    |
| GL130A-40L | GL130A-170-400 | 91                             | 130A/130                  | 170              | 76.4                      | 500                    |

WEIGHT: 3952.6 lbmass

|  |  |   |                                                   |                |                                                             |       |                   |                                                                                                                               |  |
|--|--|---|---------------------------------------------------|----------------|-------------------------------------------------------------|-------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |   |                                                   |                | HOLLISTER-WHITNEY<br>ELEVATOR CORP.                         |       |                   |                                                                                                                               |  |
|  |  | E | ADD A STAND & BRAKE<br>GHIMS, EFF. UPD TEPUR #842 | LTL<br>6/23/17 | TITLE<br>GEARLESS MACHINE, 2000# CAP w/25" TW; 1:1<br>ROPED |       |                   |                                                                                                                               |  |
|  |  | D | ADD SHEET, UPDATE<br>RELOCATION, PUR #636         | LTL<br>3/5/14  | DRAWN<br>BY                                                 | SCALE | MATERIAL          | DIMENSIONAL TOL.<br>1/4 PLACE ± 0.01    2 PLACE ± 0.005<br>3 PLACE ± 0.001    ANGLES ± 1/16<br>REF., OPEN, INORDINAL ± 0.0156 |  |
|  |  | C | UPDATE BASE & SHIPPING<br>BOLTS, PUR #625         | LTL<br>1/22/14 | LTL                                                         | NA    | SEE PARTS LIST    |                                                                                                                               |  |
|  |  | B | UPDATE BRAKE, PUR #608                            | LTL<br>8/22/13 | SHEET SIZE<br>D                                             |       | DATE<br>7/11/2013 | GL130A-BS<br>SHEET 1 OF 3                                                                                                     |  |
|  |  | A | PRODUCTION RELEASE,<br>PUR #606                   | LTL<br>7/9/13  |                                                             |       |                   |                                                                                                                               |  |



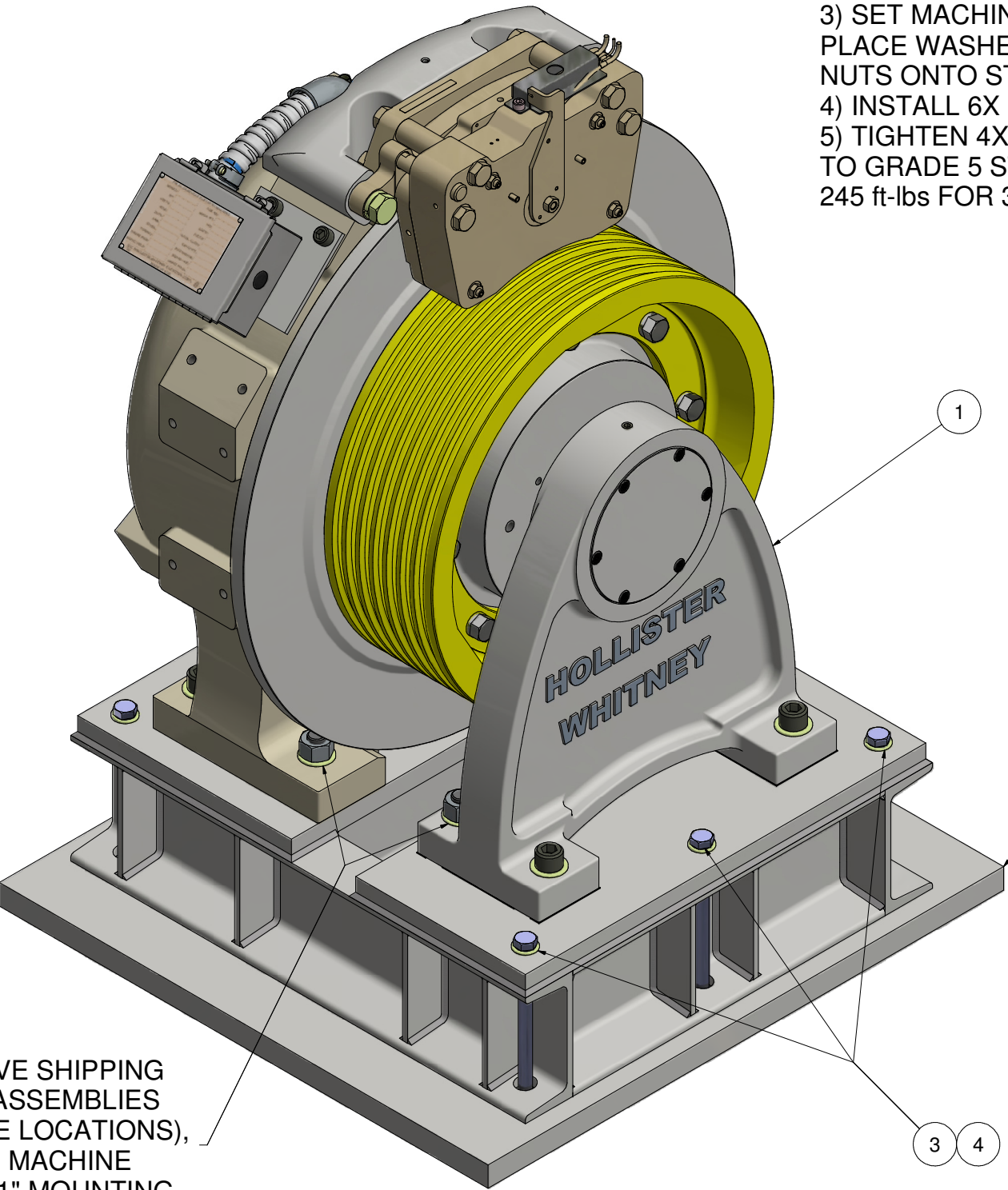
| Parts List |     |                 |                                                 |                 |
|------------|-----|-----------------|-------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                     | MASS            |
| 1          | 1   | GL130A-BS       | GEARLESS MACHINE, 2000# CAP w/25" TW; 1:1 ROPED | 3943.413 lbmass |
| 2          | 1   | GL130A-BS-156   | FOUNDATION PLATE ASSEMBLY - GL130A BASEMENT SET | 619.203 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                   | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                      | 0.045 lbmass    |



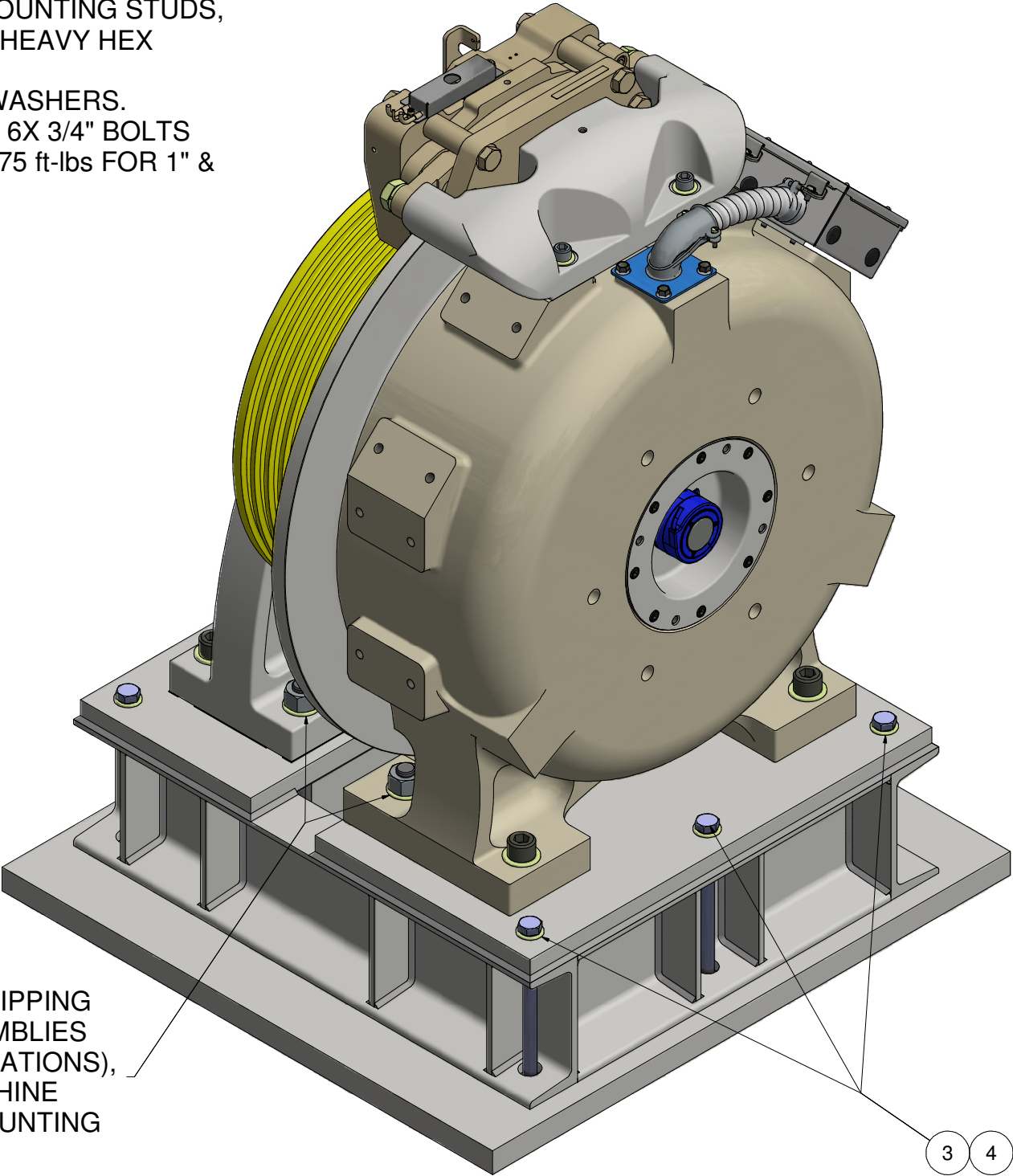


| Parts List |     |                 |                                                         |                 |
|------------|-----|-----------------|---------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                             | MASS            |
| 1          | 1   | GL130A-BS       | GEARLESS MACHINE, 2000# CAP w/25" TW; 1:1 ROPED         | 3943.413 lbmass |
| 2          | 1   | GL130A-BS-156A  | FOUNDATION ADAPTOR PLATE ASSEMBLY - GL130A BASEMENT SET | 593.366 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                           | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                              | 0.045 lbmass    |

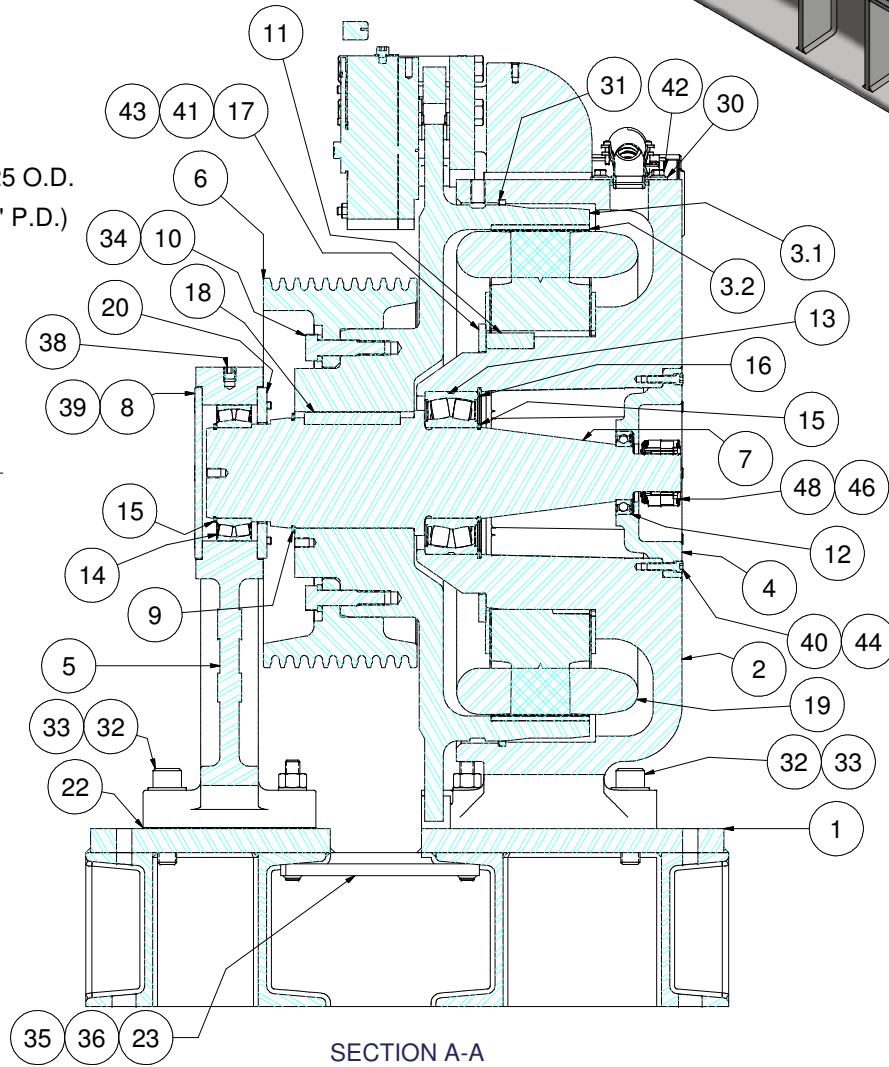
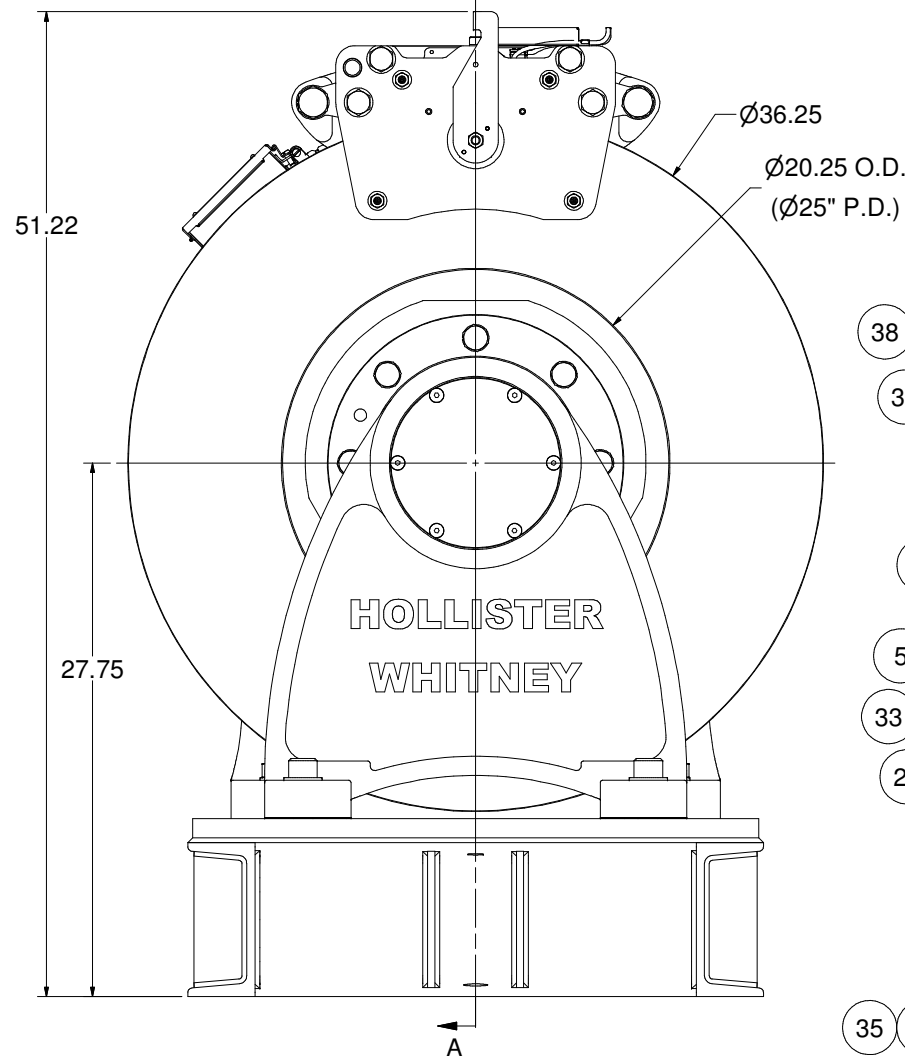
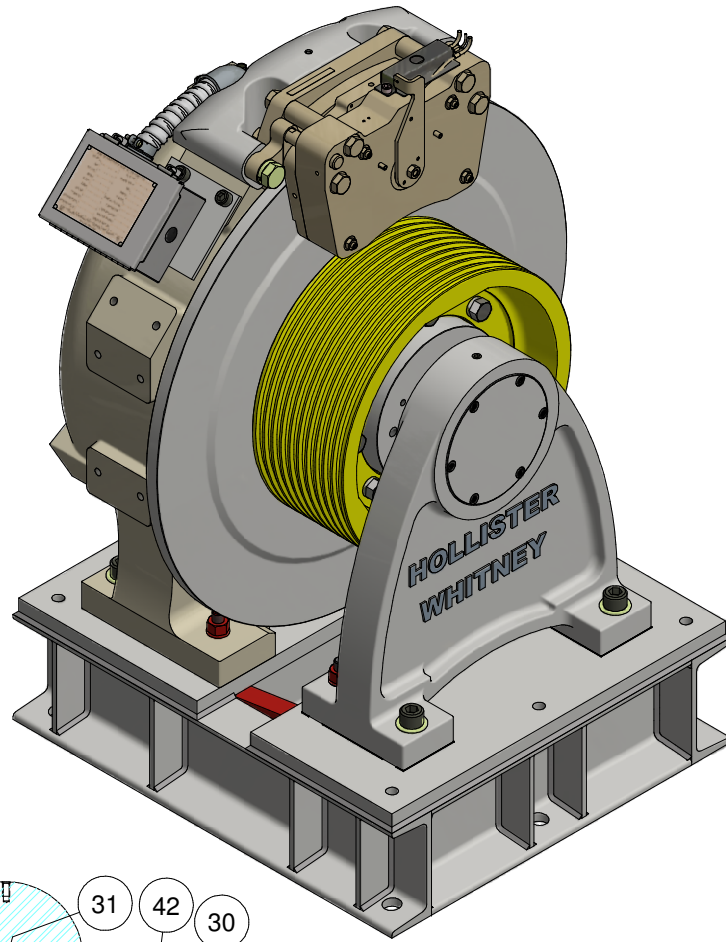
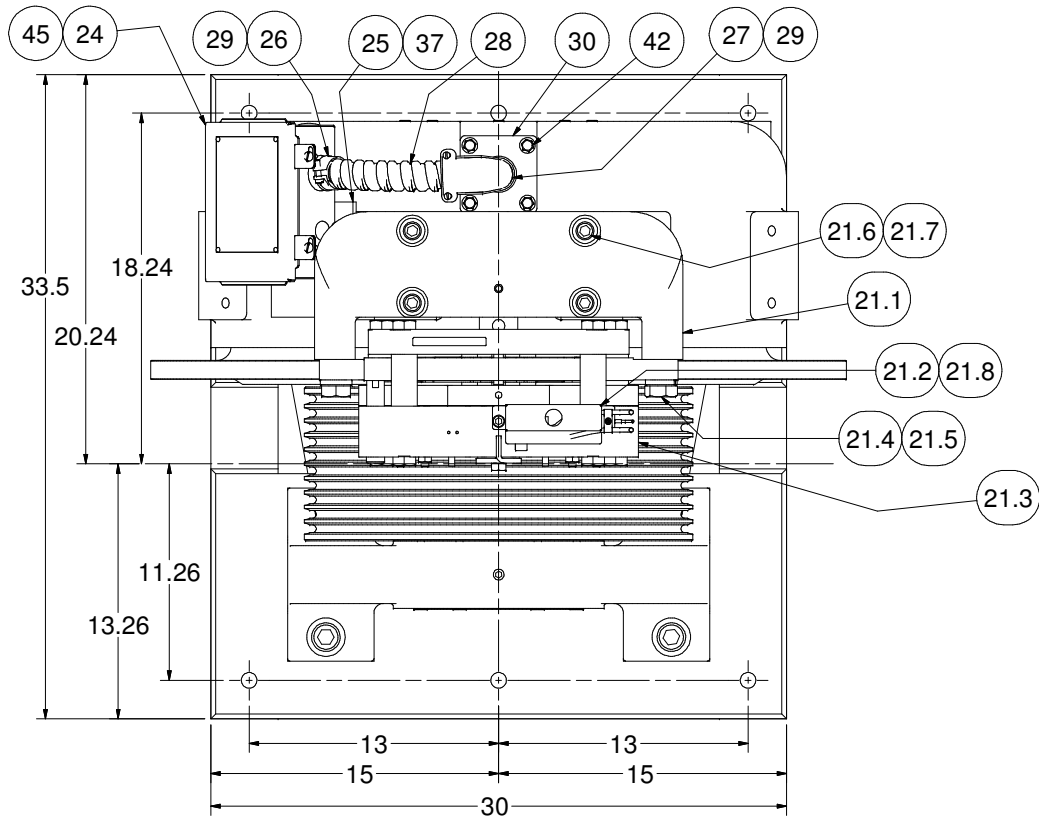
- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)  
2) REMOVE TWO (2) SHIPPING BOLT ASSEMBLIES AND DISCARD  
3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS  
4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.  
5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS



REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS



| ITEM | QTY | PART NUMBER         | DESCRIPTION                                                 |
|------|-----|---------------------|-------------------------------------------------------------|
| 1    | 1   | GL130ABS-01         | FINISHING BASE, BASEMENT SET, GL130A                        |
| 2    | 1   | GL130A-001          | BASE HOUSING, MOTOR #GL130A                                 |
| 3    | 1   | GL130A-002-1        | ROTOR ASSEMBLY - #GL130A1, 20" T.S.                         |
| 3.1  | 1   | GL130A-004-1        | ROTOR - GL130A1, 20" T.S.                                   |
|      | 40  | GL260-099           | PERMANENT MAGNET - #GL260 & GL130A MOTORS                   |
| 4    | 1   | GL130A-005          | BEARING CAP                                                 |
| 5    | 1   | GL185-006           | OUTBOARD STAND, AC GEARLESS                                 |
| 6    | 1   | GL130A-008          | TRACTION SHEAVE, 20"                                        |
| 7    | 1   | GL185-019           | END CAP                                                     |
| 8    | 1   | GL185-020           | RETAINING RING - ROTOR                                      |
| 9    | 8   | GL185-073           | BODY BOLT                                                   |
| 10   | 1   | GL130A-018          | MAIN SHAFT - GL130A 1:1 MACHINE                             |
| 11   | 1   | GL100-088           | KEY - STATOR CORE TO BASE                                   |
| 12   | 1   | GL185-089           | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL                 |
| 13   | 1   | GL130-090           | SEALED SPHERICAL ROLLER BEARING                             |
| 14   | 1   | GL185-090           | BEARING, SEALED SPHERICAL ROLLER                            |
| 15   | 2   | GL130-092           | RETAINING RING - SHAFT                                      |
| 16   | 1   | GL130-093           | RETAINING RING - HOUSING                                    |
| 17   | 1   | GL185-094           | CLAMP RING - STATOR ASSEMBLY                                |
| 18   | 1   | GL185-095           | KEY - MAIN SHAFT TO ROTOR                                   |
| 19   | 1   | GL130A-100          | WINDING ASSEMBLY - 40 POLE                                  |
| 20   | 1   | GL185-104           | CAP                                                         |
| 21   | 1   | GL185-143           | DISC BRAKE (MAYR 10) ASSEMBLY                               |
| 21.1 | 1   | 143-001             | BRAKE BASE                                                  |
|      | 1   | 143-003             | COVER - MAYR #10 ELECTRICAL                                 |
| 21.3 | 1   | GL185-143-115       | MAYR #10; RSD 10/894.210.03                                 |
| 21.4 | 2   | 1" WASHERS          | Helical Spring Lock Washers                                 |
| 21.5 | 2   | 1-8 UNC - 3.25      | Hex Cap Screw                                               |
| 21.6 | 4   | 5/8-11 UNC - 2.5    | SOCKET HEAD CAP SCREW                                       |
| 21.7 | 4   | 5/8 WASHER          | SAE WASHER                                                  |
| 21.8 | 1   | M10 x 1.5 x 12 mm   | SHCS - METRIC                                               |
| 21.9 | AS  | 143-026             | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)                      |
|      | NEC | 143-027             | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)                      |
| 22   | AS  | GL130A-B5-156-5     | SHIPPING BOLT                                               |
|      |     | GL185-157-05        | OUTBOARD STAND SHIM - 0.005" GL185 A-STAND, 25" T.W.        |
|      |     | GL185-157-10        | OUTBOARD STAND SHIM - 0.010" GL185 A-STAND, 25" T.W.        |
|      |     | GL185-157-31        | OUTBOARD STAND SHIM - 0.031" GL185 A-STAND, 25" T.W.        |
| 24   | 1   | GL100-159           | ELECTRICAL ENCLOSURE, HOFFMAN A806CH - MODIFIED             |
| 25   | 1   | GL130A-159-12       | MOUNTING PLATE                                              |
| 26   | 1   | GL100-159-13        | 1-1/4 STRAIGHT BOX CONNECTOR (FLEXCON) - REF P/N BRID412DC2 |
| 27   | 1   | GL100-159-13-1      | 1-1/4 90° BOX CONNECTOR (FLEXCON)                           |
| 28   | 2   | GL100-159-14        | 1-1/4 FLEX CONDUIT - REF. P/N GRF A114                      |
| 29   | 2   | GL100-159-15        | 1-1/4 ANTI SHORT BUSHING - REF. P/N THOMAS & BETTS CO. #425 |
| 30   | 1   | GL100-159-18        | BOX CONNECTOR PLATE                                         |
| 31   | 1   | GL100-165-1         | FELT DUST SEAL                                              |
| 32   | 4   | 1-8 UNC x 4         | SOCKET HEAD CAP SCREW                                       |
| 33   | 4   | 1" WASHER           | SAE WASHER                                                  |
| 34   | 8   | 13/16 WASHER        | HEAVY LOCK WASHER                                           |
| 35   | 4   | 3/4 UNC NUT         | HEAVY HEX NUT                                               |
| 36   | 4   | 3/4 WASHER          | SAE WASHER                                                  |
| 37   | 2   | 5/8-11 UNC x 1      | SOCKET HEAD CAP SCREW                                       |
| 38   | 1   | 5/8-11 UNC x 0.625  | HALF DOG SET SCREW                                          |
| 39   | 6   | 3/8-16 UNC x 4      | FLAT HEAD CAP SCREWS                                        |
| 40   | 8   | 3/8 - 16 UNC x 1.5  | SOCKET HEAD CAP SCREW                                       |
| 41   | 6   | 3/8 - 16 UNC x 1.25 | SOCKET HEAD CAP SCREW                                       |
| 42   | 4   | 3/8 - 16 UNC x 0.5  | WHIZ BOLT                                                   |
| 43   | 6   | 3/8 WASHER          | STANDARD LOCK                                               |
| 44   | 8   | 3/8 WASHER          | SOCKET HEAD CAP SCREW LOCK                                  |
| 45   | 4   | 1/4-20 UNC x 0.5    | WHIZ BOLT                                                   |
| 46   | 4   | #8-32 x 1/4"        | SOCKET HEAD CAP SCREW                                       |
| 47   | 4   | #8 LOCK WASHER      | EXT. TOOTH LOCK WASHER                                      |
| 48   | 1   | ECN 113 52810061    | 50mm HEIDENHAIN ENCODER                                     |

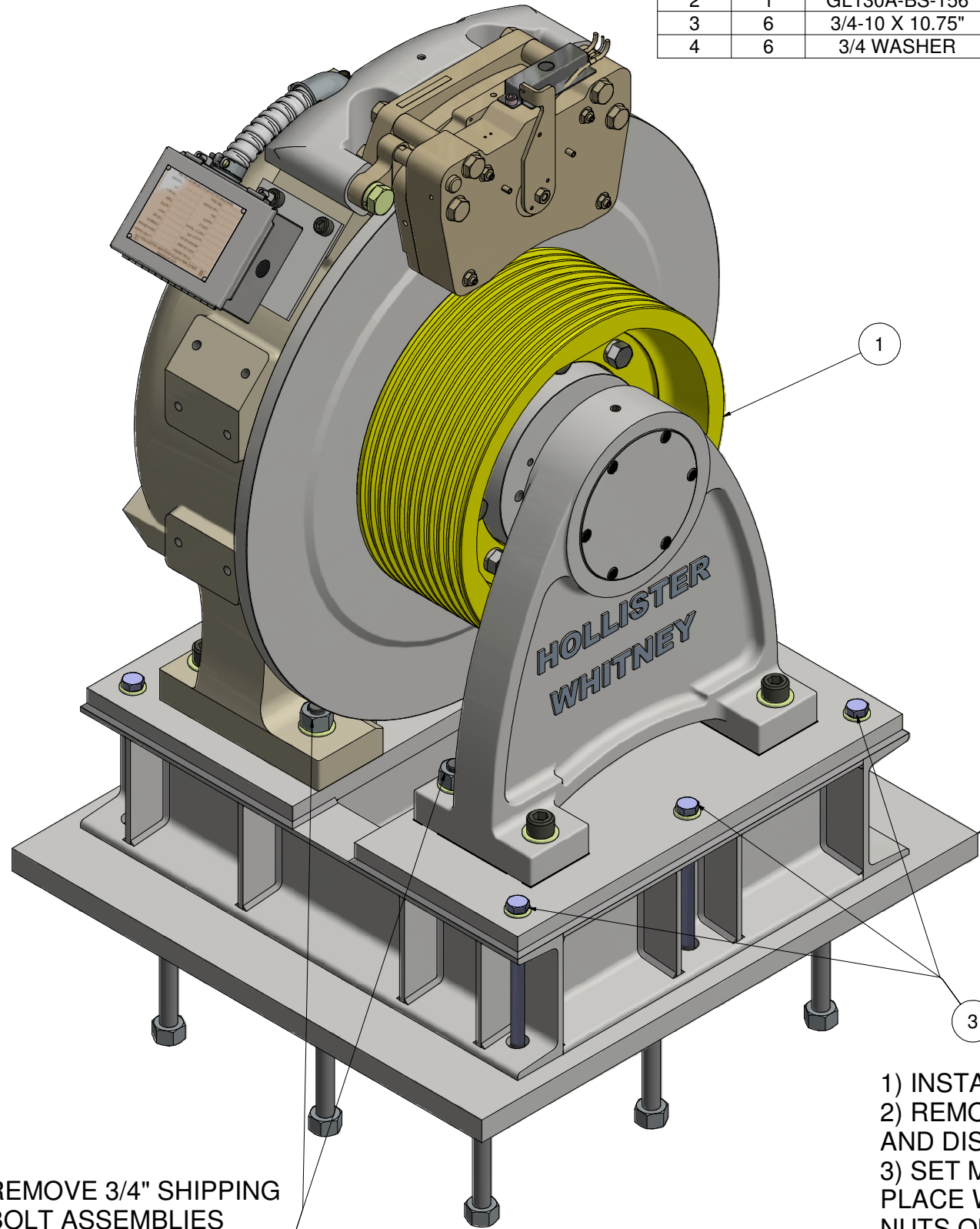
| MACHINE #  | WINDING P/N    | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (RPM) | CAR SPEED 20" (fpm) |
|------------|----------------|-----------------------------|------------------------|---------------|---------------------|---------------------|
| GL130A-20L | GL130A-170-200 | 90                          | 130A/130               | 170           | 38.2                | 200                 |
| GL130A-20H | GL130A-360-200 | 90                          | 130A/130               | 360           | 38.2                | 200                 |
| GL130A-40L | GL130A-170-400 | 91                          | 130A/130               | 170           | 76.4                | 400                 |

WEIGHT: 3678.1 lbmass

|   |   |                                                       |     |                                                             |             |                            |                                                                                                                       |
|---|---|-------------------------------------------------------|-----|-------------------------------------------------------------|-------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
|   |   |                                                       |     | HOLLISTER-WHITNEY<br>ELEVATOR CORP.                         |             |                            |                                                                                                                       |
|   |   |                                                       |     | TITLE<br>GEARLESS MACHINE, 2500# CAP w/20" TW; 1:1<br>ROPED |             |                            |                                                                                                                       |
| D | C | ADD A-STAND & BRAKE<br>SHIMS EFF UPDTEPUR #8428/23/17 | LTL | DRAWN BY<br>LTL                                             | SCALE<br>NA | MATERIAL<br>SEE PARTS LIST | DIMENSIONAL TOL.<br>1 PLACE ± 0.01 2 PLACE ± 0.005<br>3/4 PLACE ± 0.001 ANGLES ± 0.1°<br>REF. OPEN (NOMINAL) ± 0.0150 |
|   |   |                                                       |     |                                                             |             |                            |                                                                                                                       |
|   |   | ADD SHEET 1, UPDATE<br>RELOCATION, PUR #636           | LTL |                                                             |             |                            |                                                                                                                       |
|   |   | UPDATE BASE & SHIPPING<br>BOLTS, PUR #625             | LTL |                                                             |             |                            |                                                                                                                       |
|   |   | PRODUCTION RELEASE,<br>PUR #611                       | LTL |                                                             |             |                            |                                                                                                                       |
|   |   |                                                       |     | SHEET SIZE<br>D                                             |             | DATE<br>8/22/2013          |                                                                                                                       |
|   |   |                                                       |     | GL130A1-BS<br>SHEET 1 OF 3                                  |             |                            |                                                                                                                       |



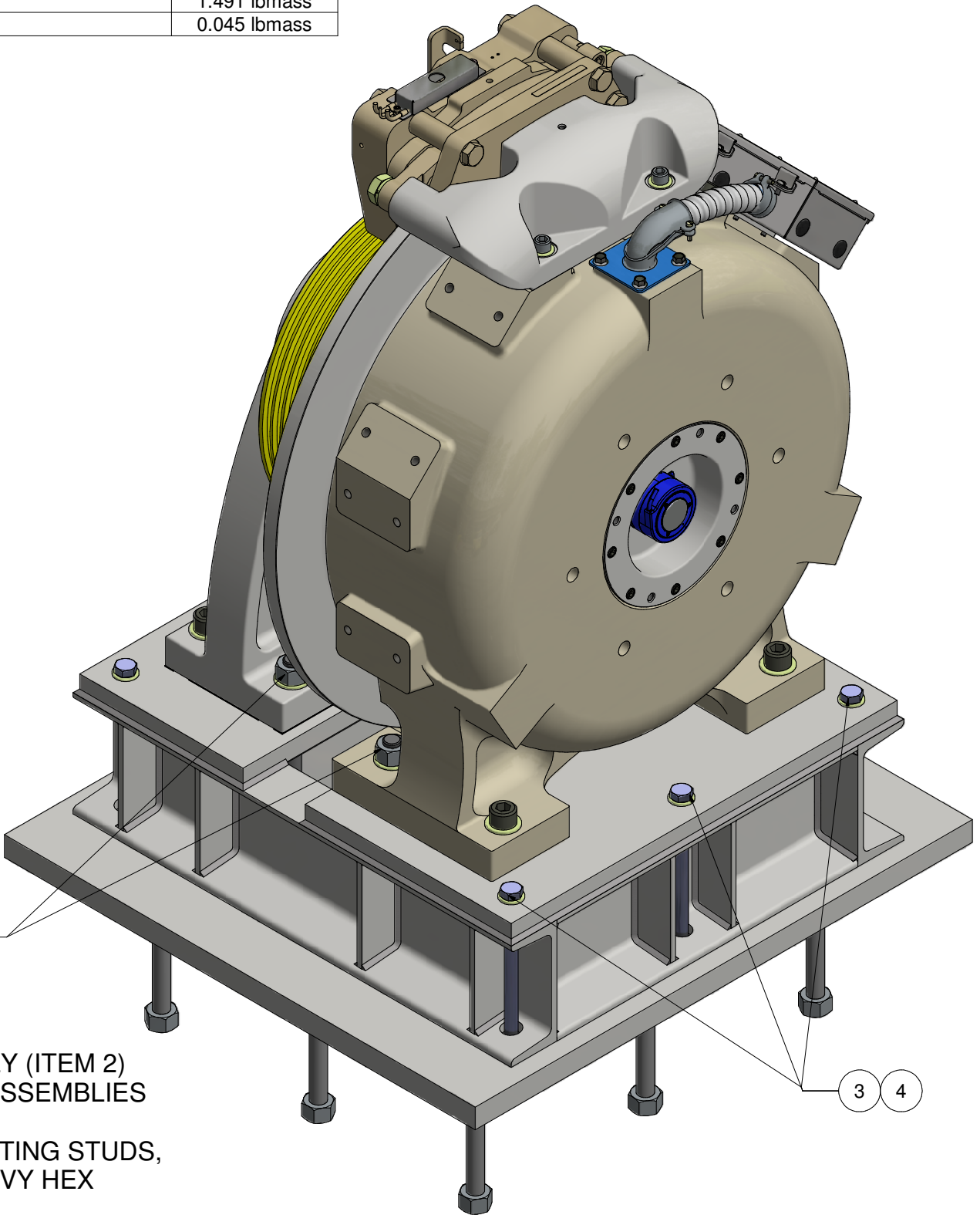
| Parts List |     |                 |                                                 |                 |
|------------|-----|-----------------|-------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                     | MASS            |
| 1          | 1   | GL130A1-BS      | GEARLESS MACHINE, 2500# CAP w/20" TW; 1:1 ROPED | 3668.918 lbmass |
| 2          | 1   | GL130A-BS-156   | FOUNDATION PLATE ASSEMBLY - GL130A BASEMENT SET | 619.203 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                   | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                      | 0.045 lbmass    |



