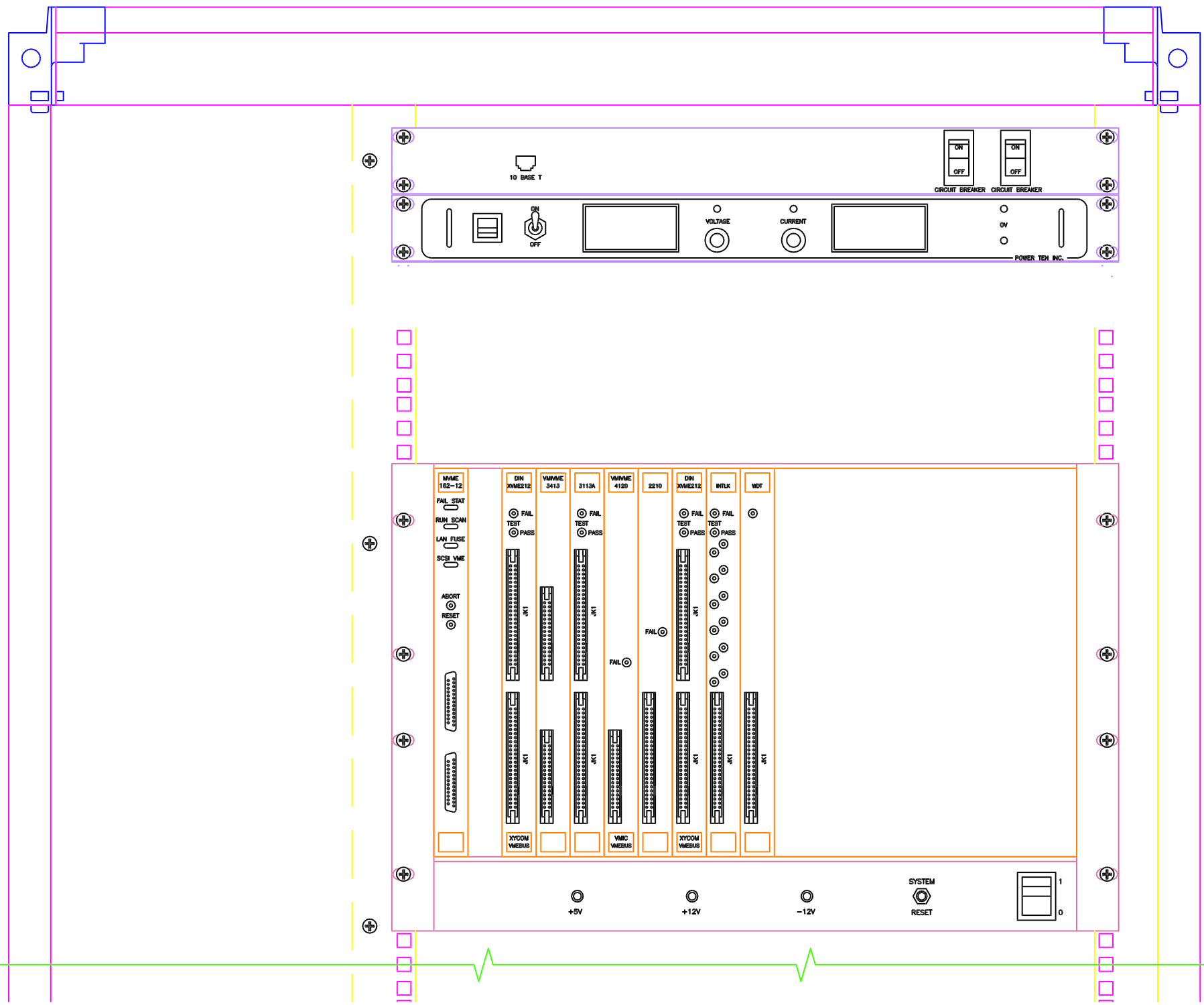


SEE SEPERATE BILL OF MATERIALS

				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS 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. Bark CHECKED				GROUP CDS SIGNATURE DATE 9-26-97	
				A Initial release per DCN E980122-00-C								ASSEMBLY, VCMS RACK LA RIGHT END STATION	
				REV DESCRIPTION SHEETS EFFECTED DATE								SCALE SIZE DWG. NO. B D961350-A-C REV. 01	
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DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION										
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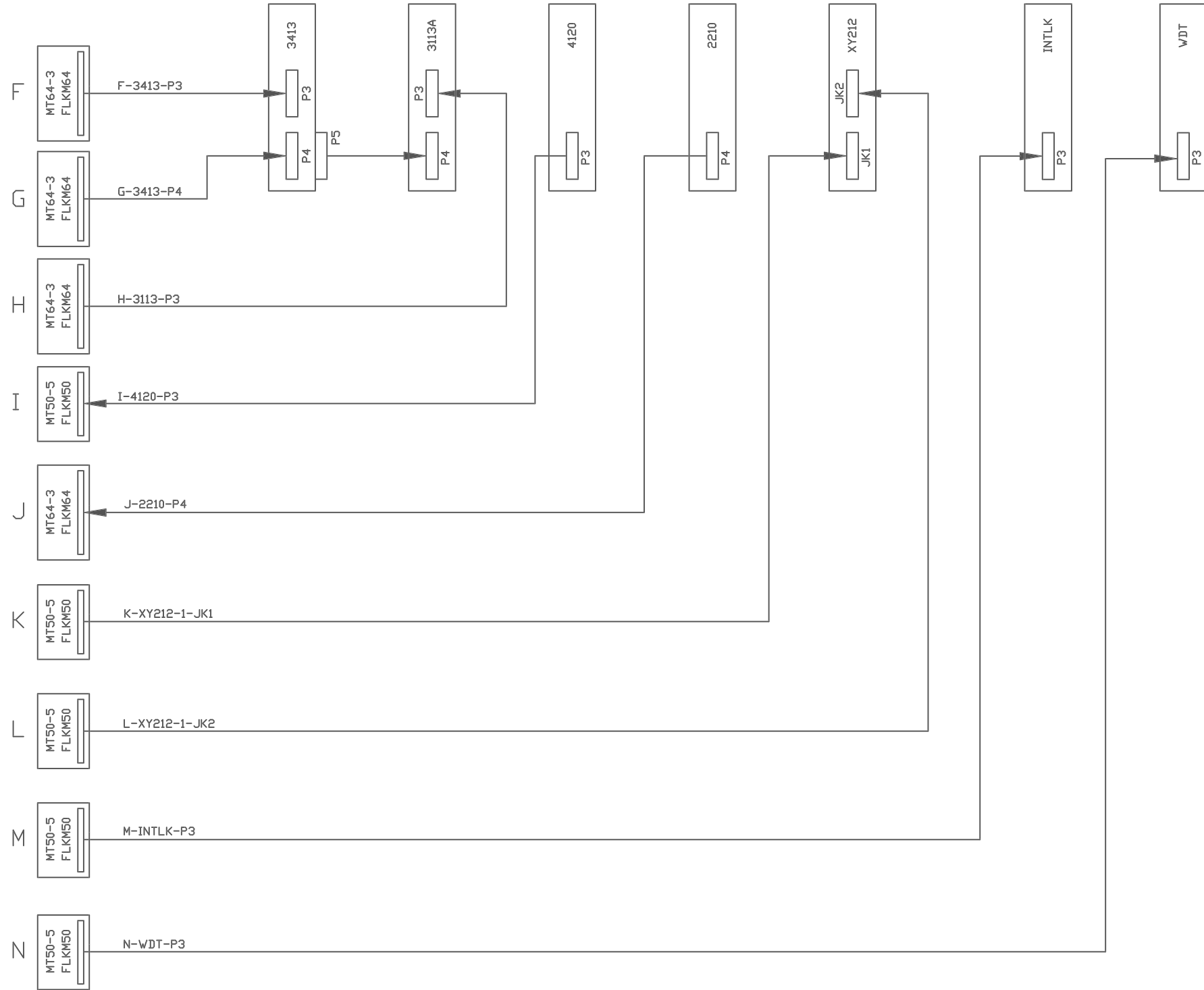
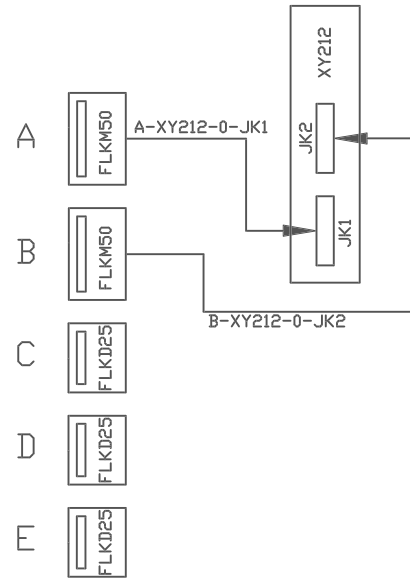
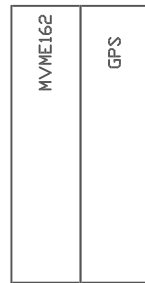
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01-09-97 - 10:17



VME MODULE TABLE	
SLOT #	MODULE NAME
SLOT 0	MVME 162-12
SLOT 2	XY212
SLOT 3	3413
SLOT 4	3113A
SLOT 5	4120
SLOT 6	2210
SLOT 7	XY212
SLOT 8	INTLK
SLOT 9	WDT

