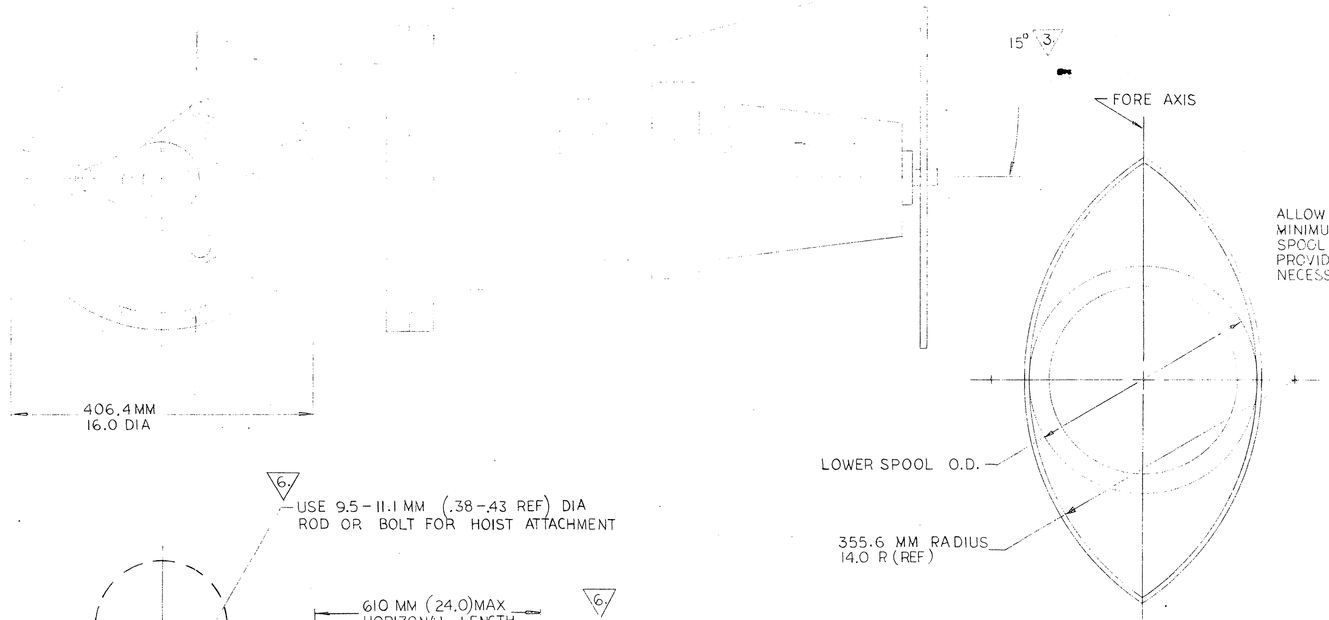
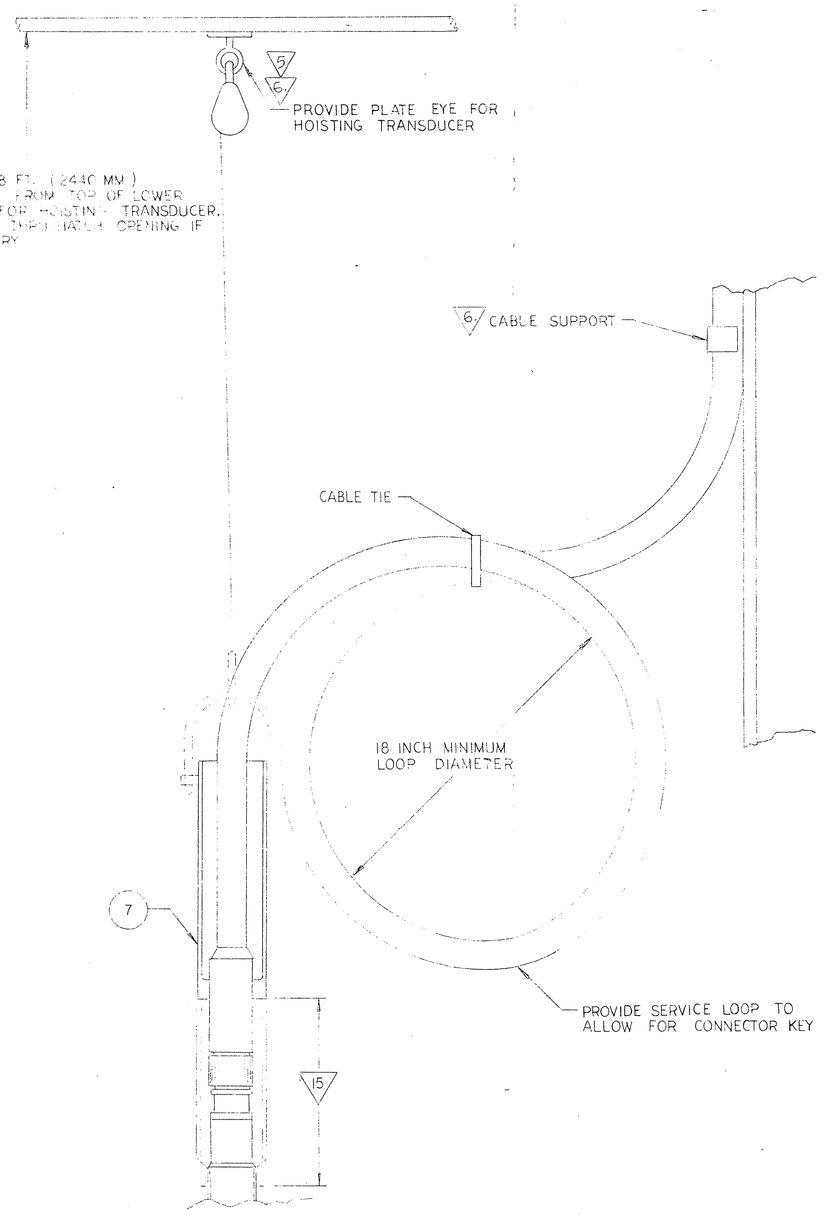
