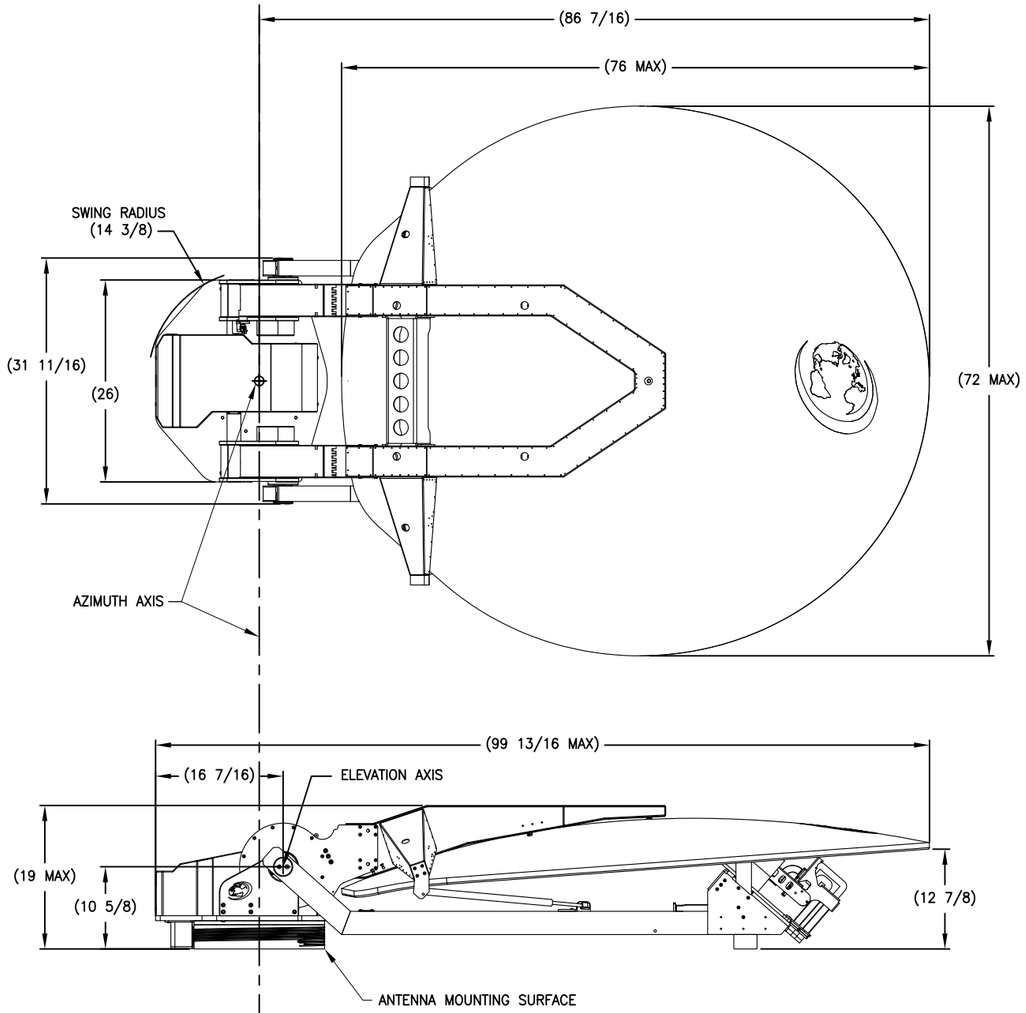
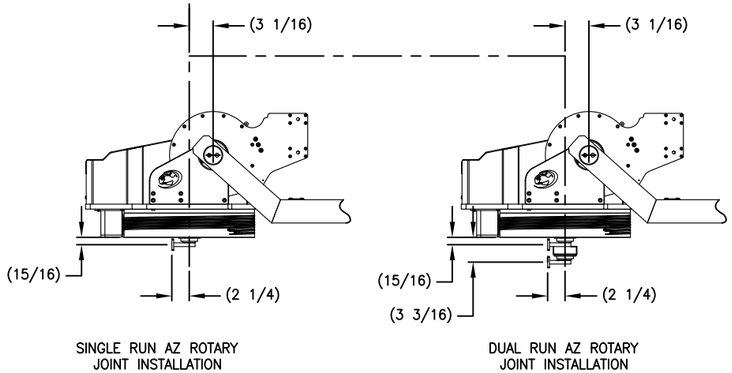
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL RELEASE	04/02/08	GSB/DK