				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± BEND ± ANGULAR ± 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											
				A Initial release per DCN E980122-00-C				DRAWN R. Bork CHECKED				GROUP CDS		SIGNATURE		DATE 9-26-97							
DO NOT SCALE THIS DRAWING				REV				DESCRIPTION				SHEETS EFFECTED		DATE		SCALE		SIZE DWG. NO. B D961350-A-C		REV.			
NEXT ASS'Y:				ISSUE DESCRIPTION				DCC				CAD FILE		SHEET 2 OF 10		VER. 01							
DWG. NO.		DESCRIPTION		DWG. NO.		DESCRIPTION		DWG. NO.		DESCRIPTION		DWG. NO.		DESCRIPTION		DWG. NO.		DESCRIPTION		DWG. NO.		DESCRIPTION	
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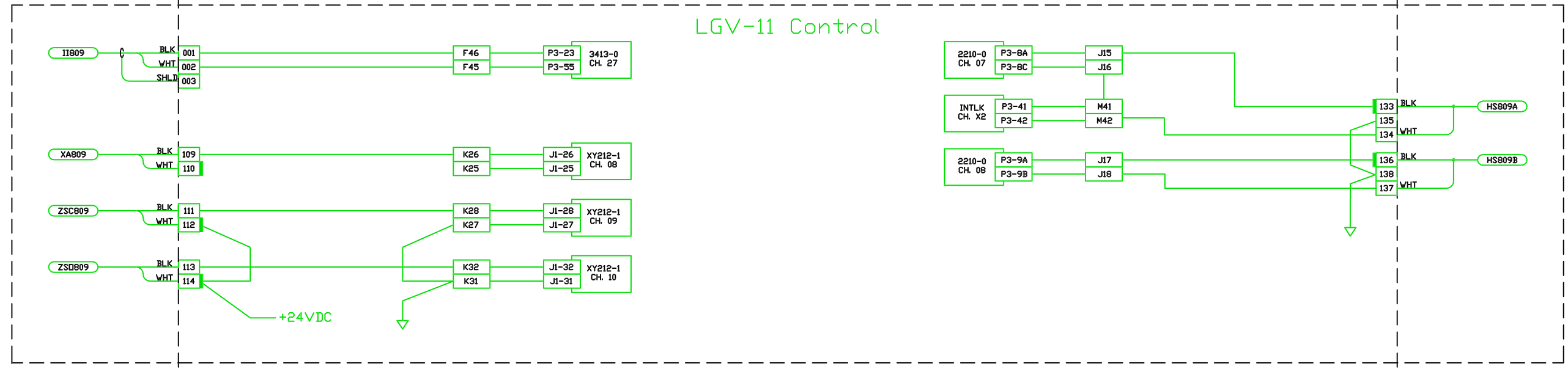
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				TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN OUT REMOVE ALL BURRS				DRAWN R. Bork				GROUP CDS			
				DO NOT SCALE THIS DRAWING				SIGNATURE				DATE 4/3/98			
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												SIZE DWG. NO. B D961350-A-C			
												REV. A			
												SHEET 3 OF 10			
												VER. 01			