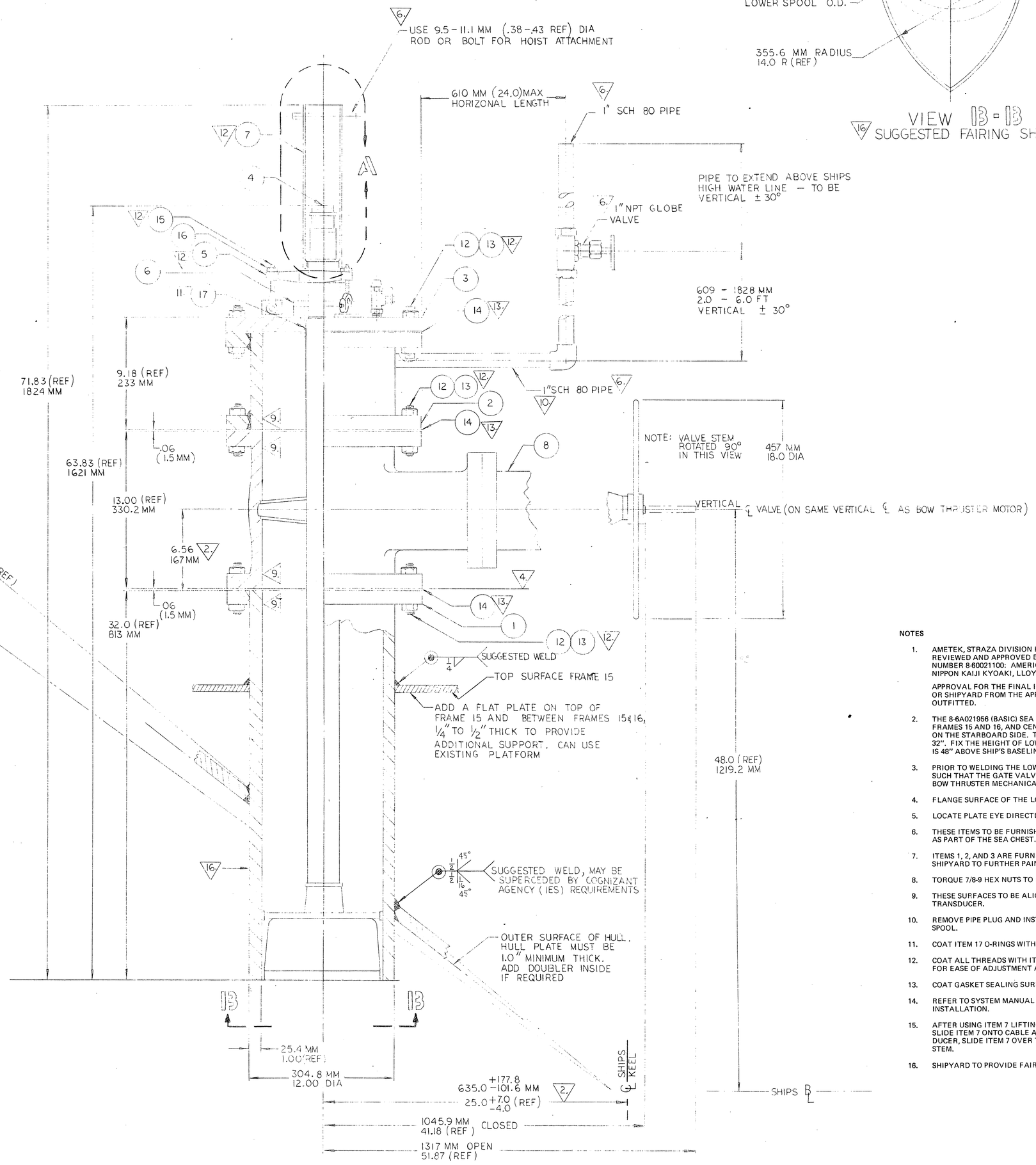
REVISIONS		
ZONE	LTR	DESCRIPTION



