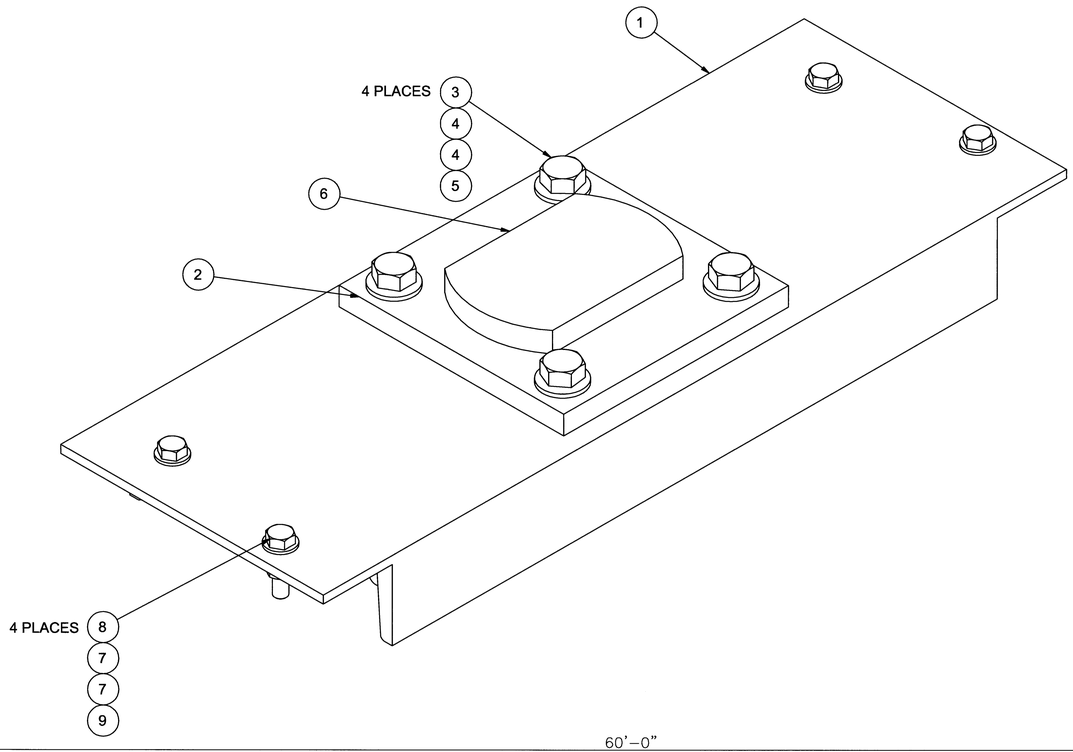
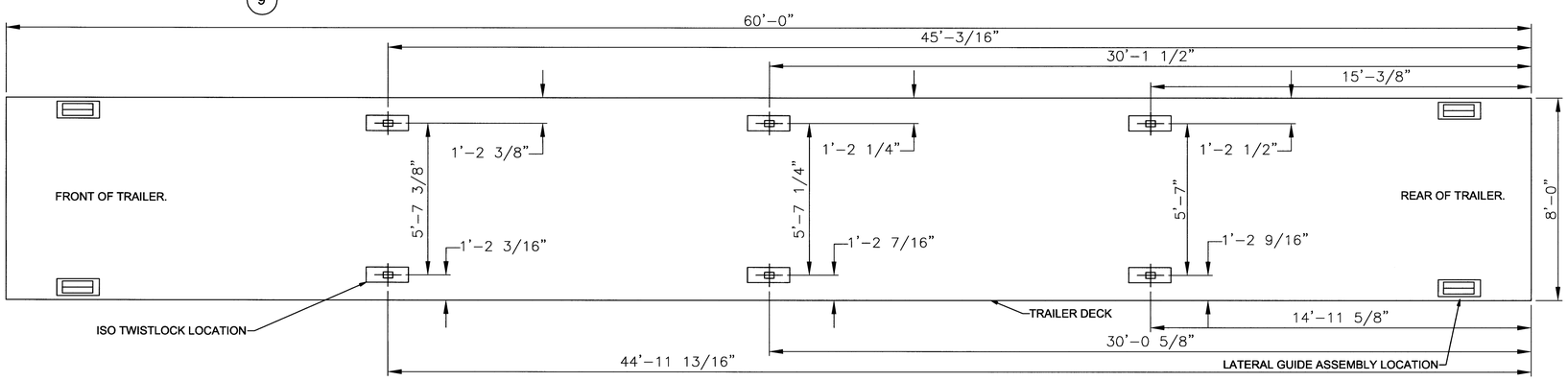
| PARTS LIST | | | | |
|---|---|---|---|---|
| ITEM | QUANTITY | PART NUMBER | DESCRIPTION | MATERIAL SPECIFICATION |
| 1 | 6 | | C–CHANNEL, C7 X 9.8 – 1'–7 7/8" LONG | ASTM A36/A992 |
| 2 | 6 | | PLATE, MOUNTING, 6" X 6" X 1/2" THK | ASTM A36 |
| 3 | 24 | | HEX BOLT, 1/2 – 13 UNC – 1.5" LONG, ZINC PLATED | SAE GRADE 8 |
| 4 | 48 | | WASHER, TYPE A, 1/2" – NARROW | PLAIN CARBON STEEL |
| 5 | 24 | | HEX NUT, 1/2 – 13 UNC, ZINC PLATED | SAE GRADE 8 |
| 6 | 6 | TANDEMLOC T12000E–1G0 | ISO TWISTLOCK | |
| 7 | 80 | | WASHER, TYPE A, 5/16" – NARROW | PLAIN CARBON STEEL |
| 8 | 24 | | HEX BOLT, 5/16 – 18 UNC – 1–1/4" LONG, ZINC PLATED | SAE GRADE 8 |
| 9 | 40 | | HEX NUT, 5/16 – 18 UNC, ZINC PLATED | SAE GRADE 8 |
| 10 | AR | | MAT, FRICTION, 1/4" THICK | RUBBER |
| 11 | 4 | | SHEET, LATERAL GUIDE, 20" X 8" X 10 GAUGE THICK | ASTM A1011 SS GR 30 |
| 12 | 4 | | ANGLE, LATERAL GUIDE, 4" X 4" X 3/8" THICK X 14" LONG | ASTM A36 |
| 13 | 16 | | HEX BOLT, 5/16 – 18 UNC – 2–1/2" LONG, ZINC PLATED | SAE GRADE 8 |




