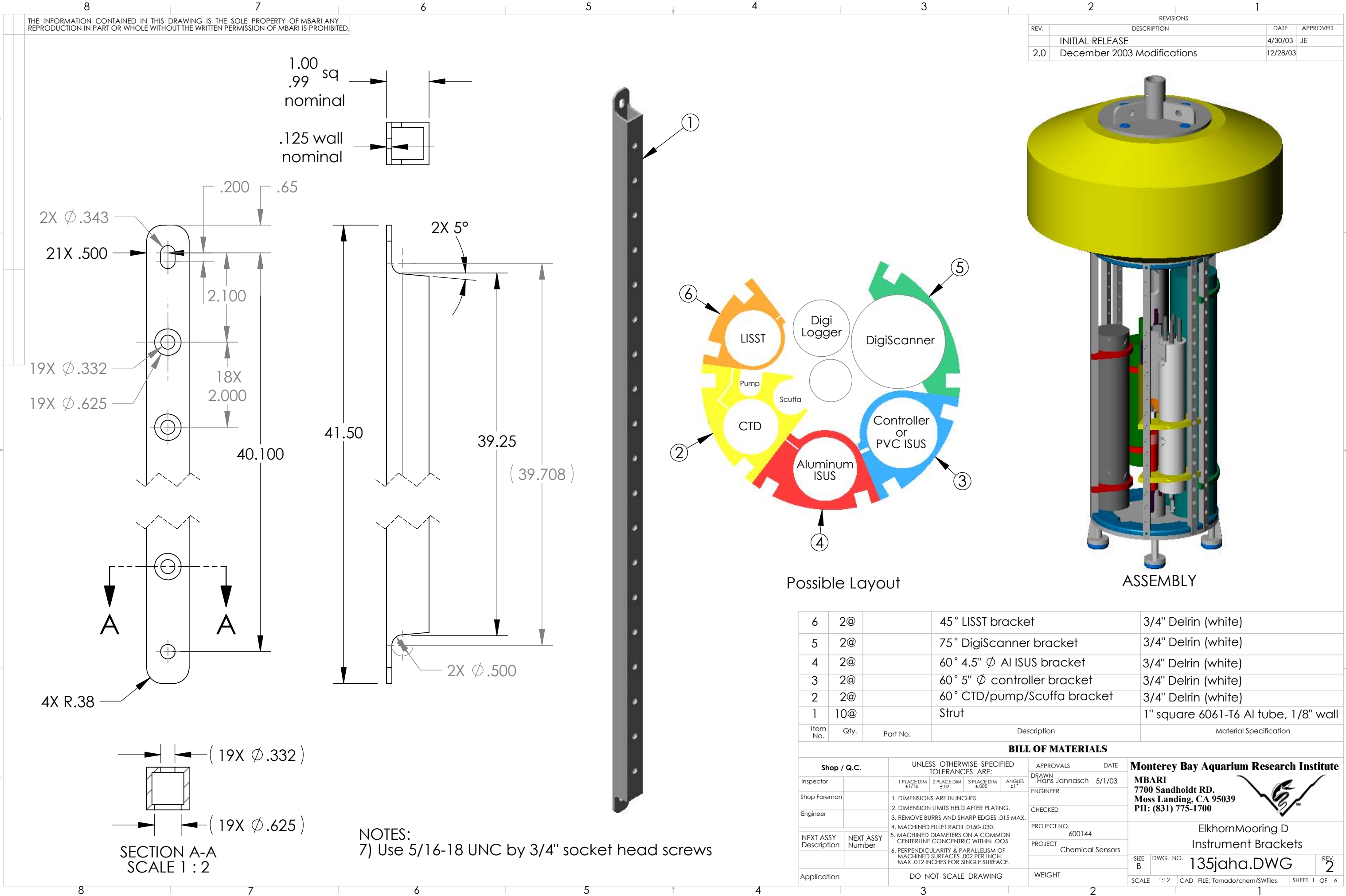




THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

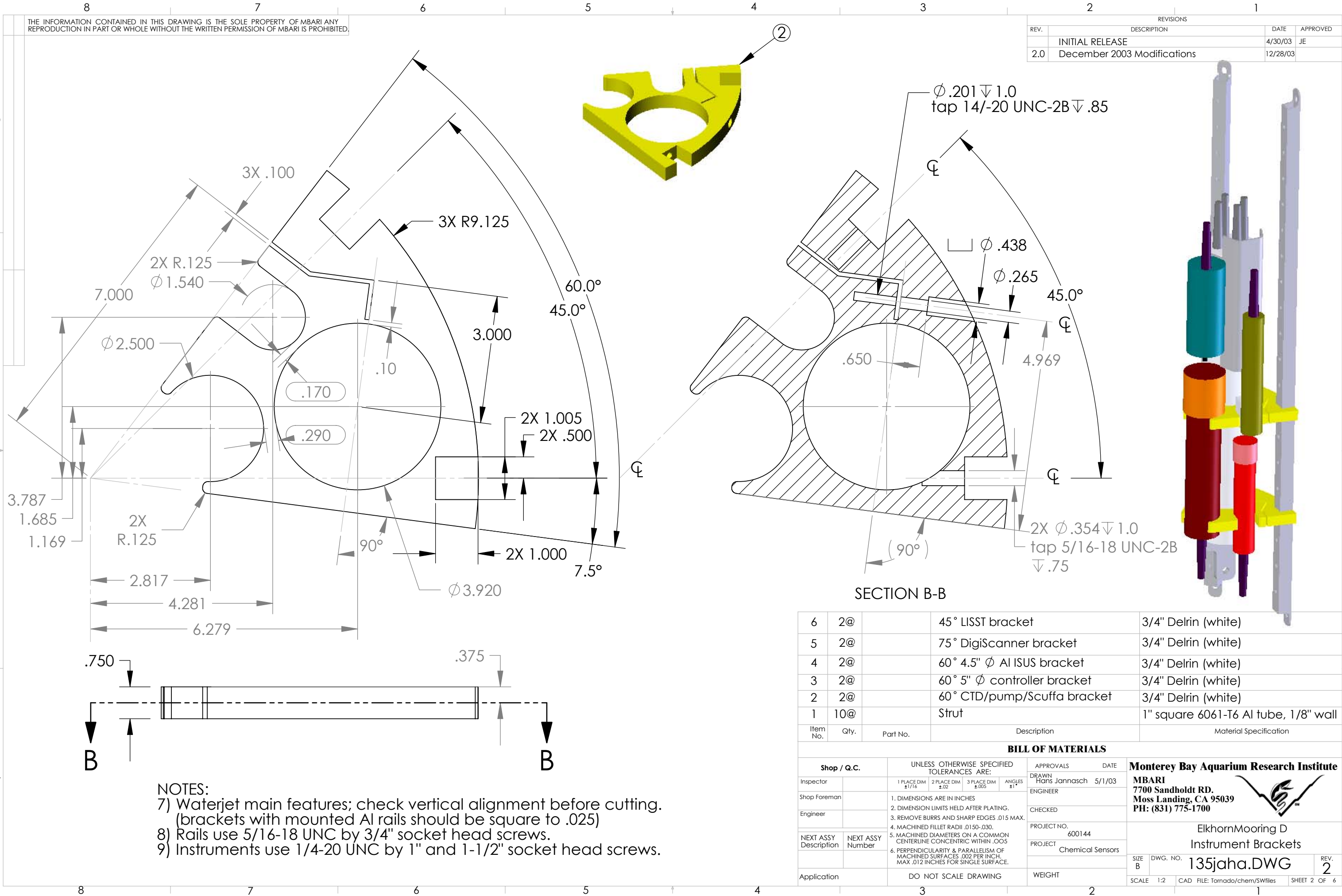
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	4/30/03	JE
2.0	December 2003 Modifications	12/28/03	