REMOVE 3/4" SHIPPING  
BOLT ASSEMBLIES  
(LOCATIONS), PLACE  
MACHINE OVER 1"  
MOUNTING STUDS

REMOVE 3/4" SHIPPING  
BOLT ASSEMBLIES  
(LOCATIONS), PLACE  
MACHINE OVER 1"  
MOUNTING STUDS

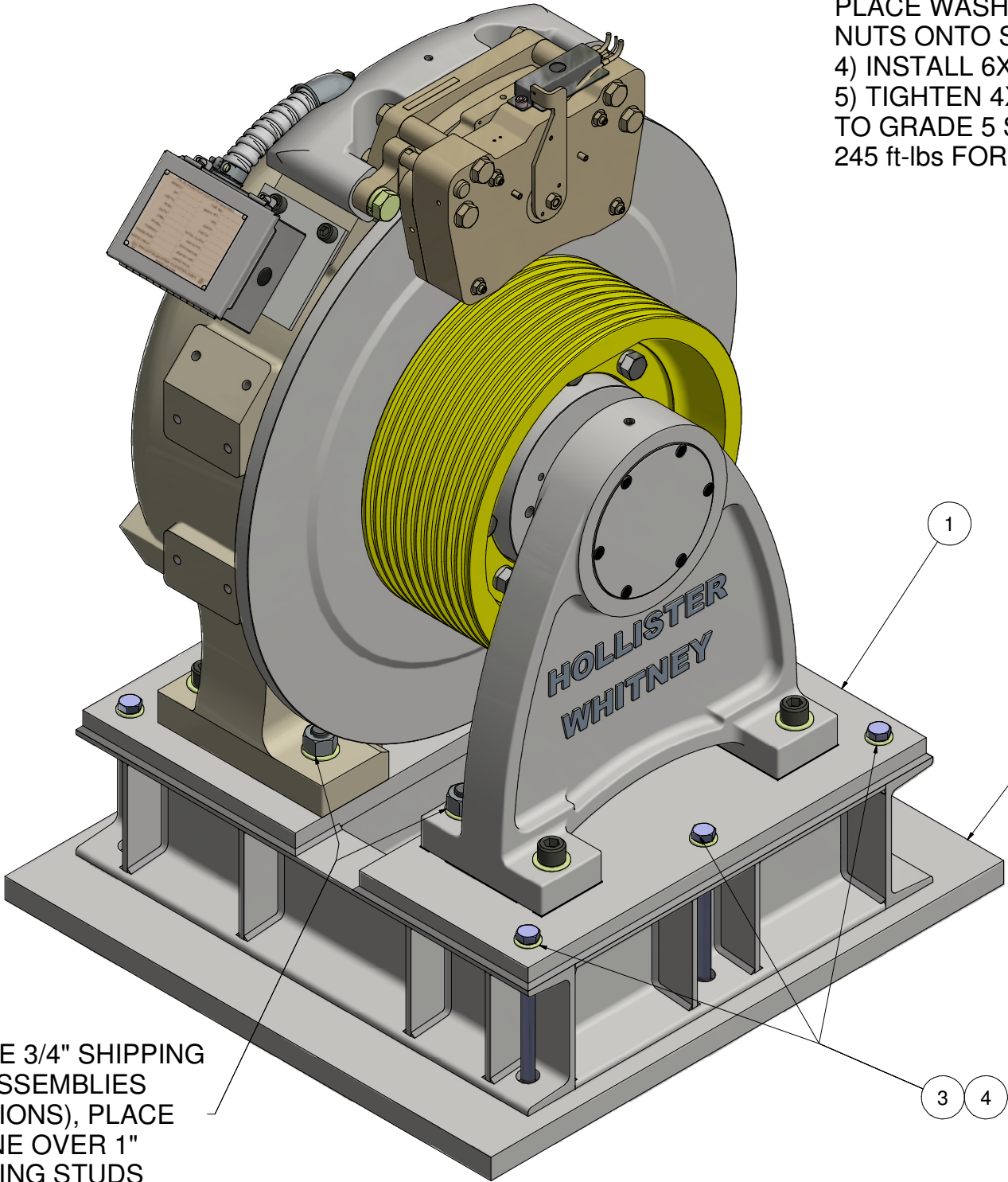
- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE TWO (2) 3/4" SHIPPING BOLT ASSEMBLIES AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



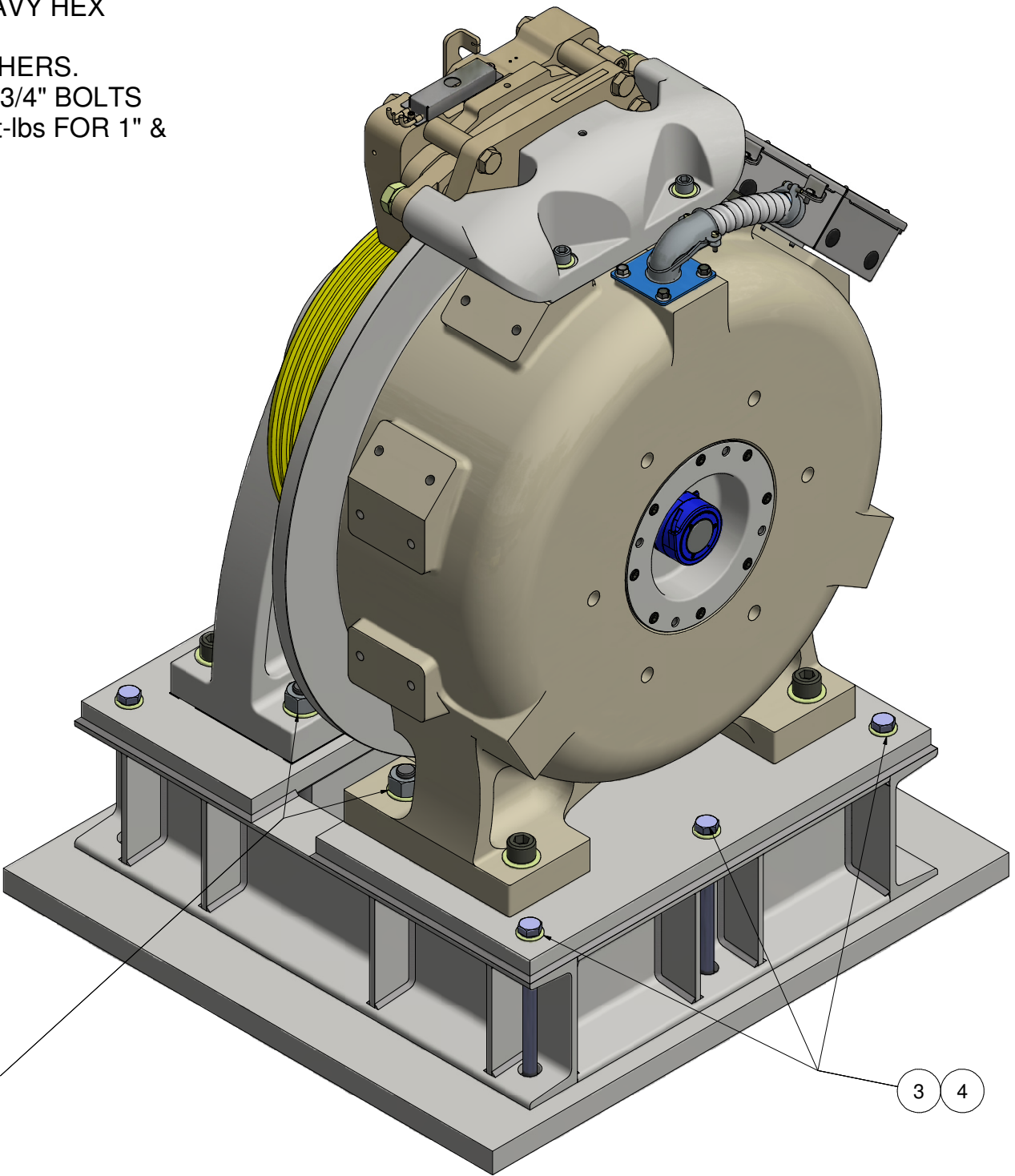
3 4

| Parts List |     |                 |                                                         |                 |
|------------|-----|-----------------|---------------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                             | MASS            |
| 1          | 1   | GL130A1-BS      | GEARLESS MACHINE, 2500# CAP w/20" TW; 1:1 ROPED         | 3668.918 lbmass |
| 2          | 1   | GL130A-BS-156A  | FOUNDATION ADAPTOR PLATE ASSEMBLY - GL130A BASEMENT SET | 593.366 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                           | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                              | 0.045 lbmass    |

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)  
2) REMOVE TWO (2) SHIPPING BOLT ASSEMBLIES AND DISCARD  
3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS  
4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.  
5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")

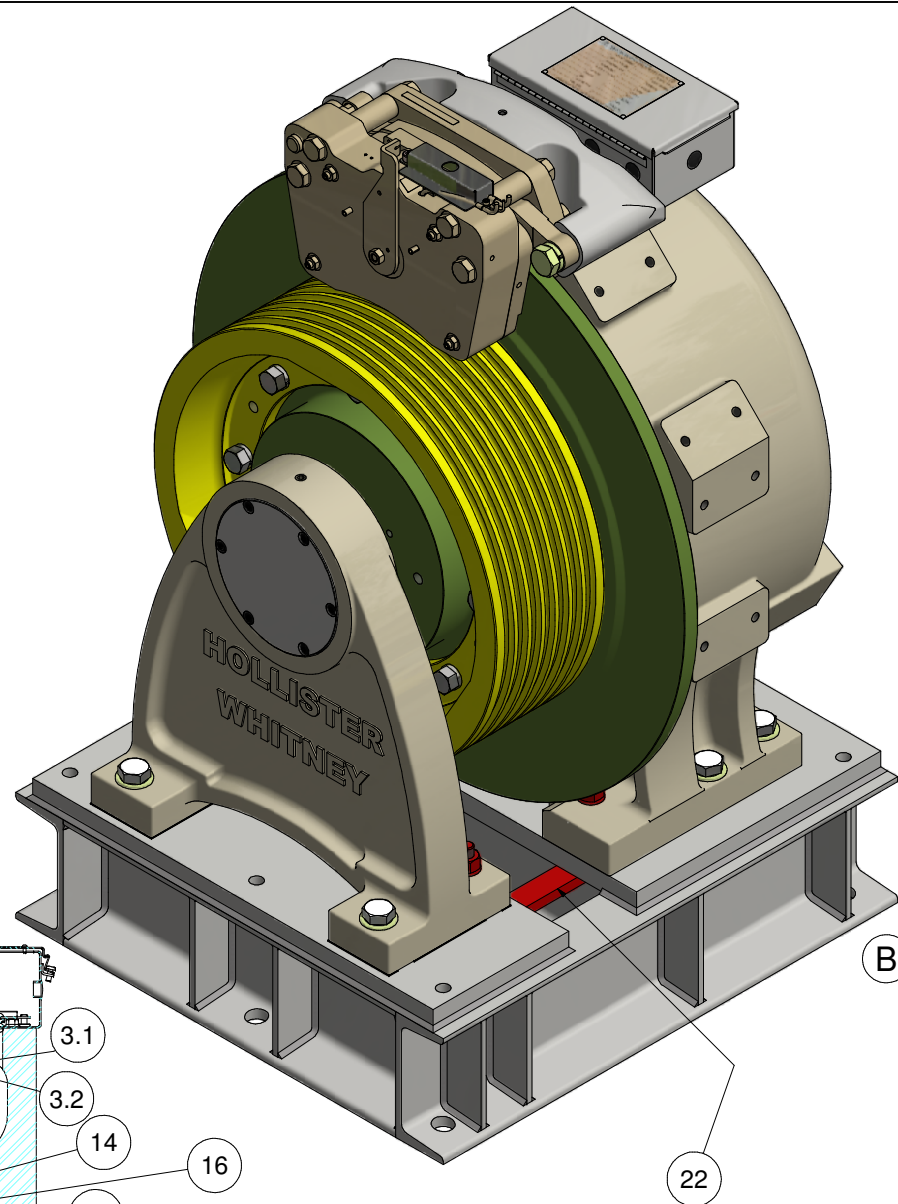
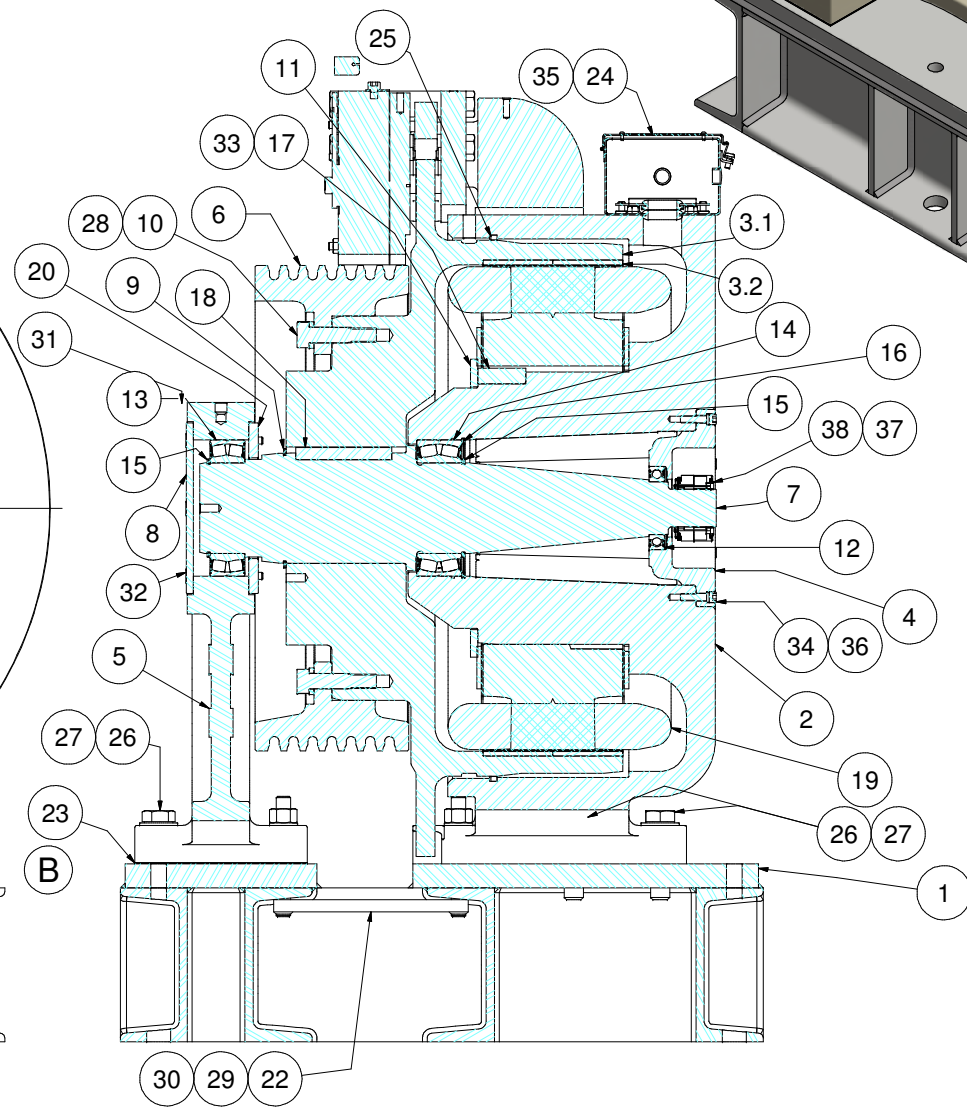
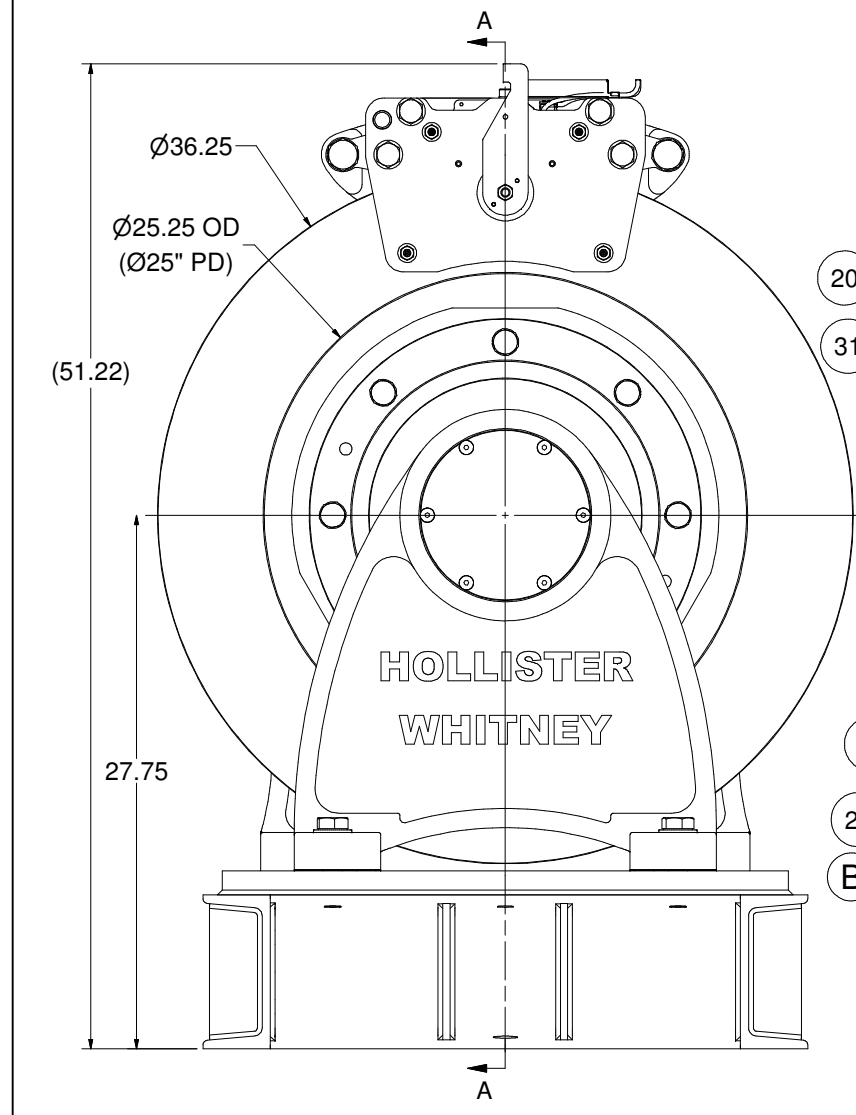


REMOVE 3/4" SHIPPING BOLT ASSEMBLIES (LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS



REMOVE 3/4" SHIPPING BOLT ASSEMBLIES (LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS





| ITEM | QTY  | PART NUMBER         | DESCRIPTION                                          |
|------|------|---------------------|------------------------------------------------------|
| 1    | 1    | GL185BS-01          | FINISHING BASE, BASEMENT SET, GL185                  |
| 2    | 1    | GL185-001           | BASE HOUSING, MOTOR #GL185                           |
| 3    | 1    | GL185-002           | ROTOR ASSEMBLY - MOTOR #GL185                        |
|      | 3.1  | GL185-004           | ROTOR                                                |
|      | 3.2  | 80                  | GL185-099 PERMANENT MAGNET - MOTOR #GL185            |
| 4    | 1    | GL100-005           | BEARING CAP                                          |
| 5    | 1    | GL185-006           | OUTBOARD STAND, AC GEARLESS                          |
| 6    | 1    | GL185-008           | SHEAVE, 25"                                          |
| 7    | 1    | GL185-018           | MAIN SHAFT - GL185 1:1 MACHINE                       |
| 8    | 1    | GL185-019           | END CAP                                              |
| 9    | 1    | GL185-020           | RETAINING RING - ROTOR                               |
| 10   | 8    | GL185-073           | BODY BOLT                                            |
| 11   | 1    | GL100-088           | KEY - STATOR CORE TO BASE                            |
| 12   | 1    | GL185-089           | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL          |
| 13   | 1    | GL185-090           | BEARING, SEALED SPHERICAL ROLLER                     |
| 14   | 1    | GL185-091           | BEARING, SEALED SPHERICAL ROLLER                     |
| 15   | 2    | GL130-092           | RETAINING RING - SHAFT                               |
| 16   | 1    | GL100-093           | RETAINING RING - HOUSING                             |
| 17   | 1    | GL185-094           | CLAMP RING - STATOR ASSEMBLY                         |
| 18   | 1    | GL185-095           | KEY - MAIN SHAFT TO ROTOR                            |
| 19   | 1    | GL185-100           | WINDING ASSEMBLY - 40 POLE                           |
| 20   | 1    | GL185-104           | CAP                                                  |
| 21   | 1    | GL185-143           | DISC BRAKE (MAYR 10) ASSEMBLY                        |
|      | 21.1 | 1                   | GL185-143-115 MAYR #10; RSD 10/894.210.03            |
|      | 21.2 | 1                   | 143-001 BRAKE BASE                                   |
|      | 21.3 | 1                   | 143-003 COVER - MAYR #10 ELECTRICAL                  |
|      | 21.4 | 2                   | 1" WASHER Helical Spring Lock Washers                |
|      | 21.5 | 2                   | 1-8 UNC - 3.25 Hex Cap Screw                         |
|      | 21.6 | 4                   | 5/8 - 11 UNC x 2.5" SOCKET HEAD CAP SCREW            |
|      | 21.7 | 4                   | 5/8 WASHER STANDARD WASHER                           |
|      | 21.8 | 1                   | M10 x 1.5 x 12 mm SHCS - METRIC                      |
|      | 21.9 | AS                  | 143-026 BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)       |
|      |      | NEC                 | 143-027 BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)       |
| 22   | 2    | GL185BS-156-5       | SHIPPING BOLT                                        |
|      | AS   | GL185-157-05        | OUTBOARD STAND SHIM - 0.005" GL185 A-STAND, 25" T.W. |
|      | NEC  | GL185-157-10        | OUTBOARD STAND SHIM - 0.010" GL185 A-STAND, 25" T.W. |
|      |      | GL185-157-31        | OUTBOARD STAND SHIM - 0.031" GL185 A-STAND, 25" T.W. |
| 24   | 1    | GL185-159           | HOFFMAN ELECTRICAL ENCLOSURE, A12064CH MODIFIED      |
| 25   | 1    | GL100-165-1         | FELT DUST SEAL                                       |
| 26   | 6    | 1 - 8 UNC x 4"      | HEX HEAD CAP SCREW                                   |
| 27   | 6    | 1" WASHER           | SAE WASHER                                           |
| 28   | 8    | 13/16 WASHER        | HEAVY LOCK WASHER                                    |
| 29   | 4    | 3/4 - 10 UNC        | HEAVY HEX NUT                                        |
| 30   | 4    | 3/4 WASHER          | SAE WASHER                                           |
| 31   | 1    | 5/8-11 UNC x 0.625  | Hexagon Socket Set Screw - Flat Point                |
| 32   | 6    | 3/8-16 UNC x 4      | FLAT HEAD CAP SCREWS                                 |
| 33   | 6    | 3/8 - 16 UNC x 1.25 | SOCKET HEAD CAP SCREW                                |
| 34   | 6    | 3/8 - 16 UNC x 1.5  | SOCKET HEAD CAP SCREW                                |
| 35   | 4    | 3/8-16 UNC x 0.5    | Hex Flange Screw - Regular Thread - Inch             |
| 36   | 12   | 3/8 Washers         | SHCS Lock Washers (High Collar)                      |
| 37   | 4    | #8 - 32 UNC - 1/4   | Hexagon Socket Head Cap Screw                        |
| 38   | 1    | ECN 113 52810061    | 50mm HEIDENHAIN ENCODER                              |

