

SEE SEPERATE BILL OF MATERIALS

				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULARMACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN REMOVE ALL BURRS				CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				DO NOT SCALE THIS DRAWING				DRAWN R. Bark				ASSEMBLY, VCMS RACK LA LVEA Y ARM	
				USED ON:				GROUP CBS				SCALE	
				NEXT ASS'Y:				CHECKED				SIZE DWG. NO. B D961349-A-C	
DWG. NO.				DESCRIPTION				REV				REV.	
REFERENCE DRAWINGS				DESCRIPTION				SHEETS EFFECTED				VER.	
6				5				3				1	
								DATE				1 of 10	
								DCC				01	

6

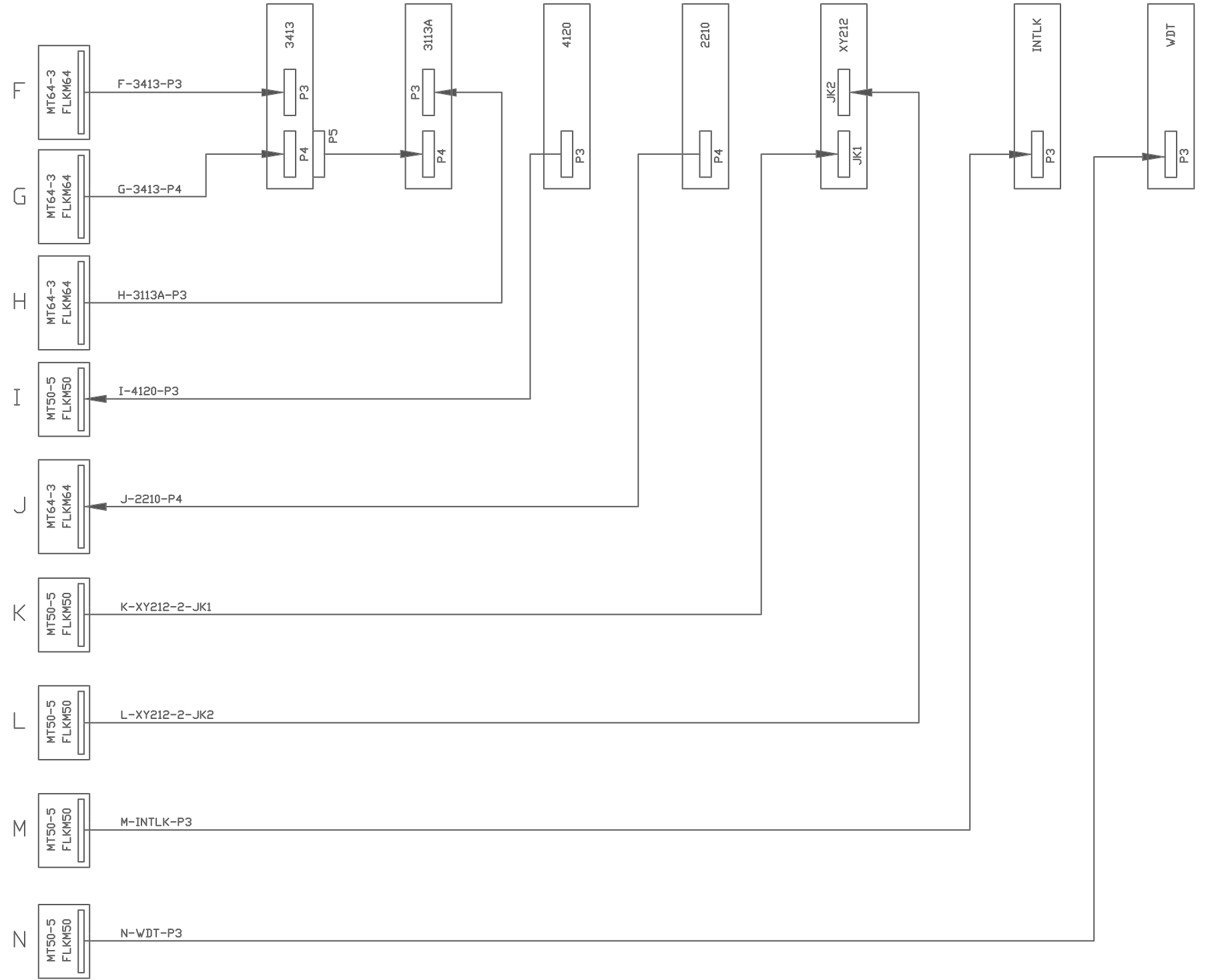
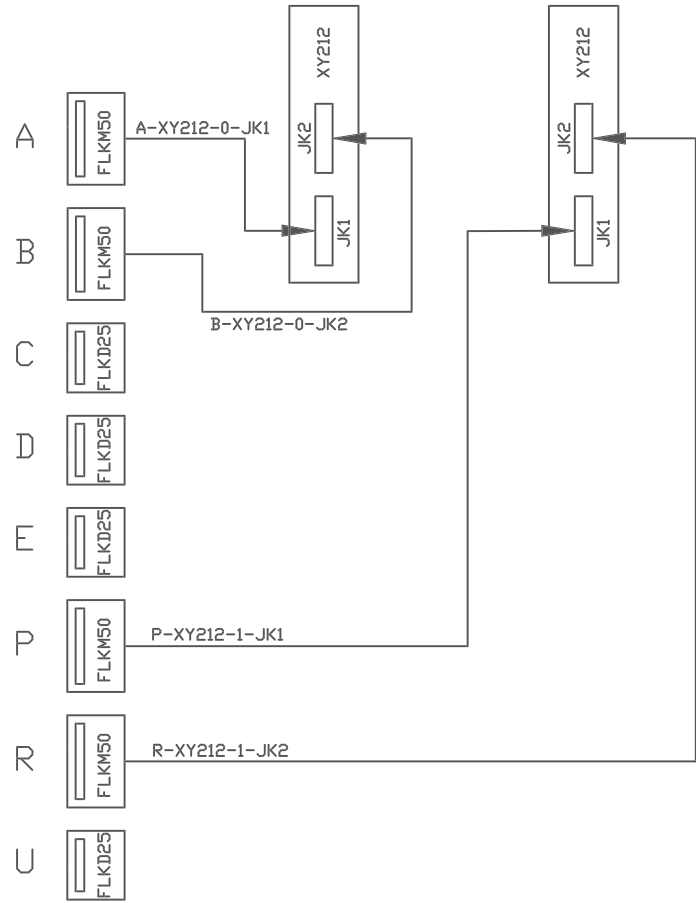
5