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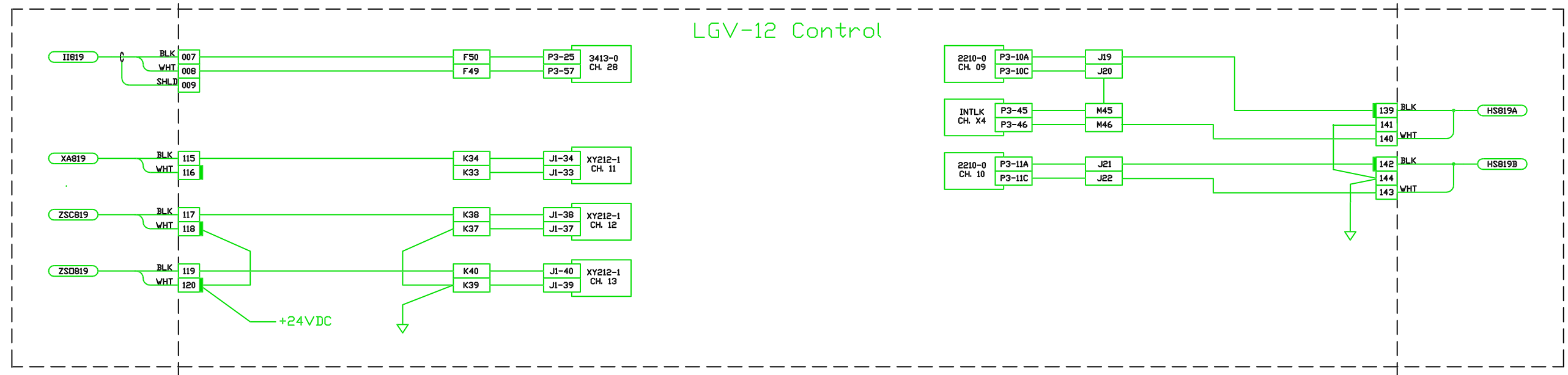
PSI CDS

CDS PSI

LGV-11 Control



LGV-12 Control



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR ±
THREE PLACE DECIMAL ±
FINISHED SURFACE RNS
BREAK CORNERS IN
REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING
USED ON:

NEXT ASS'Y:

CURRENT REVISION APPROVAL
DRAWN R.Bork
CHECKED
GROUP CDS
SIGNATURE
DATE 4/2/98

REV A Initial release per DCN E980122-00-C

REV DESCRIPTION SHEETS EFFECTED DATE

ISSUE DESCRIPTION

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VCMS ELECTRICAL DIAGRAM
LA RIGHT END STATION
GATE VALVE CONTROL

SCALE - SIZE DWG. NO. B D961350-A-C REV. A
SHEET 4 OF 10 VER. 01

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REFERENCE DRAWINGS

DWG. NO. DESCRIPTION DWG. NO. DESCRIPTION

USED ON:

REV DESCRIPTION SHEETS EFFECTED DATE

ISSUE DESCRIPTION

CURRENT REVISION APPROVAL

DRAWN R.Bork CHECKED GROUP CDS SIGNATURE DATE 4/2/98

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING USED ON: NEXT ASS'Y:

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DO NOT SCALE THIS DRAWING USED ON: NEXT ASS'Y:

