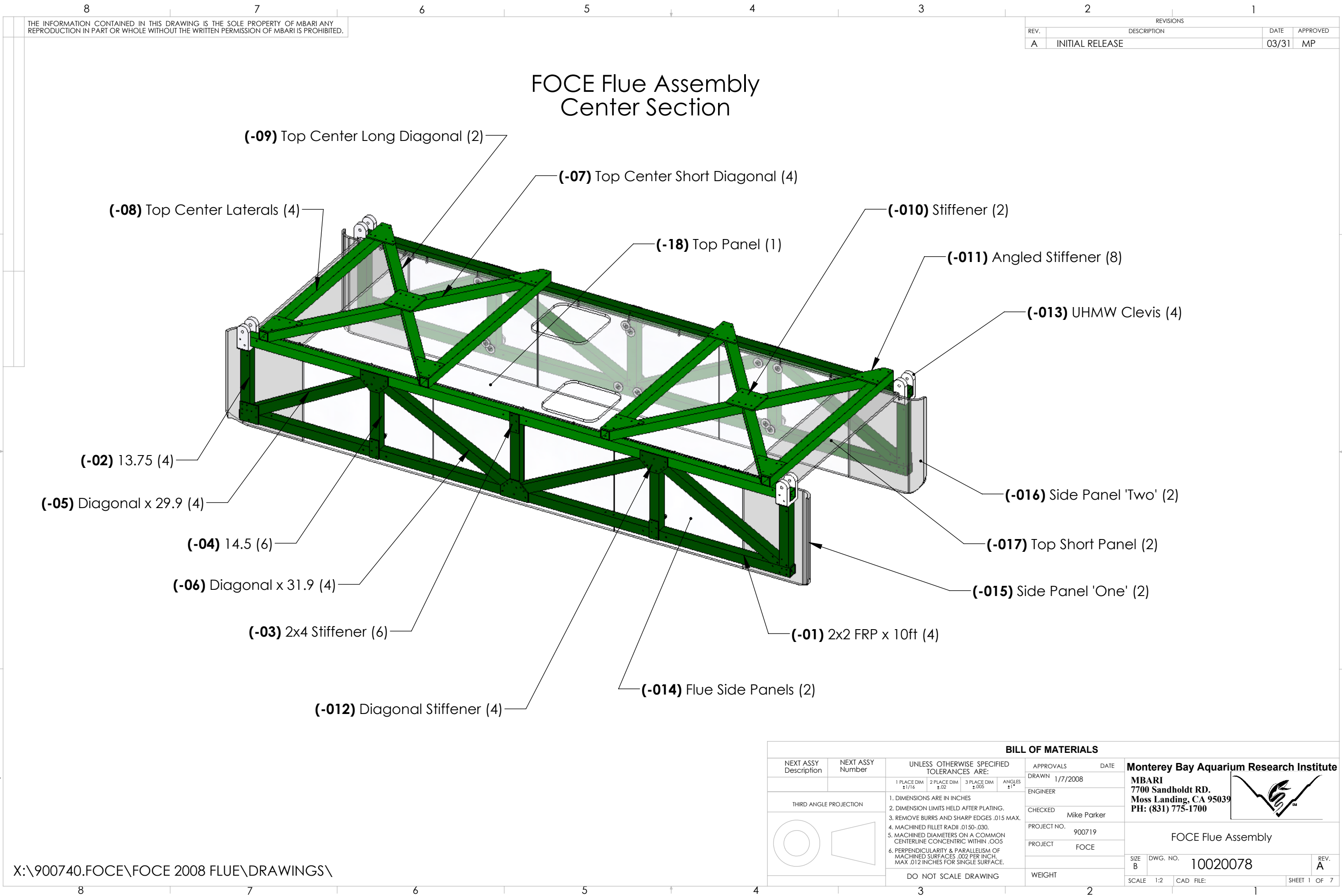




THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/31	MP

FOCE Flue Assembly Center Section

(-09) Top Center Long Diagonal (2)

(-07) Top Center Short Diagonal (4)

(-08) Top Center Laterals (4)

(-18) Top Panel (1)

(-010) Stiffener (2)

(-011) Angled Stiffener (8)

(-013) UHMW Clevis (4)

(-016) Side Panel 'Two' (2)

(-017) Top Short Panel (2)

(-015) Side Panel 'One' (2)

(-01) 2x2 FRP x 10ft (4)

(-014) Flue Side Panels (2)

(-012) Diagonal Stiffener (4)

(-03) 2x4 Stiffener (6)

(-06) Diagonal x 31.9 (4)

(-04) 14.5 (6)