4

3

2

1



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				TOLERANCES: FRACTIONAL * ANGULAR * BEND * TWO PLACE DECIMAL * THREE PLACE DECIMAL * FINISHED SURFACE RNS BREAK CORNERS IN * REMOVE ALL BURRS				DRAWN R. Bork	GROUP CDS	SIGNATURE	DATE 11-11-97
				DO NOT SCALE THIS DRAWING						VME INTERCONNECT DIAGRAM LA LVEA Y ARM	
				USED ON:		REV		DESCRIPTION		SCALE	
				NEXT ASSY:				SHEETS EFFECTED		DATE	
										SIZE DWG. NO. B D961349-A-C	
										REV. A	
										3 of 10	
										VER. 01	

6

5

4

3

2

1

REFERENCE DRAWINGS

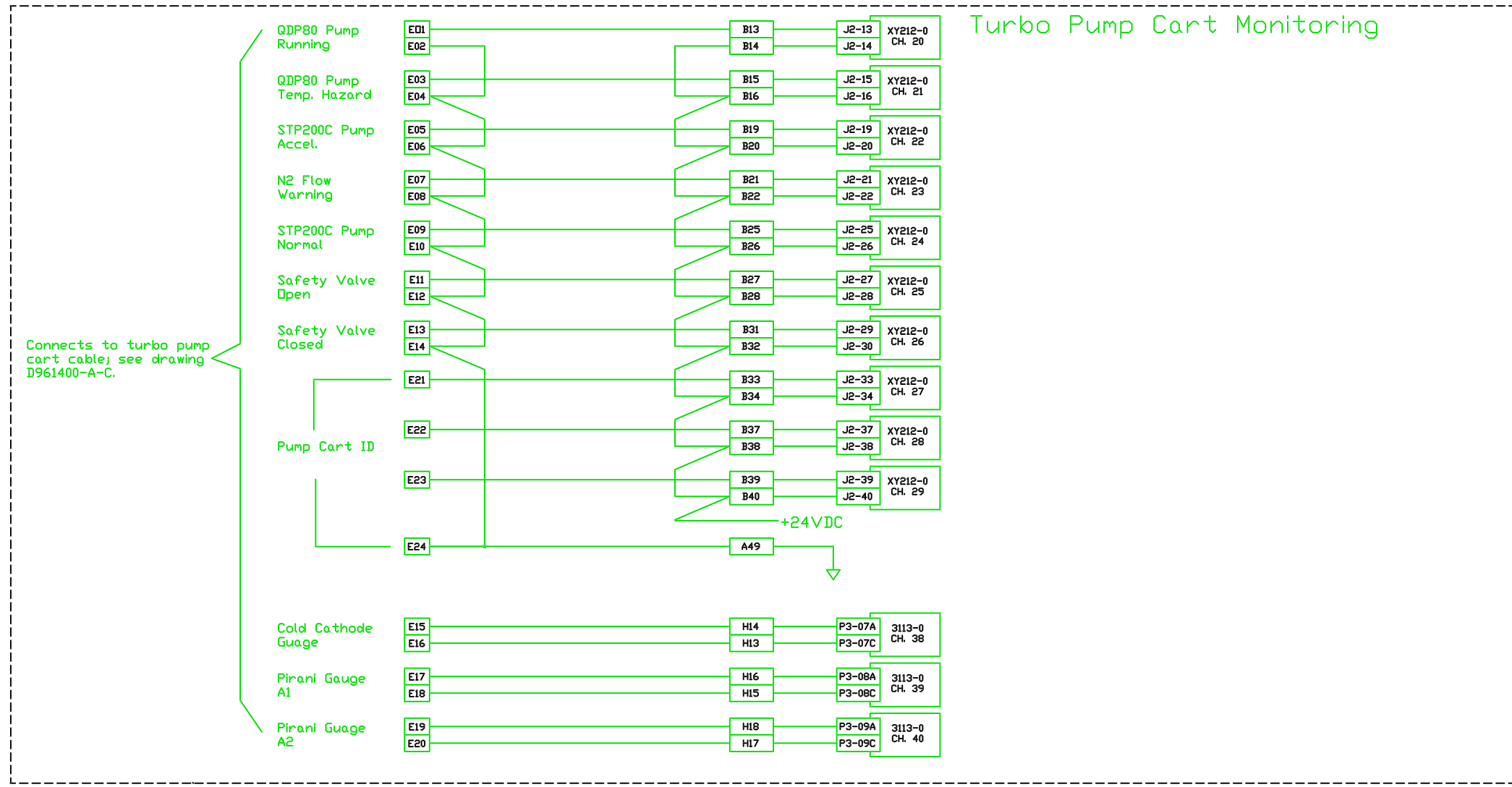
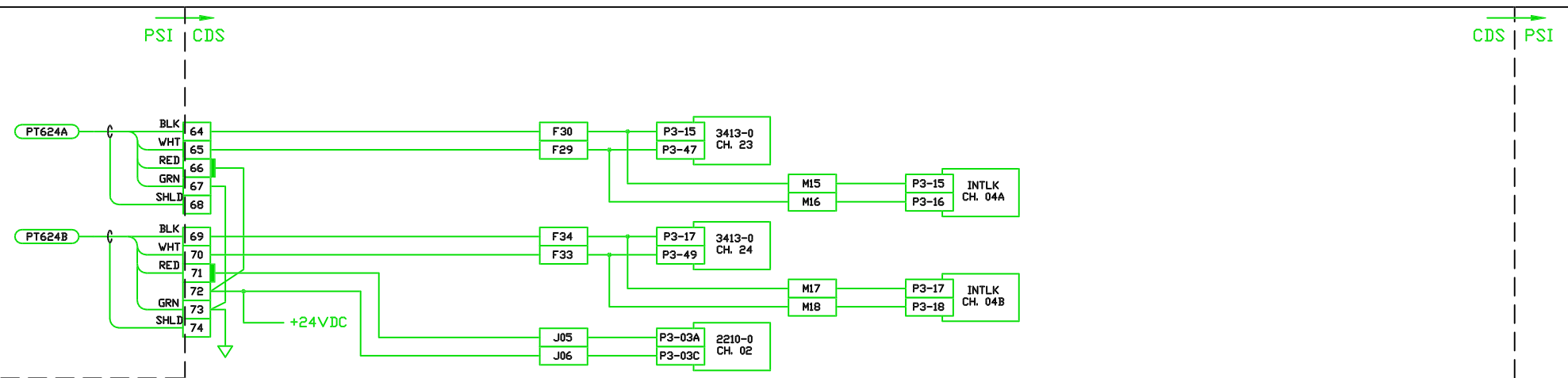
ISSUE DESCRIPTION