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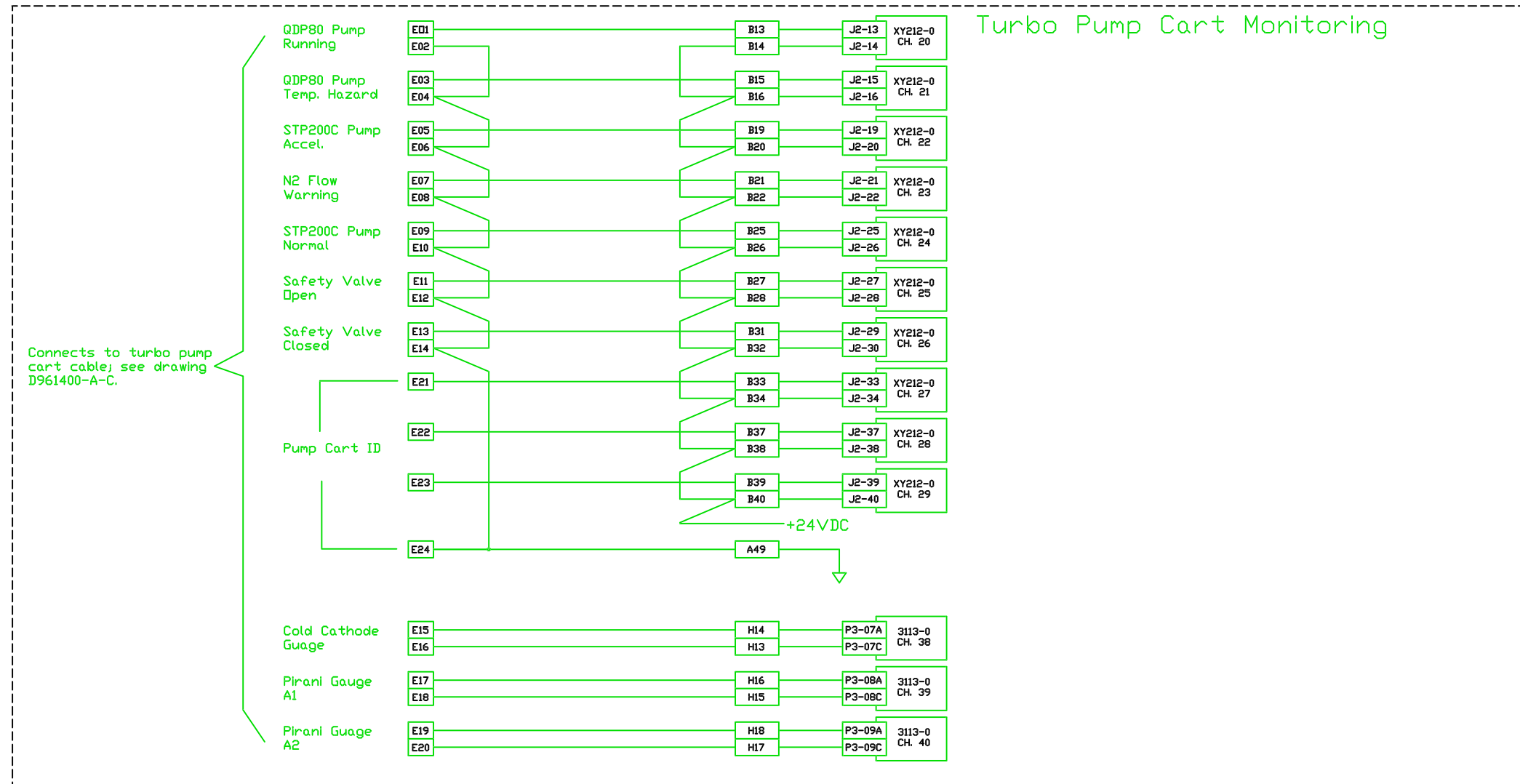
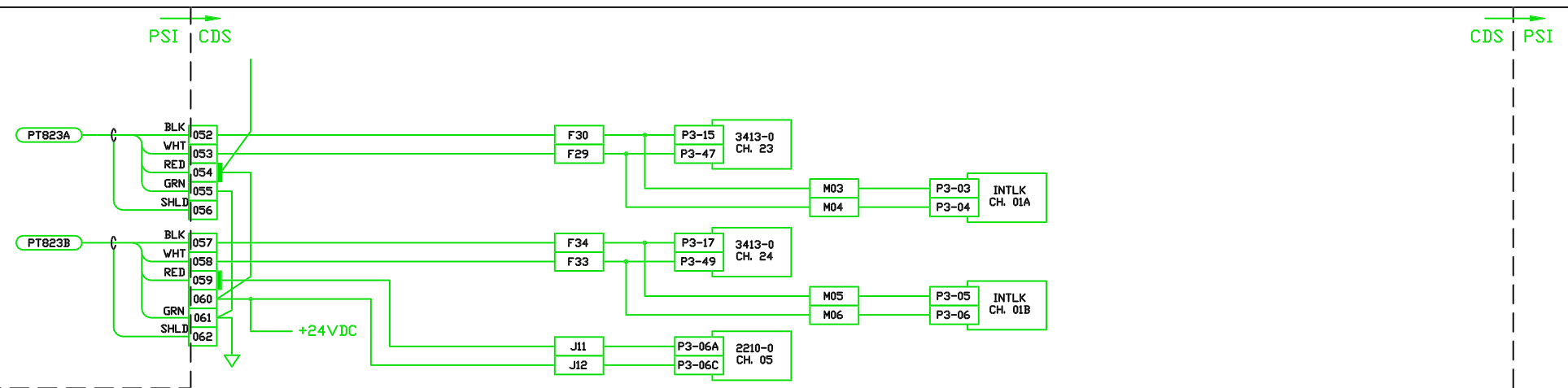
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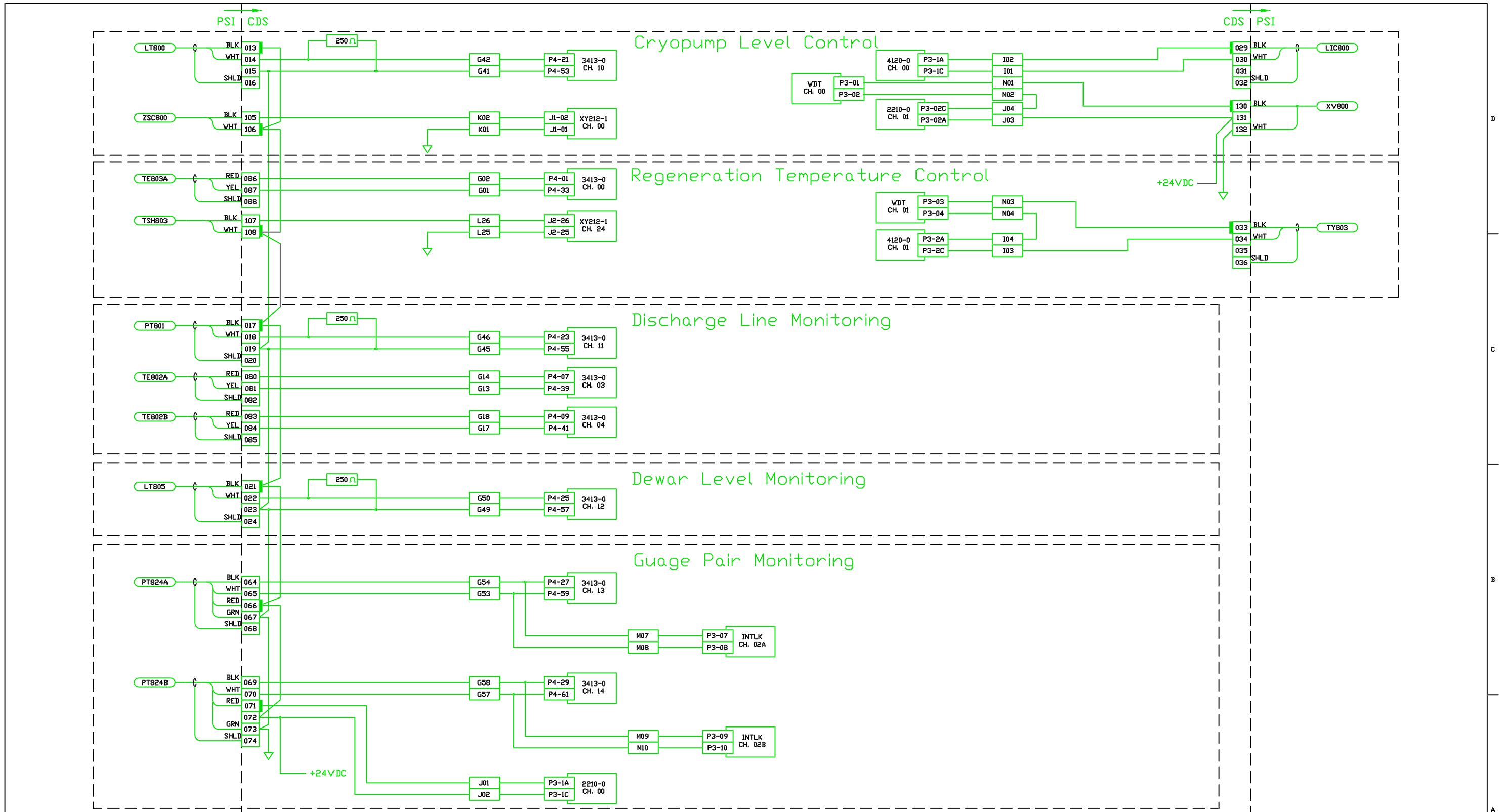
CURRENT REVISION APPROVAL