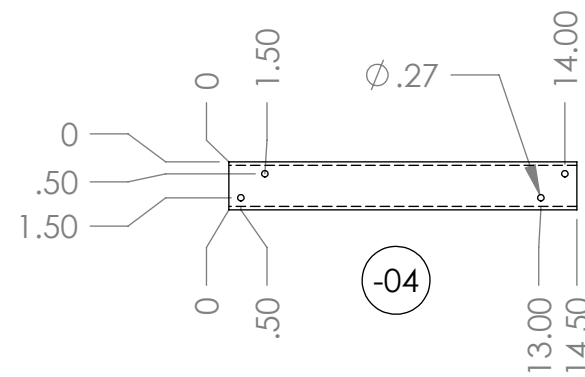
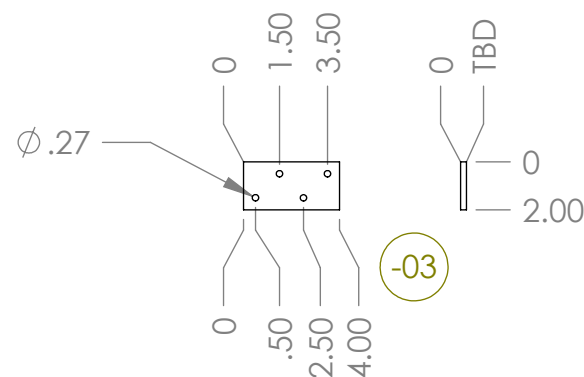
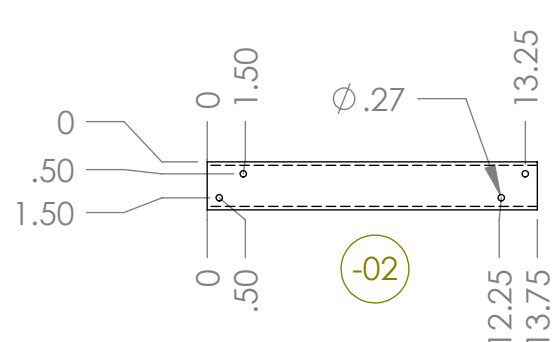
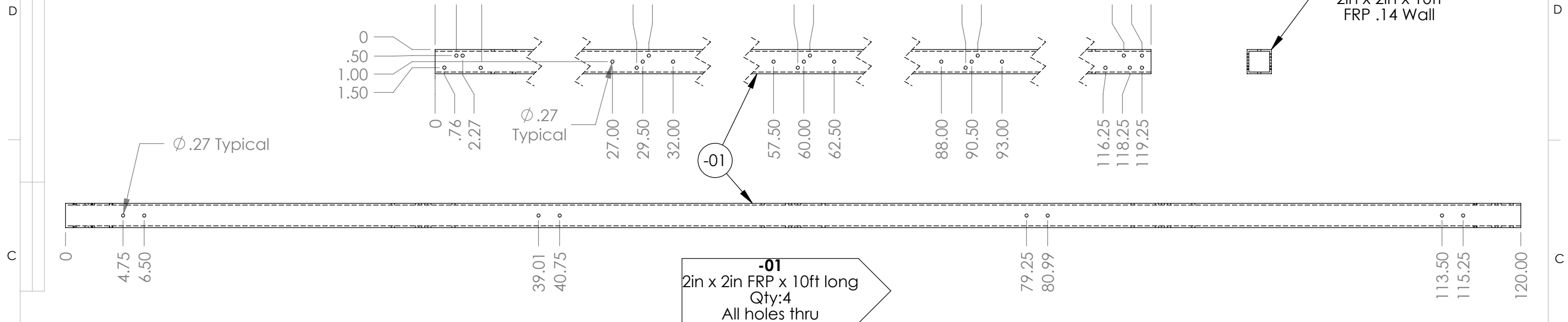
(-05) Diagonal x 29.9 (4)

(-02) 13.75 (4)

BILL OF MATERIALS			
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS
		1 PLACE DIM ±1/16 2 PLACE DIM ±.02 3 PLACE DIM ±.005 ANGLES ±1°	DATE
THIRD ANGLE PROJECTION		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.	DRAWN 1/7/2008 ENGINEER CHECKED Mike Parker PROJECT NO. 900719 PROJECT FOCE WEIGHT
		DO NOT SCALE DRAWING	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 FOCE Flue Assembly
			SIZE B DWG. NO. 10020078 REV. A
			SCALE 1:2 CAD FILE: SHEET 1 OF 7