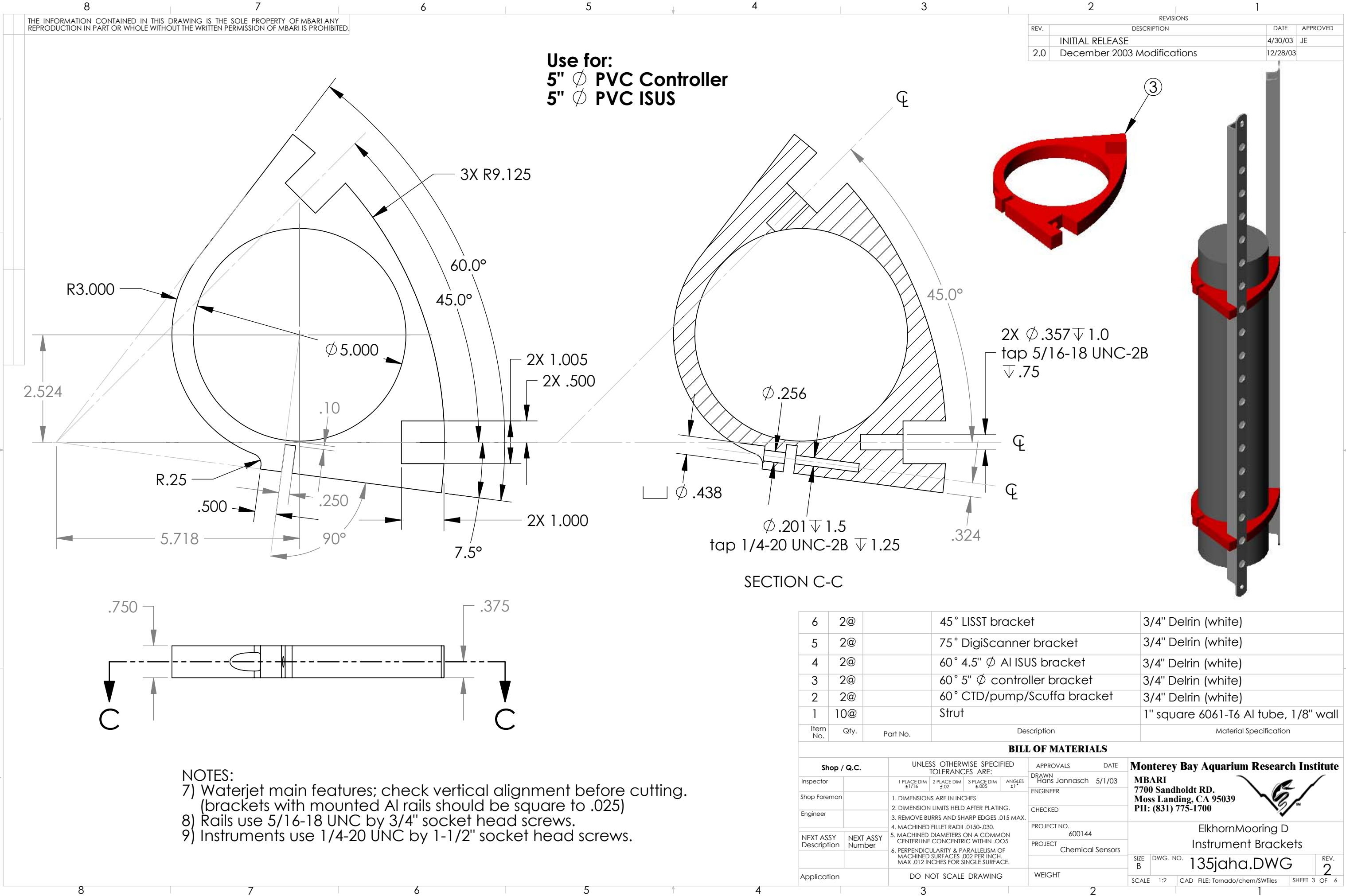
6	2@		45° LISST bracket	3/4" Delrin (white)
5	2@		75° DigiScanner bracket	3/4" Delrin (white)
4	2@		60° 4.5" Ø Al ISUS bracket	3/4" Delrin (white)
3	2@		60° 5" Ø controller bracket	3/4" Delrin (white)
2	2@		60° CTD/pump/Scuffa bracket	3/4" Delrin (white)
1	10@		Strut	1" square 6061-T6 Al tube, 1/8" wall
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch	5/1/03		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER							
Engineer						CHECKED							
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	600144			Elkhorn Mooring D Instrument Brackets			
						PROJECT	Chemical Sensors						
Application		DO NOT SCALE DRAWING				WEIGHT				SIZE B	DWG. NO.	135jaha.DWG	REV. 2
										SCALE 1:12	CAD FILE: Tornado/chem/SWfiles	SHEET 1 OF 6	

