

— 100 GPM CHILLER SUPPLY  
— 100 GPM CHILLER RETURN  
— CHILLED WATER SUPPLY  
— CHILLED WATER RETURN  
TEMP THERMOCOUPLE  
PRES PRESSURE TRANSDUCER  
FLOW FLOW METER  
 MANUAL VALVE  
— FLEXIBLE HOSE  
 NOTE: ALL MAGNET HOSES TO BE NON-CONDUCTIVE  
— RIGID TUBING

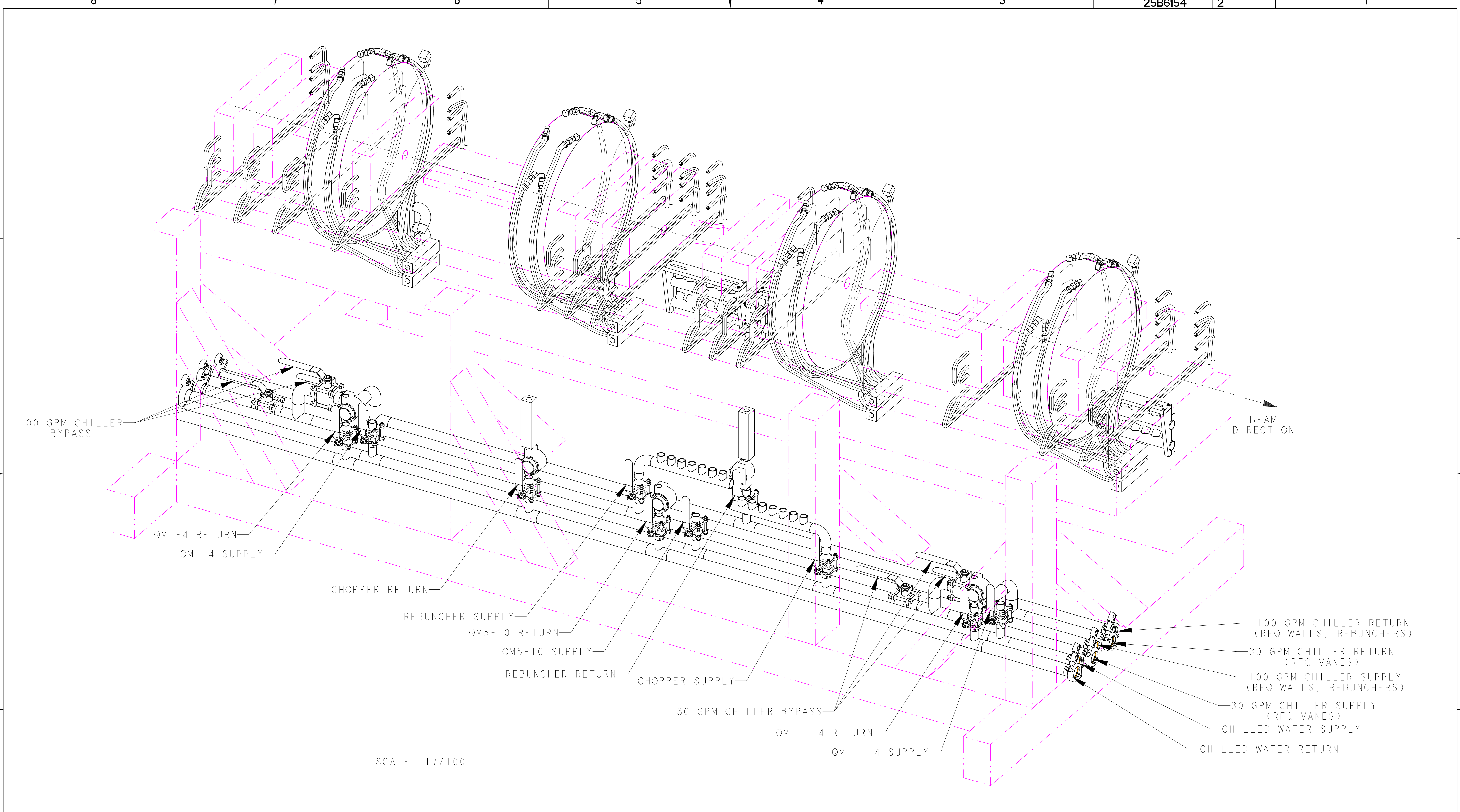
REV	DWG	CHK	ZONE	DATE	INITIAL RELEASE	CHANGES
A	DPO			01/28/02		

