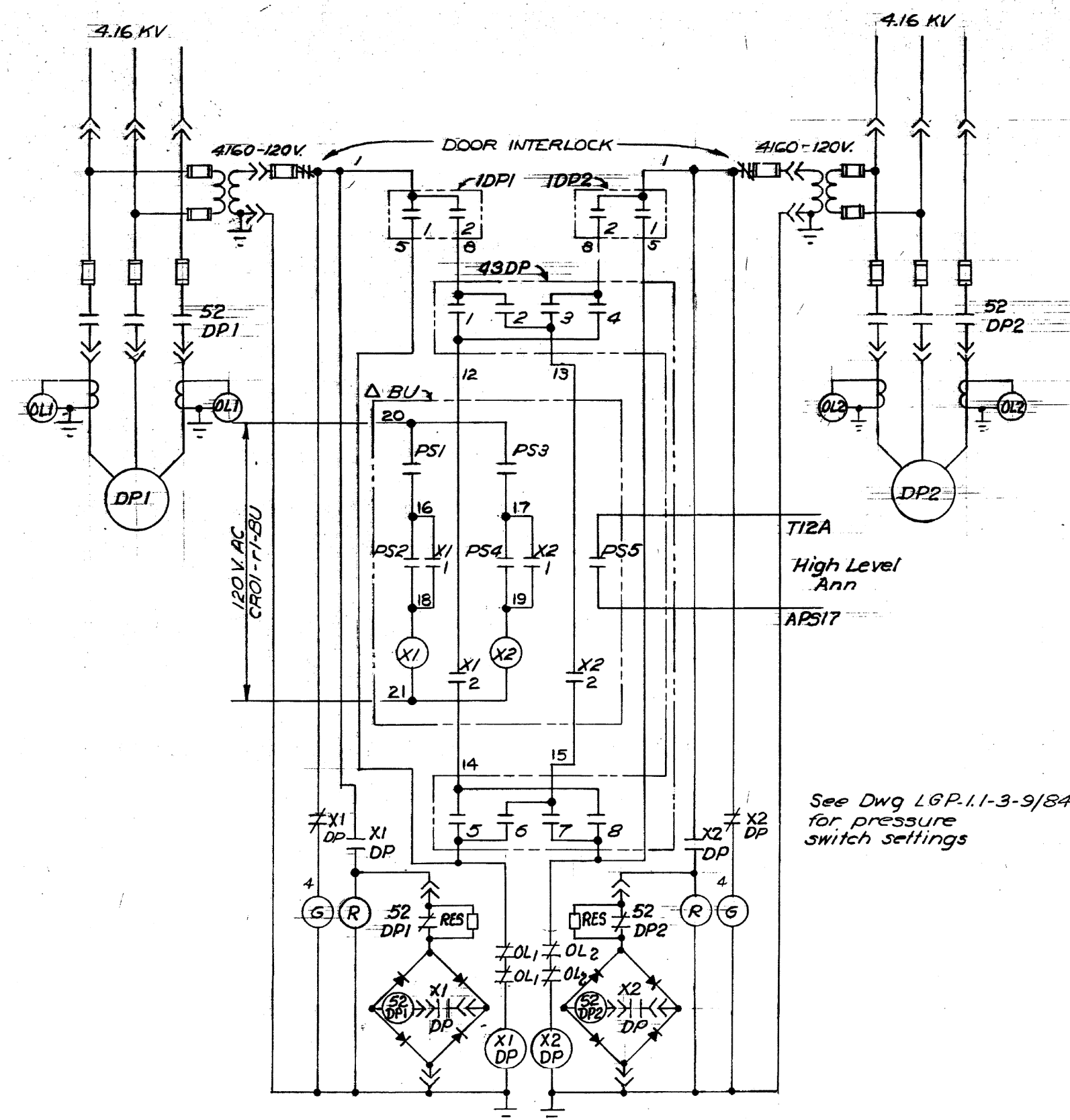