DRAWN R.Bork CHECKED GROUP CDS SIGNATURE DATE 4/2/98

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± THREE PLACE DECIMAL ± FINISHED SURFACE RNS BREAK CORNERS IN REMOVE ALL BURRS



				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		SIGNATURE DATE 4/3/98	
				REV				A Initial release per DCN E980122-00-C				VCMS ELECTRICAL DIAGRAM LA RIGHT END STATION BEAM TUBE			
DWG. NO.				DESCRIPTION				SHEETS EFFECTED				SCALE			
REFERENCE DRAWINGS				NEXT ASSY:				ISSUE DESCRIPTION				SIZE DWG. NO. B D961350-A-C			
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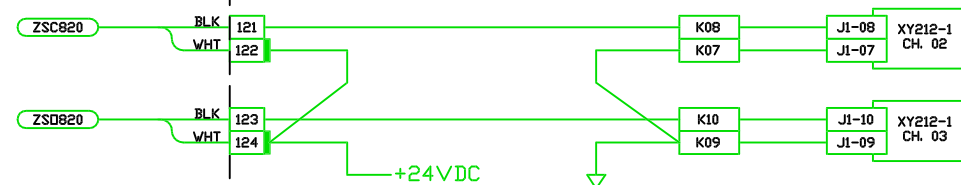


				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE R/S BREAK CORNERS IN REMOVE ALL BURRS						CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY											
				DO NOT SCALE THIS DRAWING		REV		DESCRIPTION		SHEETS EFFECTED		DATE		DRAWN R. Bork		GROUP CDS		SIGNATURE		DATE 4/3/98		VCMS ELECTRICAL DIAGRAM LA RIGHT END STATION LCP4	
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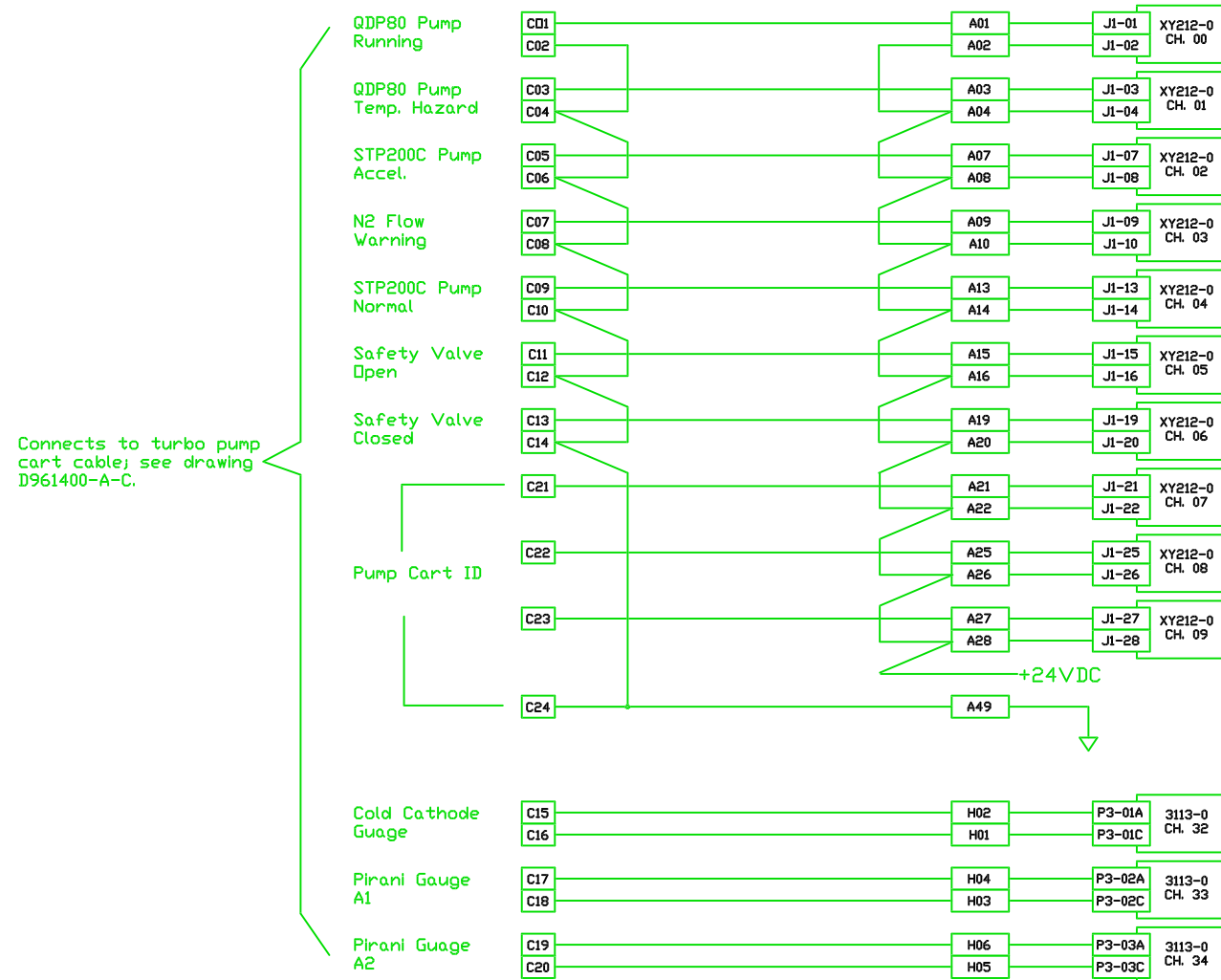
PSI CDS