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		



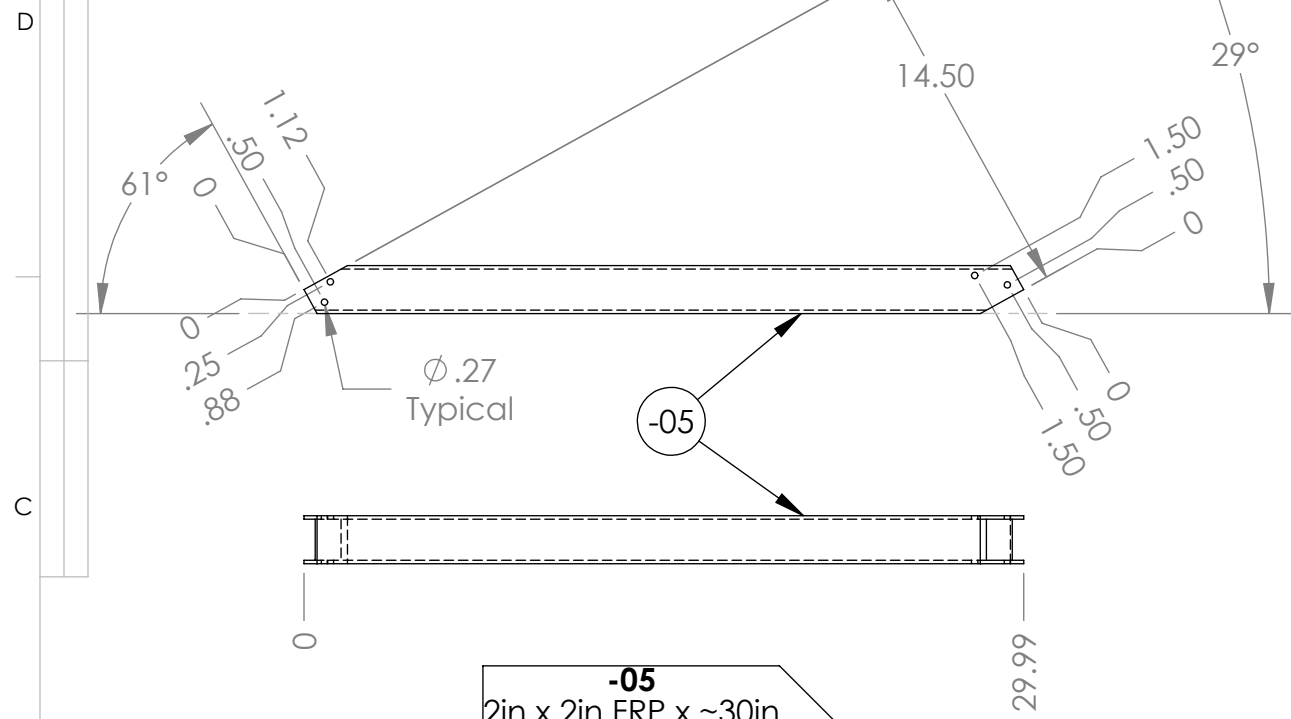
Item Label	Item Desc.
-01	2x2 Long Rail
-02	2x2 Short Upright
-03	2x4 Stiffener
-04	2x2 Long Upright

BILL OF MATERIALS											
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute  MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	pami	9/27/00			
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	pami	9/27/00			
Engineer						CHECKED					
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900719				
		PROJECT	FOCE			FOCE Flue Assembly					
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO.	10020078	REV.
							SCALE	1:2	CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 2	