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	-
PROJECTION:		ACCT. NO.	NO. REQD.	DATE	-
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64		DATE	-
	X.XX ± 0.03	Angles ± 1.0°		RECD.	-
	X.XXX ± 0.010	FINISH 125/			
DO NOT SCALE PRINT					
THREADS ARE CLASS 2					
CHAMFER ENDS OF ALL SCREW THREADS 30°					
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS					
BREAK EDGES .016 MAX. ON MACHINED WORK					
REMOVE BURRS, WELD SPATTER & LOOSE SCALE					
IN ACCORDANCE WITH ASME Y14.5M & B46.1					
DWG BY	D. OSHATZ	DATE	22-May-01		
CHK BY	-	DATE			
APR BY	D. OSHATZ	DATE			

**ERNEST ORLANDO LAWRENCE**  
**BERKELEY NATIONAL LABORATORY**  
 UNIVERSITY OF CALIFORNIA - BERKELEY

SNS - FES MBT  
 MECHANICAL SUBSYSTEMS  
 WATER SYSTEM ASSEMBLY

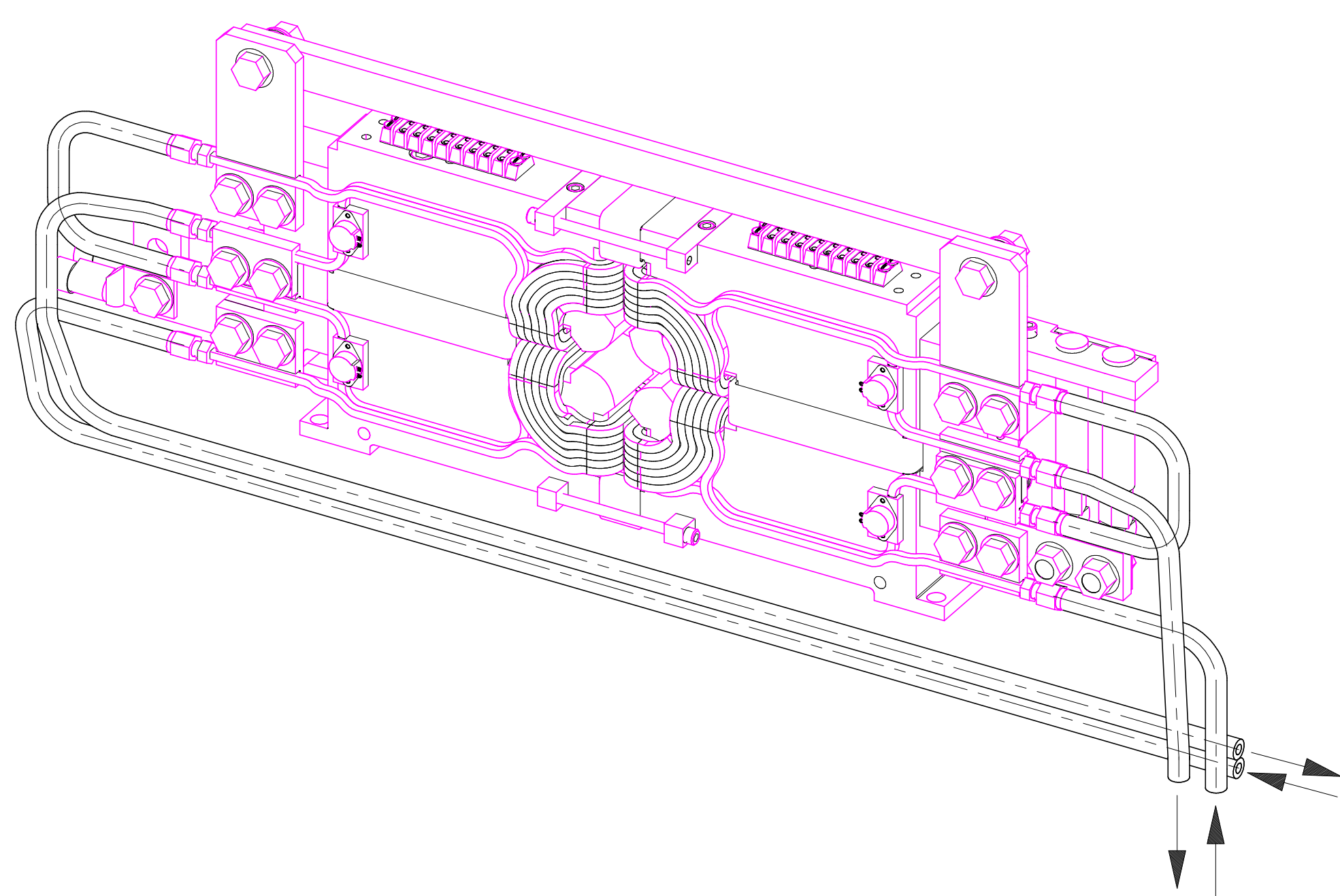
MICROFILMED: ASSEM  
 SHOWN ON: 25B603  
 SCALE: 13/100  
**SHEET 1 OF 3**  
 PATENT CLEAR: DESIGN ACCT. NO. FE3313  
 DWG. NO. 25B6154  
 SIZE A