DCC

SHEET

3 of 10

VER. 01



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE R/S BREAK CORNERS IN OUT REMOVE ALL BURRS								CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY															
								DRAWN R. Bork				GROUP CDS				SIGNATURE				DATE 11-11-97											
								A				Initial release per DCN E980122-00-C																			
				DO NOT SCALE THIS DRAWING				REV				DESCRIPTION				SHEETS EFFECTED				DATE											
DWG. NO.				DESCRIPTION				DWG. NO.				DESCRIPTION				SCALE				SIZE DWG. NO. B D961349-A-C				REV. A							
				REFERENCE DRAWINGS				NEXT ASSY:				ISSUE DESCRIPTION				DCC				CAB FILE				SHEET 5 of 10				VER. 01			

6

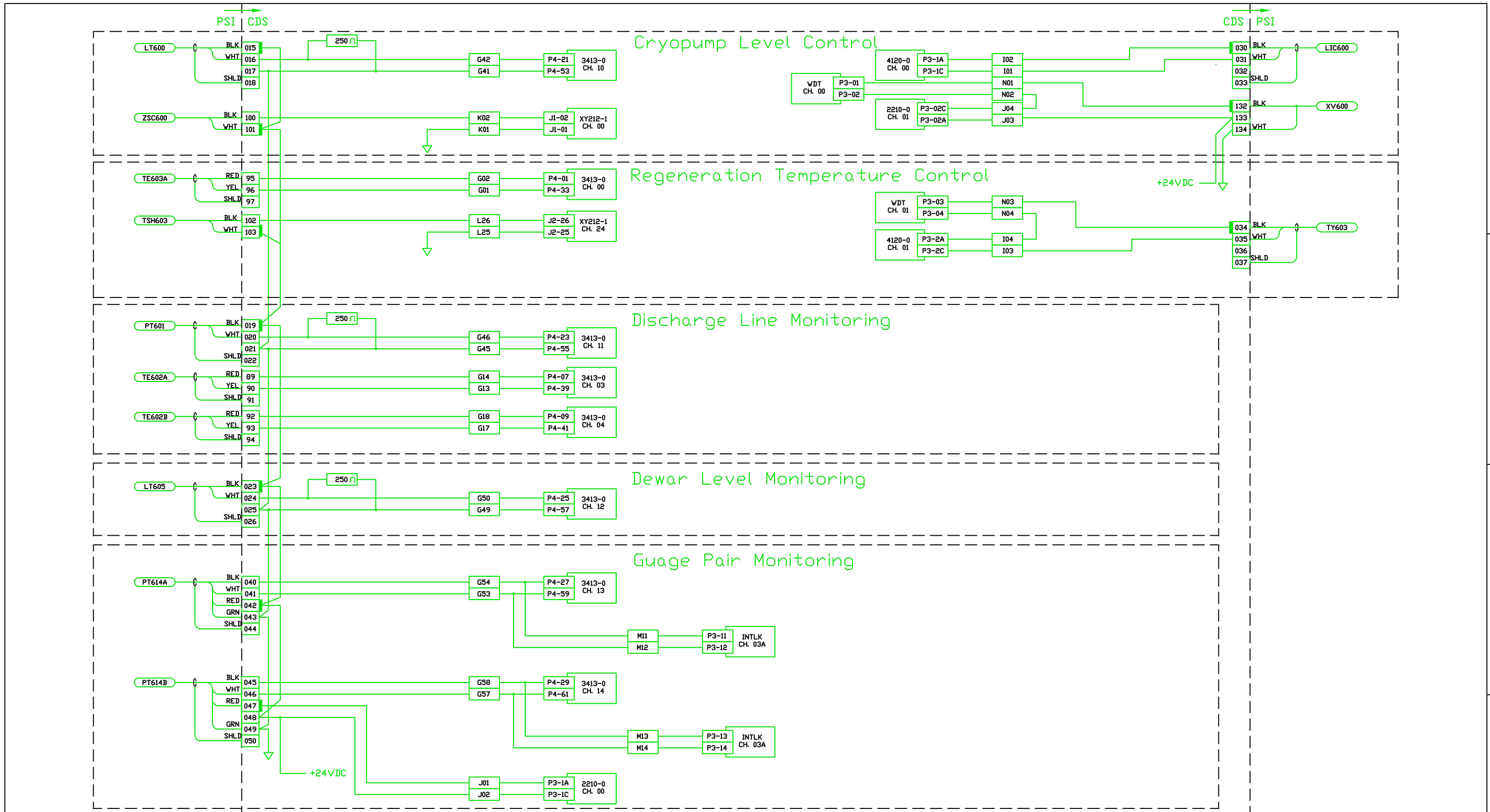
5

4

3

2

1

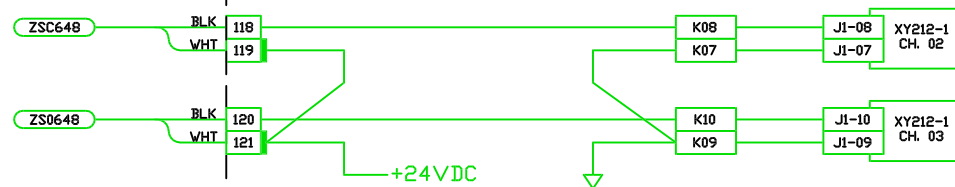


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN REMOVE ALL BURRS		DO NOT SCALE THIS DRAWING		REV	DESCRIPTION	SHEETS EFFECTED	DATE	CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY VCMS ELECTRICAL DIAGRAM LA LVEA Y ARM LCP1 (1 of 2)	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	USED ON:	ISSUE DESCRIPTION	DCC		DRAWN R. Bork	GROUP CDS		SIGNATURE
6	REFERENCE DRAWINGS	5		NEXT ASSY:				CHECKED			
SCALE: - SIZE: DWG. NO. B D961349-A-C REV. A SHEET 6 of 10 VER. 01											