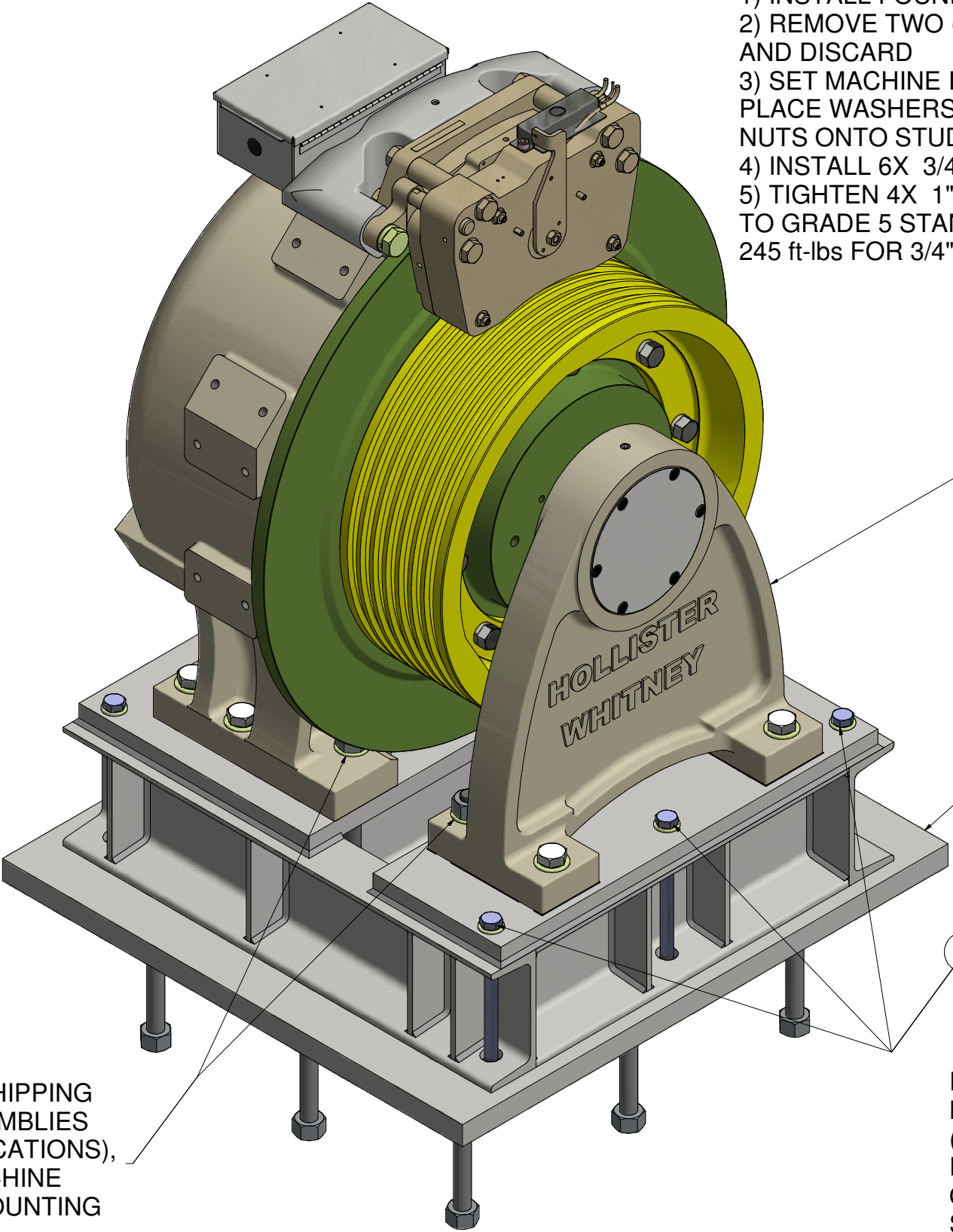
| MACHINE # | WINDING P/N   | COIL/WINDING<br>EFFICIENCY (%) | FRAME/MAGNET<br>SIZE (mm) | VOLTAGE<br>(Vac) | MACHINE<br>SPEED<br>(RPM) | CAR SPEED<br>(fpm) |
|-----------|---------------|--------------------------------|---------------------------|------------------|---------------------------|--------------------|
| GL185-35L | GL185-170-350 | 90                             | 185                       | 170              | 53.5                      | 350                |
| GL185-35H | GL185-360-350 | 90                             | 185                       | 360              | 53.5                      | 350                |
| GL185-50L | GL185-170-500 | 90                             | 185                       | 170              | 76.4                      | 500                |
| GL185-50H | GL185-360-500 | 90                             | 185                       | 360              | 76.4                      | 500                |
| GL185-70L | GL185-170-700 | 90                             | 185                       | 170              | 107.0                     | 700                |

|  |  |  |   |                                       |  |                                                                 |             |                                     |                                                                                                                           |                          |  |
|--|--|--|---|---------------------------------------|--|-----------------------------------------------------------------|-------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
|  |  |  |   |                                       |  |                                                                 |             |                                     |                                                                                                                           | WEIGHT: 4386.1 lbmass    |  |
|  |  |  |   |                                       |  | HOLLISTER-WHITNEY<br>ELEVATOR CORP.                             |             |                                     |                                                                                                                           |                          |  |
|  |  |  |   |                                       |  | TITLE<br>GEARLESS MACHINE (3000 LBS MAX CAPACITY); 1:1<br>ROPED |             |                                     |                                                                                                                           |                          |  |
|  |  |  |   |                                       |  | DRAWN BY<br>LTL                                                 | SCALE<br>NA | MATERIAL<br>SEE PARTS LIST<br>ABOVE | DIMENSIONAL TOL.<br>1 PLACE ± 0.01 2 PLACE ± 0.005<br>3&4 PLACE ± 0.001 ANGLES ± 0.1°<br>REF. DIMS. (NOMINAL) ± 0.01/0.05 |                          |  |
|  |  |  |   |                                       |  | SHEET SIZE<br>D                                                 |             | DATE<br>1/17/2014                   |                                                                                                                           | GL185-BS<br>SHEET 1 OF 3 |  |
|  |  |  | B | ADD A-STAND & BRAKE<br>SHIMS, PUR#842 |  | LTL<br>8/26/17                                                  |             |                                     |                                                                                                                           |                          |  |
|  |  |  | A | PRODUCTION RELEASE,<br>PUB #631       |  | LTL<br>2/10/14                                                  |             |                                     |                                                                                                                           |                          |  |



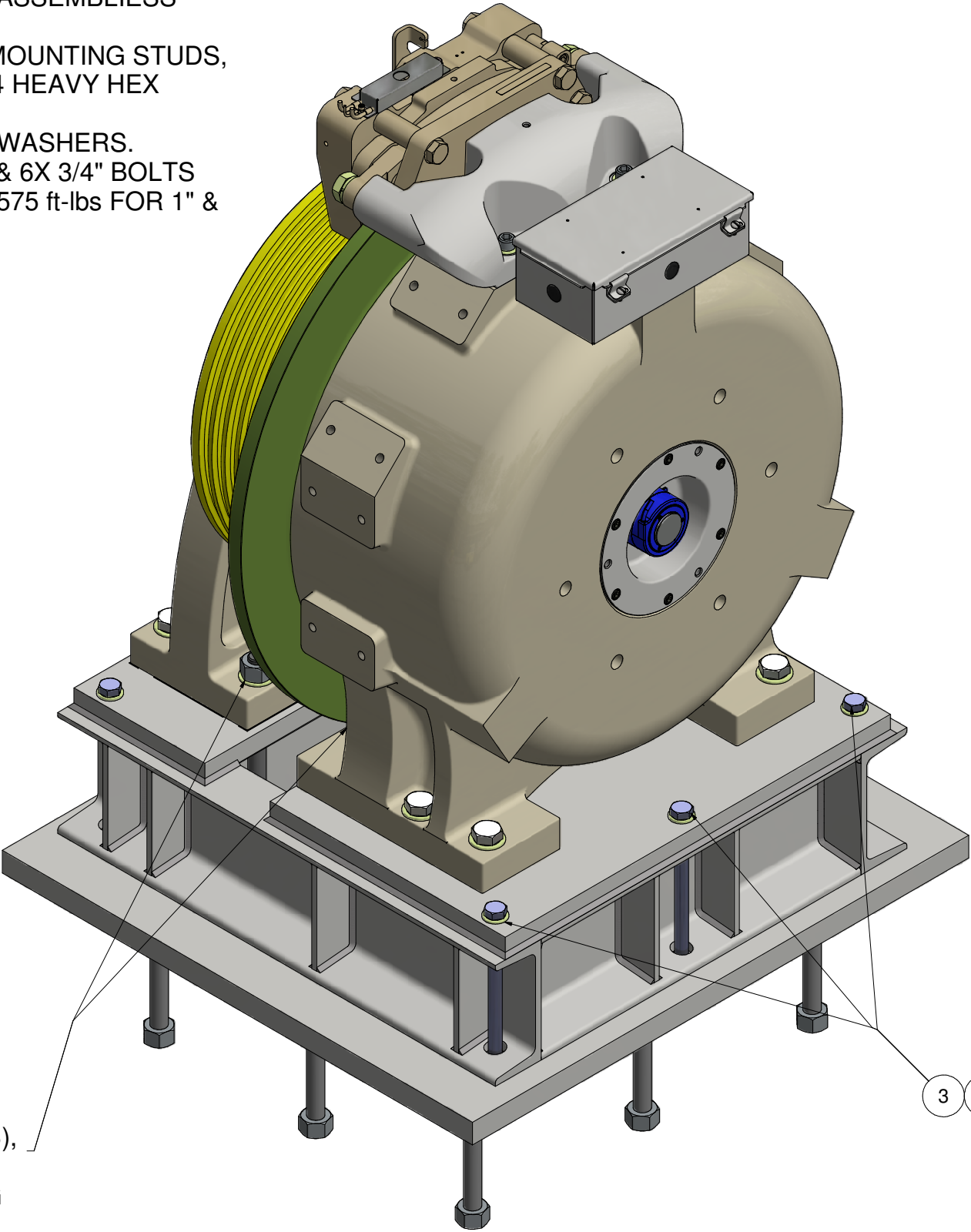
| Parts List |     |                 |                                                     |                 |
|------------|-----|-----------------|-----------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                         | MASS            |
| 1          | 1   | GL185-BS        | GEARLESS MACHINE (3000 LBS MAX CAPACITY); 1:1 ROPED | 4383.321 lbmass |
| 2          | 1   | GL185BS-156     | FOUNDATION PLATE ASSEMBLY - GL185 BASEMENT SET      | 619.203 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                       | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                          | 0.045 lbmass    |

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE TWO (2) SHIPPING BOLT ASSEMBLIES AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



REMOVE SHIPPING  
BOLT ASSEMBLIES  
(THESE LOCATIONS),  
PLACE MACHINE  
OVER 1" MOUNTING  
STUDS

REMOVE SHIPPING  
BOLT ASSEMBLIES  
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STUDS

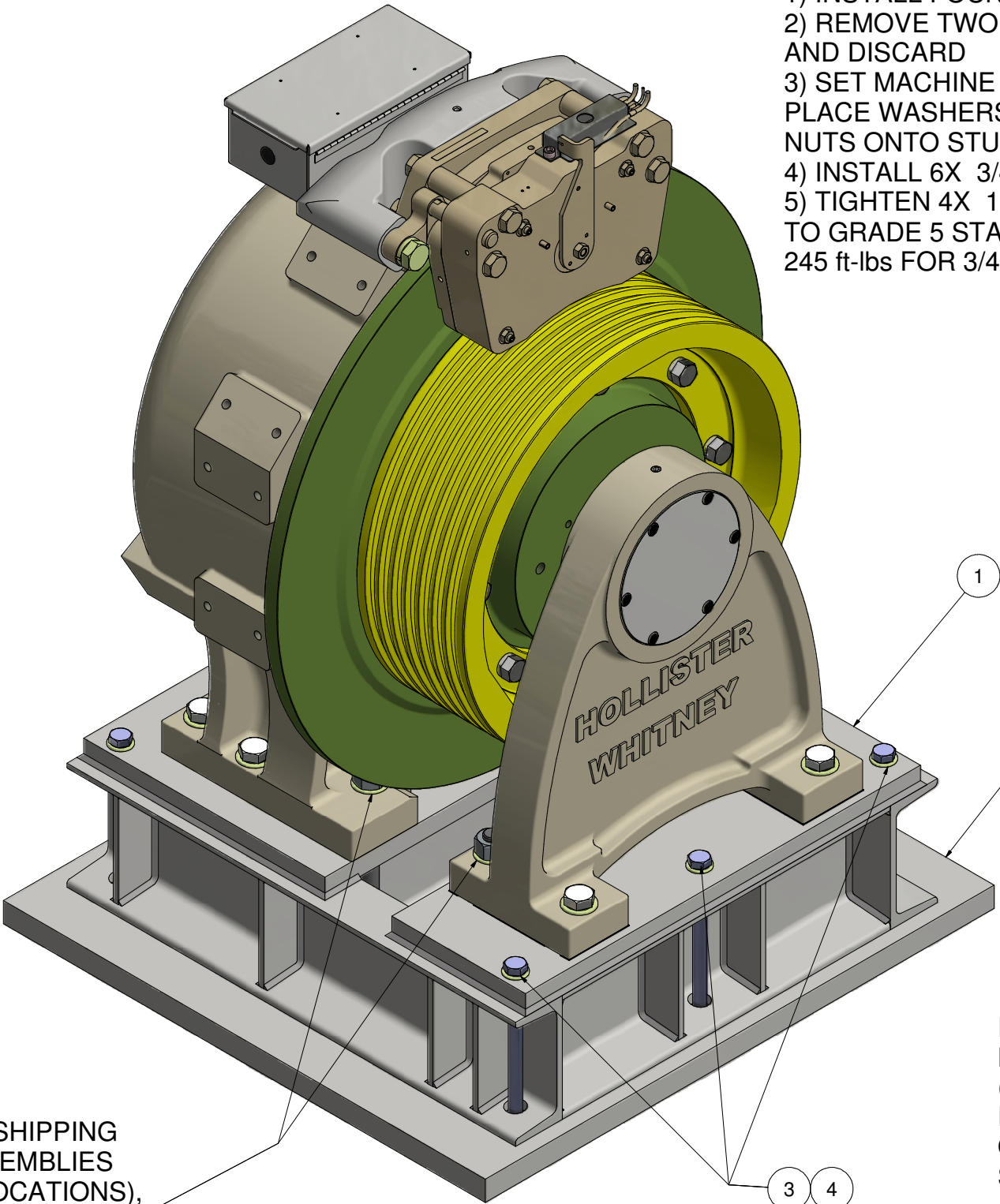


3 4

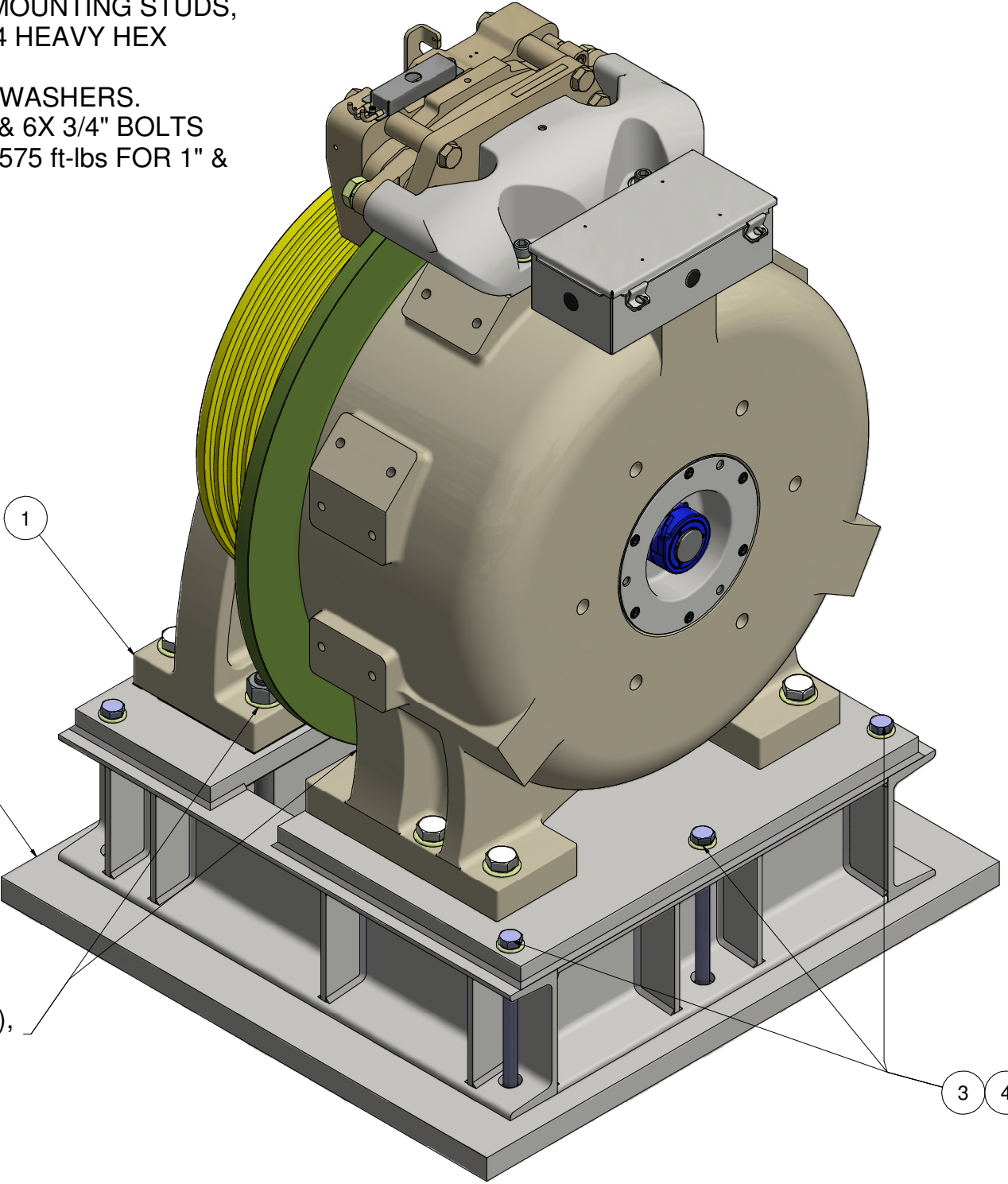


| Parts List |     |                 |                                                     |                 |
|------------|-----|-----------------|-----------------------------------------------------|-----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                         | MASS            |
| 1          | 1   | GL185-BS        | GEARLESS MACHINE (3000 LBS MAX CAPACITY); 1:1 ROPED | 4383.321 lbmass |
| 2          | 1   | GL185BS-156A    | FOUNDATION PLATE ASSEMBLY - GL185 BASEMENT SET      | 593.366 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                       | 1.491 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                          | 0.045 lbmass    |

