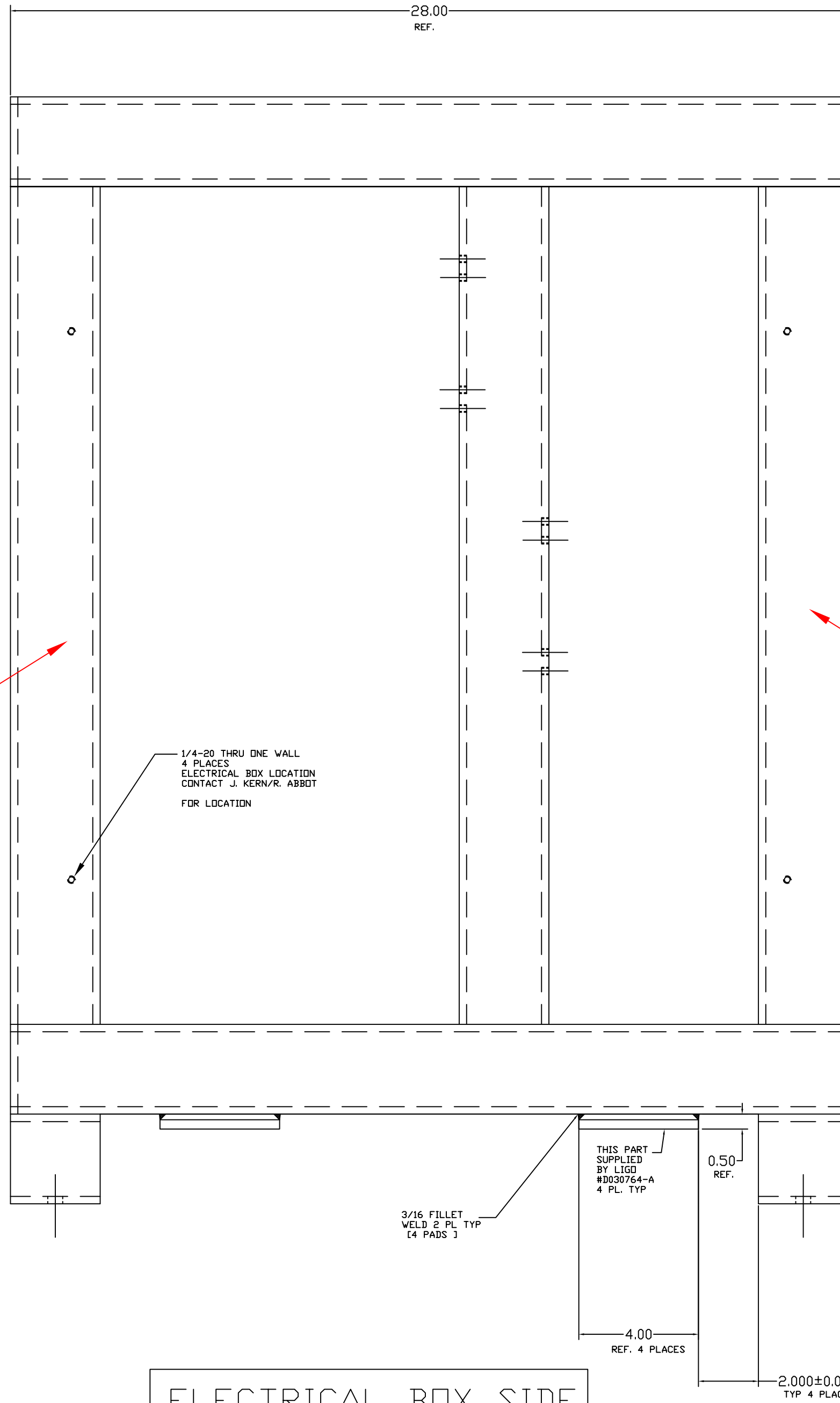


NOTES: (UNLESS OTHERWISE SPECIFIED)