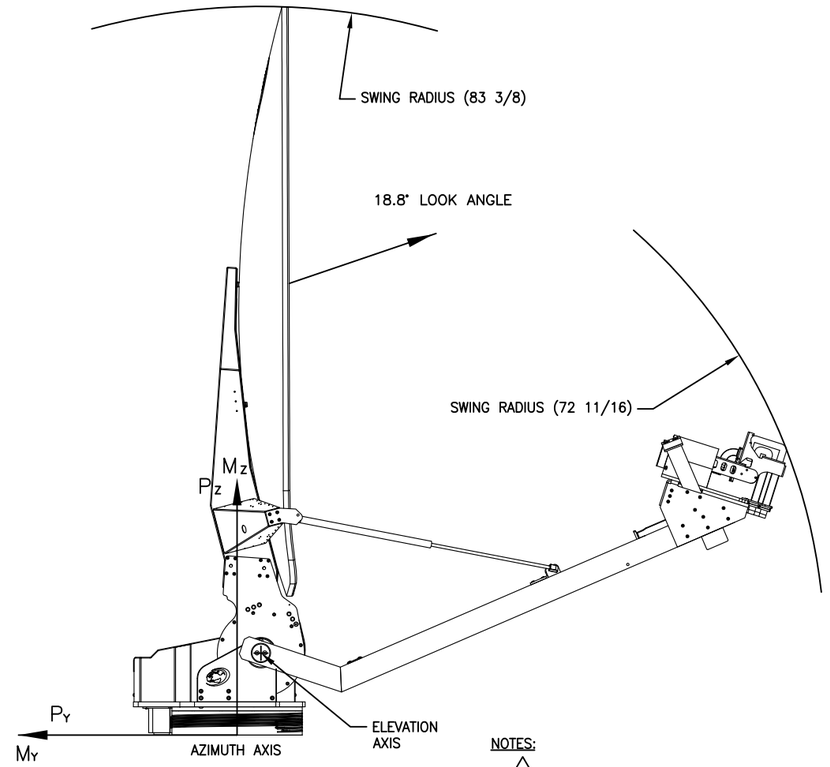


STOWED CONFIGURATION



SINGLE RUN AZ ROTARY JOINT INSTALLATION

DUAL RUN AZ ROTARY JOINT INSTALLATION



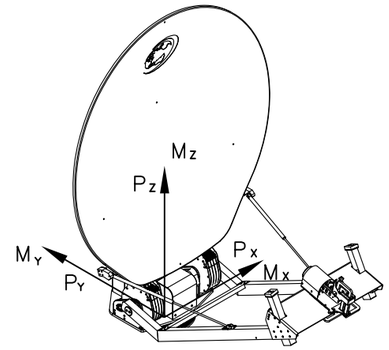
1 4 DEPLOYED CONFIGURATION

LOADS BASED ON WORST CASE CONDITION PRESENTED BY 80MPH WINDS PLUS DEAD WEIGHT.
NOTE: THE "X" AND "Y" PLANE CAN ROTATE ±180° ABOUT THE "Z" (AZIMUTH) AXIS

1 4 LOADS TABLE

P_X	±195 LB
P_Y	±864 LB
P_Z	−741 LB
M_X	± 37,000 IN−LB
M_Y	± 12,528 IN−LB
M_Z	± 7258 IN−LB

275LBS EA
– EST. WEIGHT –



ISOMETRIC VIEW 1 4

MODEL VIEW FOR REFERENCE ONLY
SCALE: NTS

NOTES:

1. IT IS ASSUMED THAT THE ANTENNA WILL BE VEHICLE MOUNTED. IN ORDER TO MOUNT THE ANTENNA A SUPPORT STRUCTURE MUST BE INCORPORATED TO ADEQUATELY TRANSFER BOTH STATIC AND DYNAMIC LOADS FROM THE ANTENNA TO THE VEHICLE FRAME. THE FRAME MUST BE CAPABLE OF REACTING TO LOADS LISTED IN THE "LOADS TABLE". NOTE THE LOADS LISTED ARE FOR THE ANTENNA AND FEED ONLY, AND DO NOT INCLUDE ANY CUSTOM BOOM OR SADDLEBAG MOUNT INTEGRATION PACKAGES.