NOTES:
7) Use 5/16-18 UNC by 3/4" socket head screws

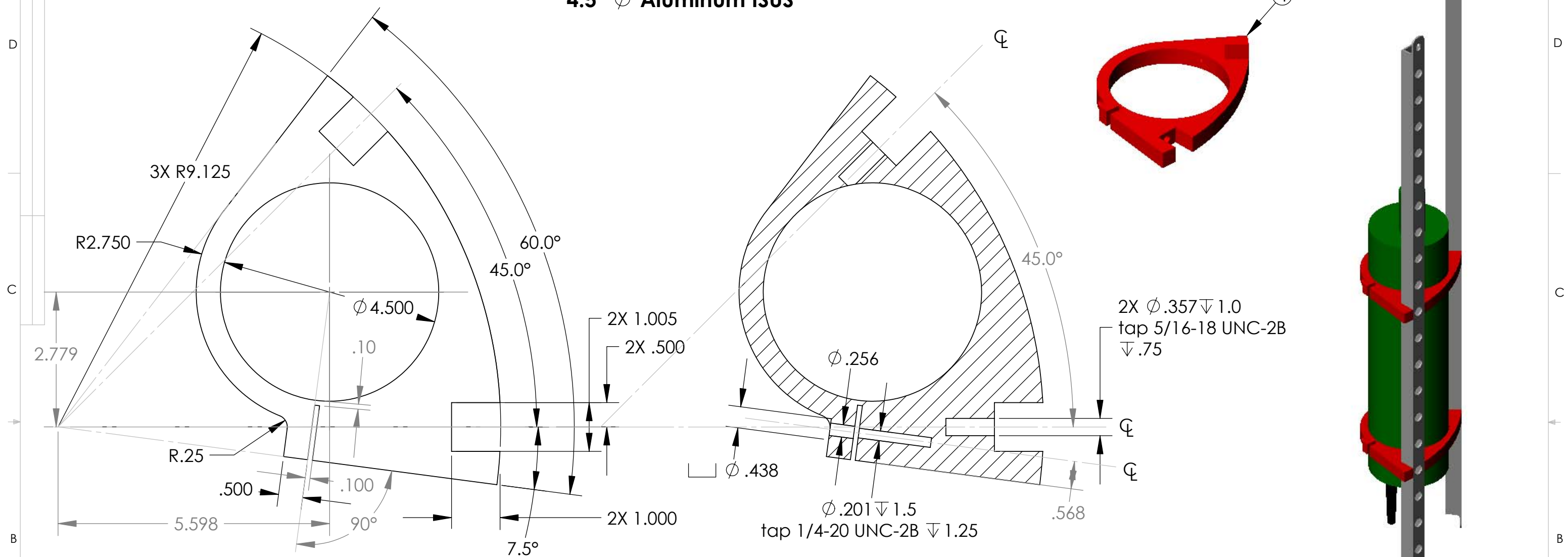




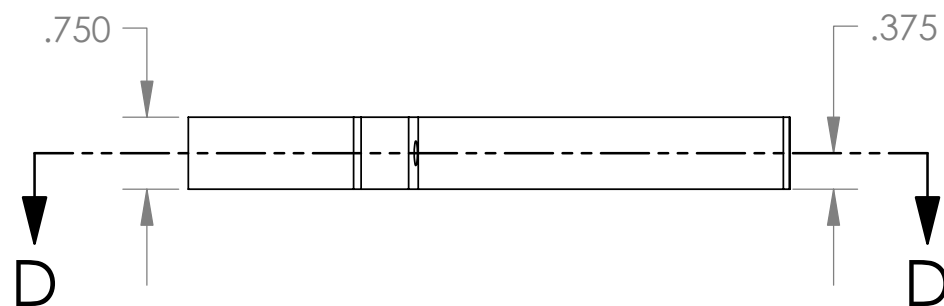
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	4/30/03	JE
2.0	December 2003 Modifications	12/28/03	

Use for:
4.5" $\varnothing$ Aluminum ISUS



SECTION D-D



NOTES:

- 7) Waterjet main features; check vertical alignment before cutting.
(brackets with mounted Al rails should be square to .025)
- 8) Rails use 5/16-18 UNC by 3/4" socket head screws.
- 9) Instruments use 1/4-20 UNC by 1-1/2" socket head screws.