1. WELDED STEEL TUBE CONSTRUCTION

2. 3"X3" X .25 WALL TUBING-ALL

REV.	DATE	DCN #	DRAWING TREE #
A	4-21-04	E040214-00-D	



ELECTRICAL BOX SIDE

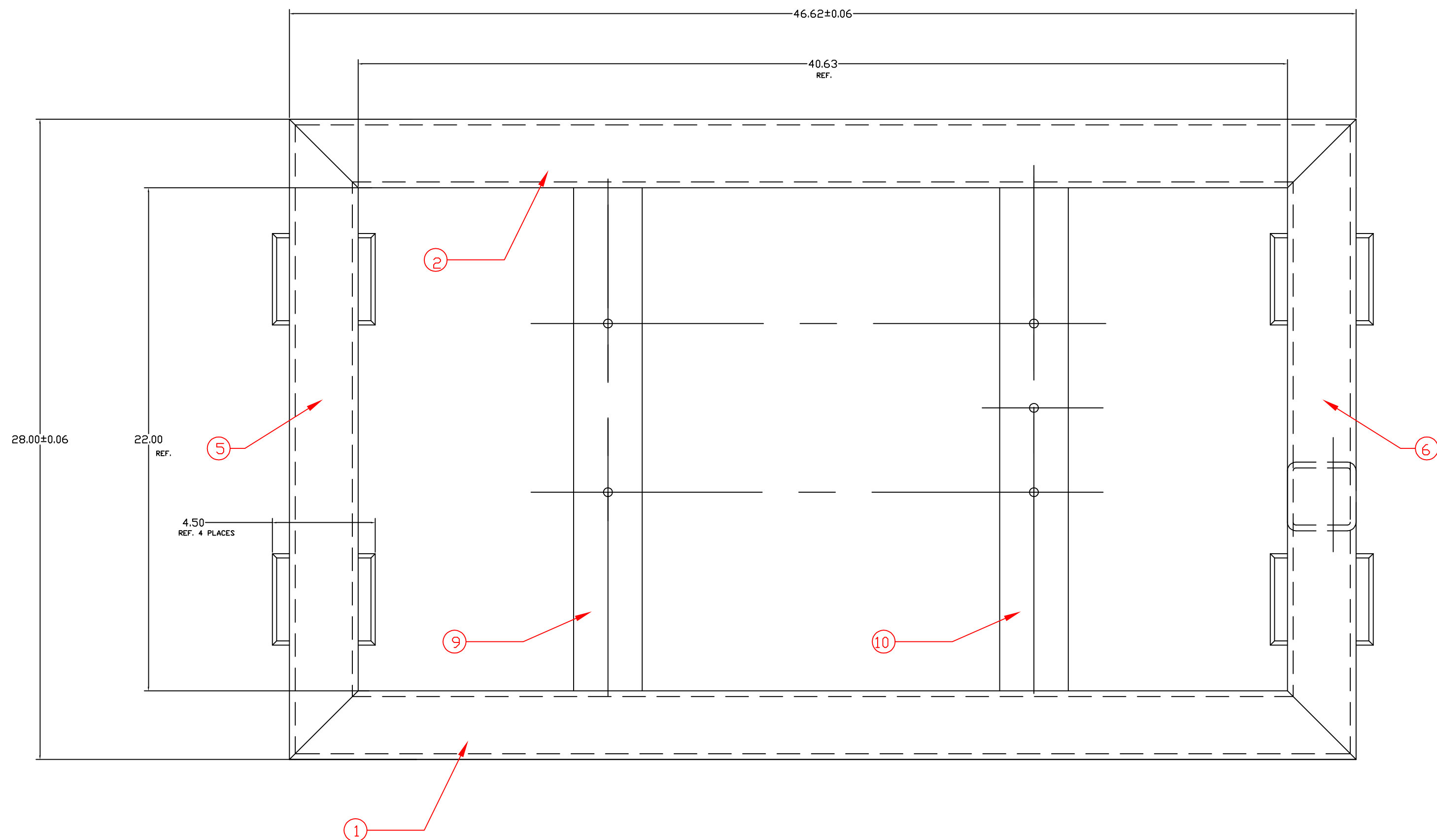
PART GROUPS THAT ARE DIMENSIONALLY IDENTICAL THAT MAY HAVE DIFFERENT FEATURES

26					
25					
24					
23					
22					
20					
19					
18					
17					
16					
15					
14					
13					
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					
2					
1					