CDS PSI

10" Pumpout Port Valve



Turbo Pump Cart Monitoring



Connects to turbo pump cart cable; see drawing D961400-A-C.

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

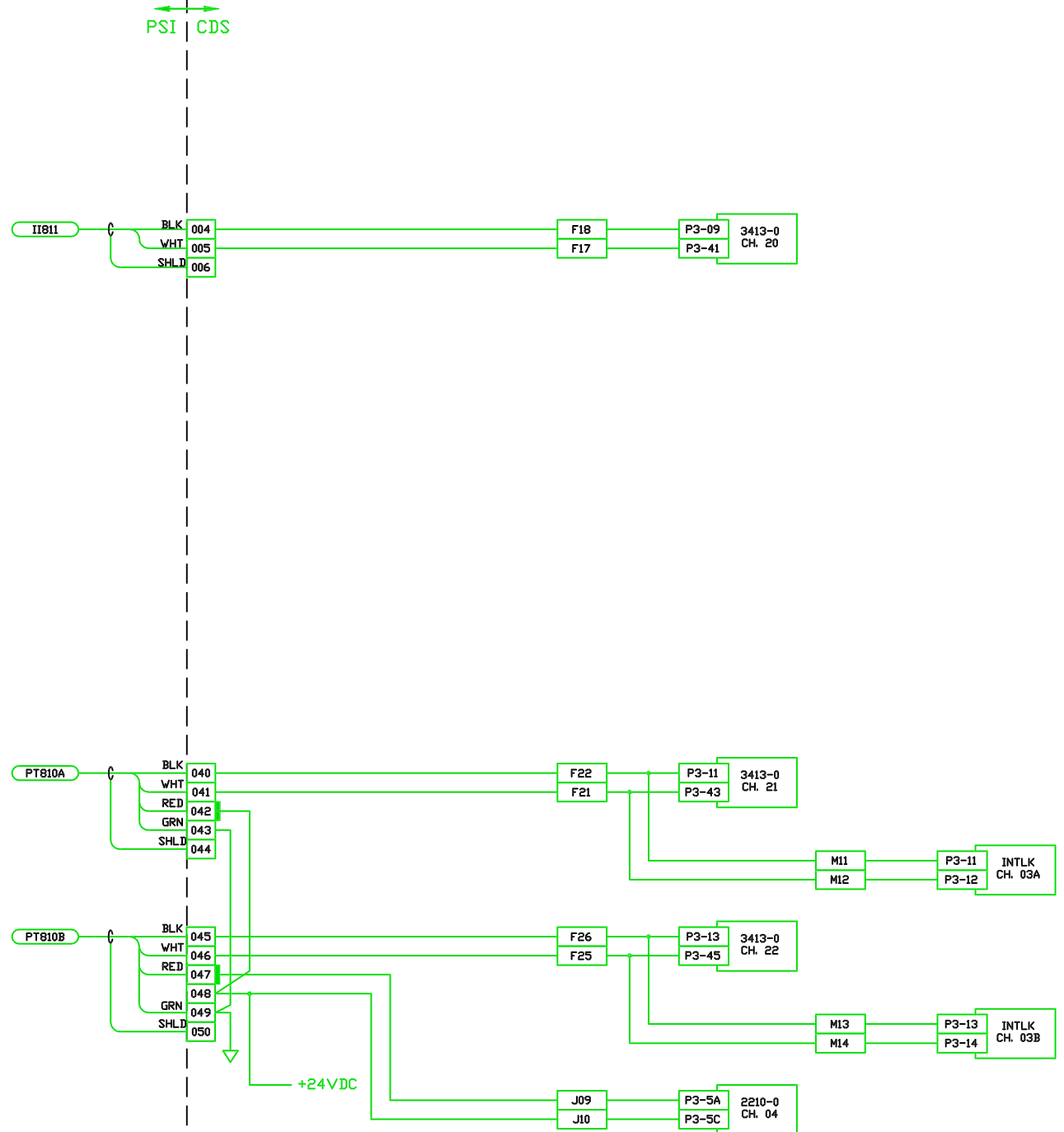
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A	Initial release per DCN E980122-00-C		