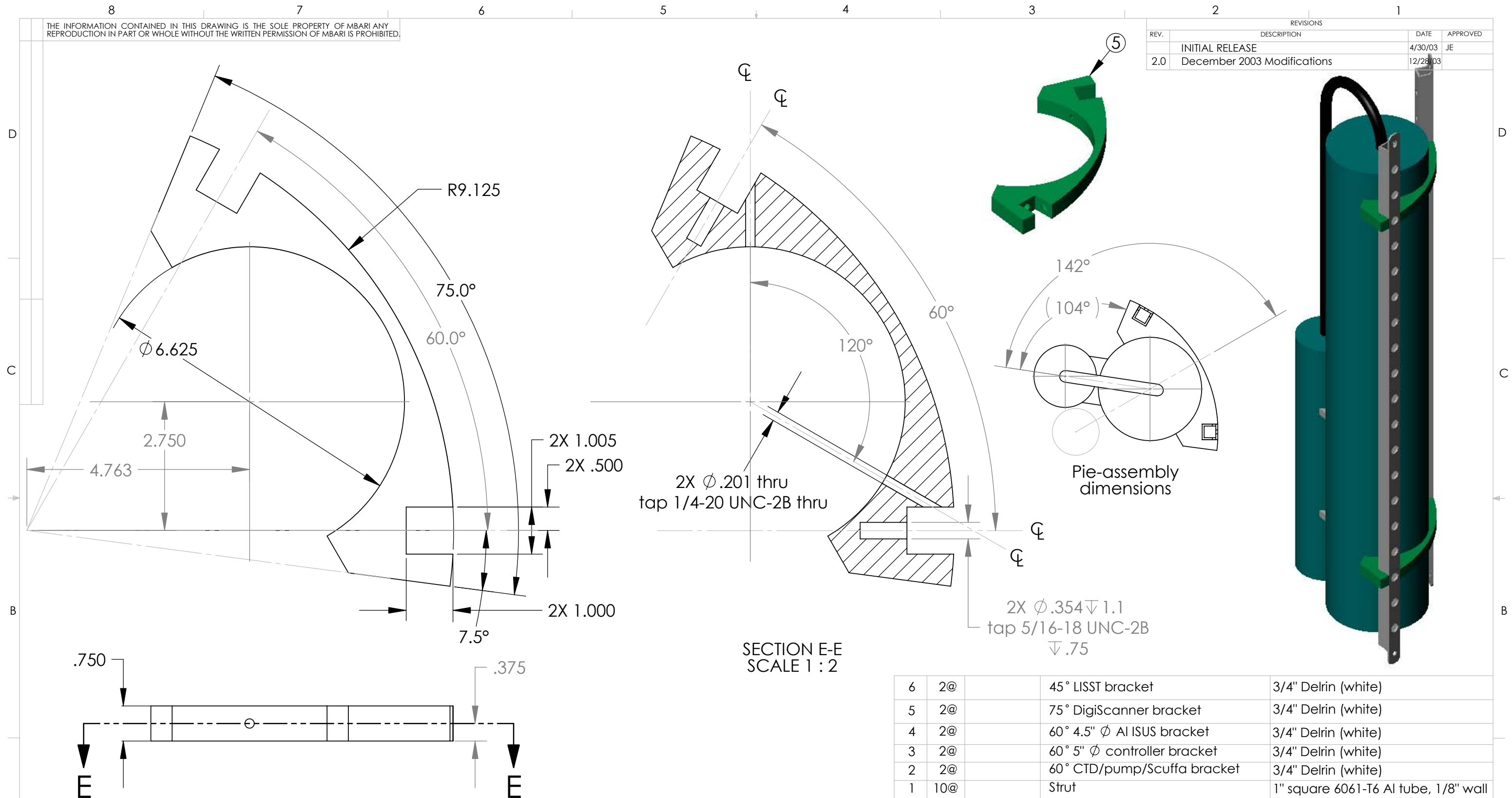
6	2@		45° LISST bracket	3/4" Delrin (white)
5	2@		75° DigiScanner bracket	3/4" Delrin (white)
4	2@		60° 4.5" ϕ AI ISUS bracket	3/4" Delrin (white)
3	2@		60° 5" ϕ controller bracket	3/4" Delrin (white)
2	2@		60° CTD/pump/Scuffa bracket	3/4" Delrin (white)
1	10@		Strut	1" square 6061-T6 Al tube, 1/8" wall