ITEM NO.	REQ. QUANTITY	SPARE	TOT. QUANTITY	PART NUMBER	DESCRIPTION	SUPPLIER
PARTS LIST						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES						
DRAWN		DATE	NAME	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
CHECKED		4/21/04	KENM	SYSTEM LLO		
				SUB-SYSTEM HEPI		
				NEXT ASSY N/A		
				PART NAME LLO PUMP STATION FRAME		
TOLERANCES:				SIZE	DWG. NO.	REV
XX	± .005			C	D030783-A	A
XXX	± .01			SCALE:		SHEET 1 OF 5
ANGULAR	± 3 DEG			FILE NAME/LOCATION: D030783-A		
MATERIAL:						
STEEL TUBE						
3"SQ-.25" WALL						
FINISH:						
LIGO						
BLUE PAINT						

NOTES: (UNLESS OTHERWISE SPECIFIED)

REV.	DATE	DCN #	DRAWING TREE #
A	4/21/04	E040214-00-D	

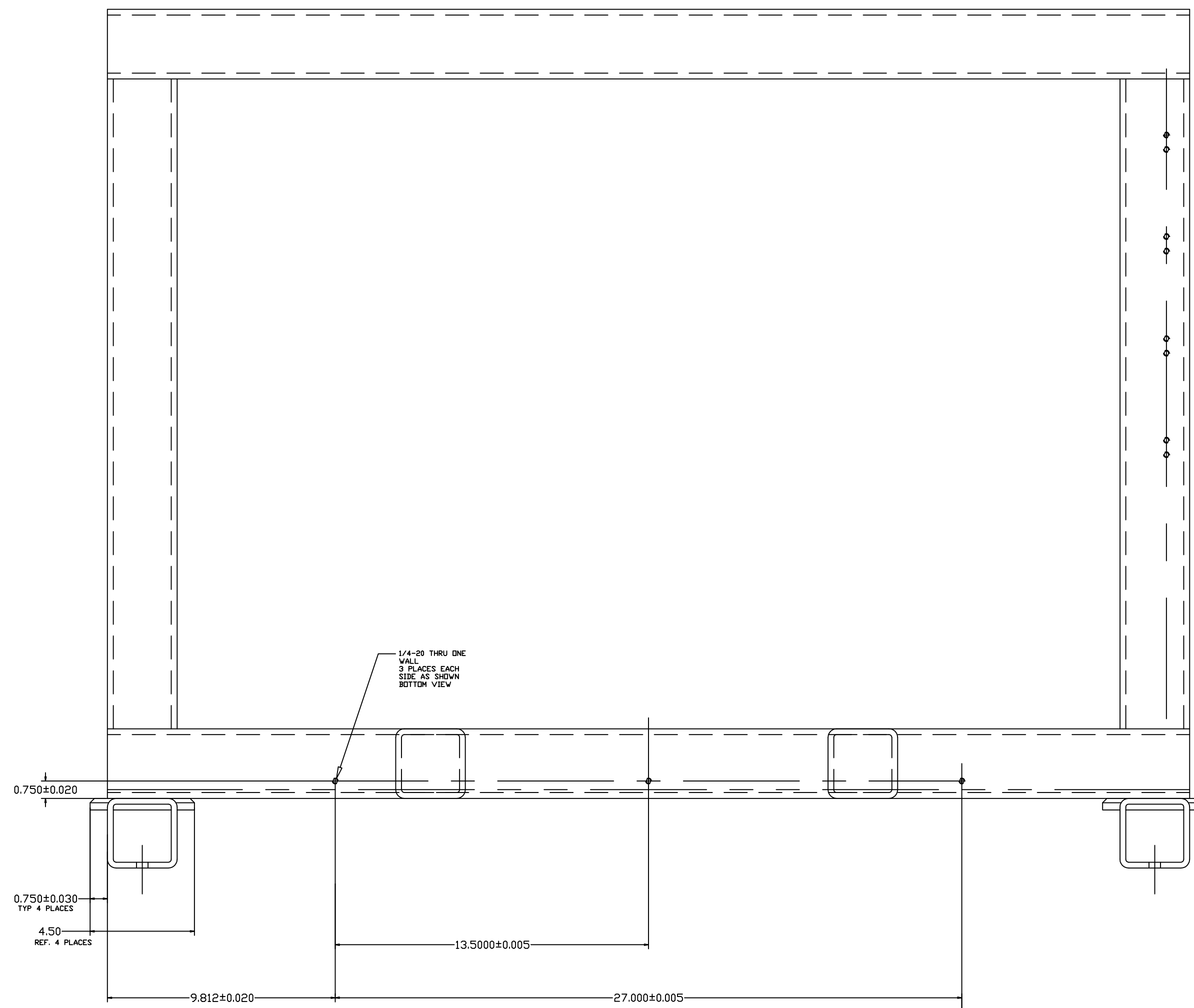


TOP SIDE

ITEM NO.	REQ. QUANTITY	SPARE	TOT. QUANTITY	PART NUMBER	DESCRIPTION	SUPPLIER
PARTS LIST						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES				DATE	NAME	
TOLERANCES: XX ± .005 XXX ± .01 ANGULAR ± 3 DEG				DRAWN	LIGO	
MATERIAL: STEEL TUBE 3" SQ. - .25" WALL				CHECKED	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
FINISH: LIGO BLUE PAINT					SYSTEM LLO	
					SUB-SYSTEM HEPI	
					NEXT ASSY N/A	
					PART NAME LLO PUMP STATION FRAME	
				COMMENTS:	SIZE DWG. NO.	REV
					C D030783-A	A
					SCALE:	SHEET 2 OF 5

NOTES: (UNLESS OTHERWISE SPECIFIED)