CURRENT REVISION APPROVAL			
DRAWN	GROUP	SIGNATURE	DATE
R. Bork	CDS		4/3/98
CHECKED			

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
VCMS ELECTRICAL DIAGRAM LA RIGHT END STATION LCP4			
SCALE	SIZE	DWG. NO.	REV.
	B	D961350-A-C	A
CAD FILE	SHEET	7 OF 10	VER. 01

DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION
6		5	
REFERENCE DRAWINGS			
NEXT ASSY:			



PSI CDS

CDS PSI

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

DO NOT SCALE THIS DRAWING
USED ON:

NEXT ASSY:

CURRENT REVISION APPROVAL			
DRAWN	GROUP	SIGNATURE	DATE
R. Bork	CDS		4/3/98
CHECKED			

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VCMS ELECTRICAL DIAGRAM
LA RIGHT END STATION
LBSC-4

DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION
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REFERENCE DRAWINGS

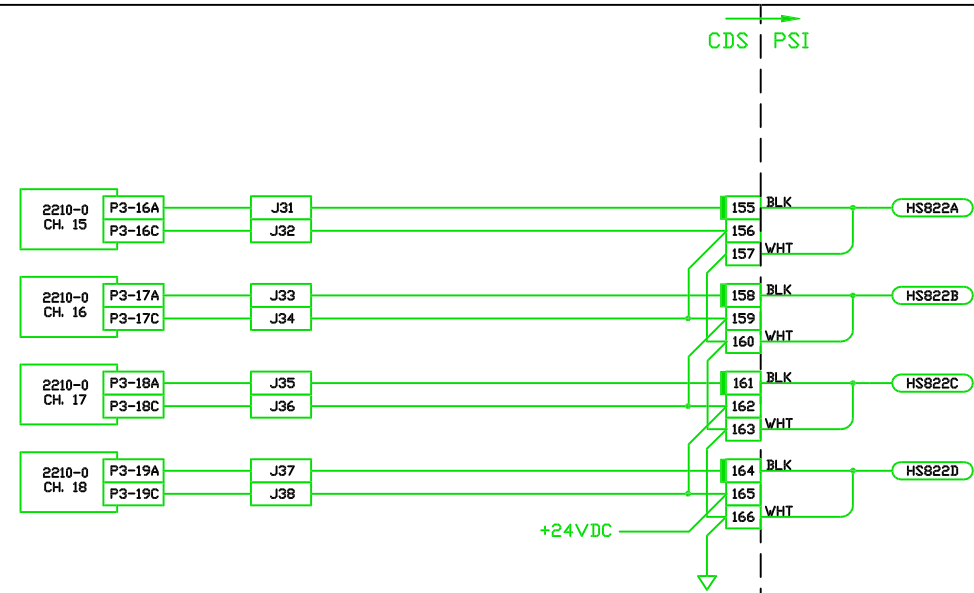
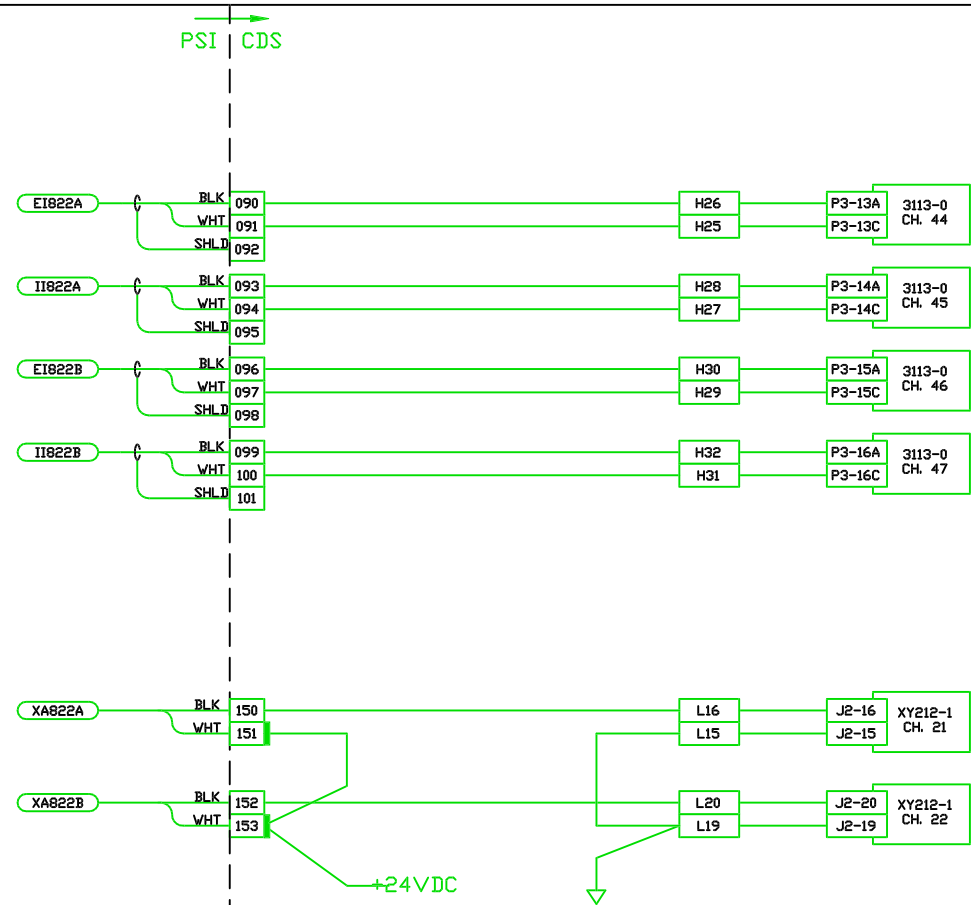
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A	Initial release per DCN E980122-00-C		