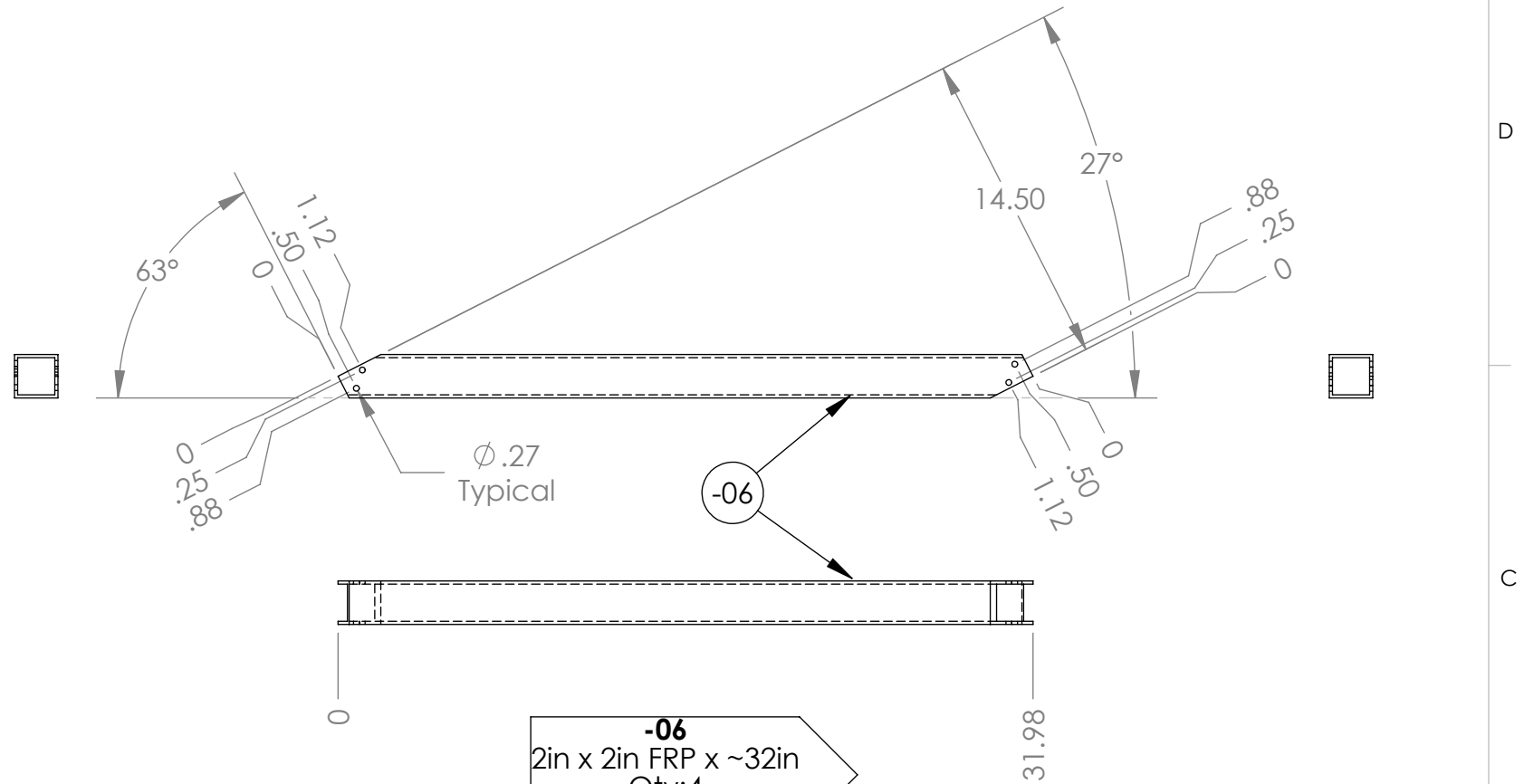
X:\900740.FOCE\FOCE 2008 FLUE\DRAWINGS\

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.

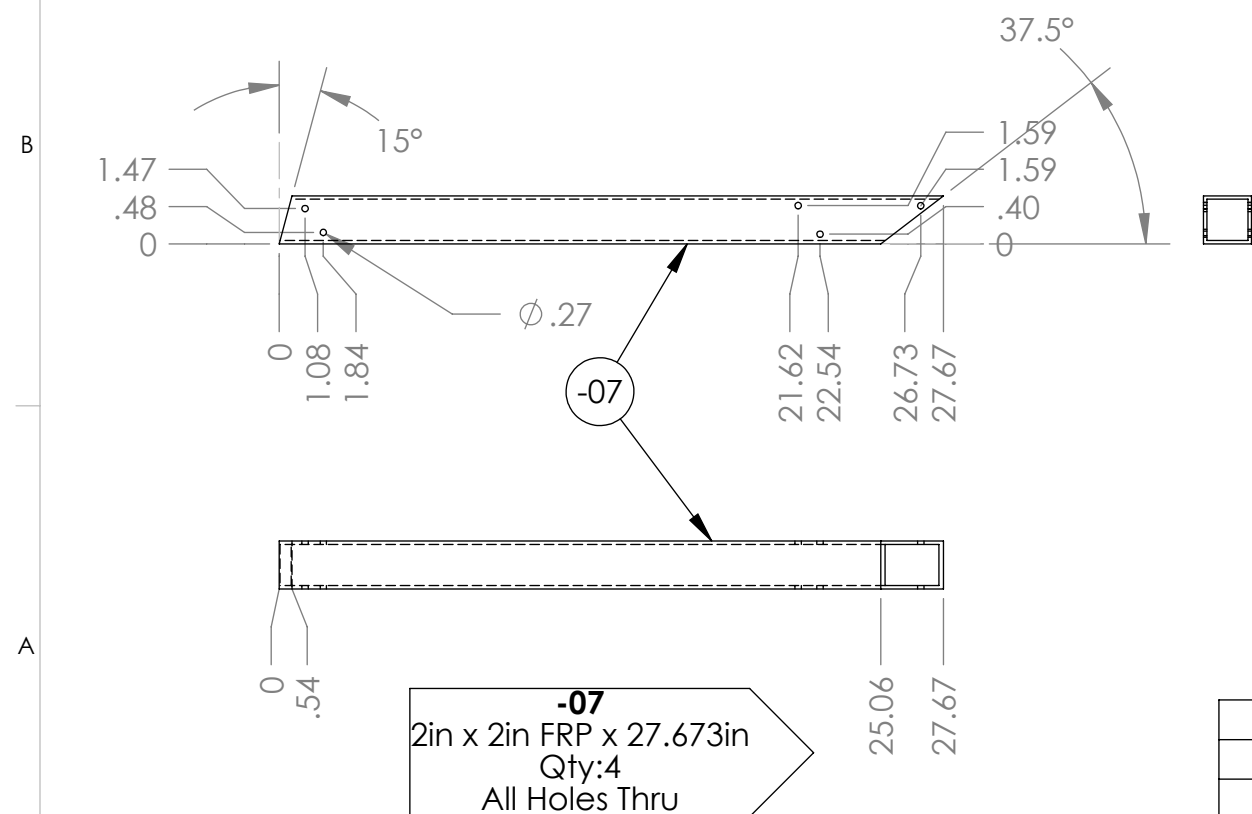
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