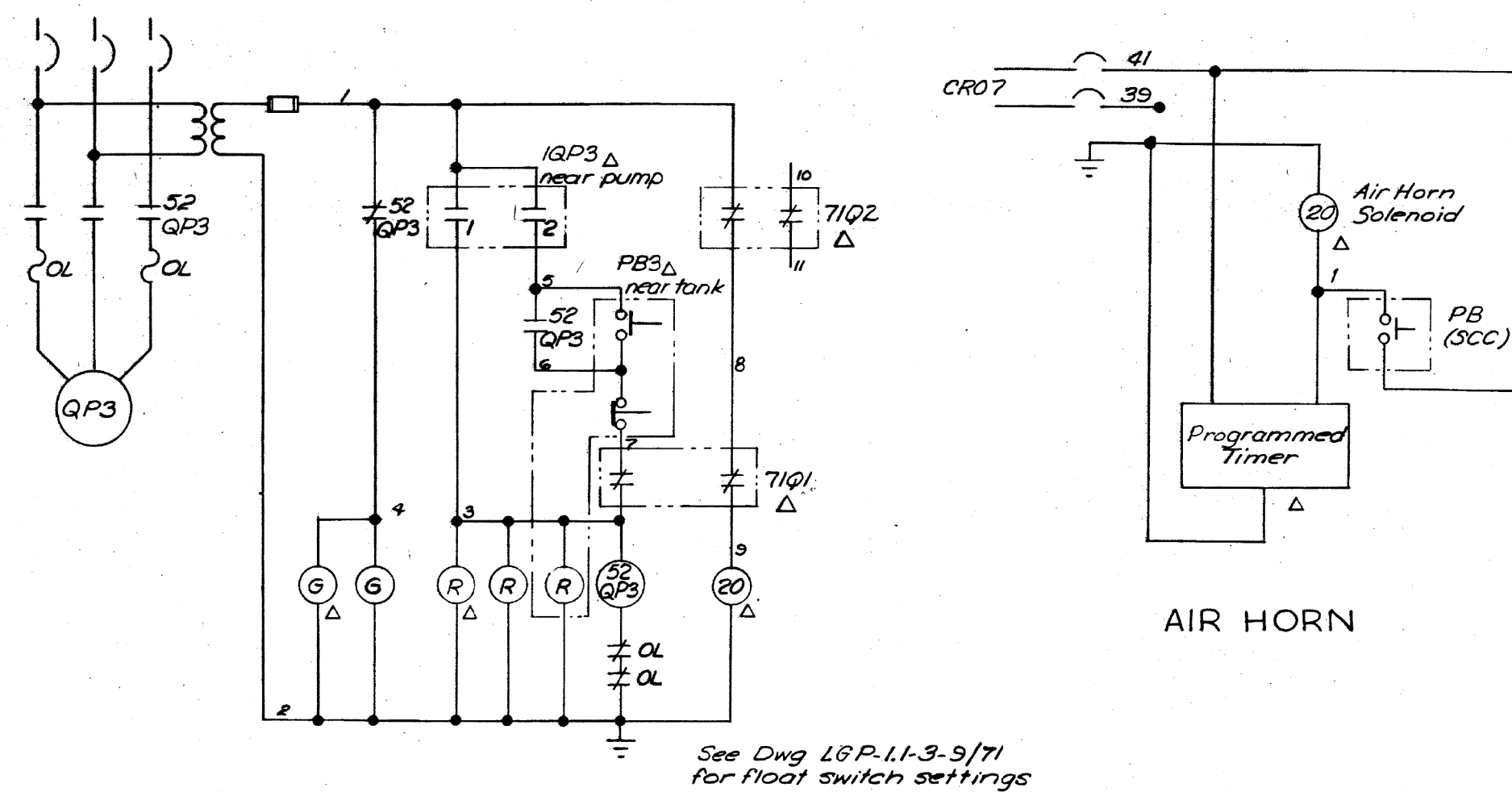
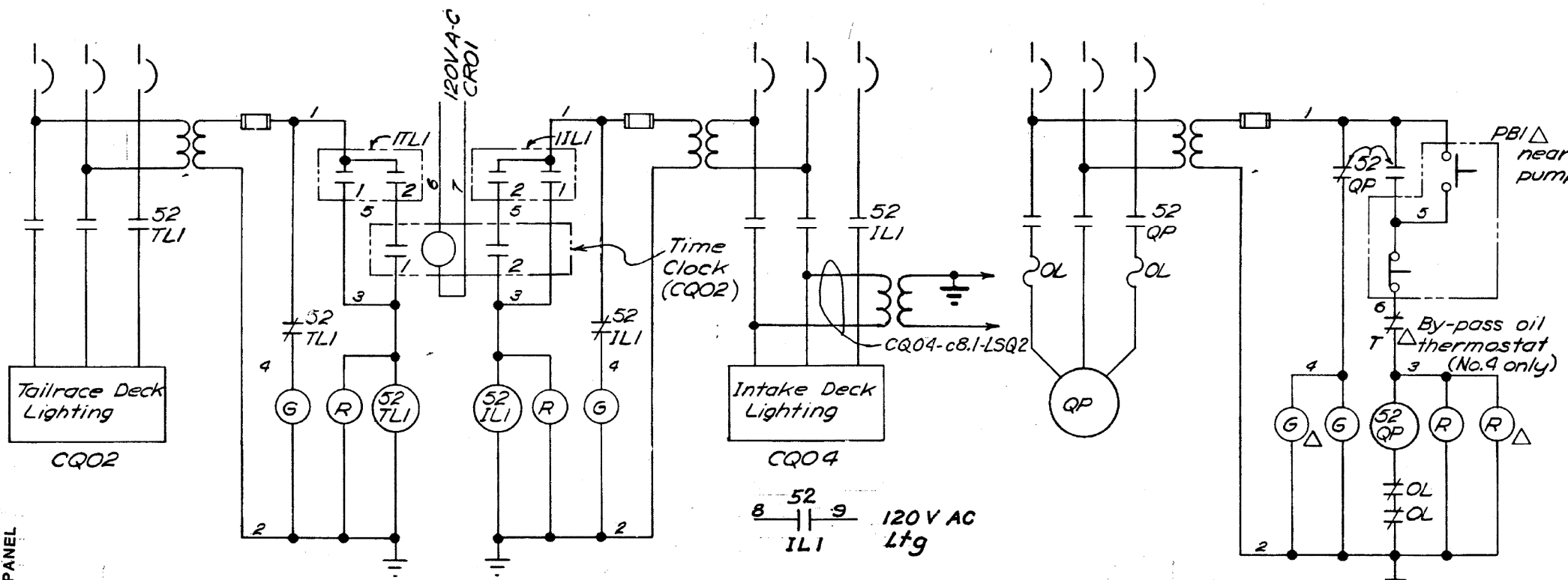