ISSUE DESCRIPTION

ISSUE DESCRIPTION	DATE	SHEETS EFFECTED

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CAD FILE SHEET 8 OF 10 VER 01

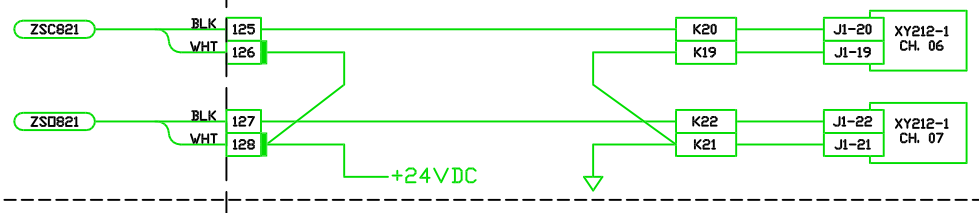


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				DO NOT SCALE THIS DRAWING				DRAWN R. Bork				GROUP CDS			
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DWG. NO.				DESCRIPTION				REV				DESCRIPTION			
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REFERENCE DRAWINGS				ISSUE DESCRIPTION				DCC				SCALE			
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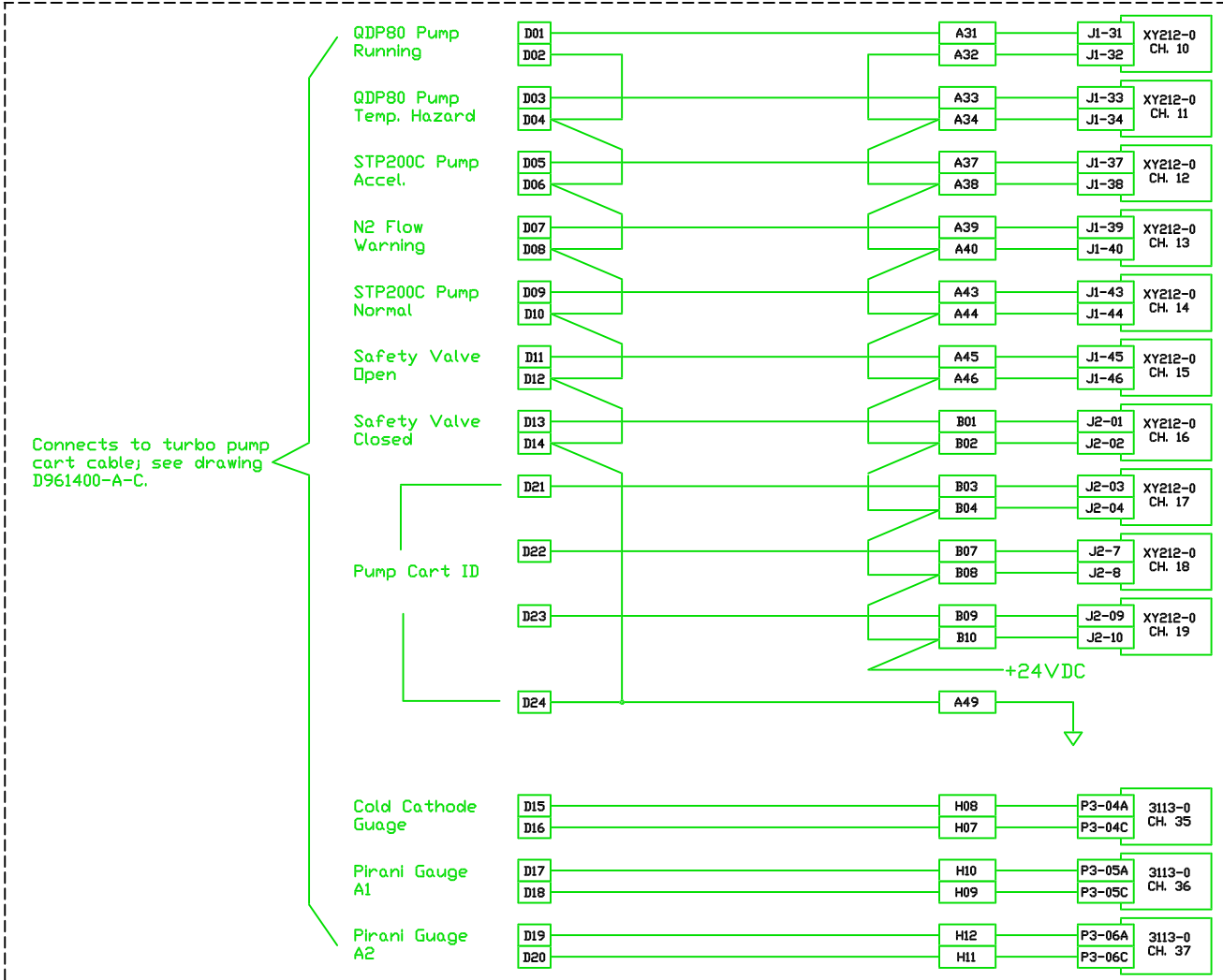
PSI CDS

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

DO NOT SCALE THIS DRAWING
USED ON:
NEXT ASSY:

CURRENT REVISION APPROVAL
DRAWN R. Bork
CHECKED
GROUP CDS
SIGNATURE
DATE 4/3/98

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VCMS ELECTRICAL DIAGRAM
LA RIGHT END STATION
MANIFOLD PUMP PORT

REV A Initial release per DCN E980122-00-C

DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	USED ON:	REV	DESCRIPTION	SHEETS EFFECTED	DATE	DCC	SCALE	SIZE	DWG. NO.	REV.
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												10 OF 10	VER. 01