UNLESS OTHERWISE SPECIFIED				SHOP ORDERS		SER. NO. -
PROJECTION:				ACCT. NO.	NO. REQD.	DATE
TOLERANCES				SURFACE TREATMENT		
X.X ± 0.1		FRAC. ± 1/64		IDENT. TAG		
X.XX ± 0.03		Angles ± 1.0°		METHOD. TAG		
X.XXX ± 0.010		FINISH 125/		PROJECT NUMBER		
DO NOT SCALE PRINT				PROJECT NAME		
THREADS ARE CLASS 2				N/A		
CHAMFER ENDS OF ALL SCREW TRENDS 30°				DWG. BY D. OSHATZ		
CUT ROUNDS, 1.5 THREAD RELIEF ON MACHINED THREADS				DATE 18-May-01		
BREAK EDGES .016 MAX. ON MACHINED WORK				CHK. BY -		
REMOVE BURRS, WELD SPATTER & LOOSE SCALE				DATE		
IN ACCORDANCE WITH ASME Y14.5M & B46.1				APR. BY D. OSHATZ		
REV. DWG. CHK. ZONE DATE			CHANGES			

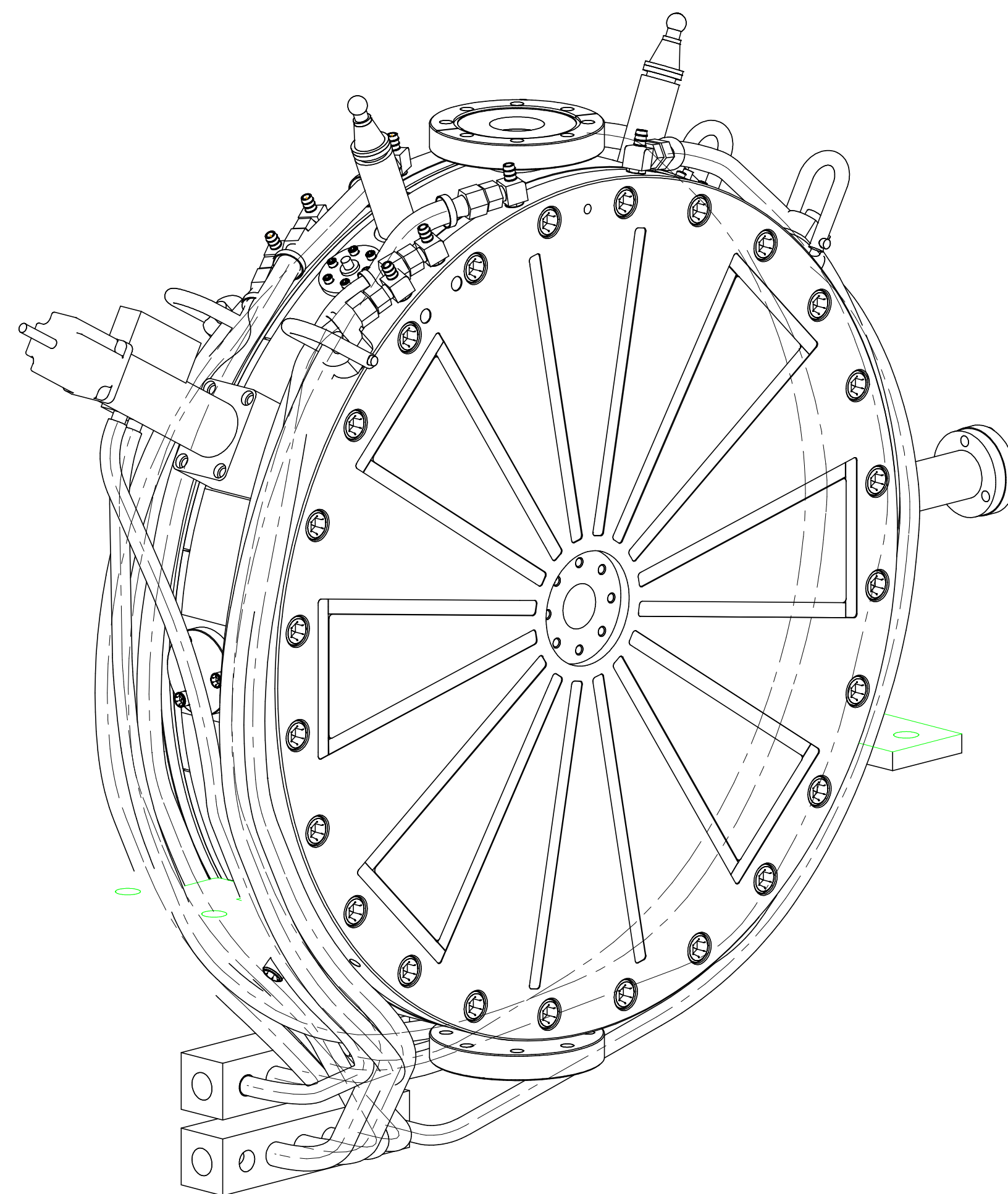
  

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY				SNS - FES MBT MECHANICAL SUBSYSTEMS WATER SYSTEM ASSEMBLY	
MICROFILMED:		ASSEM		DATE 18-May-01	
SHOWN ON		25B603		SCALE: 1/10	
PATENT CLEAR:		FE3313		SHEET 2 OF 3	
DESIGN ACCT. NO.		-		DWG. NO. 25B6154	
CATEGORY CODE		-		SIZE A	