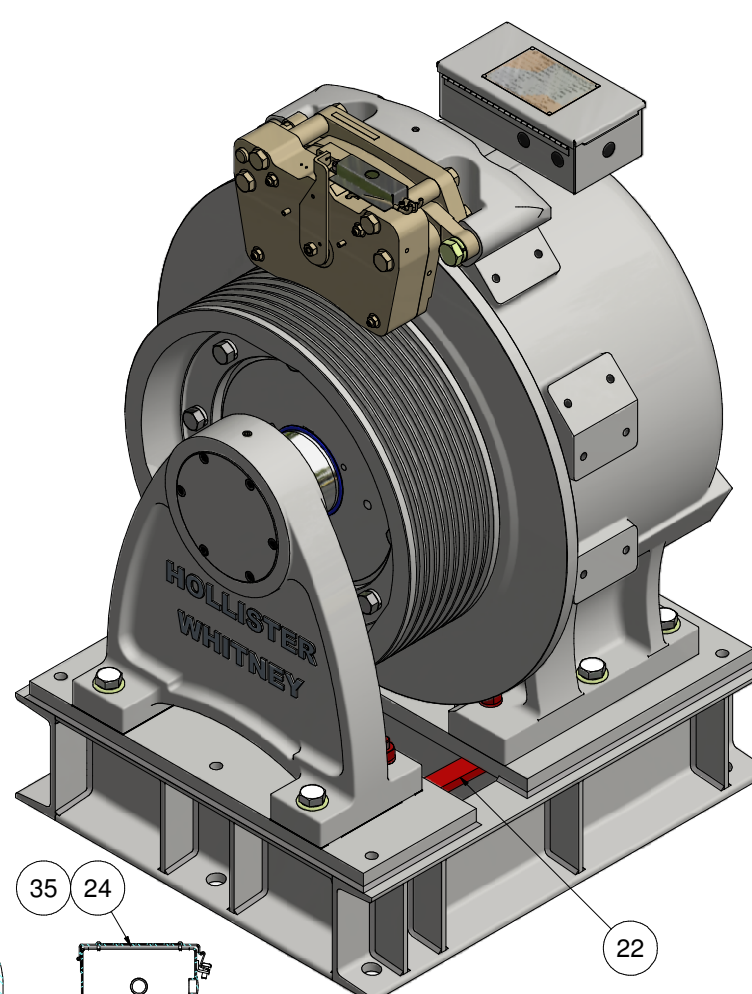
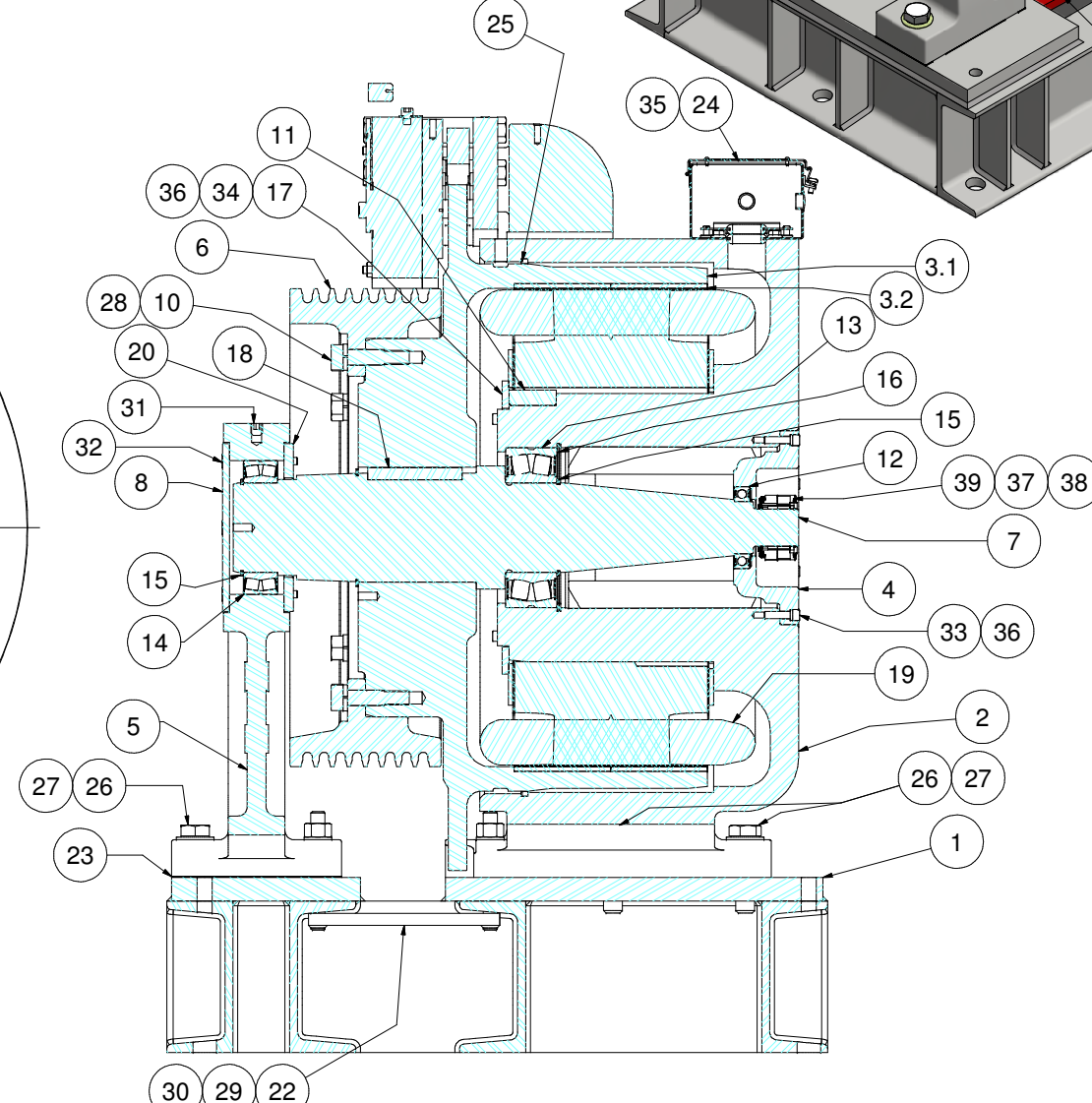
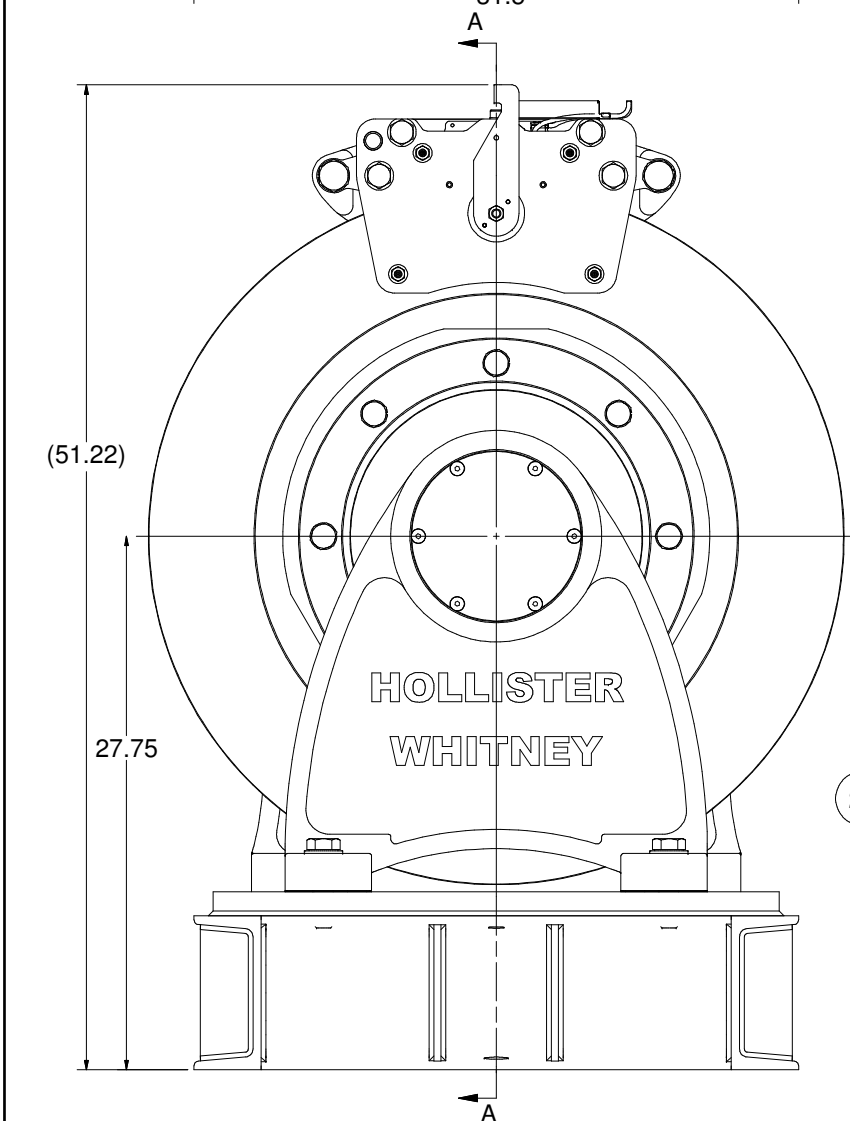
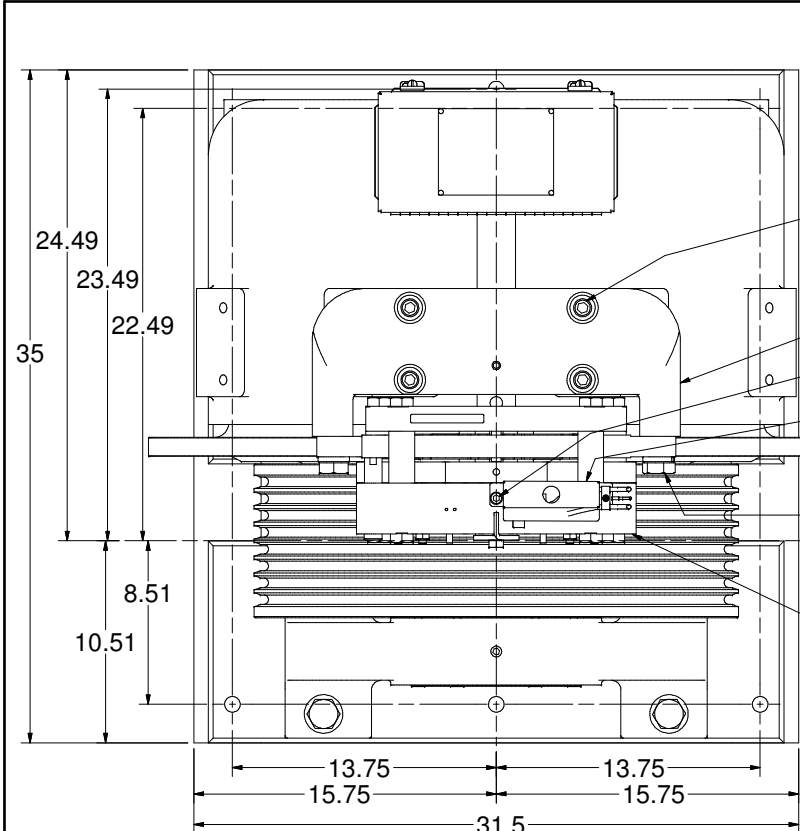
- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE TWO (2) SHIPPING BOLT ASSEMBLIES AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS



REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS



| ITEM | QTY    | PART NUMBER          | DESCRIPTION                                     |
|------|--------|----------------------|-------------------------------------------------|
| 1    | 1      | GL260BS-01           | FINISHING BASE, BASEMENT SET, GL260             |
| 2    | 1      | GL260-001            | BASE HOUSING, MOTOR #GL260                      |
| 3    | 1      | GL260-002            | ROTOR ASSEMBLY - MOTOR #GL260                   |
| 3.1  | 1      | GL260-004            | ROTOR                                           |
|      | 80     | GL260-099            | PERMANENT MAGNET - #GL260 & GL130A MOTORS       |
| 4    | 1      | GL260-005            | BEARING CAP                                     |
| 5    | 1      | GL185-006            | OUTBOARD STAND, AC GEARLESS                     |
| 6    | 1      | GL185-008            | TRACTION SHEAVE, 25"                            |
| 7    | 1      | GL260-018            | MAIN SHAFT                                      |
| 8    | 1      | GL185-019            | END CAP                                         |
| 9    | 1      | GL185-020            | RETAINING RING - ROTOR                          |
| 10   | 8      | GL185-073            | BODY BOLT                                       |
| 11   | 1      | GL100-088            | KEY - STATOR CORE TO BASE                       |
| 12   | 1      | GL185-089            | BEARING, SEALED SINGLE ROW DEEP GROOVE BALL     |
| 13   | 1      | GL130-090            | SEALED SPHERICAL ROLLER BEARING                 |
| 14   | 1      | GL185-090            | BEARING, SEALED SPHERICAL ROLLER                |
| 15   | 2      | GL130-092            | RETAINING RING - SHAFT                          |
| 16   | 1      | GL130-093            | RETAINING RING - HOUSING                        |
| 17   | 1      | GL185-094            | CLAMP RING - STATOR ASSEMBLY                    |
| 18   | 1      | GL185-095            | KEY - MAIN SHAFT TO ROTOR                       |
| 19   | 1      | GL260-100            | WINDING ASSEMBLY - 40 POLE                      |
| 20   | 1      | GL185-104            | CAP                                             |
| 21   | 1      | GL185-143            | DISC BRAKE (MAYR 10) ASSEMBLY                   |
| 21.1 | 1      | GL185-143-115        | MAYR #10; RSD 10/894.210.03                     |
|      | 1      | 143-001              | BRAKE BASE                                      |
| 21.2 | 1      | 143-003              | COVER - MAYR #10 ELECTRICAL                     |
| 21.3 | 1      | 143-003              | COVER - MAYR #10 ELECTRICAL                     |
| 21.4 | 2      | 1-8 UNC - 3.25       | Hex Cap Screw                                   |
| 21.5 | 2      | 1 WASHER             | Helical Spring Lock Washers                     |
| 21.6 | 4      | 5/8 - 11 UNC x 2.5"  | SOCKET HEAD CAP SCREW                           |
| 21.7 | 4      | 5/8 WASHER           | STANDARD WASHER                                 |
| 21.8 | 1      | M10 x 1.5 x 12 mm    | SHCS - METRIC                                   |
| 21.9 | AS NEC | 143-026              | BRAKE HOUSING SHIM - 0.03" (NOT SHOWN)          |
|      | AS NEC | 143-027              | BRAKE HOUSING SHIM - 0.06" (NOT SHOWN)          |
| 22   | 2      | GL185BS-156-5        | SHIPPING BOLT                                   |
| 23   | AS NEC | GL185-157-05         | OUTBOARD STAND SHIM - 0.005"                    |
|      | AS NEC | GL185-157-10         | OUTBOARD STAND SHIM - 0.010"                    |
|      | AS NEC | GL185-157-31         | OUTBOARD STAND SHIM - 0.031"                    |
| 24   | 1      | GL185-159            | HOFFMAN ELECTRICAL ENCLOSURE, A12064CH MODIFIED |
| 25   | 1      | GL100-165-1          | FELT DUST SEAL                                  |
| 26   | 6      | 1 - 8 UNC x 4"       | HEX HEAD CAP SCREW                              |
| 27   | 6      | 1" WASHER            | SAE WASHER                                      |
| 28   | 8      | 13/16 WASHER         | Heavy Helical Spring Lock Washers(Inch Series)  |
| 29   | 4      | 3/4 - 10 UNC         | HEAVY HEX NUT                                   |
| 30   | 4      | 3/4 WASHER           | SAE WASHER                                      |
| 31   | 1      | 5/8-11 UNC x 0.625   | FLAT POINT SET SCREW                            |
| 32   | 6      | 3/8-16 UNC x 4       | FLAT HEAD CAP SCREWS                            |
| 33   | 6      | 3/8 - 16 UNC - 1 1/2 | Hexagon Socket Head Cap Screw                   |
| 34   | 6      | 3/8 - 16 UNC - 1 1/4 | Hexagon Socket Head Cap Screw                   |
| 35   | 4      | 3/8-16 UNC x 0.5     | Hex Flange Screw - Regular Thread - Inch        |
| 36   | 12     | 3/8 Washers          | High-Collar Helical Spring Lock Washers         |
| 37   | 4      | #8 - 32 UNC - 1/4    | Hexagon Socket Head Cap Screw                   |
| 38   | 4      | #8 LOCK WASHER       | EXT. TOOTH LOCK WASHER                          |
| 39   | 1      | ECN 113 52810061     | 50mm HEIDENHAIN ENCODER                         |