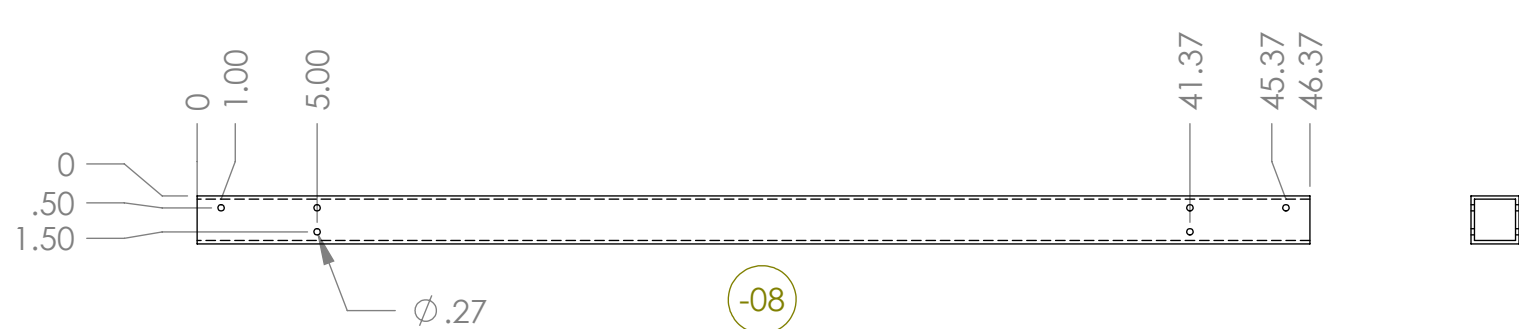
-05
2in x 2in FRP x ~30in
Qty:4
All Holes Thru



-06
2in x 2in FRP x ~32in
Qty:4
All Holes Thru



-07
2in x 2in FRP x 27.673in
Qty:4
All Holes Thru



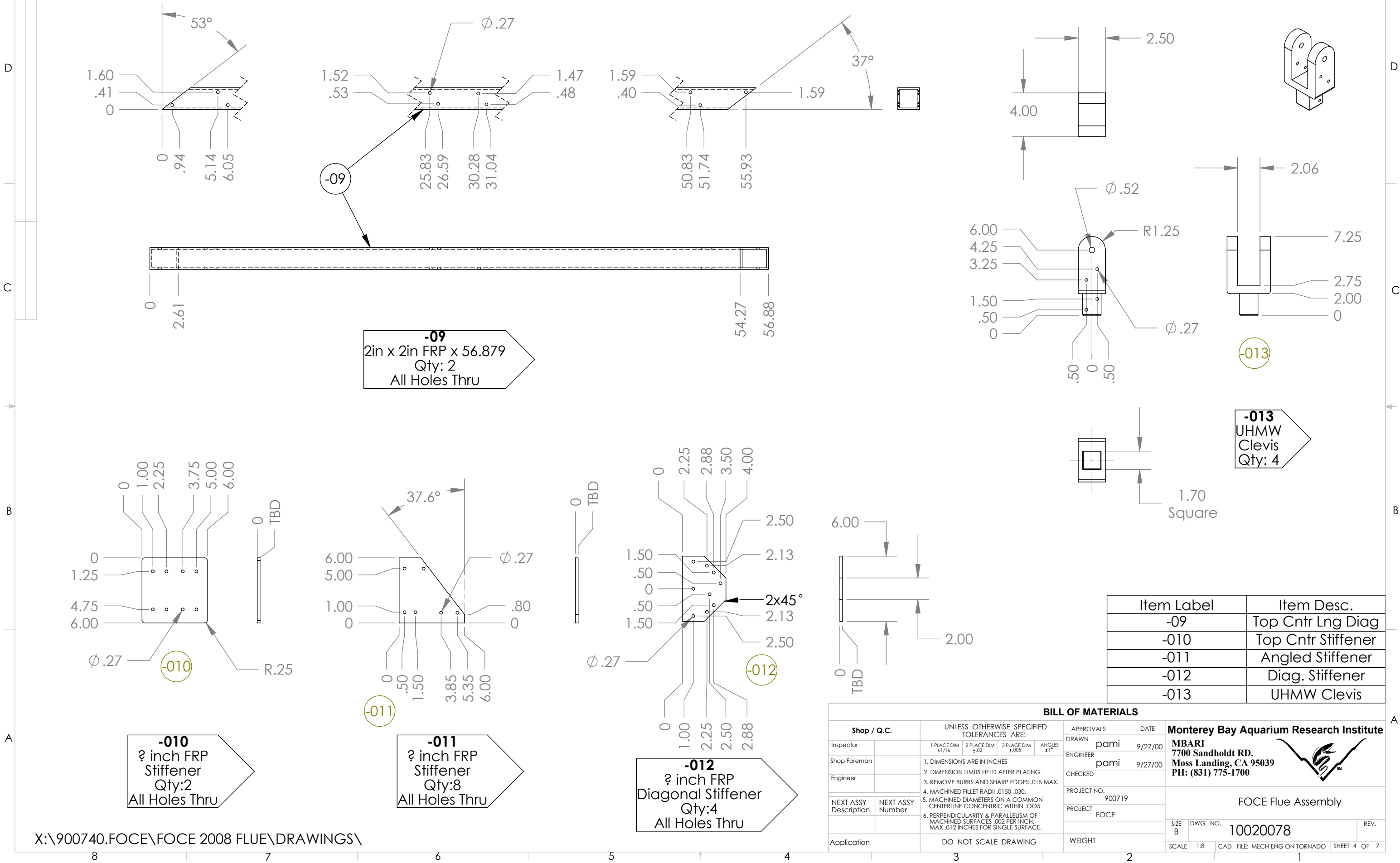
-08
2in x 2in FRP x 46.37in
Qty:4
All Holes Thru

