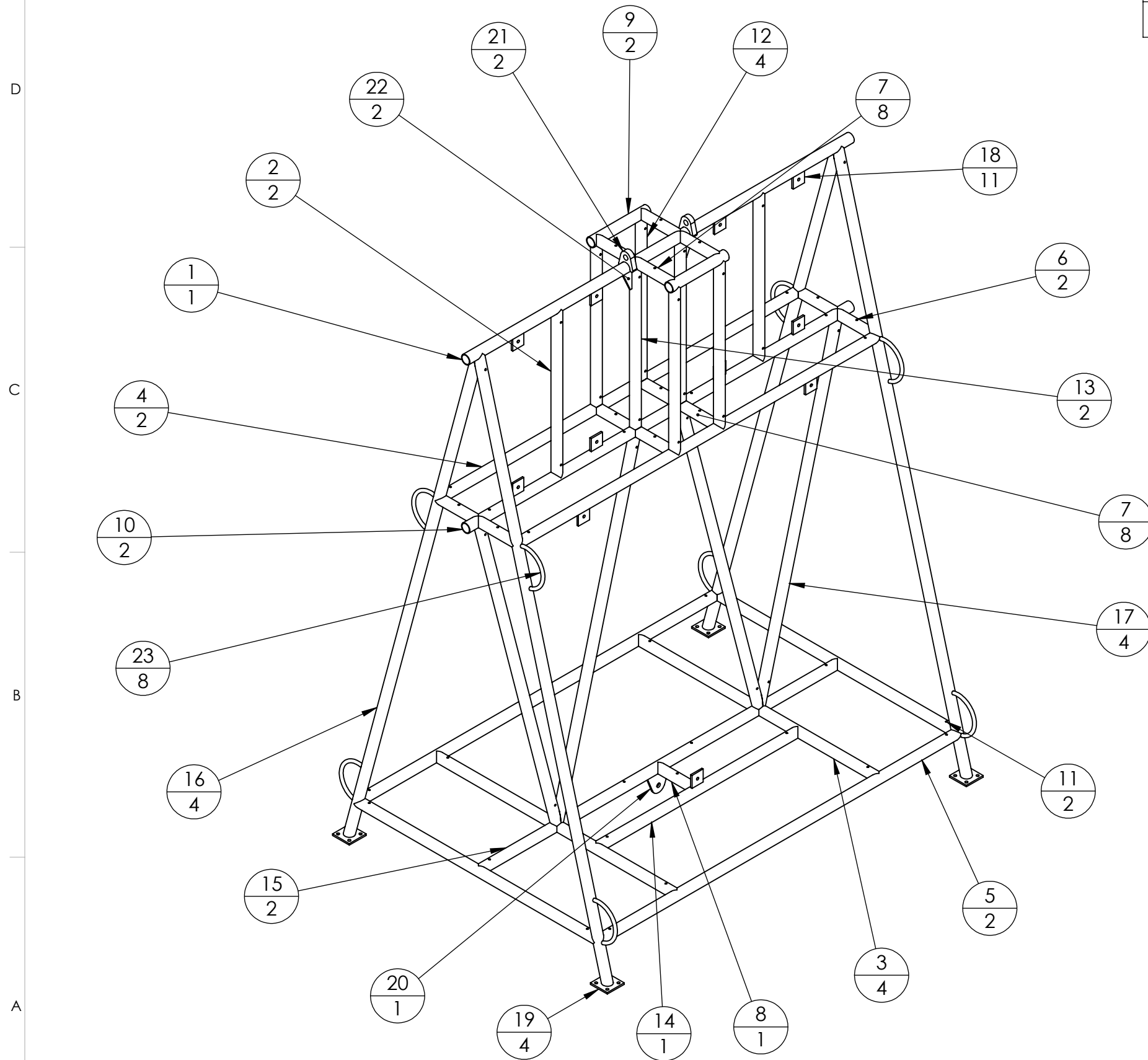


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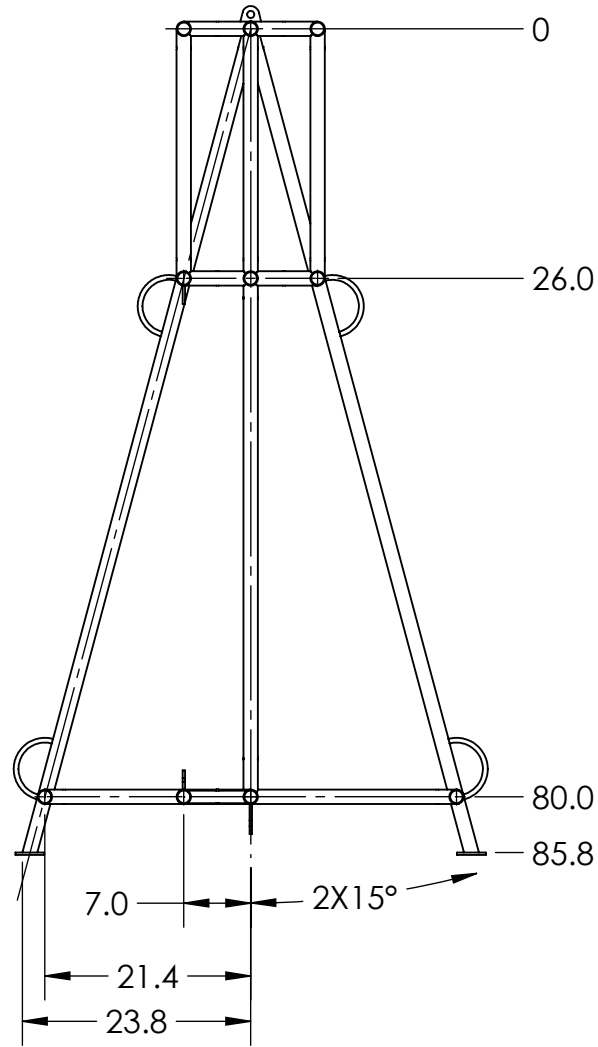
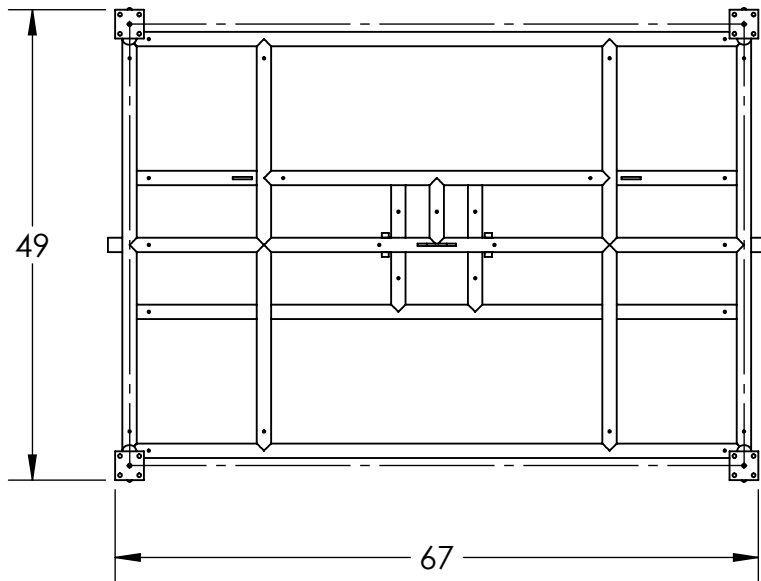
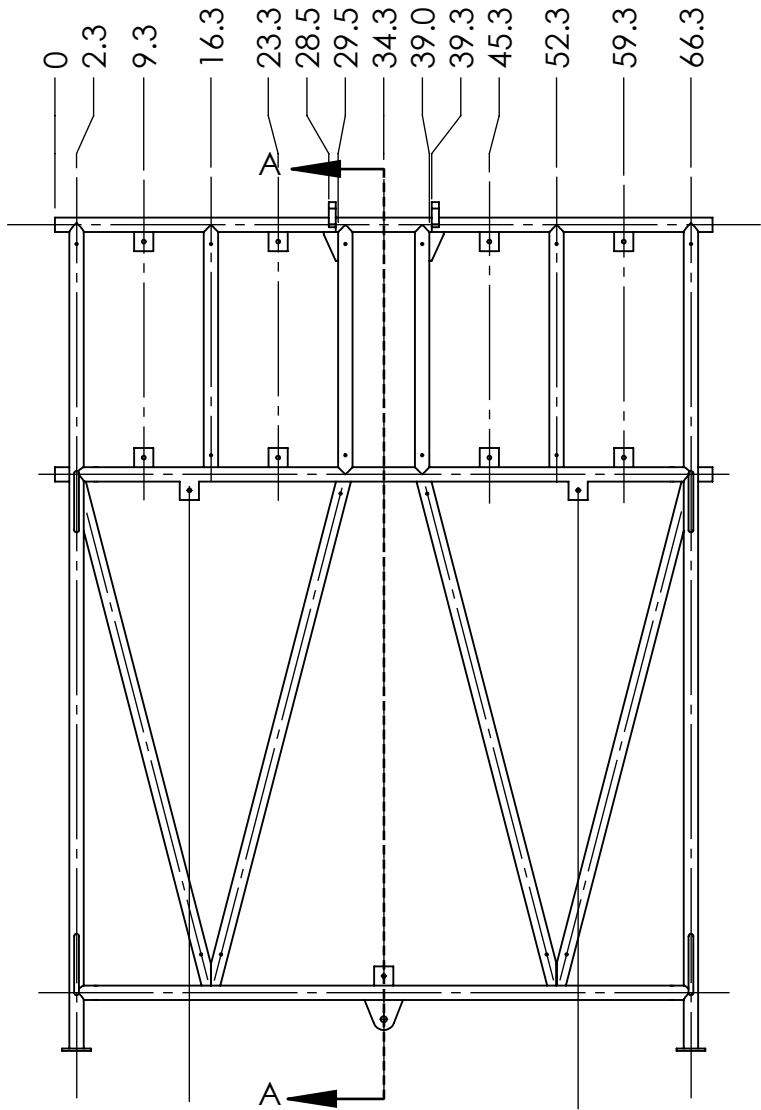
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	*		4/25/2025	



ITEM NO.	QTY.	DESCRIPTION	LENGTH
1	1	RND TUBE 1.5 OD X 0.094 WALL	68.5
2	2	RND TUBE 1.5 OD X 0.094 WALL	26
3	4	RND TUBE 1.5 OD X 0.094 WALL	21.436
4	2	RND TUBE 1.5 OD X 0.094 WALL	64
5	2	RND TUBE 1.5 OD X 0.094 WALL	64
6	2	RND TUBE 1.5 OD X 0.094 WALL	13.933
7	8	RND TUBE 1.5 OD X 0.094 WALL	6.967
8	1	RND TUBE 1.5 OD X 0.094 WALL	6.967
9	2	RND TUBE 1.5 OD X 0.094 WALL	10
10	2	RND TUBE 1.5 OD X 0.094 WALL	2.25
11	2	RND TUBE 1.5 OD X 0.094 WALL	42.872
12	4	RND TUBE 1.5 OD X 0.094 WALL	26
13	2	RND TUBE 1.5 OD X 0.094 WALL	24.939