REV.	DATE	DCN #	DRAWING TREE #
A	4/21/04	E040214-00-D	

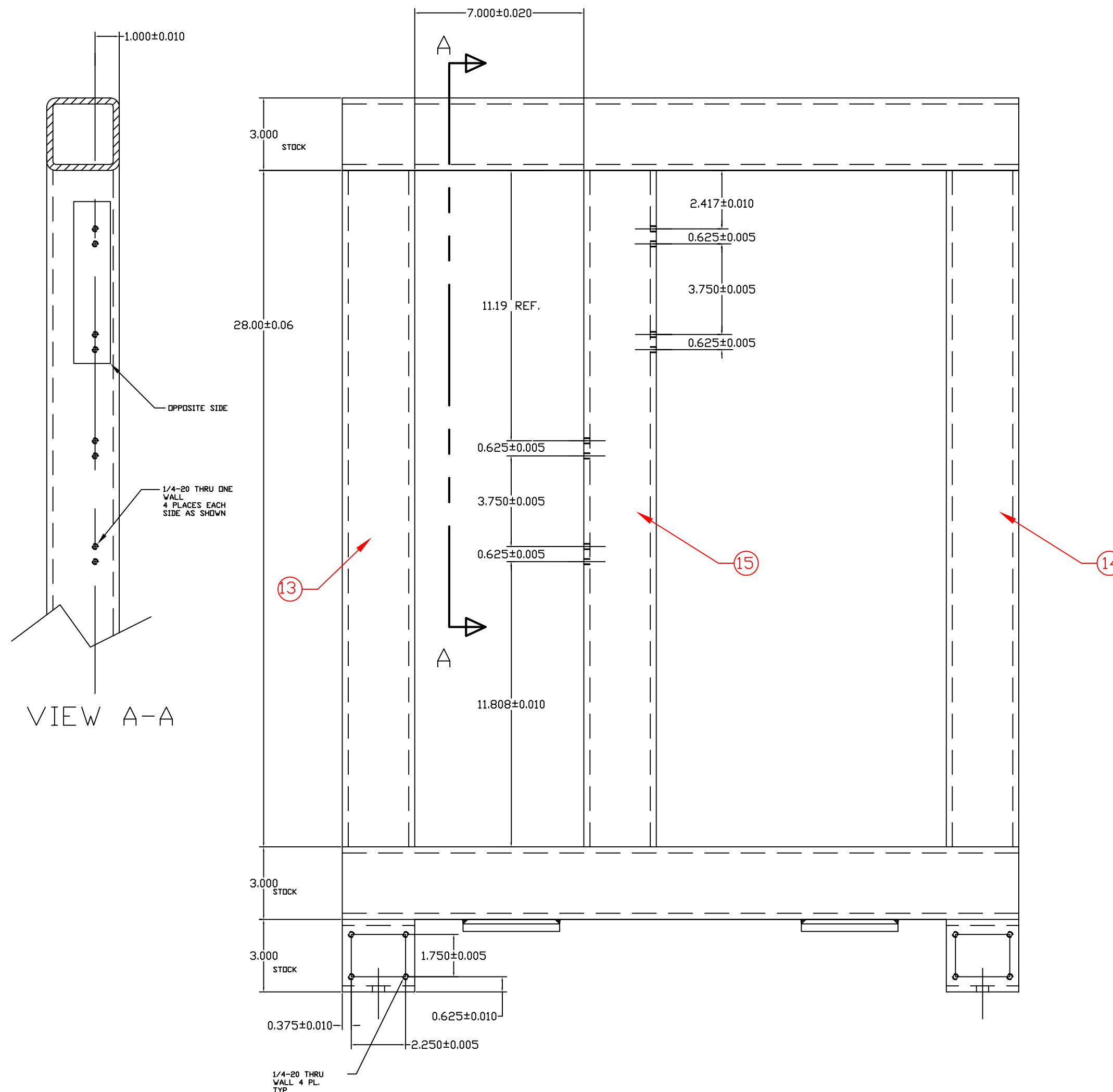


MANIFOLD SIDE

ITEM NO.	REQ. QUANTITY	SPARE	TOT. QUANTITY	PART NUMBER	DESCRIPTION	SUPPLIER
PARTS LIST						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES				DATE	NAME	
TOLERANCES:				4/21/04	KENN	
XX ± .005				CHECKED	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
XXX ± .01					SYSTEM LLO	
ANGULAR ± 3 DEG					SUB-SYSTEM HEPI	
MATERIAL					NEXT ASSY N/A	
STEEL TUBE					PART NAME LLO PUMP STATION FRAME	
3" SQ. - .25" WALL				COMMENTS:	SIZE DWG. NO.	REV
FINISH					C D030783-A	A
LIGO					SCALE:	SHEET 3 OF 5
BLUE PAINT					FILE NAME/LOCATION: D030783-A	

NOTES: (UNLESS OTHERWISE SPECIFIED)