LOCATION OF TIEDOWN MECHANISMS ON TRAILER (DIMENSIONS ARE BASED ON FIELD MEASUREMENTS). SEE NOTES 5 & 6 FOR INSTRUCTIONS ON LOCATING TIEDOWN MECHANISMS.

## GENERAL NOTES:

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN FEET AND INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONING AND TOLERANCES SHALL BE IN ACCORDANCE WITH ASTM STANDARDS.
2. BREAK AND DEBUR ALL SHARP EDGES.
3. OTHER TYPES OF CARBON STEEL MAY BE SUBSTITUTED FOR ASTM A36 PROVIDED THE MECHANICAL PROPERTIES ARE EQUIVALENT OR BETTER.
4. WELDING, WELD PROCEDURES, WELD QUALIFICATIONS, AND WELD INSPECTIONS TO BE IN ACCORDANCE WITH AWS STANDARD D1.1–02 FOR ALL WELDS. WELDS SHALL BE EXAMINED VISUALLY AND SHALL MEET AWS D1.1 ACCEPTANCE CRITERIA.
5. THE TIEDOWN MECHANISM (ISO TWISTLOCK AND MOUNTING HARDWARE) IS TO BE LOCATED, DIMENSIONED, AND TOLERANCED USING THE BASE ASSEMBLY (E–D–039) ISO BLOCK (ITEMS 24 & 25) HOLE AS A TEMPLATE. THE 5/16" C–CHANNEL MOUNTING HOLES WILL BE FIELD LOCATED. DRILL NEW HOLES IN THE LATERAL I–BEAMS (SEE VIEW 1) AS NECESSARY. THE TWO ADJACENT MOUNTING HOLES SHALL STRADDLE THE WEB OF THE LATERAL I–BEAM.
6. SIX ASSEMBLIES SHALL BE FIELD FITTED TO TRAILER NUMBER H–O–64–5792.
7. INSTALLATION OF TIEDOWN ASSEMBLIES WILL REQUIRE REMOVAL OF THE WOOD DECKING. WOOD DECKING MUST BE REPLACED AFTER INSTALLATION. FIELD FIT A 6.5 BY 6.5 INCH SQUARE CUTOUT CENTERED ON THE MOUNTING PLATE (ITEM 2). THIS WILL RESULT IN A QUARTER INCH OF CLEARANCE ALL AROUND THE MOUNTING PLATE FOR MOUNTING PLATE ADJUSTMENT. WOOD DECKING MAY BE COUNTERBORED FOR BOLT HEADS AND CUT AS NECESSARY TO ACCOMODATE INSTALLED TIEDOWN ASSEMBLY.
8. PREP AND CLEAN ALL CARBON STEEL SURFACES. THE PRIMER (IF APPLICABLE) SHALL MEET THE COATING MANUFACTURER'S RECOMMENDATIONS. THE FOLLOWING PRODUCTS ARE CAPABLE OF MEETING THE SUBJECT REQUIREMENTS OR BUYER–APPROVED EQUIVALENT: AMERLOCK 400–HIGH–SOLIDS EPOXY, BAR–RUST 235 OR 236 MULTI–PURPOSE EPOXY, CARBOMASTIC 801 OR 15 LOW ODOR, SHERWIN–WILLIAMS MACROPOXY 646 OR EQUIVALENT. A URETHANE ENAMEL TOP COAT, DEVTHANE 379UVA OR BUYER–APPROVED EQUIVALENT, SHALL BE APPLIED TO THE EXTERIOR SURFACES ONLY. THE SELLER SHALL PROVIDE PRODUCT MATERIAL SAFETY DATA SHEETS (MSDS). THE COATINGS SHALL BE ALLOWED TO CURE COMPLETELY PER THE COATING MANUFACTURER'S RECOMMENDATIONS.
9. PLACE THE FRICTION MAT BETWEEN THE TRAILER DECK AND THE BASE ASSEMBLY (E–D–039) FOR THE FULL LENGTH OF THE TRAILER. ADDITIONAL MATS ARE REQUIRED TO FILL ANY REMAINING GAPS BETWEEN THE BASE ASSEMBLY AND THE TRAILER DECK (DUE TO THE TRAILER CAMBER). (THE MINIMUM WIDTH OF THE FRICTION MAT WILL BE THE FULL WIDTH OF THE CONTAINER BASE ASSEMBLY (E–D–039).
10. AFTER ESTABLISHING ALIGNMENT OF THE TWISTLOCKS AND INSTALLATION OF THE LATERAL GUIDE ASSEMBLIES, PAINT OR TAPE A MINIMUM 1–INCH WIDE LINE ON TOP OF THE LATERAL GUIDE SHEET (ITEM 11) ADJACENT TO EITHER END OF THE LATERAL GUIDE ANGLE (ITEM 12), EXTENDING THE LINE ON TOP OF THE LOWER FLANGE OF THE MAIN I–BEAM. USE HIGH VISIBILITY COLOR (RED OR PINK HUE). USING PAINT OR TAPE, APPLY AN ARROW (FACING FORWARD) TO THE WEB OF THE MAIN I–BEAM DIRECTLY ABOVE THE LATERAL GUIDE ASSEMBLY. APPLY THESE MARKINGS TO ALL FOUR LATERAL GUIDE ASSEMBLIES.
11. INSTALLATION OF THE FOUR (4) LATERAL GUIDE ASSEMBLIES ON THE TRAILER (WOOD DECKING REMAINS IN PLACE) REQUIRE FIELD FIT TO THE BASE ASSEMBLY (E–D–039). FLUSH MOUNT OR RECESS THE LATERAL GUIDE SHEET (ITEM 11) INTO THE WOOD. IF FLUSH MOUNTED TO THE TOP, THE FRICTION MAT (ITEM 10) MUST BE NOTCHED AROUND THE PERIMETER OF THE LATERAL GUIDE SHEET. ONCE THE LATERAL GUIDE ASSEMBLIES ARE LOCATED, DRILL HOLES WHERE EXISTING WOOD DECKING BOLTS ARE LOCATED OR, IF NECESSARY, DRILL FOUR NEW BOLT HOLES FOR EACH GUIDE ASSEMBLY. USE ITEMS 7, 9 AND 13 TO SECURE THE LATERAL GUIDE ASSEMBLIES TO THE TRAILER. TIGHTEN ITEM 13 1/4 TURN PAST SNUG TIGHT TO SECURE. THREADLOCKER (LOCTITE 243 OR EQUIVALENT) WILL BE USED TO SECURE THE BOLTED CONNECTIONS.
12. TORQUE ITEM 3 TO 105 FT–LBS, ±5 FT–LBS. TORQUE ITEM 8 TO 25 FT–LBS ±2 FT–LBS.