14	1	RND TUBE 1.5 OD X 0.094 WALL	36
15	2	RND TUBE 1.5 OD X 0.094 WALL	64
16	4	RND TUBE 1.5 OD X 0.094 WALL	89.034
17	4	RND TUBE 1.5 OD X 0.094 WALL	54.733
18	11	INSTRUMENT MOUNT PLATE	
19	4	FRAME FOOT PLATE	
20	1	DROPWEIGHT PADEYE	
21	2	LIFTING EYE	
22	2	LIFTING GUSSET	
23	8	TAGLINE BAIL	

UNLESS OTHERWISE SPECIFIED				APPROVALS DATE		MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 			
1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN: ENOCH NICHOLSON 03/25/2025		MBARI 7700 SANDHOLDT RD. MOSS LANDING, CA 95039 PH: (831) 775-1700			
- DIMENSIONS ARE IN INCHES. - DIMENSION LIMITS HELD AFTER PLATING. - REMOVE BURRS AND SHARP EDGES .015 MAX. - MACHINED FILLET RADII .015-.030. - $\pm .005$ FOR MACHINED DIAMETERS SHARING A C. - $\pm .0005$ OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE. - $\frac{.001}{\sqrt{R}}$ ON MACHINED SURFACES - $\frac{.001}{\sqrt{R}}$ ON DRILLED HOLES				CHECKED:		BEAM LANDER FRAME WELDMENT			
				PROJECT: 902306					
				MATERIAL: TITANIUM VOLUME: 675.044IN^3					
DO NOT SCALE DRAWING				WEIGHT: 112.183LB		SIZE B	DWG. NO. 100222534		REV. 02
						SCALE 1:15		SHEET 1 OF 10	

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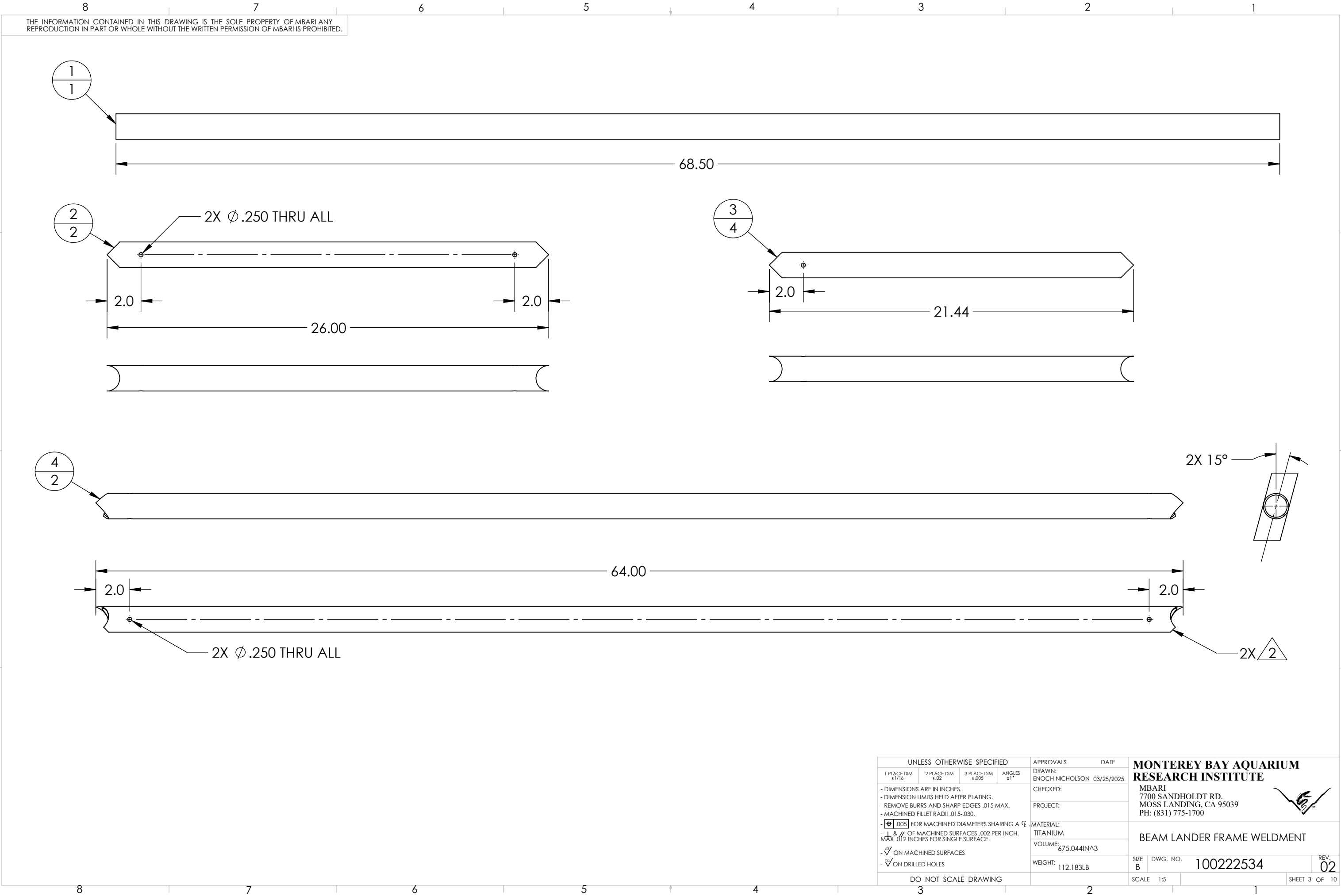


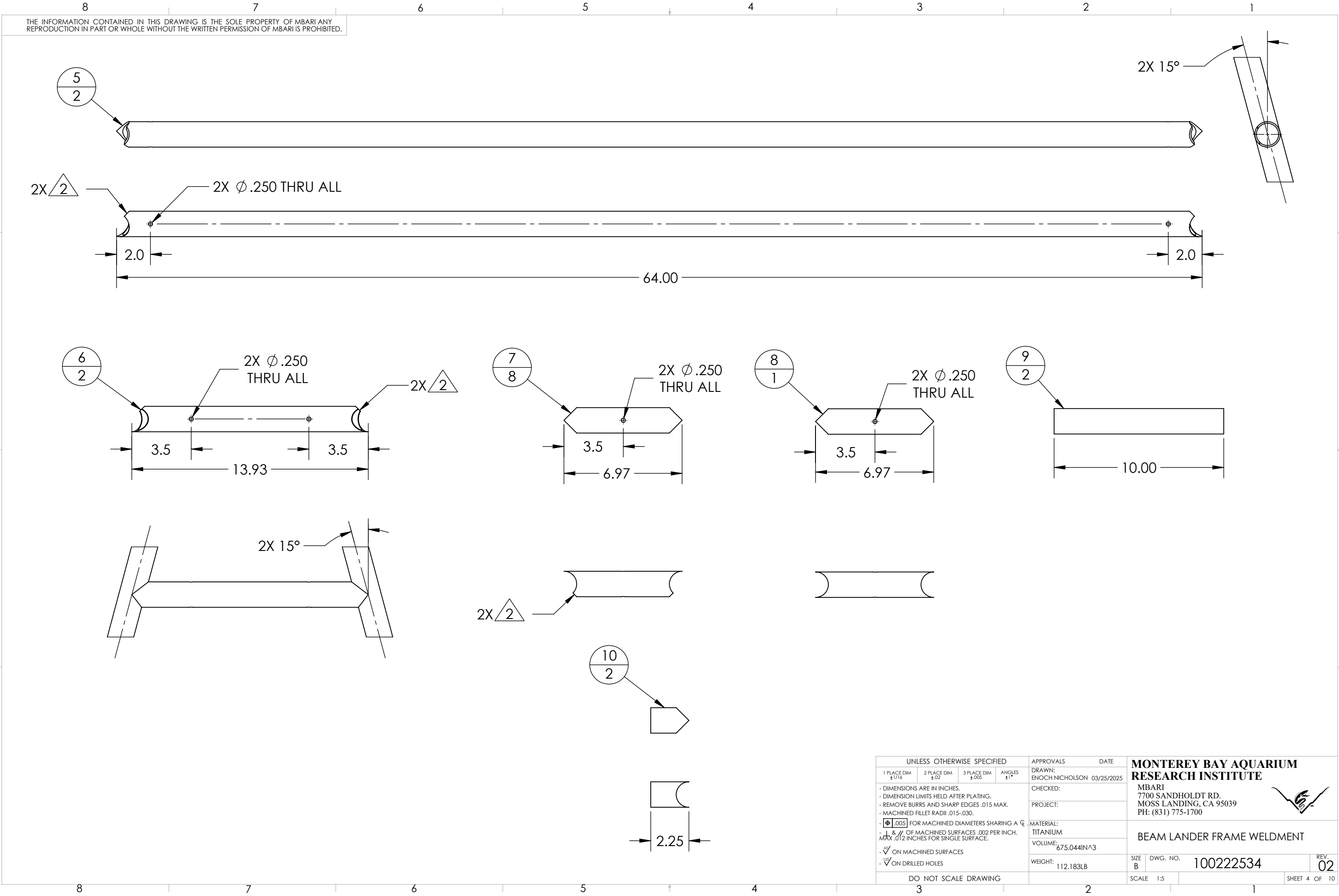
SECTION A-A

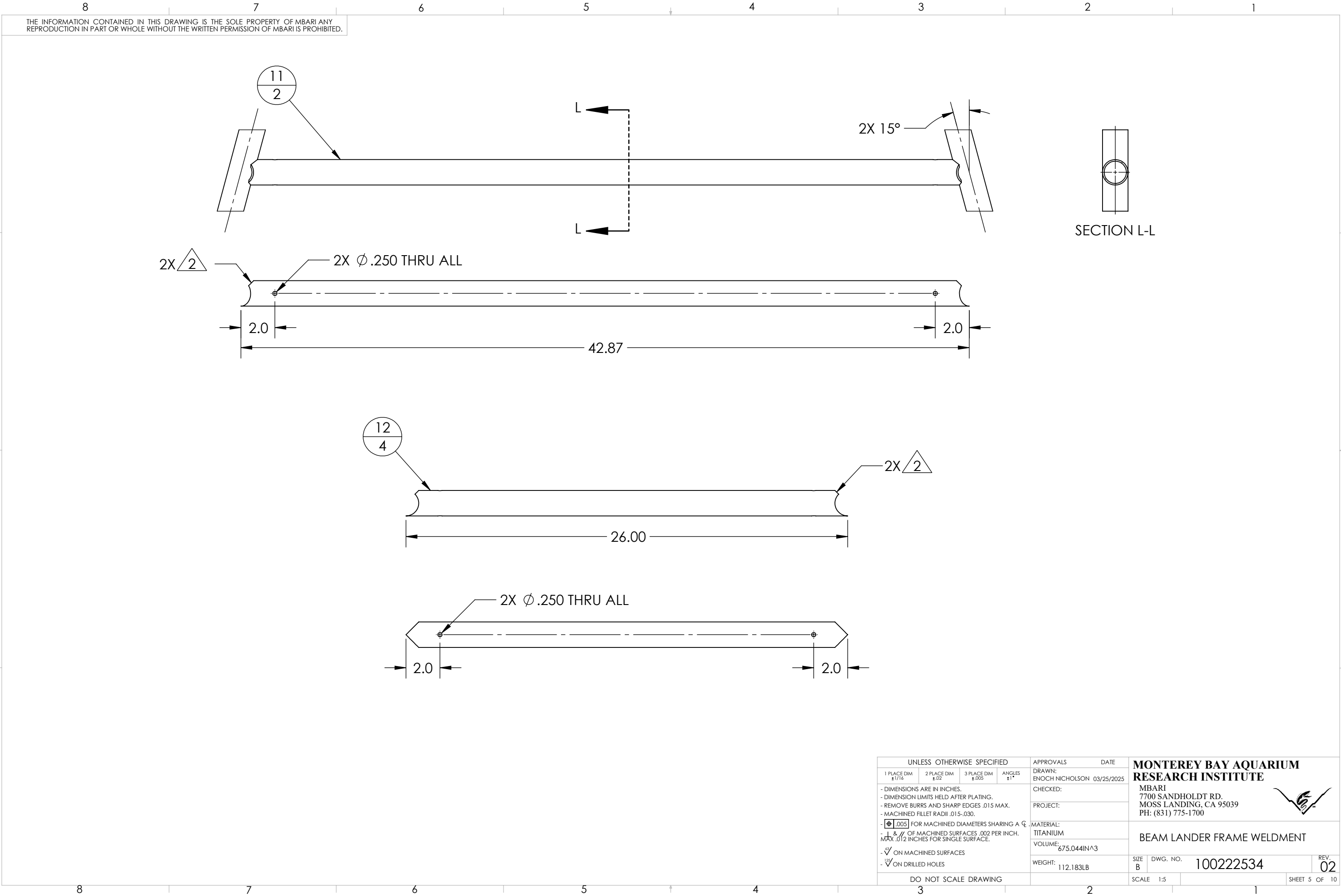
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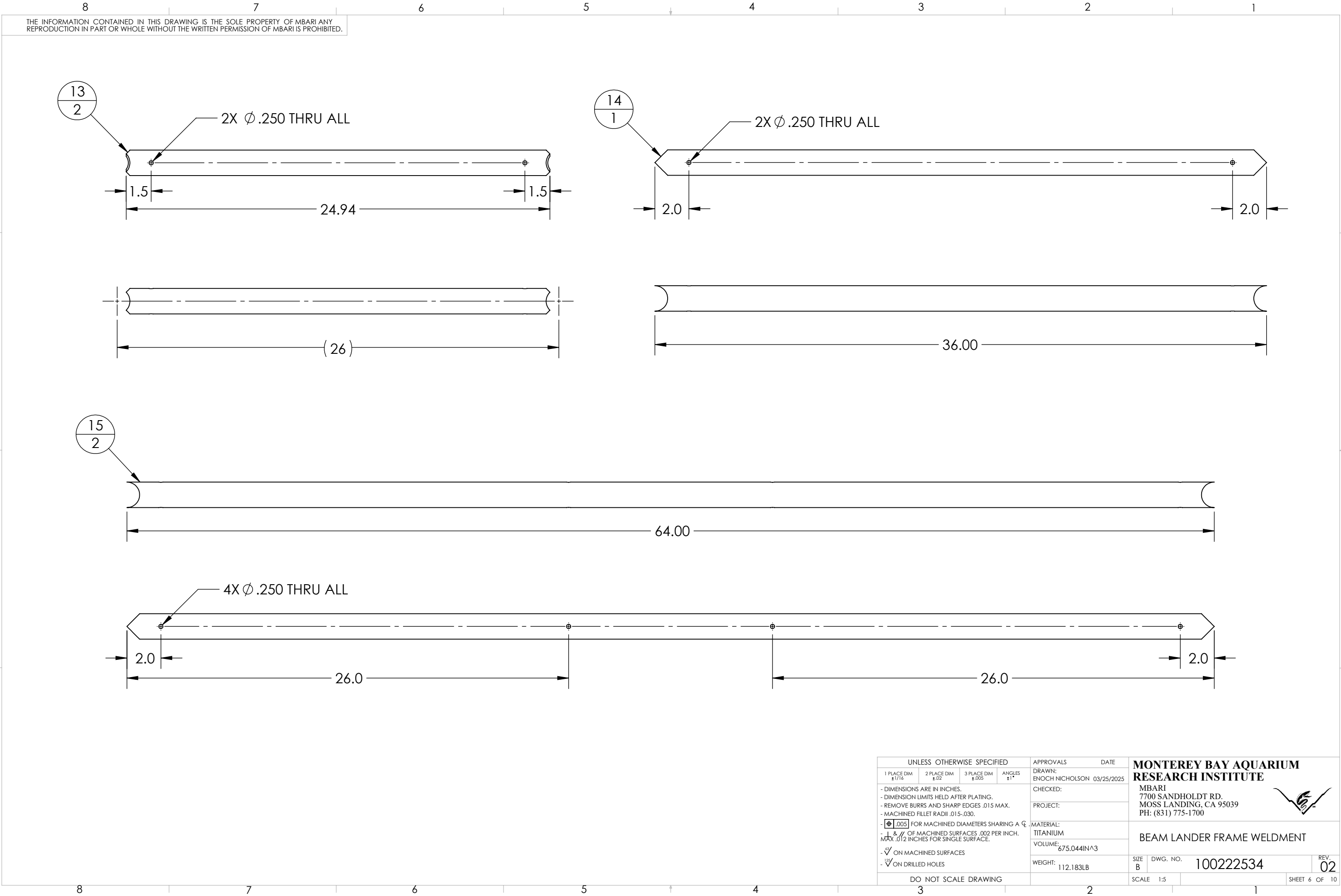
1. DRILL ALL 1/4 IN RELIEF HOLE THRU BOTH SIDES. INDICATED DIMENSION FOR THESE RELIEF HOLES IS A MIN DISTANCE FROM THE TUBE END
2. GRIND TO FIT AT 45°
3. USE XX WELD ALL OVER
4. ALIGN WITH CENTER OF CROSS MEMBER