VIEW B-B
16 SUGGESTED FAIRING SHAPE



VIEW A



CROSS SECTION LOOKING AFT

NOTES

1. AMETEK, STRAZA DIVISION HAS HAD THIS GENERAL DESIGN OF THE SEA CHEST ASSEMBLY REVIEWED AND APPROVED BY THE FOLLOWING AGENCIES UNDER AMETEK, STRAZA PART NUMBER 8-60021100: AMERICAN BUREAU OF SHIPS; UNITED STATES COAST GUARD, NIPPON KAIJI KYOAKI, LLOYDS REGISTER OF SHIPPING, DET NORSKE VERITAS.

   APPROVAL FOR THE FINAL INSTALLATION PLAN MUST BE OBTAINED BY THE CUSTOMER OR SHIPYARD FROM THE APPROPRIATE COGNIZANT AGENCY(IES) FOR EACH SHIP TO BE OUTFITTED.
2. THE 8-6A021956 (BASIC) SEA CHEST IS DESIGNED TO FIT THE R/V GYRE, CENTERED BETWEEN FRAMES 15 AND 16, AND CENTERED 25 INCHES (NOMINAL) FROM THE SHIP'S CENTERLINE, ON THE STARBOARD SIDE. THE 25" DIMENSION MAY DECREASE TO 21" OR INCREASE TO 32". FIX THE HEIGHT OF LOWER SPOOL PIECE SO THE 10" GATE VALVE STEM CENTERLINE IS 48" ABOVE SHIP'S BASELINE.
3. PRIOR TO WELDING THE LOWER SPOOL INTO THE HULL, ORIENT THE BOLT HOLE PATTERN SUCH THAT THE GATE VALVE HANDLE AND EXTENDED STEM WILL CLEAR BULKHEADS, BOW THRUSTER MECHANICAL PARTS, ETC.
4. FLANGE SURFACE OF THE LOWER SPOOL TO BE LEVEL WITHIN 1° IN ALL PLANES.
5. LOCATE PLATE EYE DIRECTLY OVER CENTERLINE OF THE SEA CHEST.
6. THESE ITEMS TO BE FURNISHED BY CUSTOMER OR SHIPYARD, THEY ARE NOT FURNISHED AS PART OF THE SEA CHEST.
7. ITEMS 1, 2, AND 3 ARE FURNISHED PAINTED WITH RED OXIDE PRIMER. CUSTOMER OR SHIPYARD TO FURTHER PAINT AS REQUIRED FOR CORROSION PROTECTION REQUIREMENTS.
8. TORQUE 7/8-9 HEX NUTS TO 1100 TO 1500 INCH-POUNDS (12.5 TO 17.3 KILOGRAM-METERS).
9. THESE SURFACES TO BE ALIGNED WITHIN 0.03 INCHES TO ALLOW FREE ACCESS OF TRANSDUCER.
10. REMOVE PIPE PLUG AND INSTALL PIPE. NOTE, PIPE MUST NOT EXTEND INTO INSIDE OF SPOOL.
11. COAT ITEM 17 O-RINGS WITH ITEM 18 SILICONE GREASE PRIOR TO INSTALLATION.
12. COAT ALL THREADS WITH ITEM 11 THREAD LUBRICANT, DURING AND AFTER INSTALLATION FOR EASE OF ADJUSTMENT AND DISASSEMBLY.
13. COAT GASKET SEALING SURFACES WITH ITEM 11 THREAD LUBRICANT.
14. REFER TO SYSTEM MANUAL FOR DETAILED INSTRUCTIONS FOR TRANSDUCER INSTALLATION.
15. AFTER USING ITEM 7 LIFTING LUG AND CONNECTOR PROTECTOR TO INSTALL TRANSDUCER, SLIDE ITEM 7 ONTO CABLE AS SHOWN. AFTER CONNECTING CABLE CONNECTOR TO TRANSDUCER, SLIDE ITEM 7 OVER TRANSDUCER CONNECTOR AND SCREW ONTO THE TRANSDUCER STEM.
16. SHIPYARD TO PROVIDE FAIRING AROUND LOWER SPOOL TO SMOOTH WATER FLOW.