Item Label	Item Desc.
-05	Side Diagonal
-06	Side Diagonal
-07	Top Cntr Shrt Diag.
-08	Top Cntr Ltrl.

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 pami	9/27/00	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 pami	9/27/00	 FOCE Flue Assembly	
Engineer						PROJECT NO. 900719			
NEXT ASSY Description	NEXT ASSY Number					PROJECT FOCE			
						SIZE B	DWG. NO. 10020078		REV.
Application		DO NOT SCALE DRAWING				WEIGHT		SCALE 1:2 CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 7	

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			



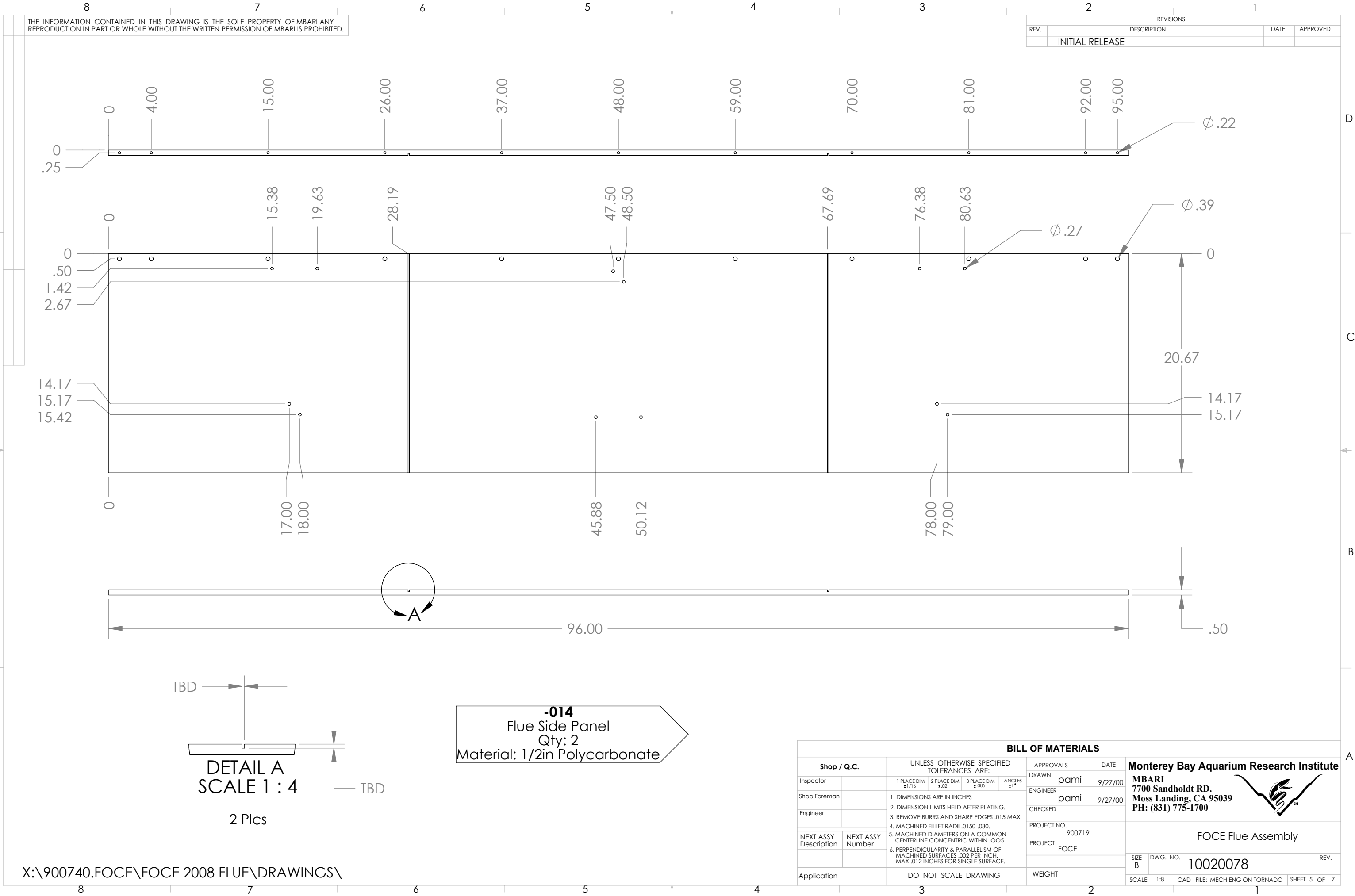
Item Label	Item Desc.
-09	Top Cntr Lng Diag
-010	Top Cntr Stiffener
-011	Angled Stiffener
-012	Diag. Stiffener
-013	UHMW Clevis