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	5/1/03		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 				
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER							
Engineer						CHECKED							
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 600144							
						PROJECT Chemical Sensors							
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B		DWG. NO. 135jaha.DWG		REV. 2	
								SCALE 1:2		CAD FILE: Tornado/chem/SWfiles		SHEET 4 OF 4	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY
REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	4/30/03	JE
2.0	December 2003 Modifications	12/28/03	



NOTES:

- 7) Waterjet main features; check vertical alignment before cutting.
(brackets with mounted Al rails should be square to .025)
- 8) Rails use 5/16-18 UNC by 3/4" socket head screws.
- 9) Instruments use 1/4-20 UNC by 1" flat head screws.

6	2@	45° LISST bracket	3/4" Delrin (white)
5	2@	75° DigiScanner bracket	3/4" Delrin (white)
4	2@	60° 4.5" ϕ Al ISUS bracket	3/4" Delrin (white)
3	2@	60° 5" ϕ controller bracket	3/4" Delrin (white)
2	2@	60° CTD/pump/Scuffa bracket	3/4" Delrin (white)
1	10@	Strut	1" square 6061-T6 Al tube, 1/8" wall

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	5/1/03		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER			
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 600144			
						PROJECT Chemical Sensors			
Application		DO NOT SCALE DRAWING				WEIGHT			