QTY REQD PER DASH NO.	ZONE	FIND NO.	CODE IDENT	PART NUMBER	NOMENCLATURE	SIZE	MATERIAL	SPECIFICATION
1		16		DC 4 9 OZ TUBE		DOW CORNING		
4		17		2-146, N219-7	O RING	PARKER OR EQUIV.		NOTE: (2) ARE SPARE
REF		16		MS17830-6C	NUT SI HEX 3/8 16 x 9/16 AF	PART OF ITEM 3 OF THIS PARTS LIST		
REF		15		3/8-16 x 6.0 LG	JAW END FITTING, SST, 300 SERIES RIGHT HAND THREAD	PART OF ITEM 3 OF THIS PARTS LIST		
3		14	14959	10 IN NOM, 1/16 IN	GASKET, FLFC 150 LB, W/HOLES	CRANITE OR EQUIV.		
72		13		NUT 7/8-9	NUT, PL HEX, 7/8-9 x 1-5/16 AF x 3/4 LG, STL, GALVANIZED	COM'L		
36		12		7/8-9 x 5.0 LG	STUD BOLT 7/8-9 x 5.0, STL, GALVANIZED	COM'L		
1		11		767-64	LUBRICANT, THREAD ANTI-SEIZE 1 LB BRUSH CAN	LOCTITE		
		10						
		9						
1		8		8-60021108	VALVE 10, IN GATE R.S			
REF		7		8-60021397	LIFTING LUG & CONNECTOR PROTECTOR	ITEM 4 SUPPLIED SEPARATELY FROM SEACHEST ITEMS 5, 6 AND 7 ARE PART OF ITEM 4.		
REF		6		X 24775	NUT, JAM			
REF		5		8-6A021105	SPIDER			
REF		4		8-6A021104-523	TRANSDUCER			
1		3		8-6A021103	ASSY, TOP FLANGE			
1		2		8-60021102	SPOOL, UPPER			
1		1		8-6A021957-1	SPOOL, LOWER			
-1	ZONE	FIND NO.	CODE IDENT	PART NUMBER	NOMENCLATURE	SIZE	MATERIAL	SPECIFICATION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DEC	TOL	ANGULAR TOLERANCE
X	= ± .1	1/2°
XX	= ± .03	
XXX	= ± 010	

MATERIAL

MACH SURFACE FINISH: 125 RMS | MACH RAD: .030

DO NOT SCALE PRINT

PARTS TO BE FREE OF BURRS & SHARP EDGES

CONTRACT NO.

PROJECT	2-24-78
DSGN ENGR	2/24/78
STRESS	
CHECK	2/28/78
DRAWN	4-23-78

796D

AMETEK
STRAZA DIVISION • 790 GREENFIELD DRIVE, EL CAJON, CA 92022

TITLE
OUTLINE & INSTALLATION SEACHEST DOPPLER TRANSDUCER R/V "GYRE"

SIZE	CODE IDENT NO.	DRAWING NO.	REV
E	03024	8-60021959	

SCALE 1/4 WEIGHT SHEET 1 OF 1

8-60021959

GYRE-0158

DASH NO.	QTY REQD	NEXT ASSY
APPLICATION		