2. ANTENNA MOUNTING:
   A. USE THE (12) 11/32 THROUGH HOLES TO MOUNT INTO THE TAPPED HOLES OF THE ANTENNA FOR MOUNTING TO THE VEHICLES SUPPORT STRUCTURE.
   B. ONCE THE ANTENNA IS BOLTED IN PLACE AND THE REFLECTOR/FEEDBOOM IS DRIVEN TO ITS FINAL STOW HEIGHT SETTING VERIFY THE SKID PLATE LOCATION.
   C. WEAR PLATES. MAKE FROM 1/8" MAX THK ALUMINUM OR 'TIVAR' AVAILABLE FROM MOST PLASTIC SUPPLY HOUSES.
   D. THE Ø12 OPENING IN THE ANTENNA BASE IS FOR WAVEGUIDE AND CONTROL CABLE ENTRY FROM THE ANTENNA TO THE RACK MOUNTED TWT AND ANTENNA CONTROLLER INSIDE THE VEHICLE.

3. BEARING INTERFACE SURFACE AND ANTENNA STOW PLATFORM ARE TO BE COPLANAR WITHIN 3/16". THESE MOUNTING INTERFACES MUST BE COPLANAR RELATIVE TO EACH OTHER TO ENSURE PROPER STOW AND PRE−LOAD OF ANTENNA.

4. COORDINATE SYSTEM CAN ROTATE ABOUT Z AXIS, THEREFORE SUPPORT STRUCTURE MUST WITHSTAND X & Y FORCES AND MOMENTS IN ANY DIRECTION. FORCES AND MOVEMENTS SHOWN ARE MAGNITUDES ONLY. DIRECTION IS VARIABLE DUE TO THE ROTATION ABOUT THE Z−AXIS.

5. STANDARD ANTENNA TRAVEL:
   ELEVATION: 5°−90°
   AZIMUTH: ±180°

6. AREA SHOWN TO BE FLAT WITHIN .010" OR USE STRUCTURAL EPOXY GROUT DURING INSTALLATION.

7. ALL WEAR PLATES (6 X 6 X 0.125 MAX QTY 2) ARE TO BE SUPPLIED BY THE CUSTOMER.

8. ANTENNA VIEWS GENERATED FROM MODEL 044403−02.

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED ! INTERPRET DIMENSIONING & TOLERANCING PER ASME Y14.5M−1994. DIMENSIONS ARE IN INCHES. DIMENSIONS SHOWN IN ( ) ARE FOR REFERENCE ONLY. TOLERANCES ARE:

FRACTIONS:	DECIMALS:	ANGLES:
DETAILS ± 1/16	.XX ± .03	± 1°
ASSY'S ± 1/8	.XXX ± .005	

COMMERCIAL TOLERANCES TO STOCK SIZES APPLY.
PART TO BE FREE OF BURRS & SHARP EDGES.

DRILL HOLE TOLERANCE (DRILL)	CLEARANCE HOLE TOLERANCE (CHT)
.013 to .125=+.005/−.001	+.03125/ −.00000
.126 to .250=+.007/−.003	
.251 to .750=+.008/−.003	
.751 to 1.000=+.009/−.004	
1.001 to 2.000=+.012/−.005	