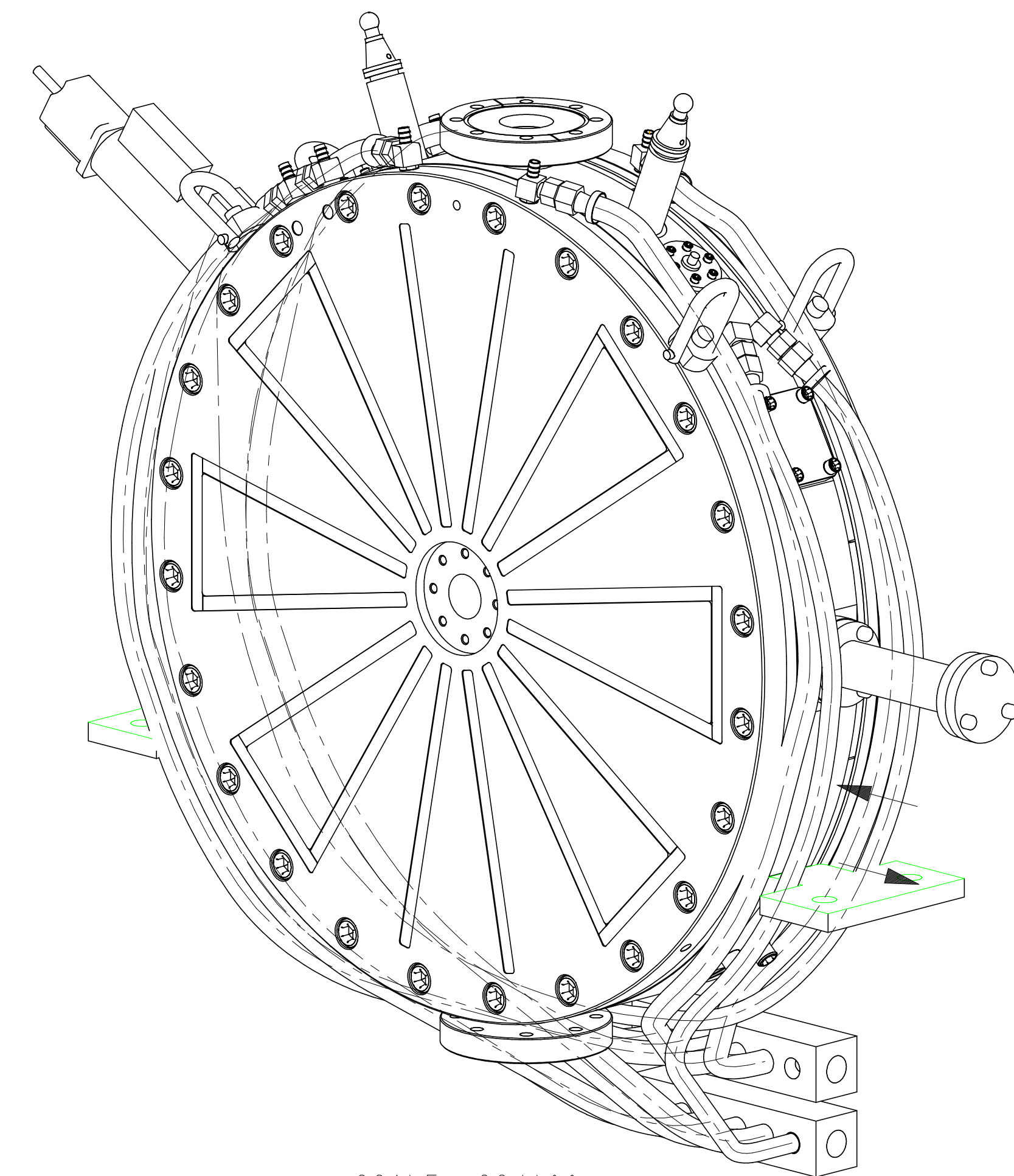


QUADRUPOLE MAGNET PLUMBING

SCALE 33/100



SCALE 33/100



SCALE 33/100

REBUNCHER CAVITY PLUMBING

		UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO. -	
		PROJECTION:		ACCT. NO. REQD.		DATE ISSD	
		X.X ± 0.1    FRAC. ± 1/64		SURFACE TREATMT		DATE RECD	
		X.XX ± 0.03    Angles ± 1.0°		IDENT. METHOD. TAG			
		X.XXX ± 0.010    FINISH 125/		PROJECT NUMBER na			
		DO NOT SCALE PRINT		PROJECT NAME N/A			
		THREADS ARE CLASS 2		DWG. BY D. OSHATZ		DATE 04-04-01	
		CHAMFER ENDS OF ALL SCREW THREADS 30°		CHK. BY -		DATE	
		CUT ROUNDS, 1.5 THREAD RELIEF ON MACHINED THREADS		APR. BY D. OSHATZ		DATE	
		BREAK EDGES .016 MAX. ON MACHINED WORK					
		REMOVE BURRS, WELD SPLATTER & LOOSE SCALE					
		IN ACCORDANCE WITH ASME Y14.5M & B46.1					
REV	DWG	CHK	ZONE	DATE	CHANGES		

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY			
SNS - FES MBT MECHANICAL SUBSYSTEMS WATER SYSTEM ASSEMBLY		DO NOT SCALE PRINTS	
MICROFILMED:	DWG. TYPE ASSEM	SHOWN ON 25B603	SCALE: 1/10
PATENT CLEAR:	DESIGN ACCT. NO. -	CATEGORY CODE FE3313	<b>SHEET 3 OF 3</b>
DWG. NO. 25B6154		SIZE A	REV. 3