NOTE:
THIS DRAWING WAS PRODUCED FROM DURATEK DRAWING E–D–040 AND DOCUMENTS THE FABRICATION OF THE 60 FT TYPE A CONTAINER #WC74279. FOR THE FULL VENDOR FILE, SEE VI FILE #50534, 60' LONG LENGTH CONTAMINATED EQUIPMENT PACKAGE, AS PER RPP–29212, REV 0.

SEP 27 2011 DATE: RECORD RELEASE STA: 4 NO: 11

| DWG NO | TITLE |
|---|---|
| DRAWING TRACEABILITY LIST | |

| REF NUMBER | TITLE |
|---|---|
| REFERENCES | |
| NEXT USED ON H–14–109324, SH 1 | |

| REV NO | DESCRIPTION | REV BY DATE | DRAFTING APRVD | ENGR |
|---|---|---|---|---|
| RS 1 | DIRECT REV PER ECN–11–001411 | AW KRONER 01/11/11 | RN KYLE | MA 1/18/11 |

REVISIONS

| NAME | DATE | COMPANY |
|---|---|---|
| DRAWN BY AW Kroner | 1/18/11 | WRPS |
| DOCR Chkr RN Kyle | | WRPS |
| SEE REVISION 0 | | |
| ENGINEER J.H. Szymeczek | | WRPS |

U.S. DEPARTMENT OF ENERGY
Office of River Protection

# 60 FT TYPE A CONTAINER TRAILER TIE DOWN MODIFICATIONS

| SIZE | BLDG NO | INDEX NO | DWG NO | REV |
|---|---|---|---|---|
| F | 241G | 1001 | H–14–109327 | 1 |

SCALE NONE | EDT 824357 | SHEET 1 OF 4

2045 DOE_TB_F.DWG (01–01)

REV 1 | SH 1 OF 4 | DWG NO H–14–109327