Monterey Bay Aquarium Research Institute

MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



Elkhorn Mooring D
Instrument Brackets

SIZE B DWG. NO. REV. 2

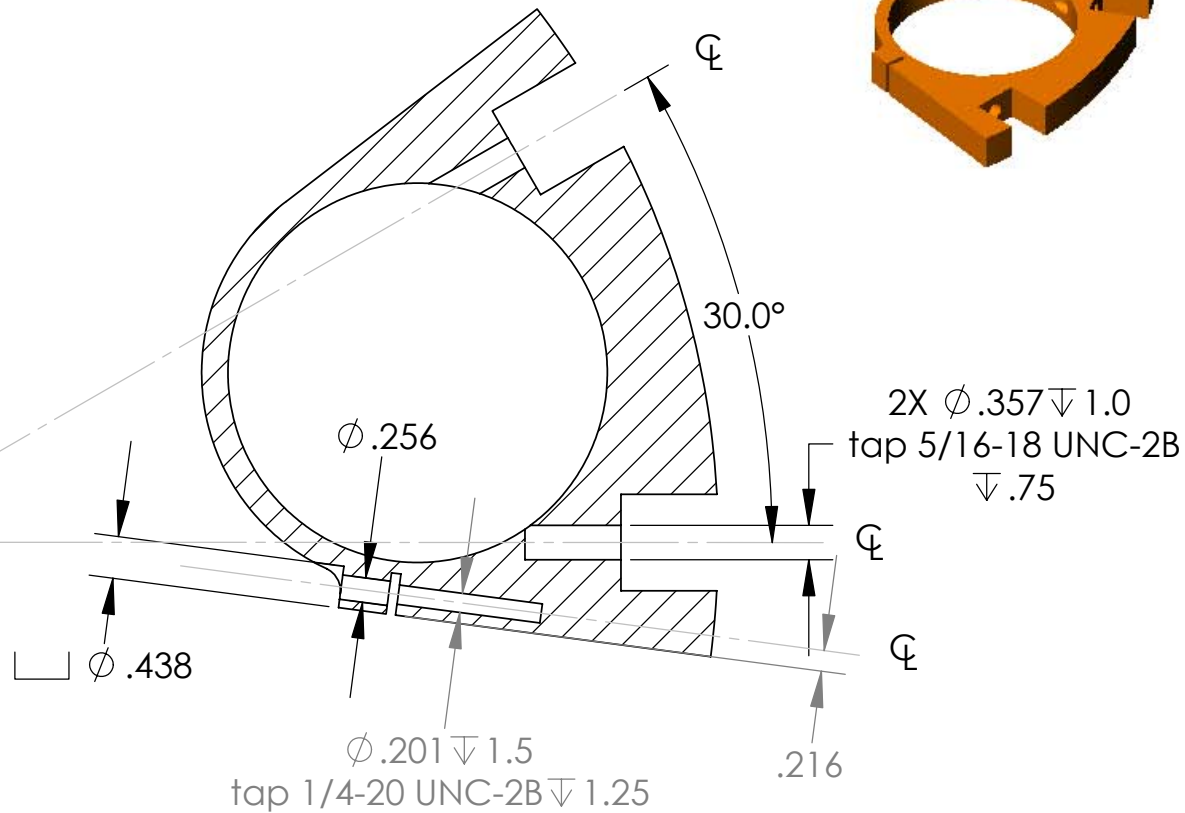
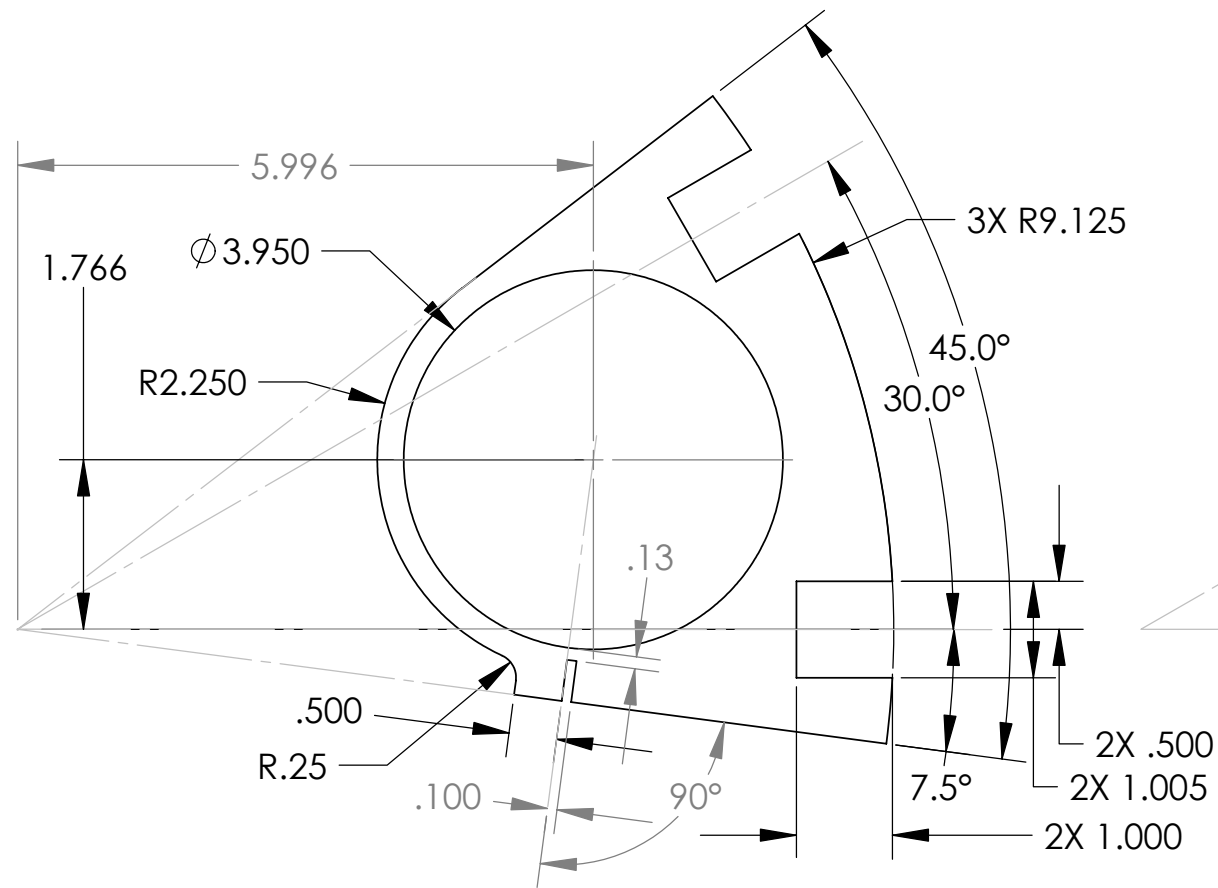
135jaha.DWG