REV.	DATE	DCN #	DRAWING TREE #
A	4/21/04	E040214-00-D	



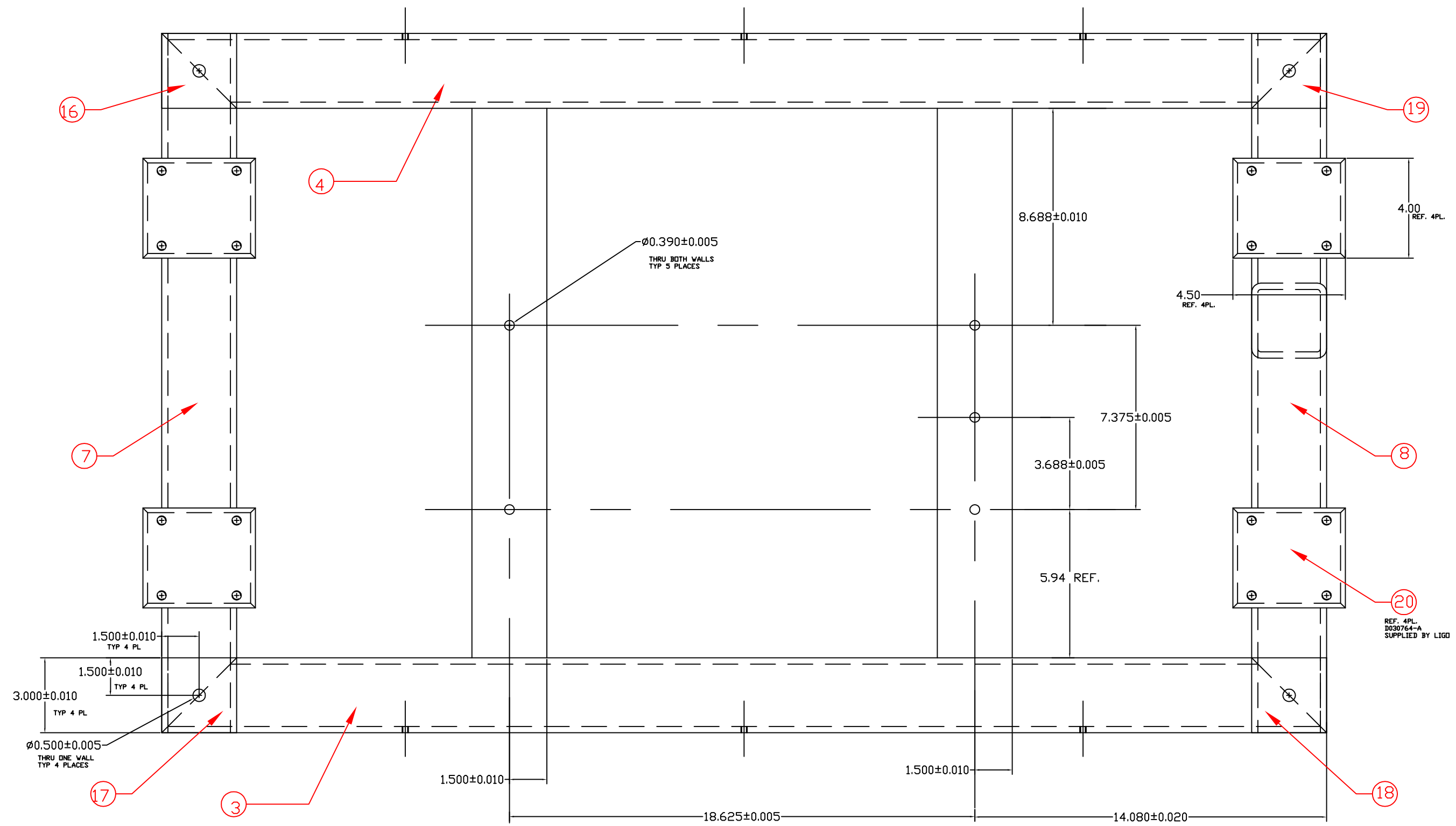
VIEW A-A

VALVE SIDE

ITEM NO.	REQ. QUANTITY	SPARE	TOT.	PART NUMBER	DESCRIPTION	SUPPLIER
PARTS LIST						
UNLESS OTHERWISE SPECIFIED:				DATE	NAME	
DIMENSIONS ARE IN INCHES				DRAWN	12/3/03	KENM
TOLERANCES:				CHECKED		
XX ± .005						
XXX ± .01						
ANGULAR ± 3 DEG						
MATERIAL:				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
STEEL TUBE				SYSTEM LLO		
3" SQ. - .25" WALL				SUB-SYSTEM HEPI		
FINISH:				NEXT ASSY N/A		
LIGO				PART NAME LLO PUMP STATION FRAME		
BLUE PAINT				SIZE	DWG. NO.	REV
				C	D030783-A	A
				SCALE:		SHEET 4 OF 5

NOTES: (UNLESS OTHERWISE SPECIFIED)

REV.	DATE	DCN #	DRAWING TREE #
A	4/21/04	E040214-00-D	



BOTTOM SIDE

ITEM NO.	REQ. QUANTITY	SPARE	TOT. QUANTITY	PART NUMBER	DESCRIPTION	SUPPLIER
PARTS LIST						
UNLESS OTHERWISE SPECIFIED:				DATE	NAME	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DIMENSIONS ARE IN INCHES				DRAWN	4/21/04	
TOLERANCES:				CHECKED		
XX ± .005						SYSTEM LLO
XXX ± .01						SUB-SYSTEM HEPI
ANGULAR± 3 DEG						NEXT ASSY N/A
MATERIAL						PART NAME LLO PUMP STATION FRAME
STEEL TUBE				COMMENTS:		SIZE DWG. NO.
3*SQ.-25* WALL						C D030783-A
FINISH						SCALE:
LIGO						REV
BLUE PAINT						A