5. PLACE AND WELD CENTERED ON TUBING
6. USE PN 100222537 INSTRUMENT HANGAR AS A JIG TO PLACE

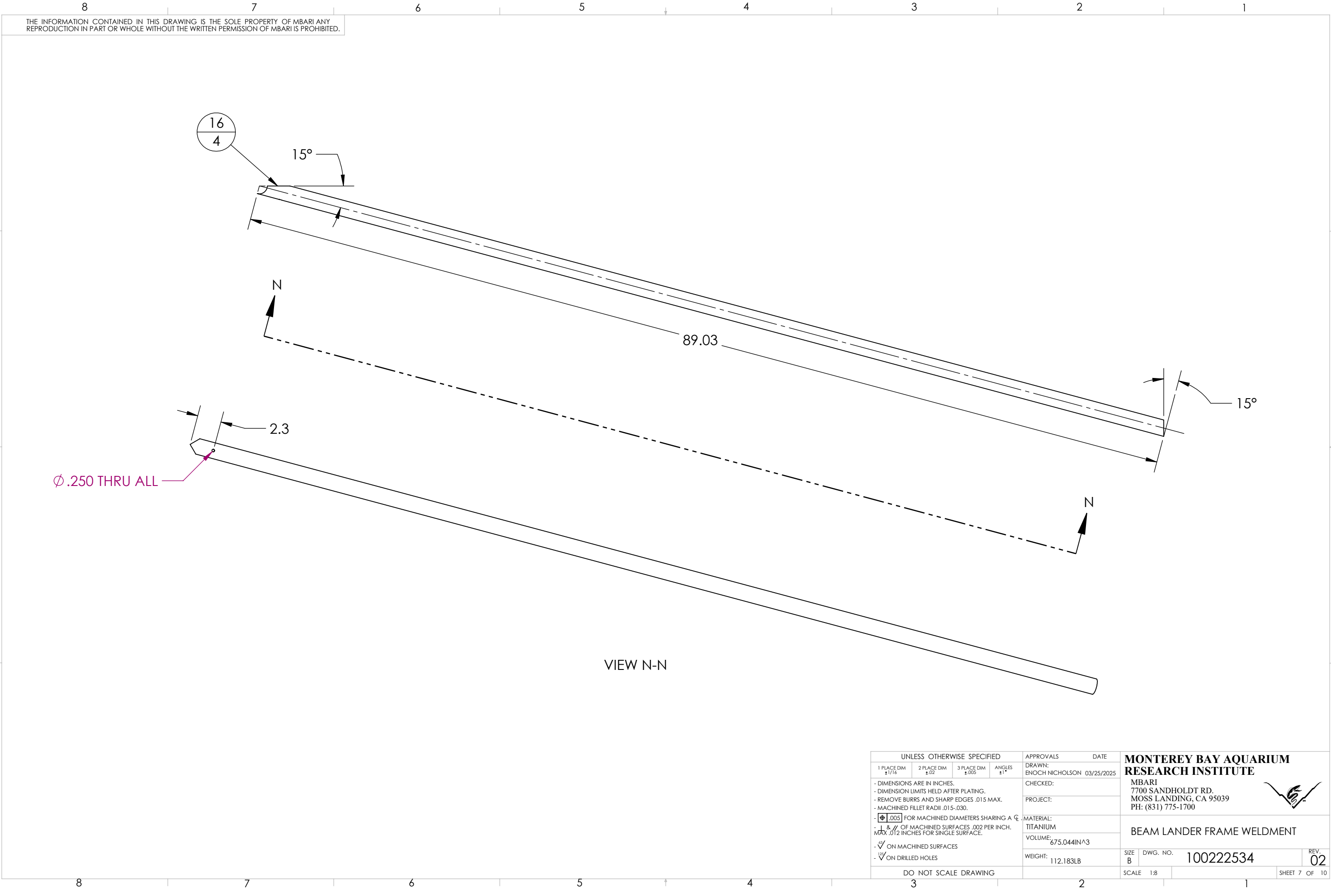
UNLESS OTHERWISE SPECIFIED				APPROVALS	DATE	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE MBARI 7700 SANDHOLDT RD. MOSS LANDING, CA 95039 PH: (831) 775-1700		
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN: ENOCH NICHOLSON	03/25/2025			
- DIMENSIONS ARE IN INCHES. - DIMENSION LIMITS HELD AFTER PLATING. - REMOVE BURRS AND SHARP EDGES .015 MAX. - MACHINED FILLET RADII .015-.030. - $\phi .005$ FOR MACHINED DIAMETERS SHARING A ϕ - $\perp$ & $\parallel$ OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE. - $\sqrt{\text{R}}$ ON MACHINED SURFACES - $\sqrt{\text{H}}$ ON DRILLED HOLES				CHECKED:				
				PROJECT:				
				MATERIAL:	TITANIUM	BEAM LANDER FRAME WELDMENT		