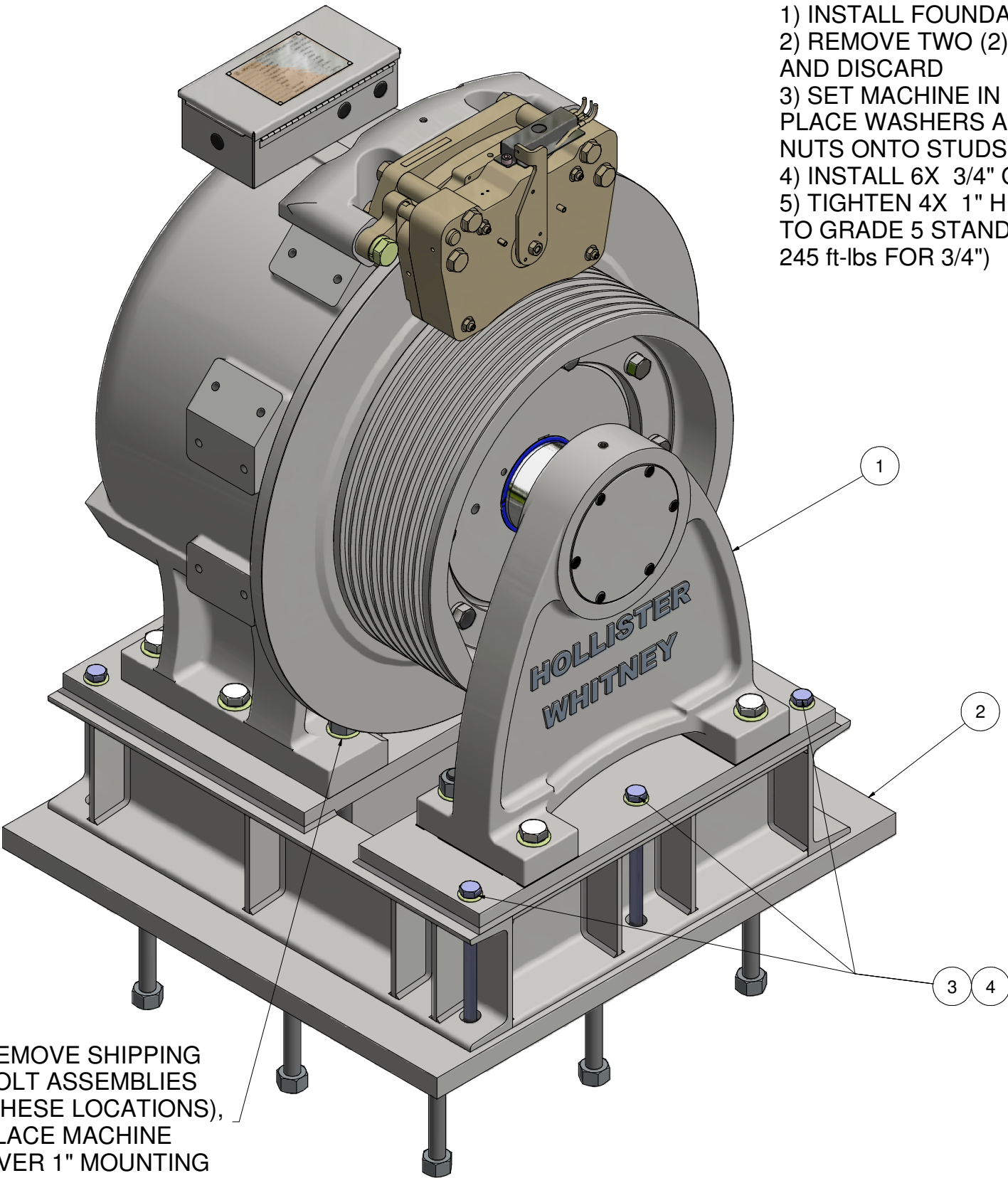
| MACHINE # | WINDING P/N   | COIL/WINDING EFFICIENCY (%) | FRAME/MAGNET SIZE (mm) | VOLTAGE (Vac) | MACHINE SPEED (RPM) | CAR SPEED (fpm) |
|-----------|---------------|-----------------------------|------------------------|---------------|---------------------|-----------------|
| GL260-35L | GL260-170-350 | 90                          | 260                    | 170           | 53.5                | 350             |
| GL260-35H | GL260-360-350 | 90                          | 260                    | 360           | 53.5                | 350             |
| GL260-50L | GL260-170-500 | 90                          | 260                    | 170           | 53.5                | 500             |
| GL260-50H | GL260-360-500 | 90                          | 260                    | 360           | 53.5                | 500             |
| GL260-70L | GL260-170-700 | 90                          | 260                    | 170           | 53.5                | 700             |

|                       |  |   |                                     |                |                                           |       |                |                                                                                                       |
|-----------------------|--|---|-------------------------------------|----------------|-------------------------------------------|-------|----------------|-------------------------------------------------------------------------------------------------------|
| WEIGHT: 4869.0 lbmass |  |   |                                     |                |                                           |       |                |                                                                                                       |
|                       |  |   |                                     |                | HOLLISTER-WHITNEY<br>ELEVATOR CORP.       |       |                |                                                                                                       |
|                       |  |   |                                     |                |                                           |       |                |                                                                                                       |
|                       |  |   |                                     |                | GEARLES MACHINE, 4000# MAX CAP, 1:1 ROPED |       |                |                                                                                                       |
|                       |  |   |                                     |                | DRAWN BY                                  | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                                      |
|                       |  |   |                                     |                | LTL                                       | NA    | SEE PARTS LIST | 1 PLACE ± 0.01<br>2 PLACE ± 0.005<br>3/4 PLACE ± 0.001; ANGLES ± 0.1°<br>REF. OPEN (NOMINAL) ± 0.0150 |
|                       |  | B | ADD A-STAND & BRAKE SHIMS, PUR #842 | LTL<br>11/4/14 | SHEET SIZE                                |       | DATE           | GL260-BS                                                                                              |
|                       |  | A | PRODUCTION RELEASE, PUR #632        | LTL<br>2/12/14 | D                                         |       | 2/12/2014      | SHEET 1 OF 3                                                                                          |

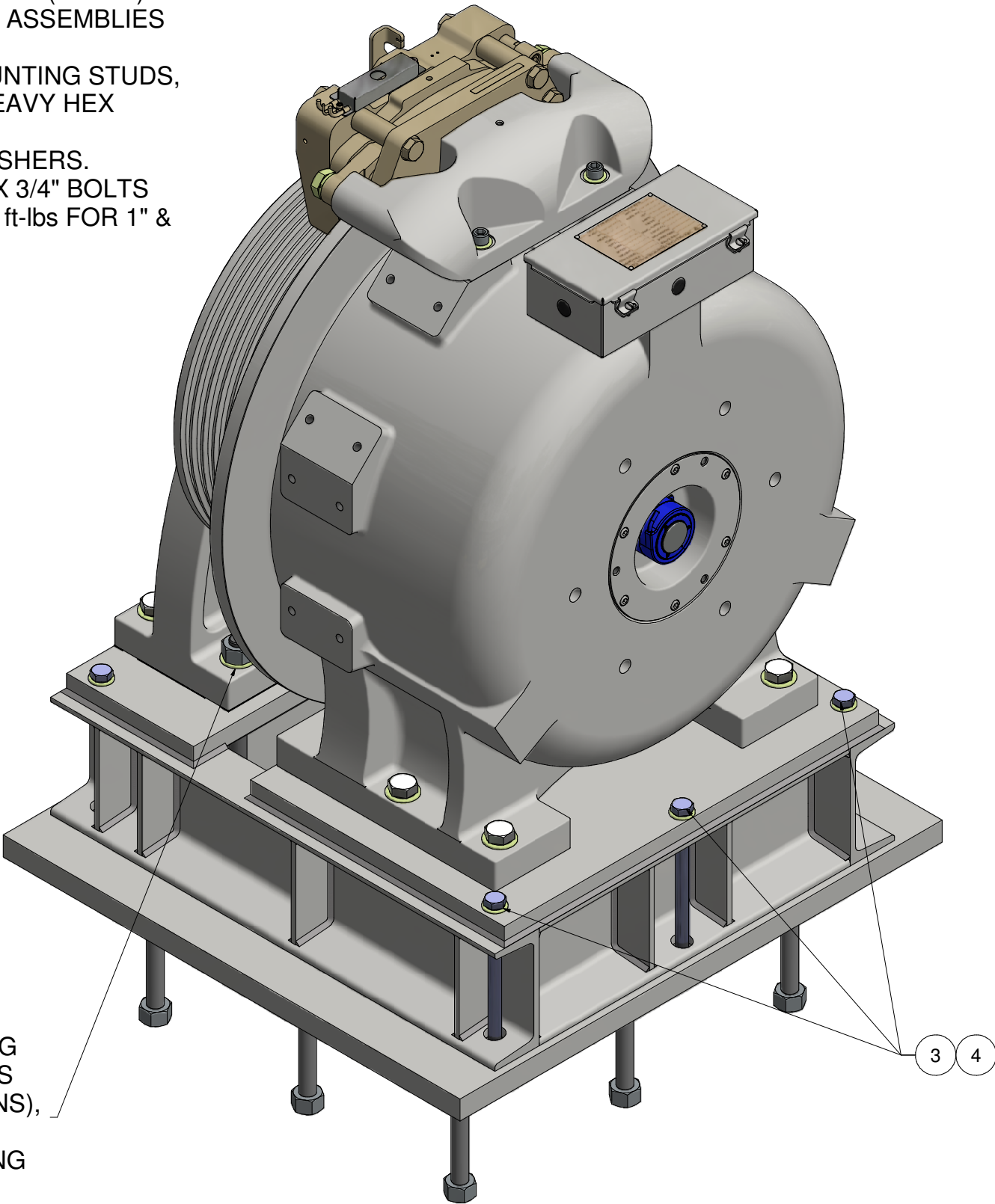


| Parts List |     |                 |                                                |                |
|------------|-----|-----------------|------------------------------------------------|----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                    | MASS           |
| 1          | 1   | GL260-BS        | GEARLES MACHINE, 4000# MAX CAP, 1:1 ROPED      | 4859.88 lbmass |
| 2          | 1   | GL260BS-156     | FOUNDATION PLATE ASSEMBLY - GL260 BASEMENT SET | 619.20 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                  | 1.49 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                     | 0.04 lbmass    |

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE TWO (2) 3/4" SHIPPING BOLT ASSEMBLIES AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS

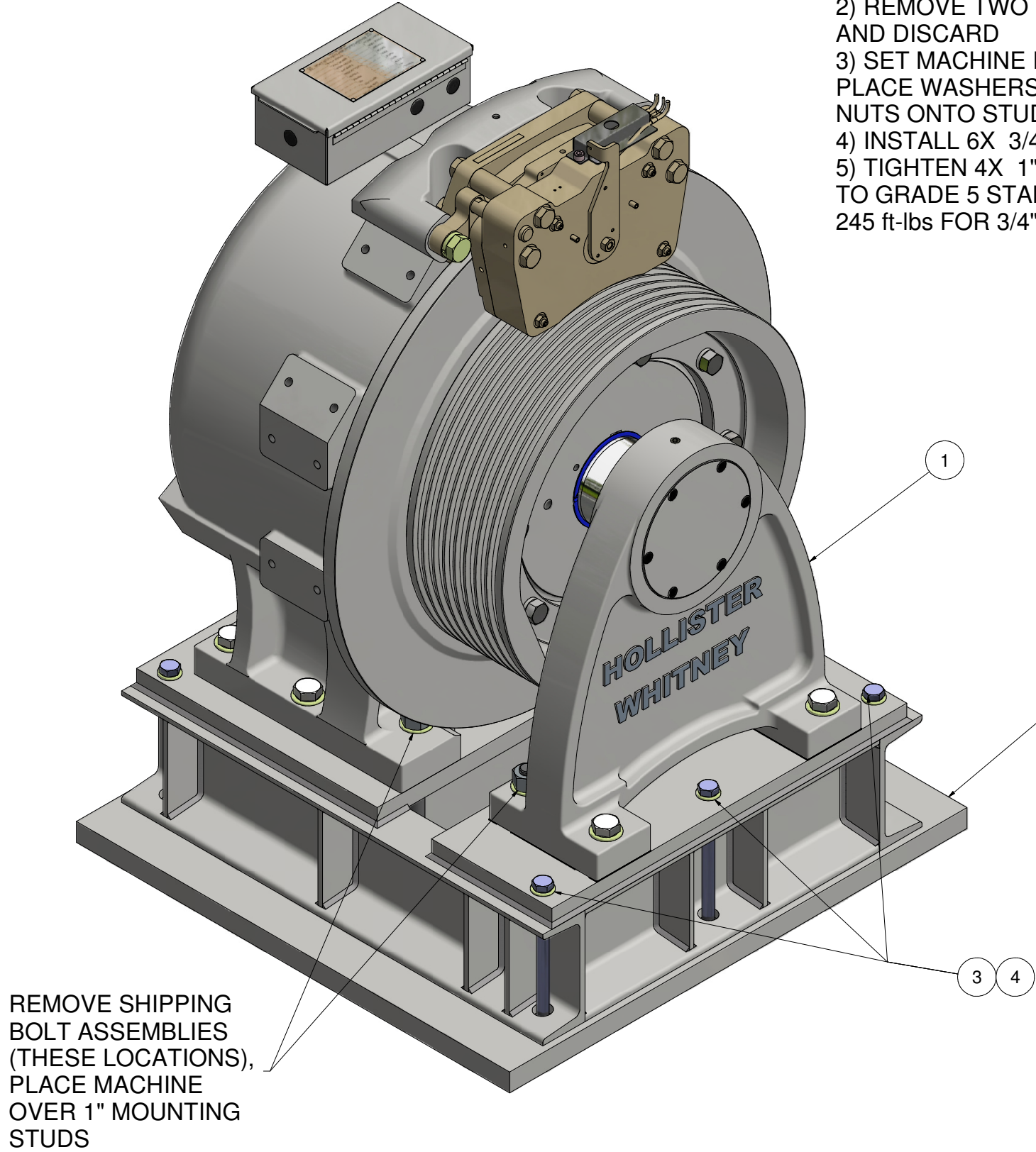


REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS

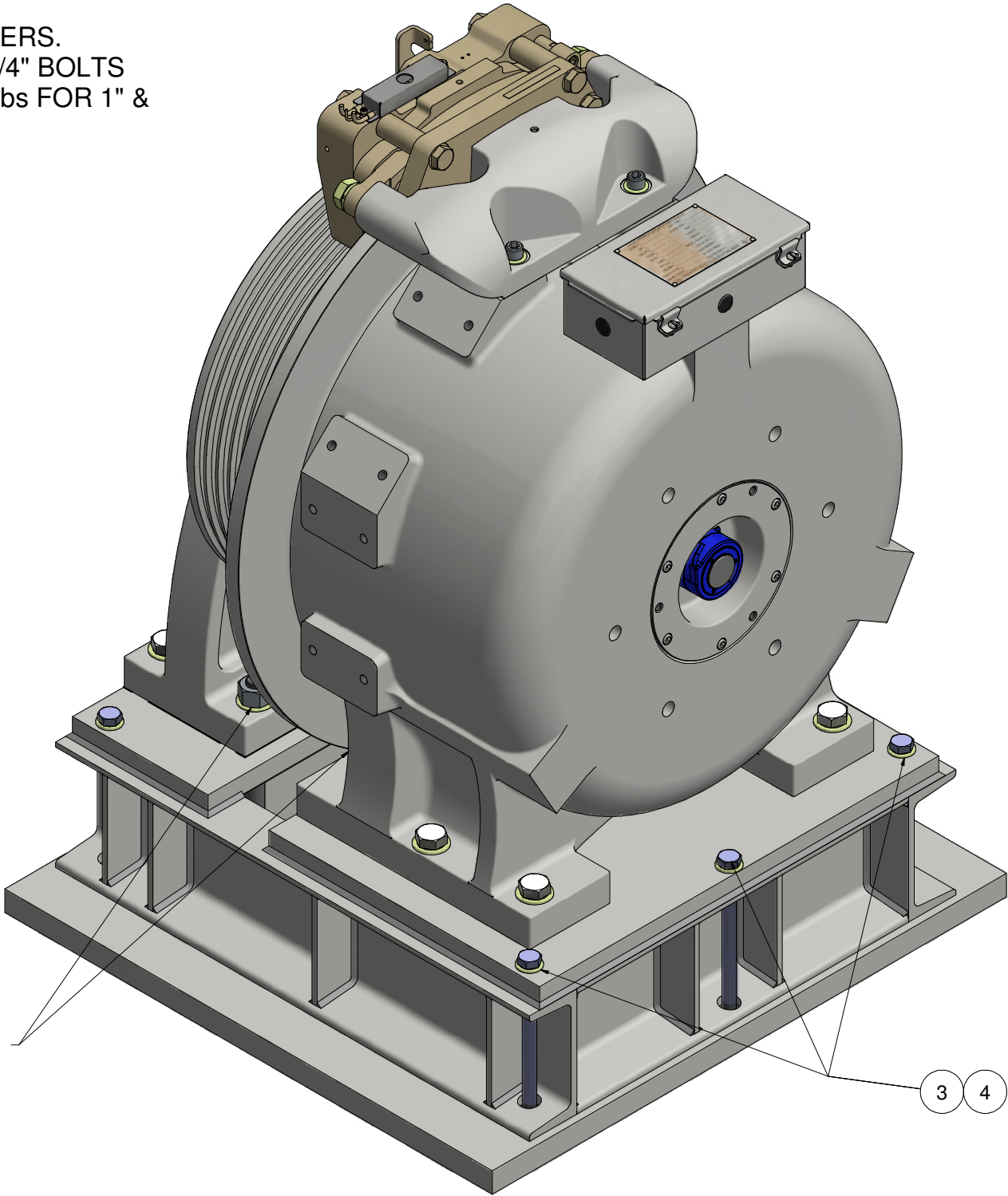


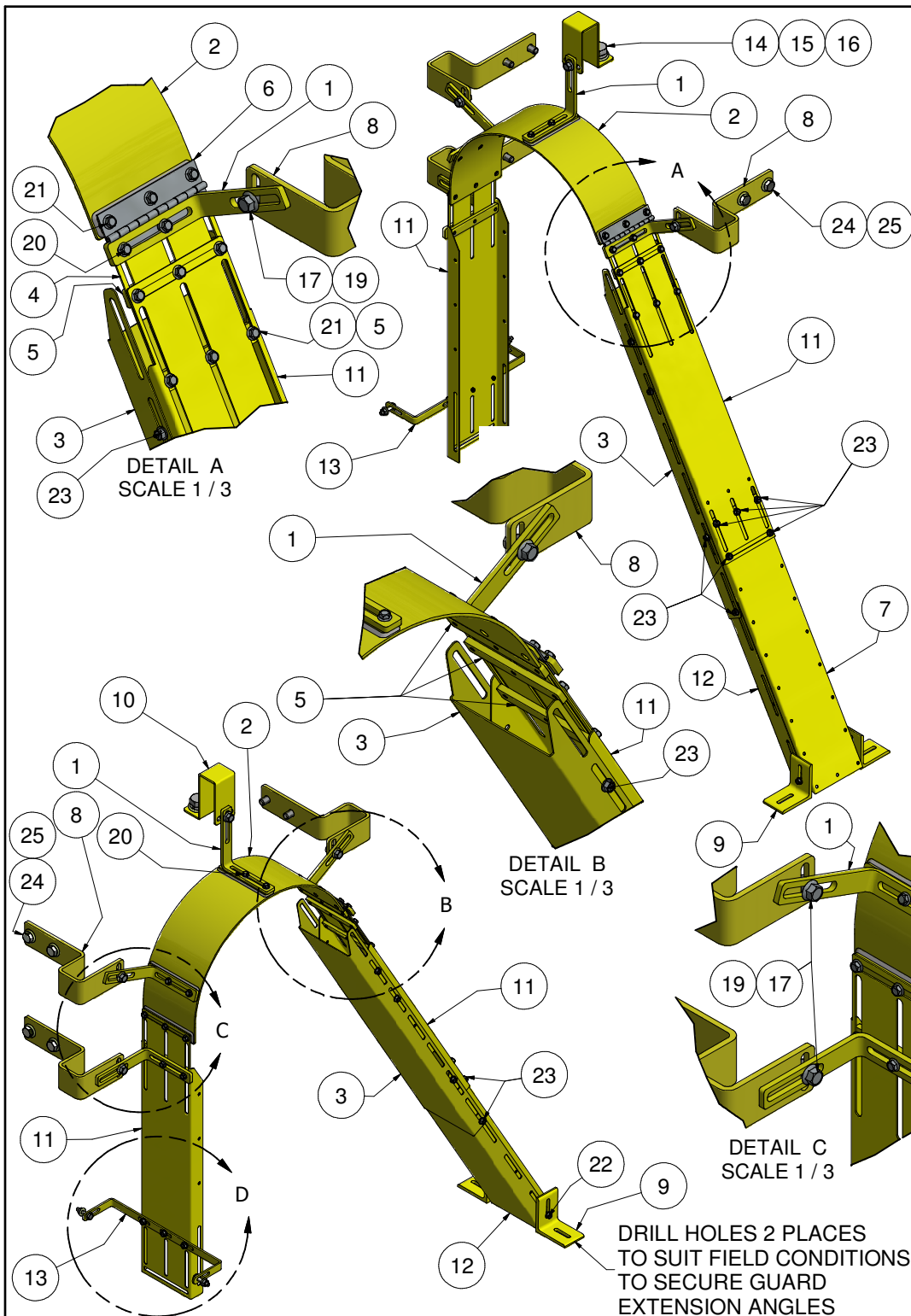
| Parts List |     |                 |                                                |                |
|------------|-----|-----------------|------------------------------------------------|----------------|
| ITEM       | QTY | PART NUMBER     | DESCRIPTION                                    | MASS           |
| 1          | 1   | GL260-BS        | GEARLES MACHINE, 4000# MAX CAP, 1:1 ROPED      | 4859.88 lbmass |
| 2          | 1   | GL260BS-156A    | FOUNDATION PLATE ASSEMBLY - GL260 BASEMENT SET | 593.37 lbmass  |
| 3          | 6   | 3/4-10 X 10.75" | GRADE 5 MINIMUM HEX HEAD BOLT                  | 1.49 lbmass    |
| 4          | 6   | 3/4 WASHER      | SAE WASHER                                     | 0.04 lbmass    |