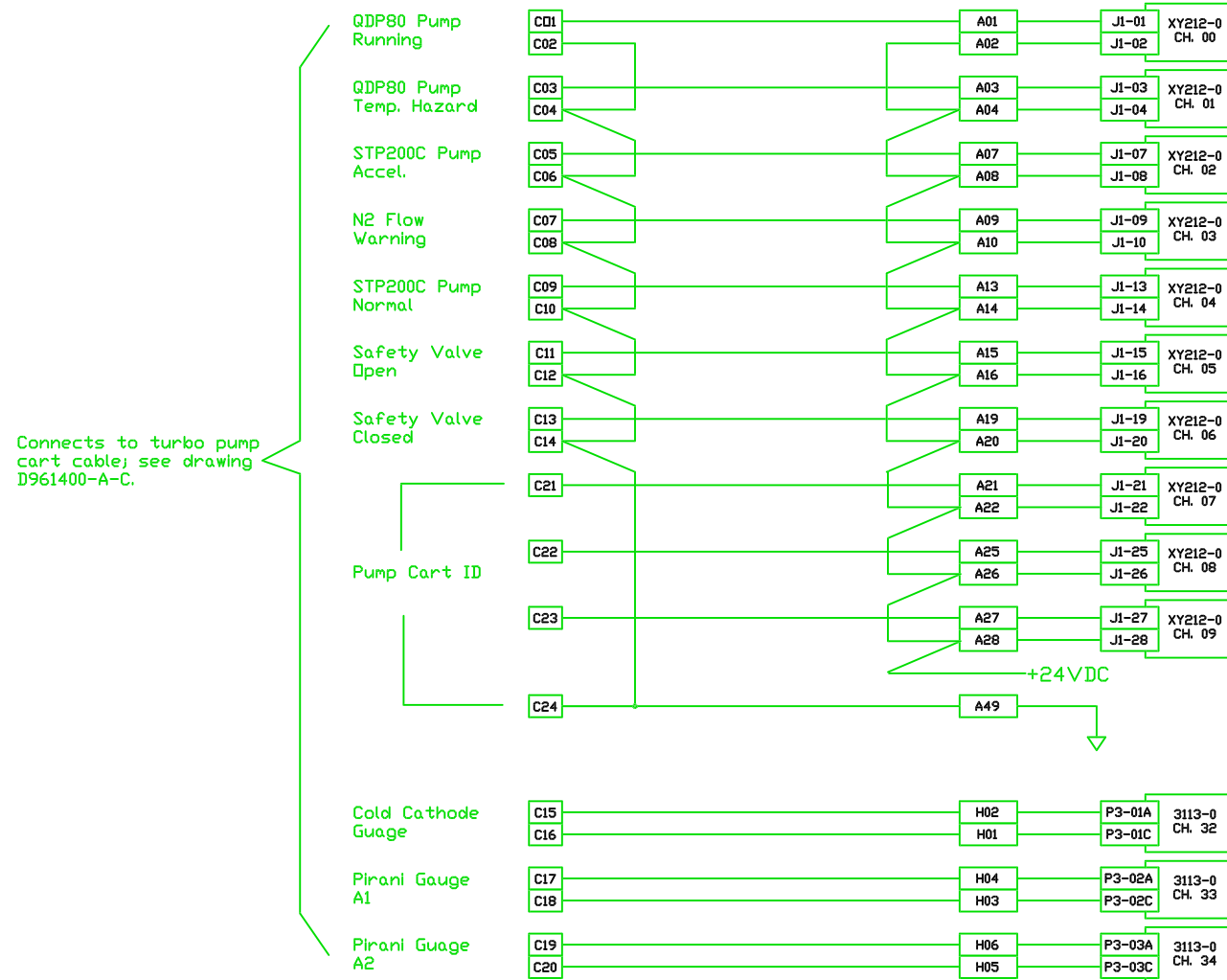
PSI → CDS

CDS → PSI

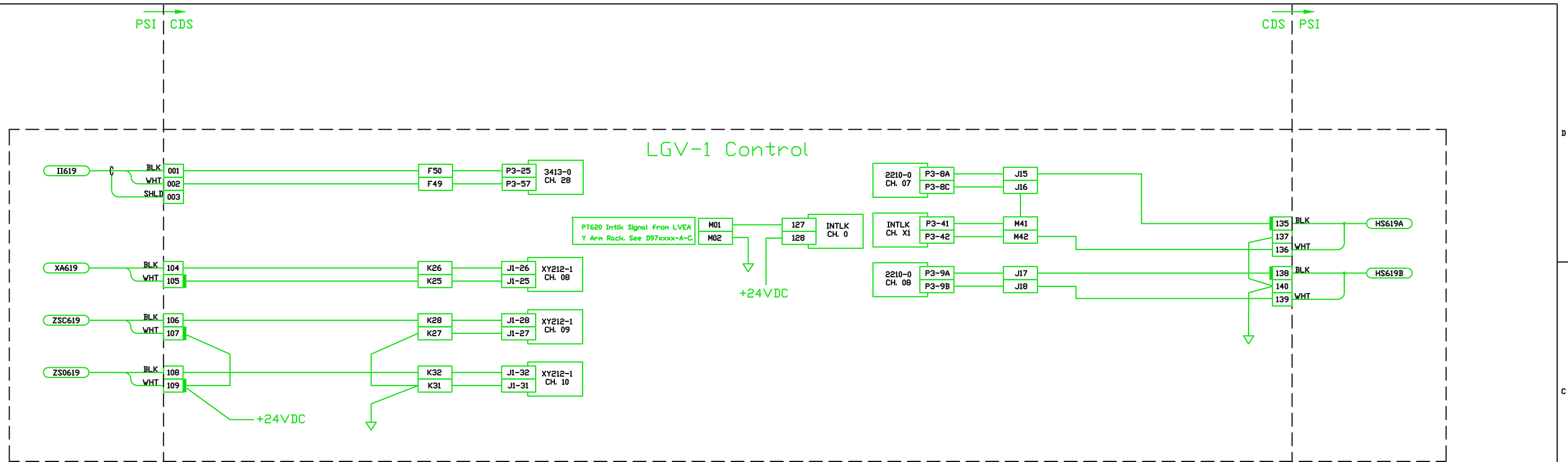
10" Pumpout Port Valve



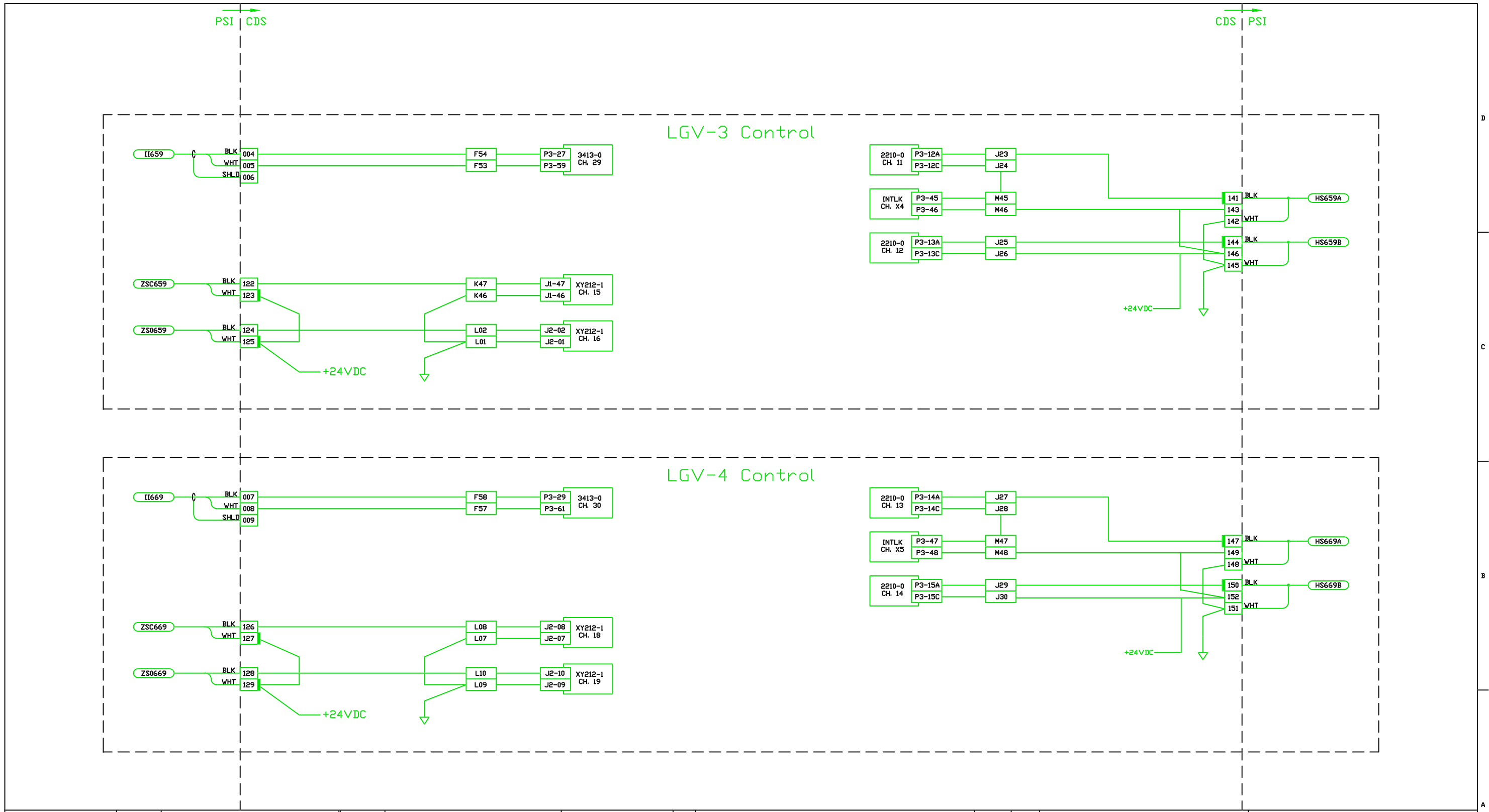
Turbo Pump Cart Monitoring



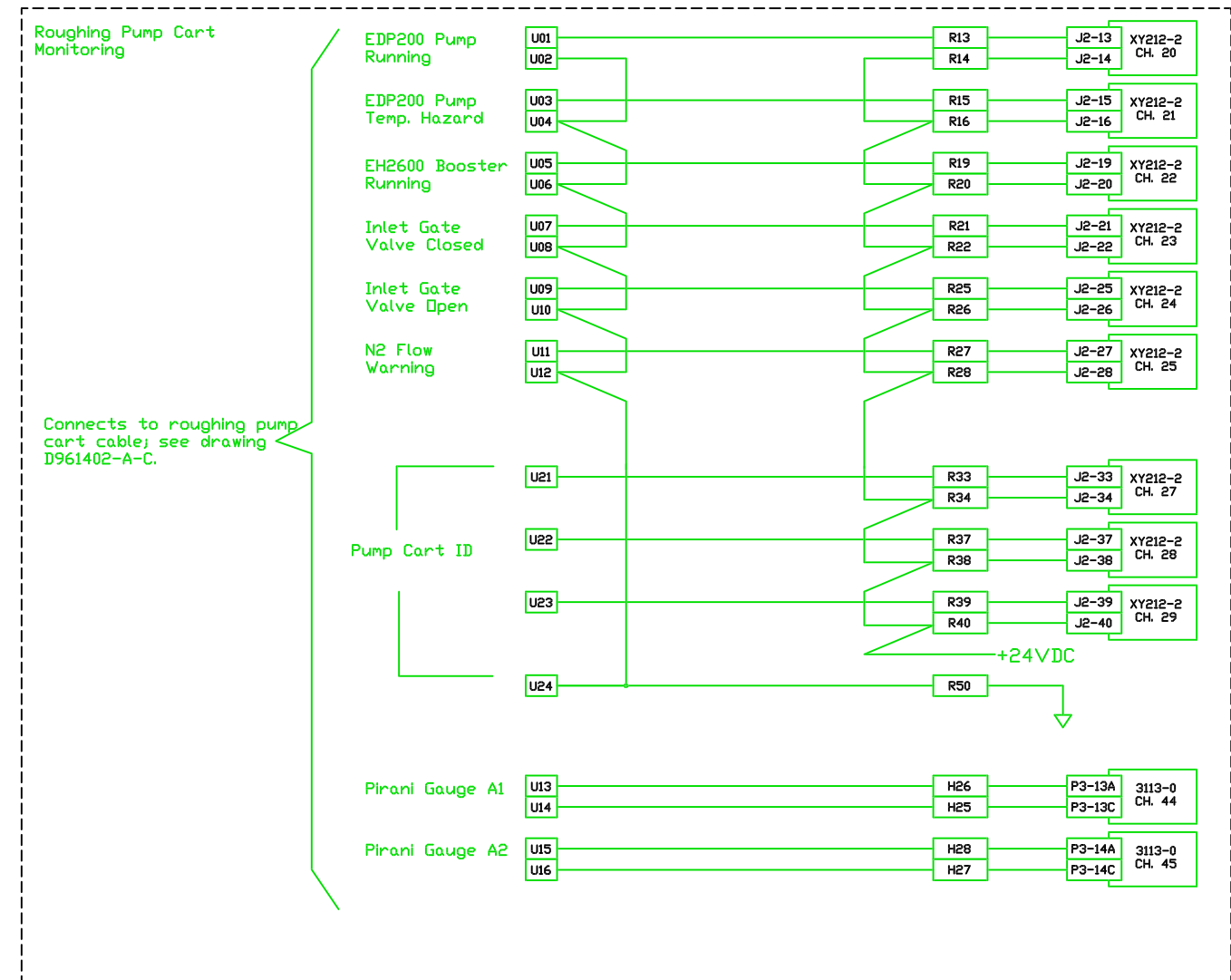