				VOLUME:	675.044IN^3			
DO NOT SCALE DRAWING				WEIGHT:	112.183LB	SIZE B	DWG. NO. 100222534	REV. 02
				SCALE	1:20	SHEET 2 OF 10		



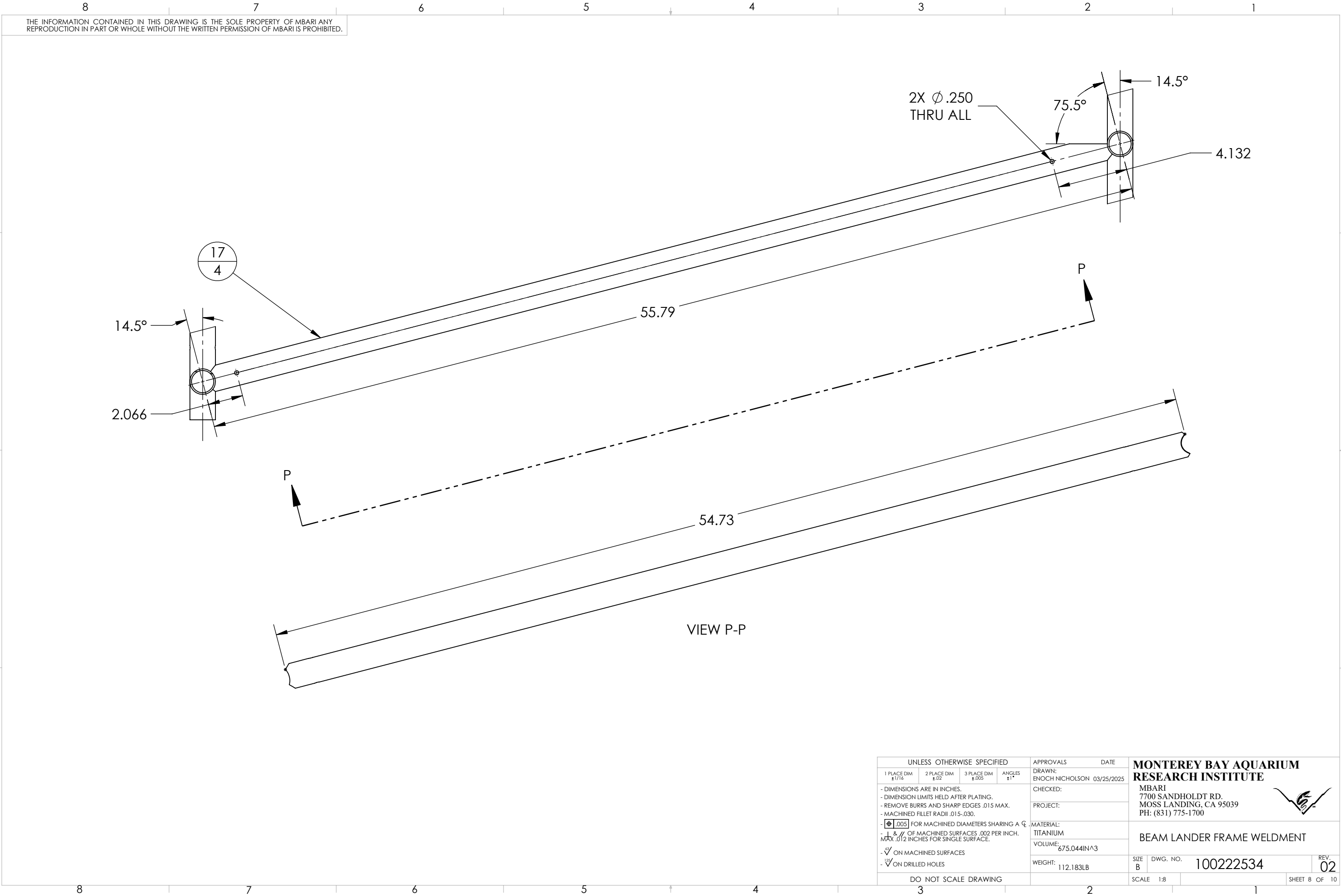






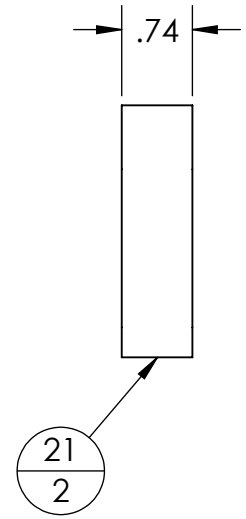
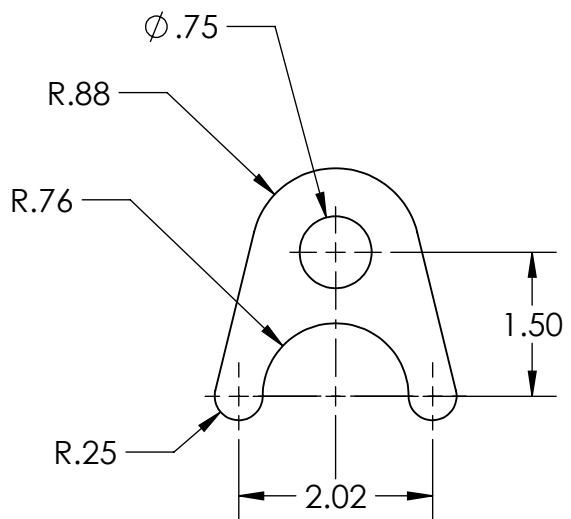
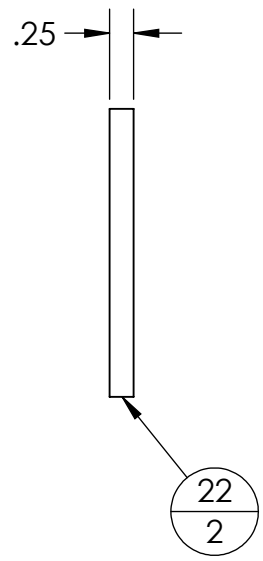
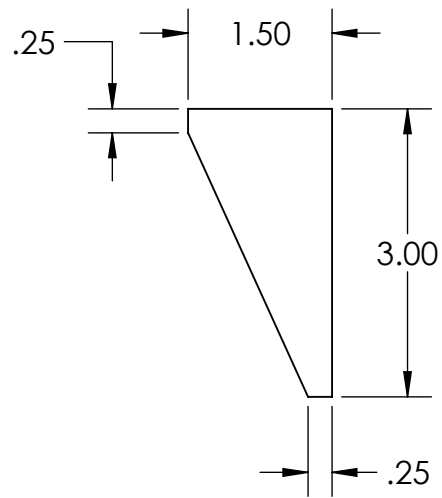
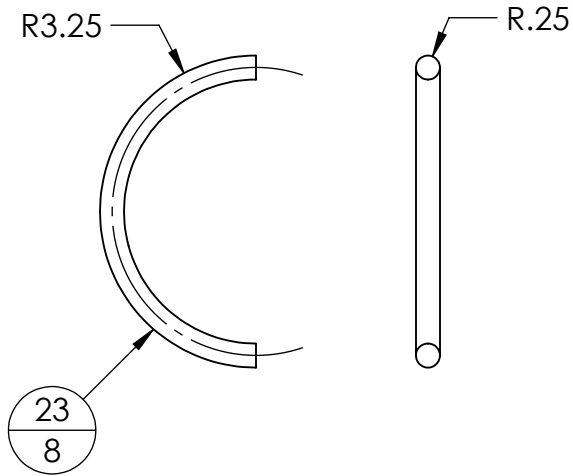
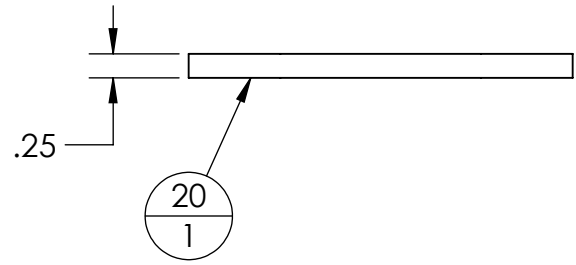
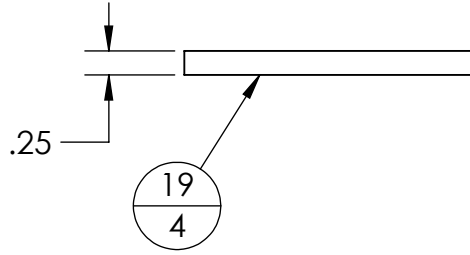
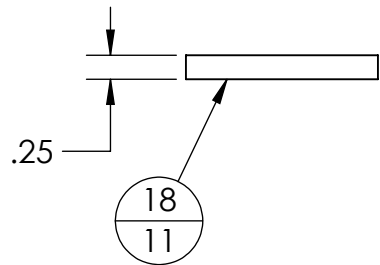
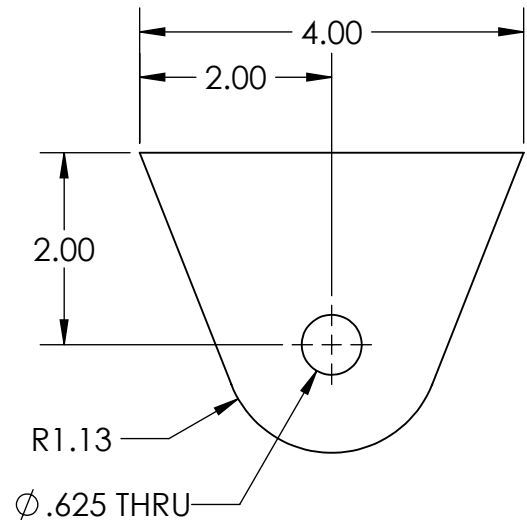
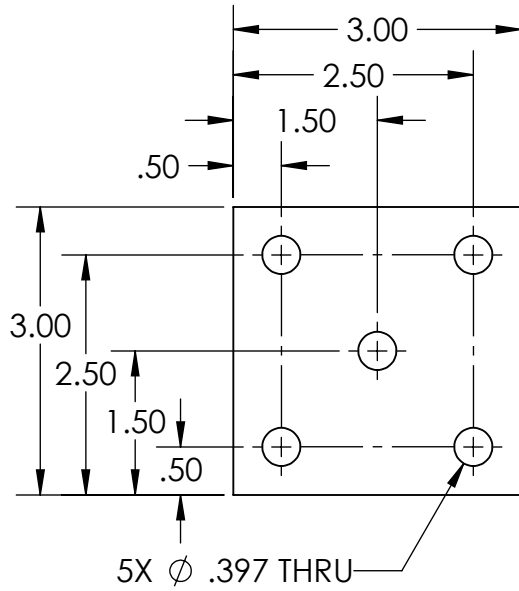
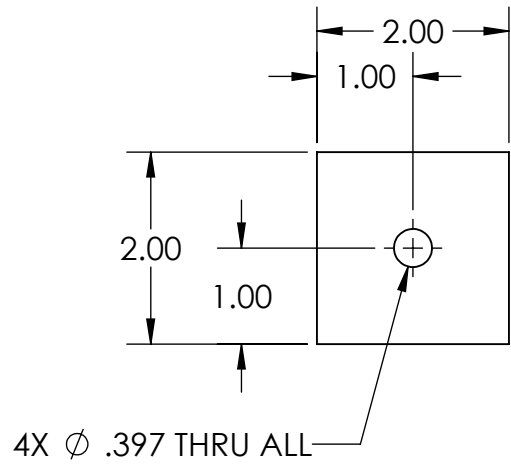


UNLESS OTHERWISE SPECIFIED				APPROVALS	DATE	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE  MBARI 7700 SANDHOLDT RD. MOSS LANDING, CA 95039 PH: (831) 775-1700			BEAM LANDER FRAME WELDMENT	