SCALE 1:4 CAD FILE: Tornado/chem/SWfiles

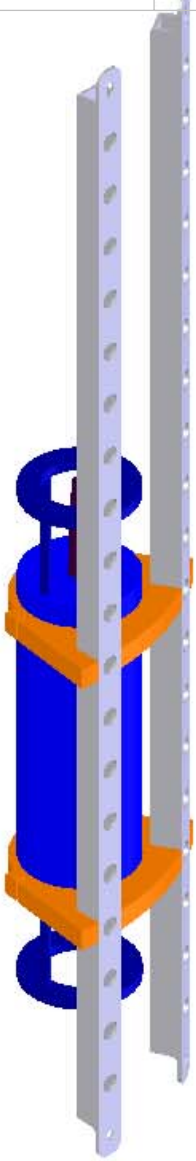
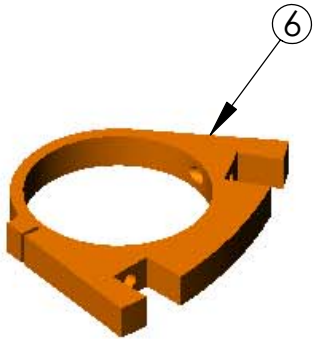
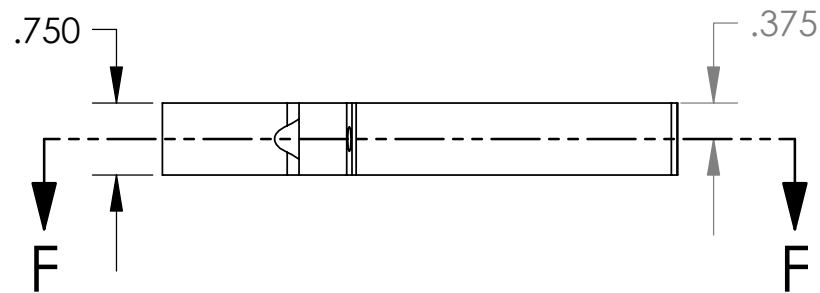
SHEET 5 OF 6

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	4/30/03	JE
2.0	December 2003 Modifications	12/28/03	



SECTION F-F
SCALE 1 : 2



- NOTES:
- 7) Waterjet main features; check vertical alignment before cutting. (brackets with mounted Al rails should be square to .025)
 - 8) Rails use 5/16-18 UNC by 3/4" socket head screws.
 - 9) Instruments use 1/4-20 UNC by 1-1/2" socket head screws.

6	2@		45° LISST bracket	3/4" Delrin (white)
5	2@		75° DigiScanner bracket	3/4" Delrin (white)
4	2@		60° 4.5" Ø Al ISUS bracket	3/4" Delrin (white)
3	2@		60° 5" Ø controller bracket	3/4" Delrin (white)
2	2@		60° CTD/pump/Scuffa bracket	3/4" Delrin (white)
1	10@		Strut	1" square 6061-T6 Al tube, 1/8" wall
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	5/1/03	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER					
Engineer						CHECKED					
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 600144					
						PROJECT Chemical Sensors					
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO. 135jaha.DWG	REV. 2	
		SCALE	1:4	CAD	FILE: Tornado/chem/SWfiles	SHEET 6 OF 6					