ADDITIONAL APPROVALS	DATE
MECHANICAL	
STRUCTURAL	
ELECTRICAL	

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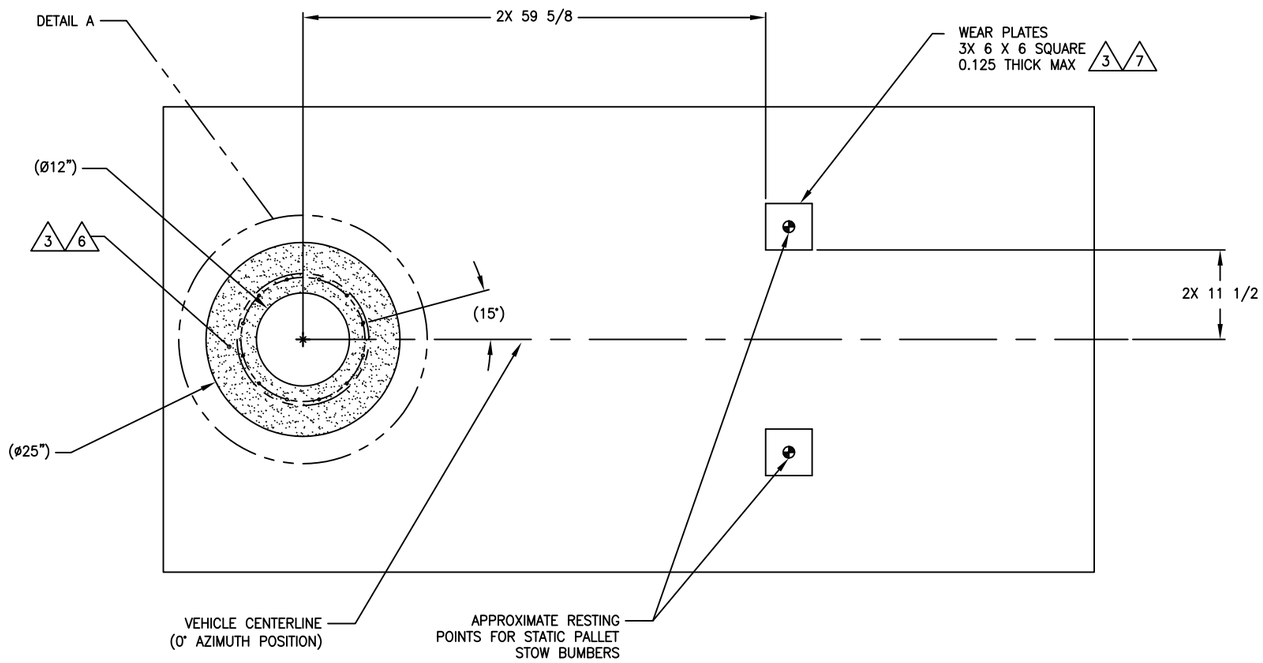
APPROVALS	DATE
DRAWN G.BRANCH	04/01/08
CHECKED E.ELLIS	04/01/08
DESIGNER	
MANUFACTURING S. LOVELESS	04/01/08
PROJECT G.BRANCH	04/01/08
PRODUCT MGR R.ELDER	04/01/08
DESIGN	