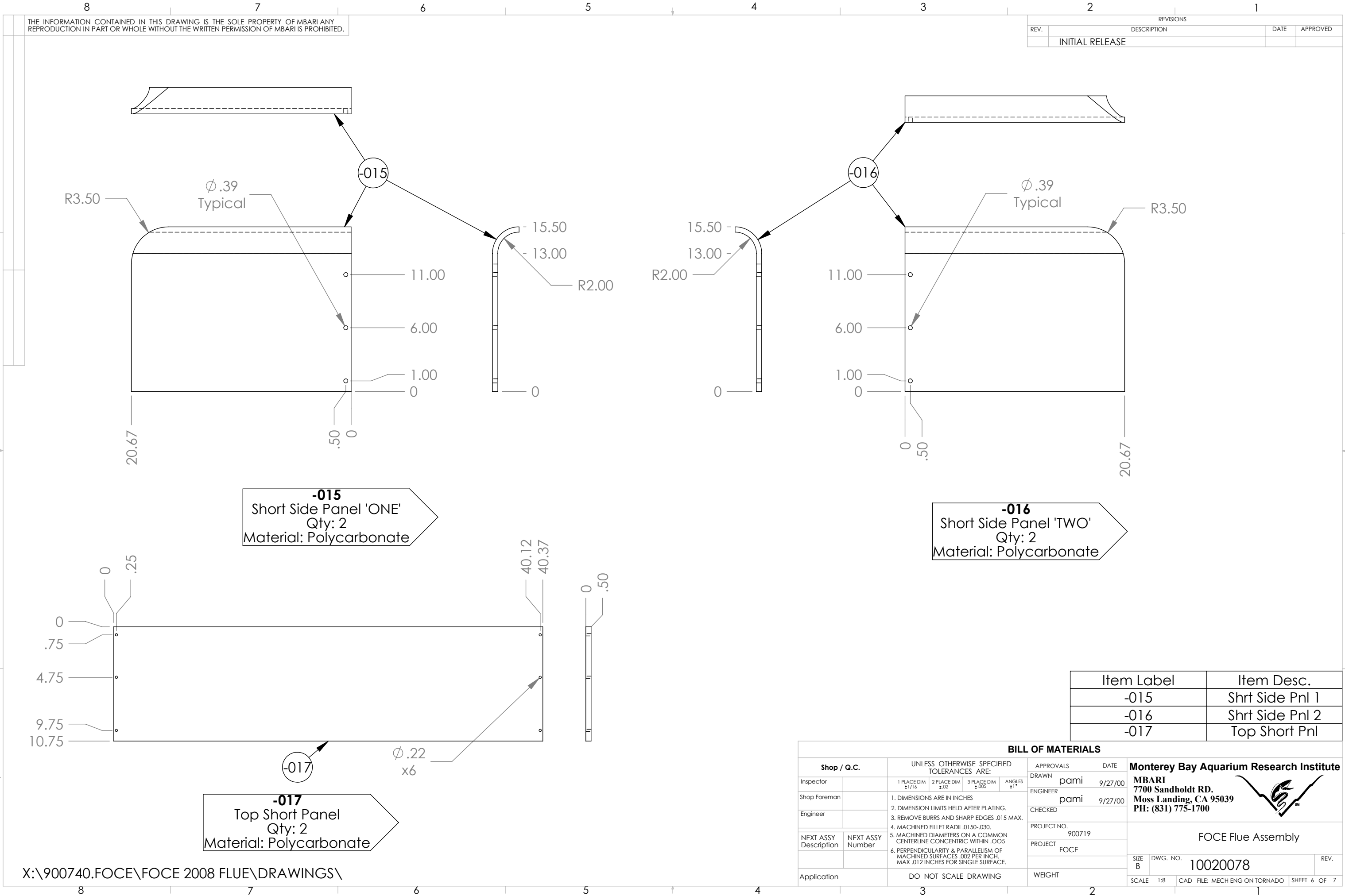
BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Engineer		1. DIMENSIONS ARE IN INCHES	2. DIMENSION LIMITS HELD AFTER PLATING.
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.	4. MACHINED FILLET RADII .0150-.030.
NEXT ASSY Description	NEXT ASSY Number	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.
Application		DO NOT SCALE DRAWING	WEIGHT
		DATE	9/27/00
		ENGINEER	pami
		CHECKED	pami
		PROJECT NO.	900719
		PROJECT	FOCE
		SIZE B	DWG. NO. 10020078
		SCALE 1:8	CAD FILE: MECH ENG ON TORNADO
		SHEET 4 OF 7	REV.