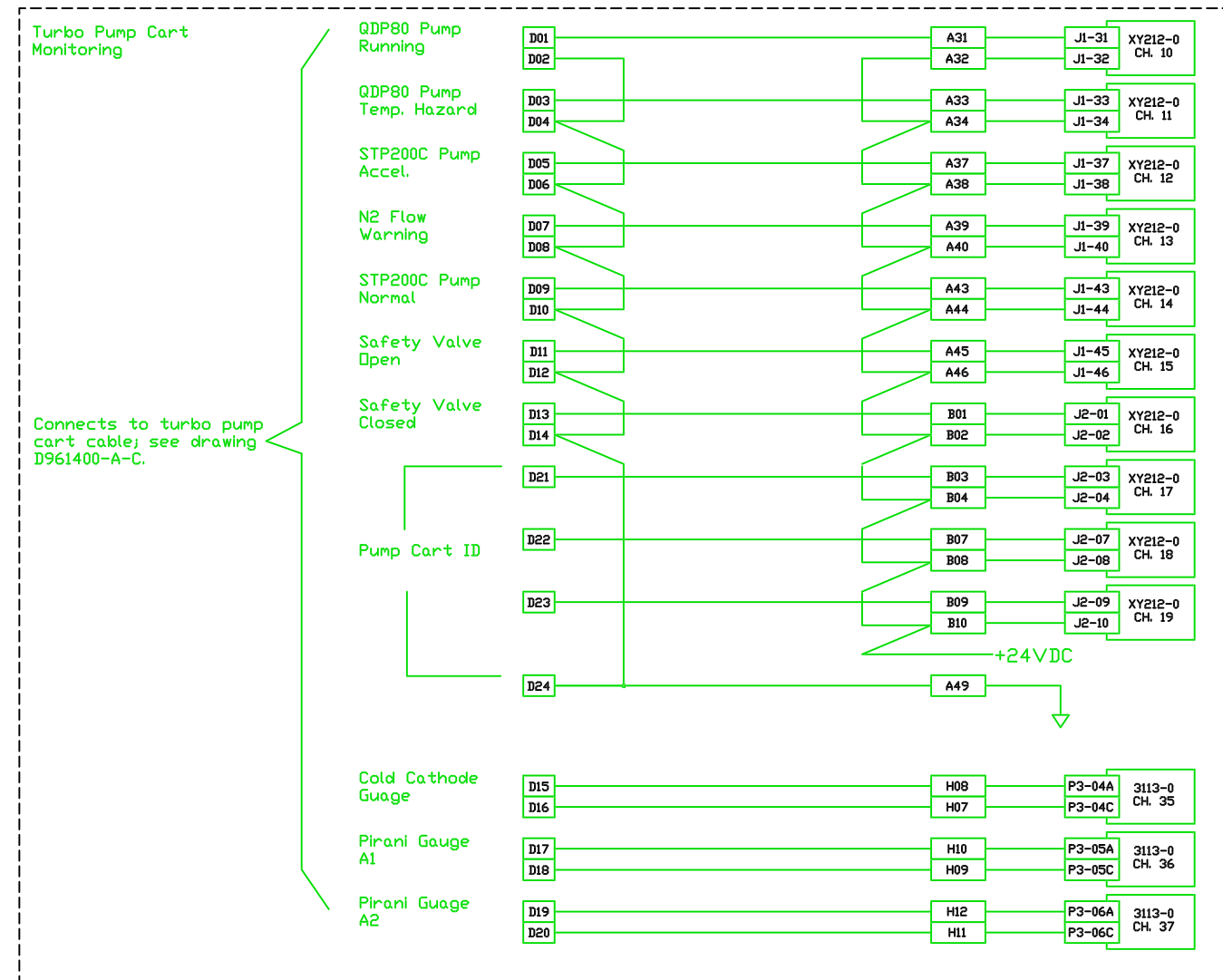
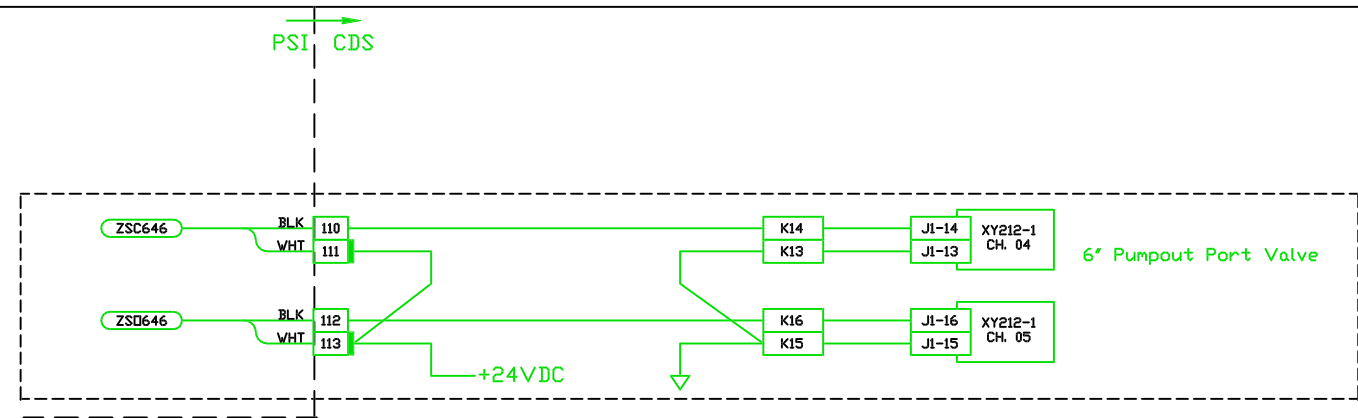
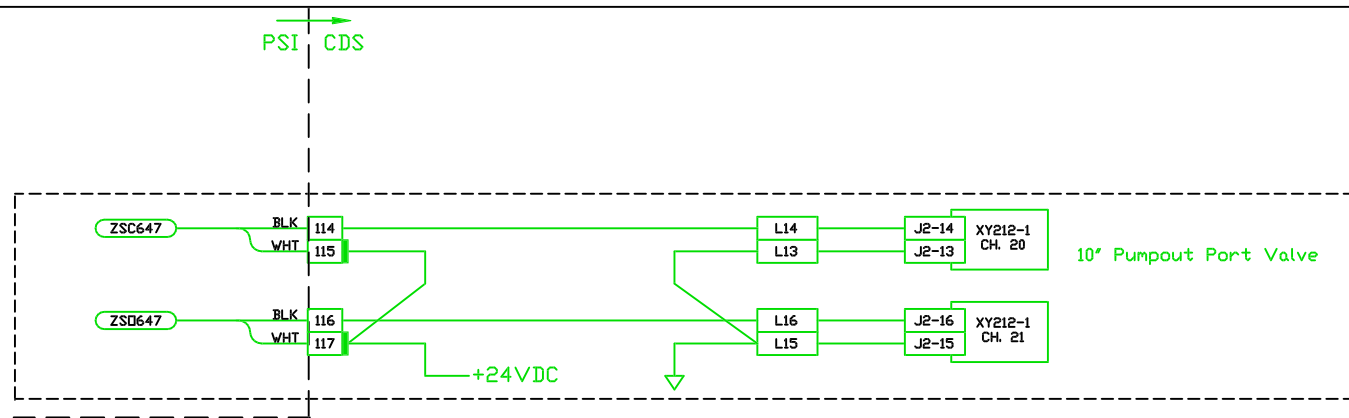
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN OUT REMOVE ALL BURRS				CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY							
				DO NOT SCALE THIS DRAWING				DRAWN R. Bork				GROUP CDS							
				REV				SIGNATURE				DATE 11-11-97							
				A Initial release per DCN E980122-00-C															
				SHEETS EFFECTED				DATE				SCALE							
DWG. NO.				DESCRIPTION				DWG. NO.				DESCRIPTION				SIZE DWG. NO. B D961349-A-C			
REFERENCE DRAWINGS				NEXT ASS'Y:				ISSUE DESCRIPTION				DCC							
6				5				4				3				2			
												SHEET 7 of 10				REV. A VER. 01			