SATCOM Technologies CONFIDENTIAL AND PROPRIETARY

Vertex RSI GENERAL DYNAMICS
2600 N. LONGVIEW ST.
KILGORE, TX USA 75662−6842

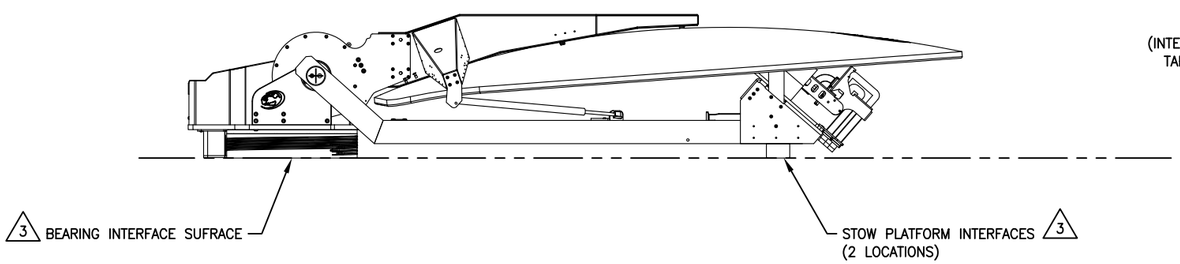
TITLE:
ANTENNA VEHICLE INTERFACE MODEL C180M STATIC FEED PALLET

CODE ID. NO.	SIZE	DWG NO.	REV
1GD22	D	044913	A
SCALE: 1/10	CONTRACT NO. SE185	SHEET 1 OF 2	



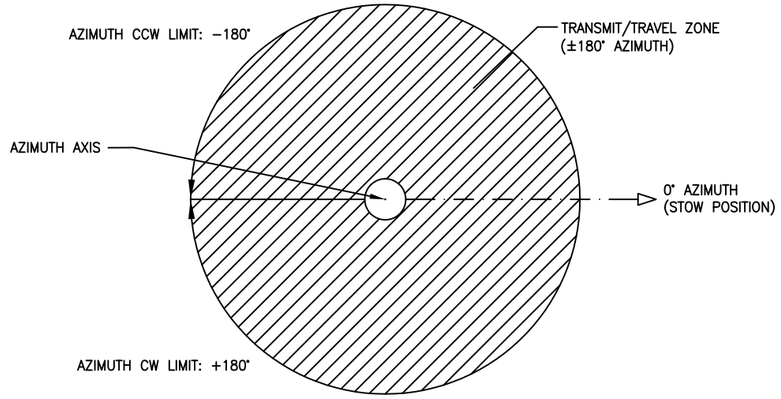
VEHICLE INTERFACE AND BOLT PATTERN LAYOUT

STANDARD CONFIGURATION



STOWED ANTENNA

RIGHT SIDE VIEW

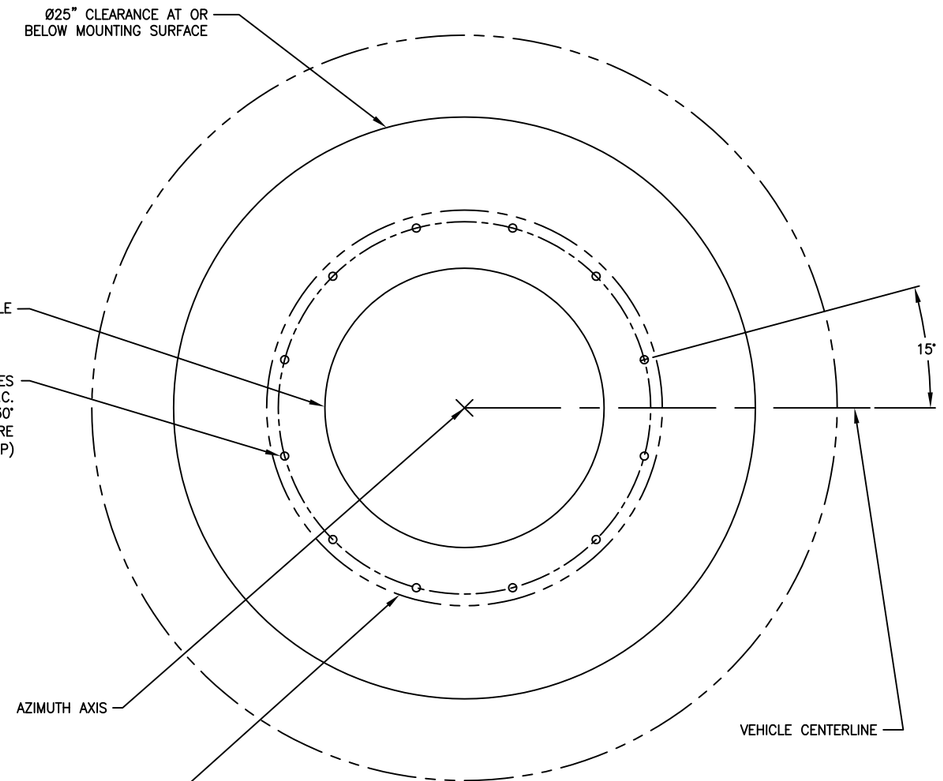


AZIMUTH TRAVEL RANGE

SCALE: NTS

±180 DEGREE TRAVEL, 0 DEGREE STOW CONFIGURATION 5

NOTE: TRAVEL NOT CONTINUOUS



DETAIL A

SCALE: 3/1

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CODE ID. NO.	SIZE	DWG NO.	REV
1GD22	D	044913	A
SCALE: 1/10	CONTRACT NO. SE185	SHEET 2 OF 2	