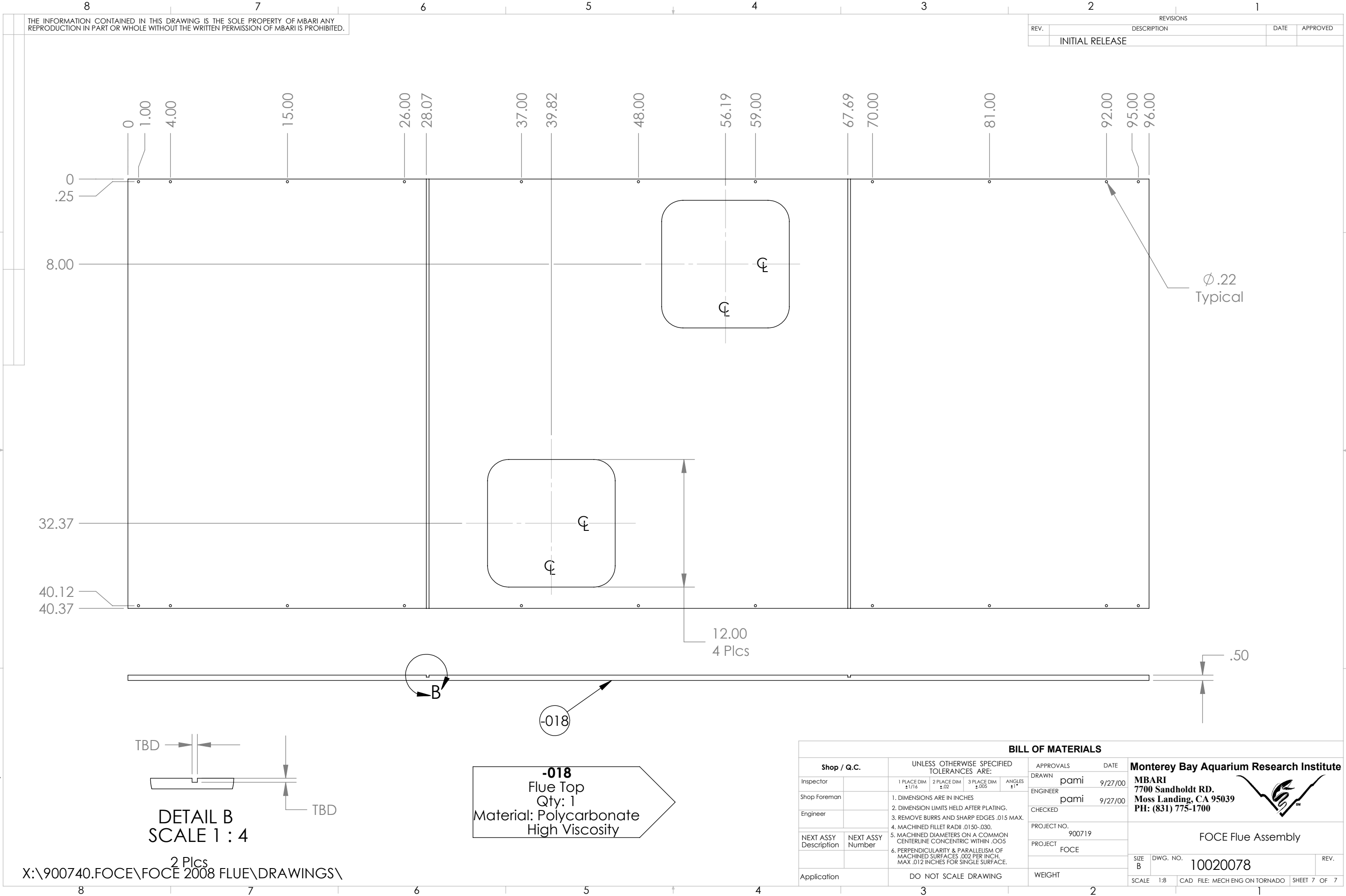
Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



FOCE Flue Assembly







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		

BILL OF MATERIALS			
Shop / Q.C.		APPROVALS	DATE
Inspector		DRAWN	pami 9/27/00
Shop Foreman		ENGINEER	pami 9/27/00
Engineer		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO.	900719
		PROJECT	FOCE
Application	DO NOT SCALE DRAWING	WEIGHT	
		SIZE B	DWG. NO. 10020078
		SCALE 1:8	CAD FILE: MECH ENG ON TORNADO SHEET 7 OF 7

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



FOCE Flue Assembly