- 1) INSTALL FOUNDATION PLATE ASSEMBLY (ITEM 2)
- 2) REMOVE TWO (2) 3/4" SHIPPING BOLT ASSEMBLIES AND DISCARD
- 3) SET MACHINE IN PLACE OVER 1" MOUNTING STUDS, PLACE WASHERS AND HAND-SNUG 4 HEAVY HEX NUTS ONTO STUDS
- 4) INSTALL 6X 3/4" GR.5 BOLTS AND WASHERS.
- 5) TIGHTEN 4X 1" HEAVY HEX NUTS & 6X 3/4" BOLTS TO GRADE 5 STANDARDS (APPROX. 575 ft-lbs FOR 1" & 245 ft-lbs FOR 3/4")



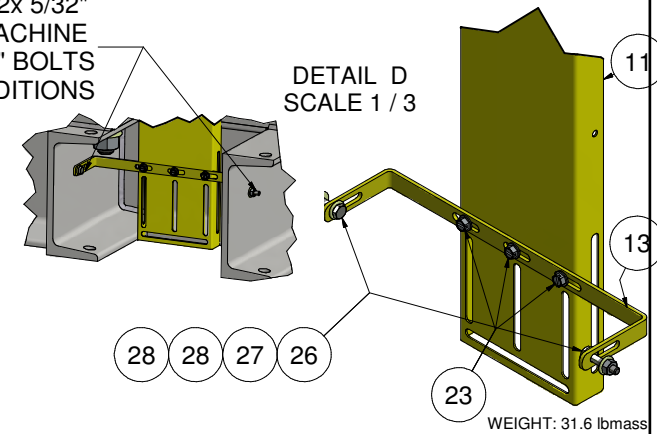
REMOVE SHIPPING BOLT ASSEMBLIES (THESE LOCATIONS), PLACE MACHINE OVER 1" MOUNTING STUDS





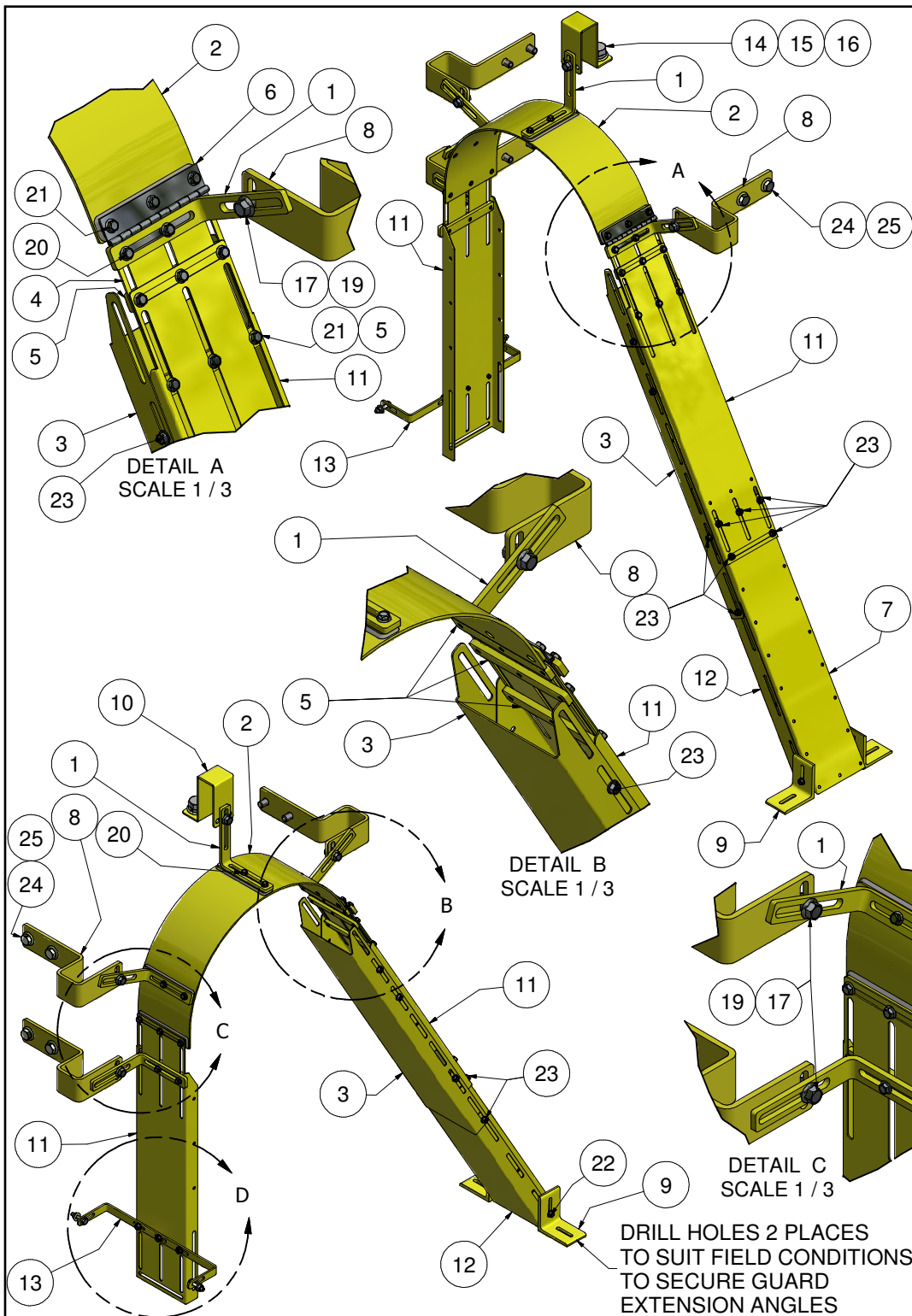
| PARTS LIST |     |                       |                                    |
|------------|-----|-----------------------|------------------------------------|
| ITEM       | QTY | PART NUMBER           | DESCRIPTION                        |
| 1          | 4   | GL101-160             | GUARD BRACKET                      |
| 2          | 1   | GL101-161             | GUARD ASSEMBLY - 15" TW            |
| 3          | 1   | GL101-163             | BOTTOM EXTENSION COVER - LONG      |
| 4          | 1   | GL171-164             | GUARD BRACKET                      |
| 5          | 4   | GL171-165             | GUARD BRACKET                      |
| 6          | 1   | GL171-166             | HINGE - GUARD                      |
| 7          | 1   | GL101-168             | GUARD EXTENSION - LONG             |
| 8          | 3   | GL171-169             | HOUSING TO GUARD BRACKET - HEAVY   |
| 9          | 2   | GL171-170             | FLOOR TO GUARD BRACKET             |
| 10         | 1   | GL171-171             | HOUSING TO GUARD BRACKET - CENTER  |
| 11         | 2   | GL101-172             | TOP EXTENSION - LONG               |
| 12         | 1   | GL101-173             | BOTTOM EXTENSION COVER - SHORT     |
| 13         | 1   | GL101-175             | GUARD TO BASE BRACKET              |
| 14         | 1   | 3/4 - 10 UNC x 1.0    | HEX HEAD CAP SCREW                 |
| 15         | 1   | 3/4" WASHER           | STANDARD LOCK WASHER               |
| 16         | 1   | 3/4 WASHER            | SAE WASHER                         |
| 17         | 3   | 3/8 - 16 UNC x 0.75"  | WHIZ BOLT                          |
| 18         | 1   | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                          |
| 19         | 4   | 3/8 UNC               | WHIZ NUT                           |
| 20         | 8   | 1/4 - 20 UNC x 0.625" | WHIZ BOLT                          |
| 21         | 14  | 1/4 - 20 UNC x 0.375" | WHIZ BOLT                          |
| 22         | 2   | 1/4 - 20 UNC x 0.5"   | HEX WASHER THREAD FORMING - TYPE F |
| 23         | 17  | 1/4 - 20 UNC x 0.375" | HEX WASHER THREAD FORMING - TYPE F |
| 24         | 6   | 1/2 - 13 UNC x 1.0    | HEX HEAD CAP SCREW                 |
| 25         | 6   | 1/2" WASHER           | STANDARD WASHER                    |
| 26         | 2   | 1/4 - 20 UNC x 1.25"  | HEX HEAD CAP SCREW                 |
| 27         | 2   | 1/4 - 20 UNC          | HEX NUT                            |
| 28         | 4   | 1/4" WASHER           | STANDARD WASHER                    |

LOCATE & DRILL 2x 5/32"  
HOLES IN MACHINE  
BASE & SECURE 1/4" BOLTS  
TO SUIT FIELD CONDITIONS



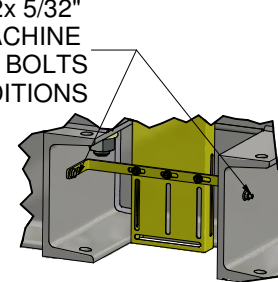
|  |  |  |  |   |                                  |                                                                     |              |                            |                                                                             |
|--|--|--|--|---|----------------------------------|---------------------------------------------------------------------|--------------|----------------------------|-----------------------------------------------------------------------------|
|  |  |  |  |   |                                  | HOLLISTER-WHITNEY                                                   |              |                            |                                                                             |
|  |  |  |  |   |                                  | ELEVATOR CO. LLC                                                    |              |                            |                                                                             |
|  |  |  |  |   |                                  | TITLE<br>GUARD ASSEMBLY - SMALL FRAME GEARLESS<br>MACHINE, 15" T.W. |              |                            |                                                                             |
|  |  |  |  |   |                                  | DRAWN<br>BY<br>LTL                                                  | SCALE<br>1/6 | MATERIAL<br>SEE PARTS LIST | REFERENCE TOL.<br>ALL DIMENSIONS REFERENCE<br>UNLESS OTHERWISE<br>SPECIFIED |
|  |  |  |  |   |                                  | SHEET SIZE<br>C                                                     |              | DATE<br>12/12/2017         | GL101-176<br>SHEET 1 OF 1                                                   |
|  |  |  |  | A | PRODUCTION RELEASE,<br>PUR # 921 | LTL<br>12/13/17                                                     |              |                            |                                                                             |



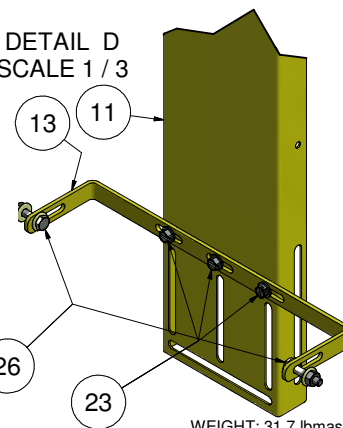


|      |     |                       | PARTS LIST                         |  |
|------|-----|-----------------------|------------------------------------|--|
| ITEM | QTY | PART NUMBER           | DESCRIPTION                        |  |
| 1    | 4   | GL101-160             | GUARD BRACKET                      |  |
| 2    | 1   | GL101-161-1           | GUARD ASSEMBLY - 15.75" TW         |  |
| 3    | 1   | GL101-163             | BOTTOM EXTENSION COVER - LONG      |  |
| 4    | 1   | GL171-164             | GUARD BRACKET                      |  |
| 5    | 4   | GL171-165             | GUARD BRACKET                      |  |
| 6    | 1   | GL171-166             | HINGE - GUARD                      |  |
| 7    | 1   | GL101-168             | GUARD EXTENSION - LONG             |  |
| 8    | 3   | GL171-169             | HOUSING TO GUARD BRACKET - HEAVY   |  |
| 9    | 2   | GL171-170             | FLOOR TO GUARD BRACKET             |  |
| 10   | 1   | GL171-171             | HOUSING TO GUARD BRACKET - CENTER  |  |
| 11   | 2   | GL101-172             | TOP EXTENSION - LONG               |  |
| 12   | 1   | GL101-173             | BOTTOM EXTENSION COVER - SHORT     |  |
| 13   | 1   | GL101-175             | GUARD TO BASE BRACKET              |  |
| 14   | 1   | 3/4 - 10 UNC x 1.0    | HEX HEAD CAP SCREW                 |  |
| 15   | 1   | 3/4" WASHER           | STANDARD LOCK WASHER               |  |
| 16   | 1   | 3/4" WASHER           | SAE WASHER                         |  |
| 17   | 3   | 3/8 - 16 UNC x 0.75"  | WHIZ BOLT                          |  |
| 18   | 1   | 3/8 - 16 UNC x 0.625" | WHIZ BOLT                          |  |
| 19   | 4   | 3/8 UNC               | WHIZ NUT                           |  |
| 20   | 8   | 1/4 - 20 UNC x 0.625" | WHIZ BOLT                          |  |
| 21   | 14  | 1/4 - 20 UNC x 0.375" | WHIZ BOLT                          |  |
| 22   | 2   | 1/4 - 20 UNC x 0.5"   | HEX WASHER THREAD FORMING - TYPE F |  |
| 23   | 17  | 1/4 - 20 UNC x 0.375" | HEX WASHER THREAD FORMING - TYPE F |  |
| 24   | 6   | 1/2 - 13 UNC x 1.0    | HEX HEAD CAP SCREW                 |  |
| 25   | 6   | 1/2" WASHER           | STANDARD WASHER                    |  |
| 26   | 2   | 1/4 - 20 UNC x 1.25"  | HEX HEAD CAP SCREW                 |  |
| 27   | 2   | 1/4 - 20 UNC          | HEX NUT                            |  |
| 28   | 4   | 1/4" WASHER           | STANDARD WASHER                    |  |