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN: ENOCH NICHOLSON	03/25/2025					
- DIMENSIONS ARE IN INCHES. - DIMENSION LIMITS HELD AFTER PLATING. - REMOVE BURRS AND SHARP EDGES .015 MAX. - MACHINED FILLET RADII .015-.030. - $\text{⌀} \pm .005$ FOR MACHINED DIAMETERS SHARING A ⌀ . - ⊥ & // OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. - Ⓢ ON MACHINED SURFACES - Ⓢ ON DRILLED HOLES				CHECKED:						
				PROJECT:						
				MATERIAL: TITANIUM		SIZE B		DWG. NO. 100222534		REV. 02
				VOLUME: 675.044IN^3		WEIGHT: 112.183LB		SCALE 1:8		SHEET 7 OF 10
DO NOT SCALE DRAWING										

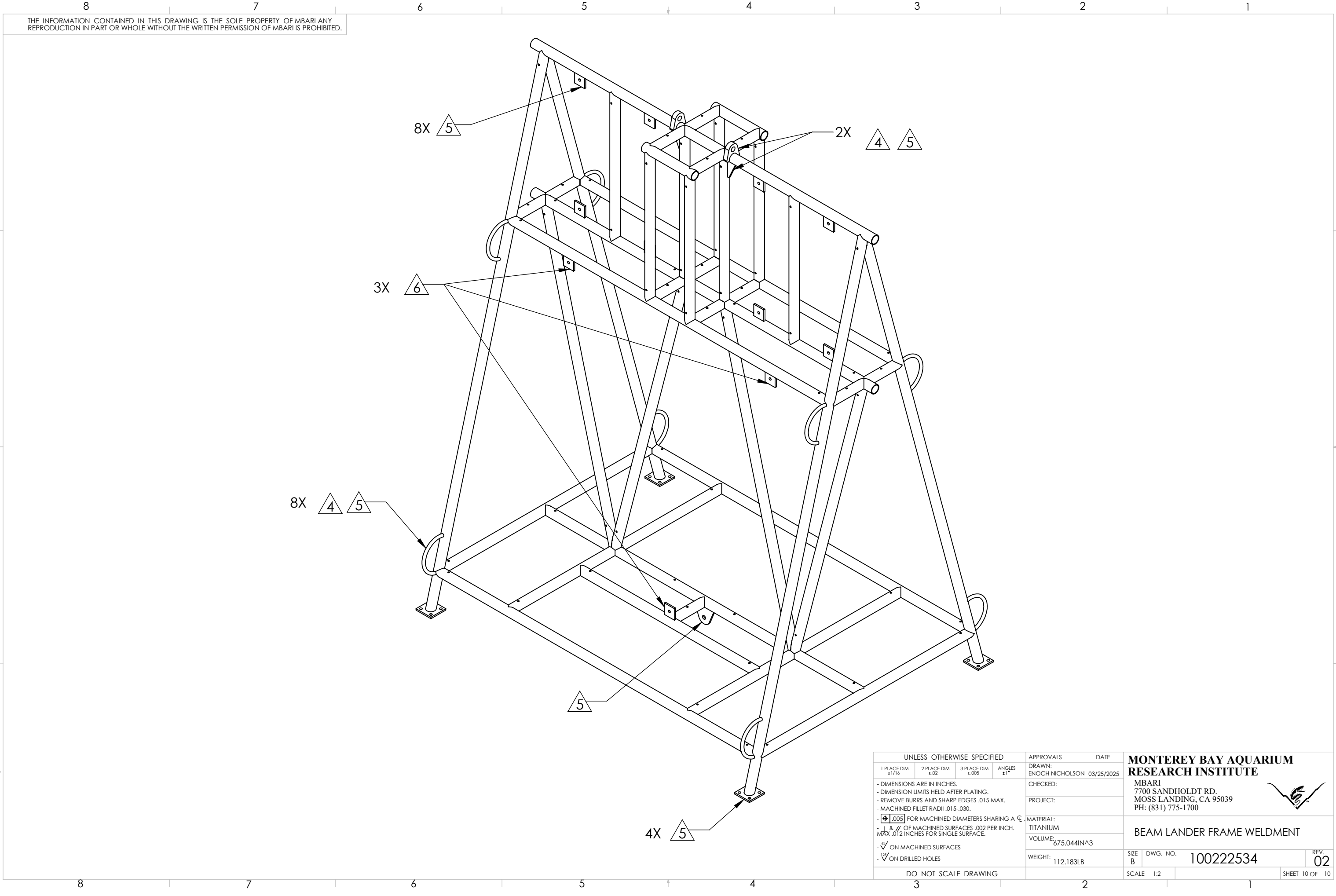


UNLESS OTHERWISE SPECIFIED				APPROVALS	DATE	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE		
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN: ENOCH NICHOLSON	03/25/2025			