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN OUT REMOVE ALL BURRS				CURRENT REVISION APPROVAL				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				DO NOT SCALE THIS DRAWING				DRAWN R. Bork				GROUP CDS	
				USED ON:				CHECKED				SIGNATURE	
				NEXT ASS'Y:				DATE 11-11-97				DATE	
DWG. NO.				DESCRIPTION				REV				DATE	
6				5				4				3	
REFERENCE DRAWINGS				ISSUE DESCRIPTION				SHEETS EFFECTED				DATE	
								DCC				SCALE	
												SIZE DWG. NO. B D961349-A-C	
												REV. A	
												SHEET 8 of 10	
												VER. 01	



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
				TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN OUT REMOVE ALL BURRS				DRAWN R. Bork	GROUP CDS	SIGNATURE	DATE 11-11-97
				DO NOT SCALE THIS DRAWING						VCMS ELECTRICAL DIAGRAM LA LVEA Y ARM GATE VALVE CONTROL	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	USED ON:	REV	DESCRIPTION	SHEETS EFFECTED	DATE			SCALE -
REFERENCE DRAWINGS				NEXT ASS'Y:		ISSUE DESCRIPTION			DCC		SIZE (DWG. NO.) B D961349-A-C
6		5		4		3			2		CAD FILE SHEET 9 of 10
											REV. A
											VER. 01



				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR/ARCS ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN OUT REMOVE ALL BURRS							
				DO NOT SCALE THIS DRAWING USED ON: NEXT ASSY:				REV. DESCRIPTION SHEETS EFFECTED DATE			
DWG. NO. DESCRIPTION DWG. NO. DESCRIPTION				DWG. NO. DESCRIPTION DWG. NO. DESCRIPTION				DWG. NO. DESCRIPTION DWG. NO. DESCRIPTION			
6				5				4			
								CURRENT REVISION APPROVAL			
								DRAWN R. Bork GROUP CDS SIGNATURE DATE 11-11-97			
								CHECKED			
				A Initial release per DCN E980122-00-C							
								LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
								VCMS ELECTRICAL DIAGRAM LA LVEA Y ARM MANIFOLD PUMP PORTS			
								SCALE - SIZE DWG. NO. B D961349-A-C REV. A			
								CAB FILE SHEET 10 of 10 VER. 01			