LOCATE & DRILL 2x 5/32"  
HOLES IN MACHINE  
BASE & SECURE 1/4" BOLTS  
TO SUIT FIELD CONDITIONS

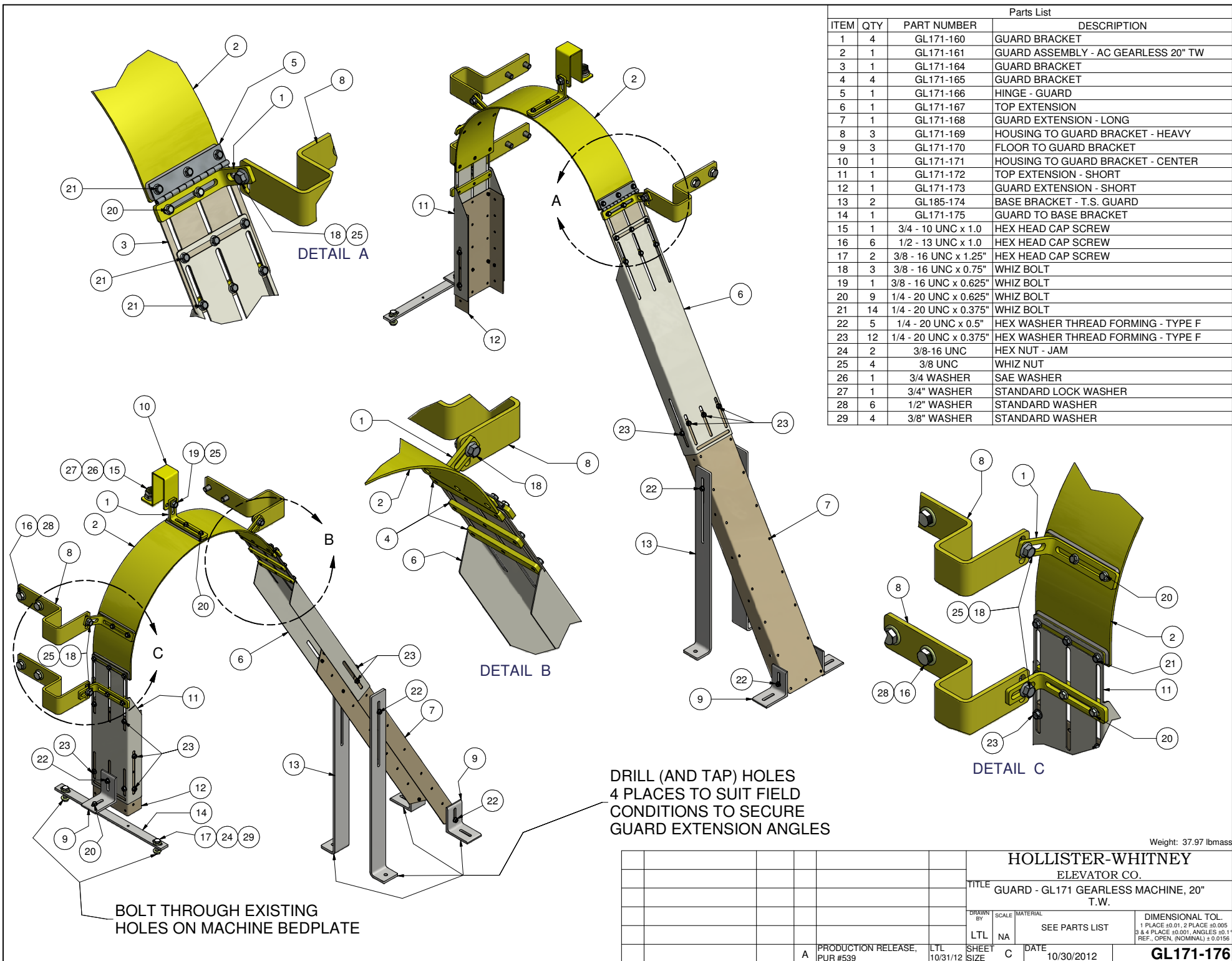


DETAIL D  
SCALE 1 / 3

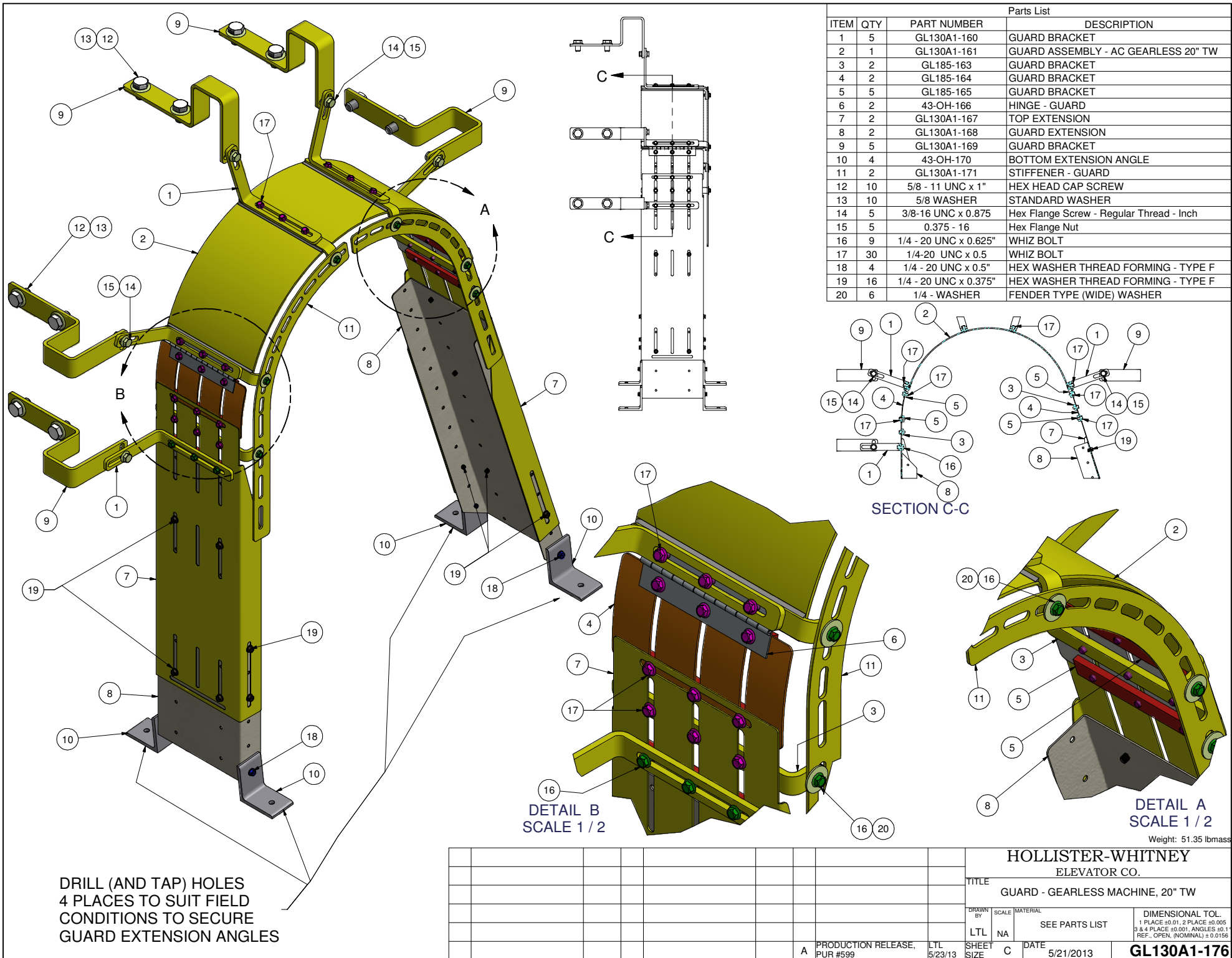


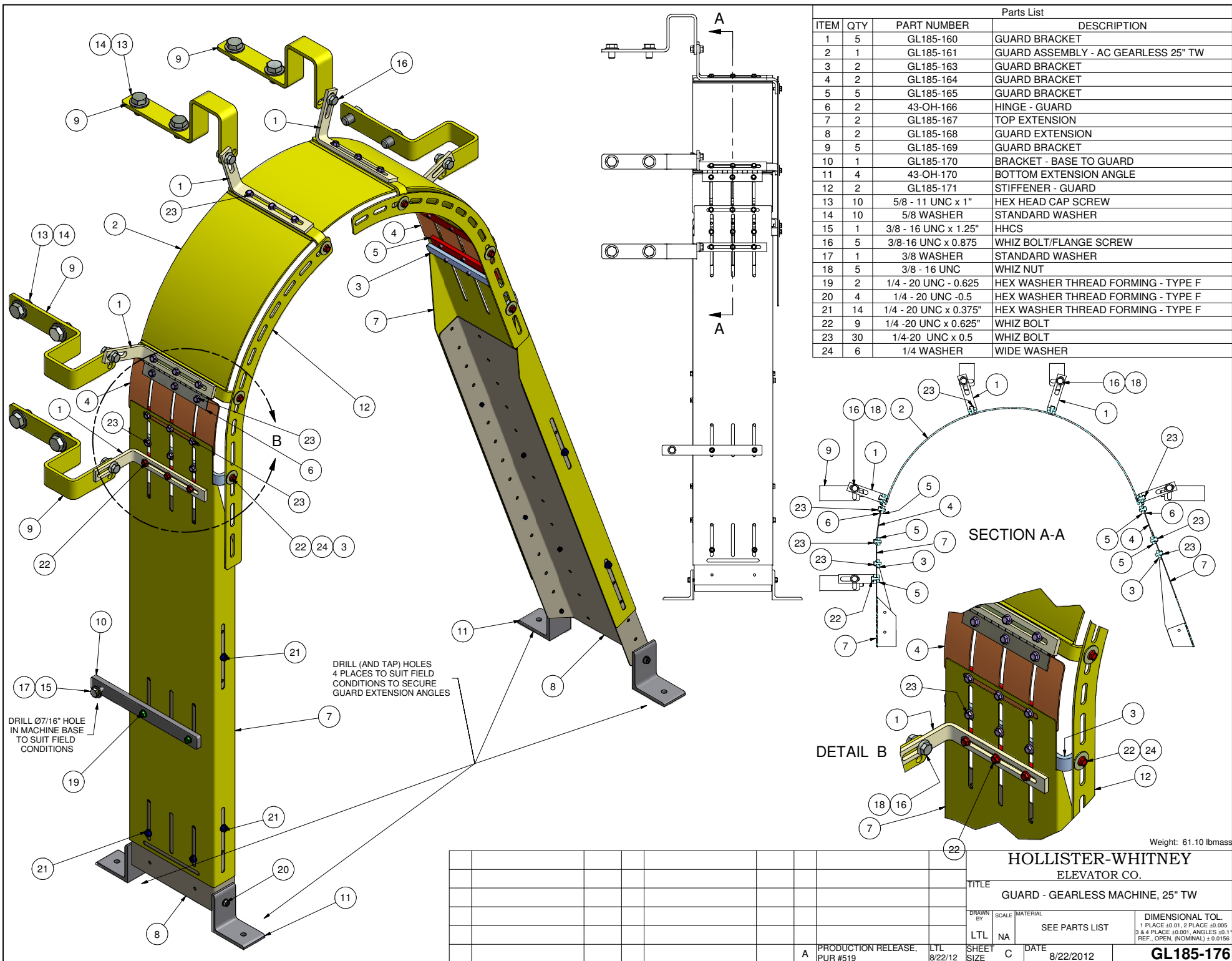
WEIGHT: 31.7 lbmass

|            |  |         |  |                |  |                                                               |  |                                                           |  |
|------------|--|---------|--|----------------|--|---------------------------------------------------------------|--|-----------------------------------------------------------|--|
|            |  |         |  |                |  | HOLLISTER-WHITNEY<br>ELEVATOR CO. LLC                         |  |                                                           |  |
|            |  |         |  |                |  | TITLE<br>GUARD - SMALL FRAME GEARLESS MACHINE, 15.75"<br>T.W. |  |                                                           |  |
| DRAWN BY   |  | SCALE   |  | MATERIAL       |  | REFERENCE TOL.                                                |  | ALL DIMENSIONS REFERENCE<br>UNLESS OTHERWISE<br>SPECIFIED |  |
| LTL        |  | 1/6     |  | SEE PARTS LIST |  |                                                               |  |                                                           |  |
| SHEET SIZE |  | DATE    |  |                |  |                                                               |  |                                                           |  |
| A          |  | 4/16/18 |  | C              |  | 4/16/2018                                                     |  | GL101-177<br>SHEET 1 OF 1                                 |  |





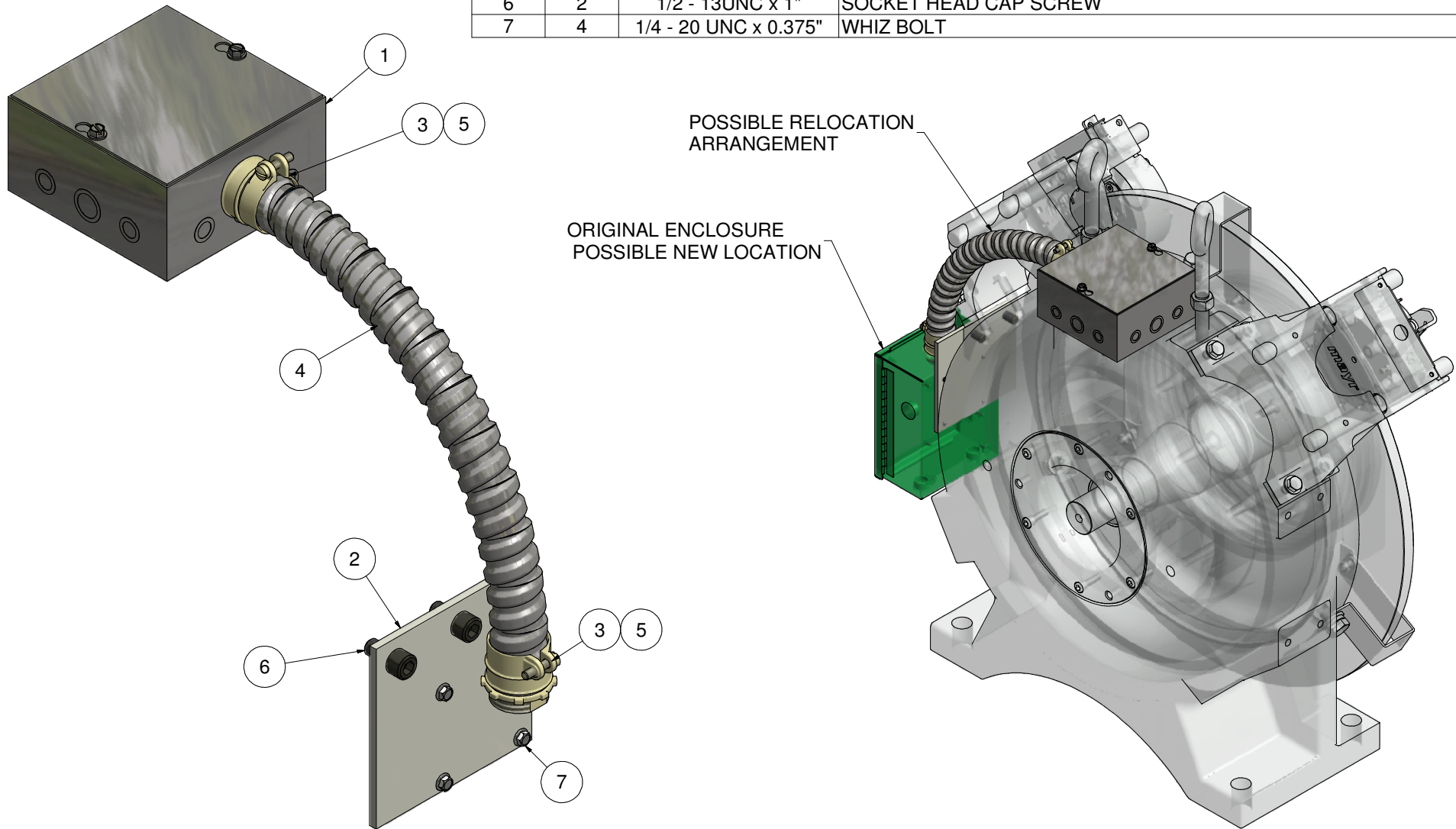








| Parts List |     |                       |                                                             |  |
|------------|-----|-----------------------|-------------------------------------------------------------|--|
| ITEM       | QTY | PART NUMBER           | DESCRIPTION                                                 |  |
| 1          | 1   | GL100-159-11          | 663 SC - COOPER B-LINE BOX - MODIFIED                       |  |
| 2          | 1   | GL100-159-12          | MOUNTING PLATE                                              |  |
| 3          | 2   | GL100-159-13          | 1-1/4 STRAIGHT BOX CONNECTOR (FLEXCON) - REF P/N BRID412DC2 |  |
| 4          | 1   | GL100-159-14          | 1-1/4 FLEX CONDUIT - 3FT LENGTH - REF. P/N GRF A114         |  |
| 5          | 2   | GL100-159-15          | 1-1/4 ANTI SHORT BUSHING - REF. P/N THOMAS & BETTS CO. #425 |  |
| 6          | 2   | 1/2 - 13UNC x 1"      | SOCKET HEAD CAP SCREW                                       |  |
| 7          | 4   | 1/4 - 20 UNC x 0.375" | WHIZ BOLT                                                   |  |

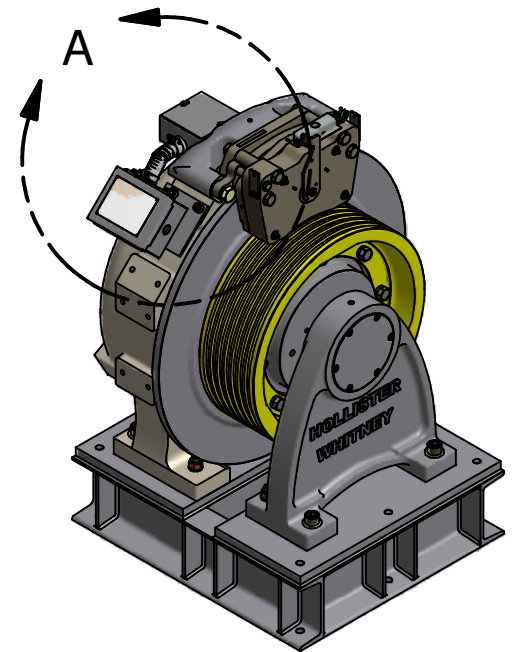
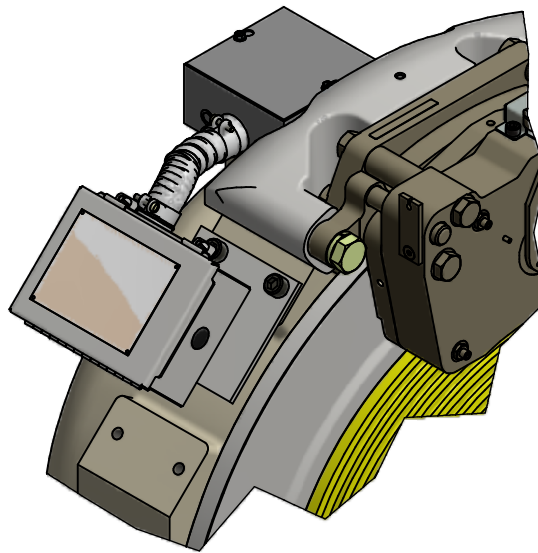
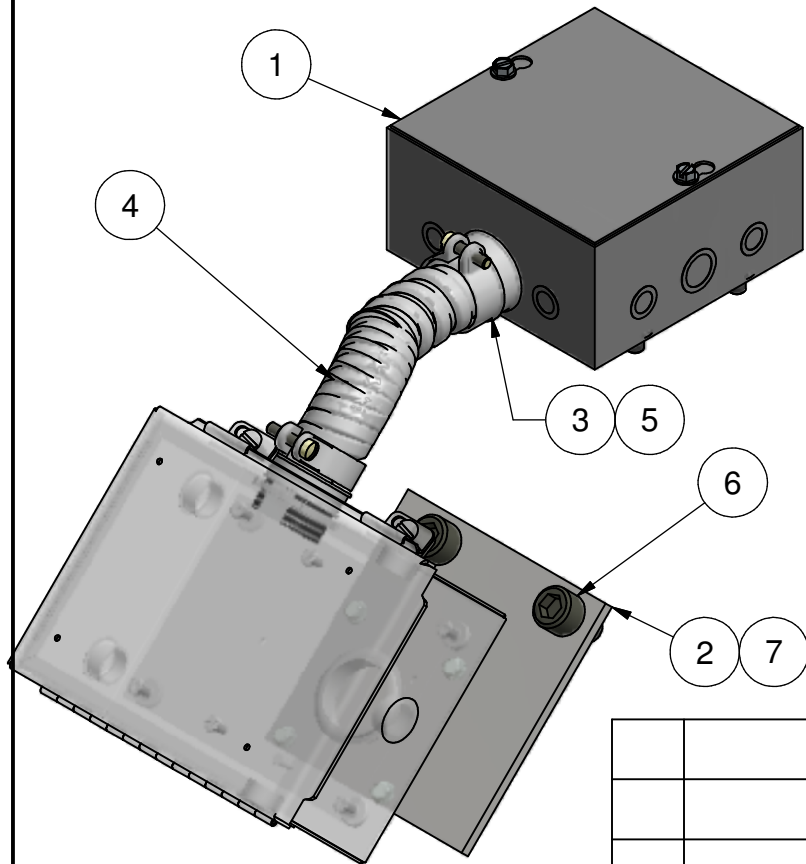


TYPICAL USES; WHEN MOTOR LEADS ARE SHORT AND MUST BE EXTENDED FOR JUNCTION BOX RELOCATION; WHEN RELOCATING JUNCTION BOX DUE TO FIELD SITUATION

|                                                              |  |  |  |  |  |            |         |                |                                                                                               |
|--------------------------------------------------------------|--|--|--|--|--|------------|---------|----------------|-----------------------------------------------------------------------------------------------|
| Weight: 11.05 lbmass                                         |  |  |  |  |  |            |         |                |                                                                                               |
| HOLLISTER-WHITNEY                                            |  |  |  |  |  |            |         |                |                                                                                               |
| ELEVATOR CO.                                                 |  |  |  |  |  |            |         |                |                                                                                               |
| TITLE ELECTRICAL ENCLOSURE RELOCATION KIT - SMALL FRAME ACGL |  |  |  |  |  |            |         |                |                                                                                               |
|                                                              |  |  |  |  |  | DRAWN BY   | SCALE   | MATERIAL       | DIMENSIONAL TOL.                                                                              |
|                                                              |  |  |  |  |  | LTL        | NA      | SEE PARTS LIST | 1 PLACE ±0.01; 2 PLACE ±0.005; 3 & 4 PLACE ±0.001; ANGLES ±0.1° REF., OPEN, (NOMINAL) ±0.0156 |
| B UPDATE, PUR #613                                           |  |  |  |  |  | LTL        | 9/13/13 | DATE           | 12/31/2012                                                                                    |
| A PRODUCTION RELEASE, PUR #555                               |  |  |  |  |  | SHEET SIZE | C       |                | GL100RK-159                                                                                   |

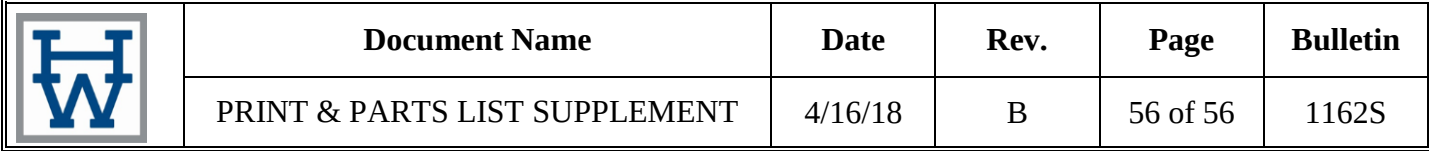


| Parts List |     |                  |                                                             |  |
|------------|-----|------------------|-------------------------------------------------------------|--|
| ITEM       | QTY | PART NUMBER      | DESCRIPTION                                                 |  |
| 1          | 1   | GL130A-159-11    | 663 SC - COOPER B-LINE BOX - MODIFIED                       |  |
| 2          | 1   | GL130A-159-12    | MOUNTING PLATE                                              |  |
| 3          | 2   | GL100-159-13     | 1-1/4 STRAIGHT BOX CONNECTOR (FLEXCON) - REF P/N BRID412DC2 |  |
| 4          | 1   | GL100-159-14     | 1-1/4 FLEX CONDUIT - REF. P/N GRF A114                      |  |
| 5          | 1   | GL100-159-15     | 1-1/4 ANTI SHORT BUSHING (NOT SHOWN) REF. P/N TBCO #425     |  |
| 6          | 2   | 5/8-11 UNC x 1   | SOCKET HEAD CAP SCREW                                       |  |
| 7          | 4   | 1/4-20 UNC x 0.5 | WHIZ BOLT                                                   |  |



|   |  |  |  |  |                                                              |       |                |                                                                                                                                |
|---|--|--|--|--|--------------------------------------------------------------|-------|----------------|--------------------------------------------------------------------------------------------------------------------------------|
|   |  |  |  |  | HOLLISTER-WHITNEY                                            |       |                |                                                                                                                                |
|   |  |  |  |  | ELEVATOR CO.                                                 |       |                |                                                                                                                                |
|   |  |  |  |  | TITLE ELECTRICAL ENCLOSURE RELOCATION KIT - LARGE FRAME ACGL |       |                |                                                                                                                                |
|   |  |  |  |  | DRAWN BY                                                     | SCALE | MATERIAL       | DIMENSIONAL TOL.                                                                                                               |
|   |  |  |  |  | LTL                                                          | NA    | SEE PARTS LIST | 1 PLACE $\pm 0.01$ 2 PLACE $\pm 0.005$<br>3&4 PLACE $\pm 0.001$ , ANGLES $\pm 0.1^\circ$<br>REF., OPEN, (NOMINAL) $\pm 0.0156$ |
|   |  |  |  |  | SHEET SIZE A                                                 |       | DATE 7/15/2013 | GL130ARK-159                                                                                                                   |
| A |  |  |  |  | PRODUCTION RELEASE, PUR #606                                 |       | LTL 7/15/13    |                                                                                                                                |





# Bulletin

1162S

### Initials

[illegible]