- DIMENSIONS ARE IN INCHES. - DIMENSION LIMITS HELD AFTER PLATING. - REMOVE BURRS AND SHARP EDGES .015 MAX. - MACHINED FILLET RADII .015-.030. - $\text{⌀} \pm .005$ FOR MACHINED DIAMETERS SHARING A ⌀. - ⊥ & // OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. - Ⓢ ON MACHINED SURFACES - Ⓢ ON DRILLED HOLES				CHECKED:		MBARI 7700 SANDHOLDT RD. MOSS LANDING, CA 95039 PH: (831) 775-1700		
				PROJECT:				
				MATERIAL:	TITANIUM	BEAM LANDER FRAME WELDMENT		
				VOLUME:	675.044IN^3			
DO NOT SCALE DRAWING				WEIGHT:	112.183LB	SIZE B	DWG. NO. 100222534	REV. 02
				SCALE	1:8	SHEET 8 OF 10		

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UNLESS OTHERWISE SPECIFIED				APPROVALS		DATE		MONTEREY BAY AQUARIUM RESEARCH INSTITUTE			
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- DIMENSIONS ARE IN INCHES. - DIMENSION LIMITS HELD AFTER PLATING. - REMOVE BURRS AND SHARP EDGES .015 MAX. - MACHINED FILLET RADII .015-.030. - $\boxed{+0.005}$ FOR MACHINED DIAMETERS SHARING A C. - $\perp$ & $\parallel$ OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE. - $\sqrt{R}$ ON MACHINED SURFACES - $\sqrt{CS}$ ON DRILLED HOLES				CHECKED:				BEAM LANDER FRAME WELDMENT			
				PROJECT:							
				MATERIAL: TITANIUM							
				VOLUME: 675.044IN^3				SIZE B		DWG. NO. 100222534	
				WEIGHT: 112.183LB						REV. 02	
DO NOT SCALE DRAWING								SCALE 1:2		SHEET 9 OF 10	



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				PROJECT:				
				MATERIAL:	TITANIUM	BEAM LANDER FRAME WELDMENT		
				VOLUME:	675.044IN^3			
DO NOT SCALE DRAWING				WEIGHT:	112.183LB	SIZE B	DWG. NO. 100222534	REV. 02
						SCALE 1:2	SHEET 10 OF 10	