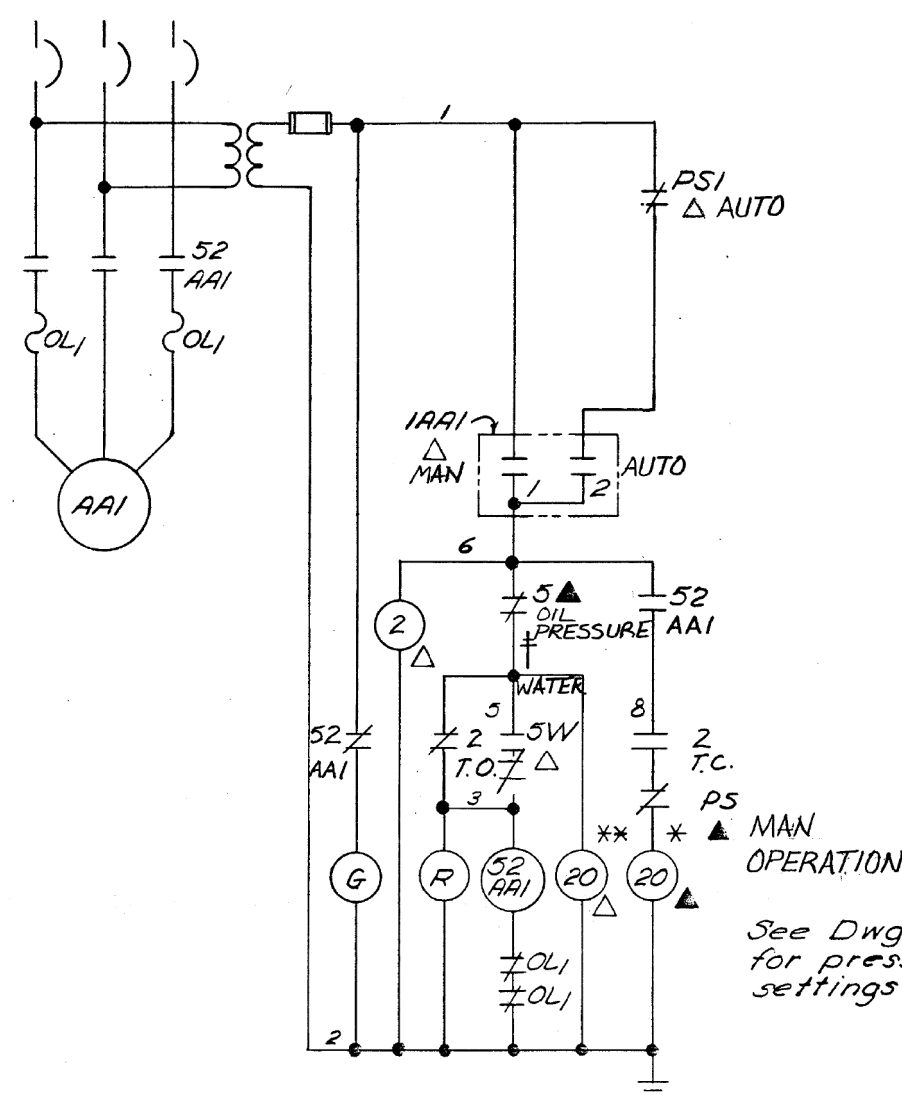
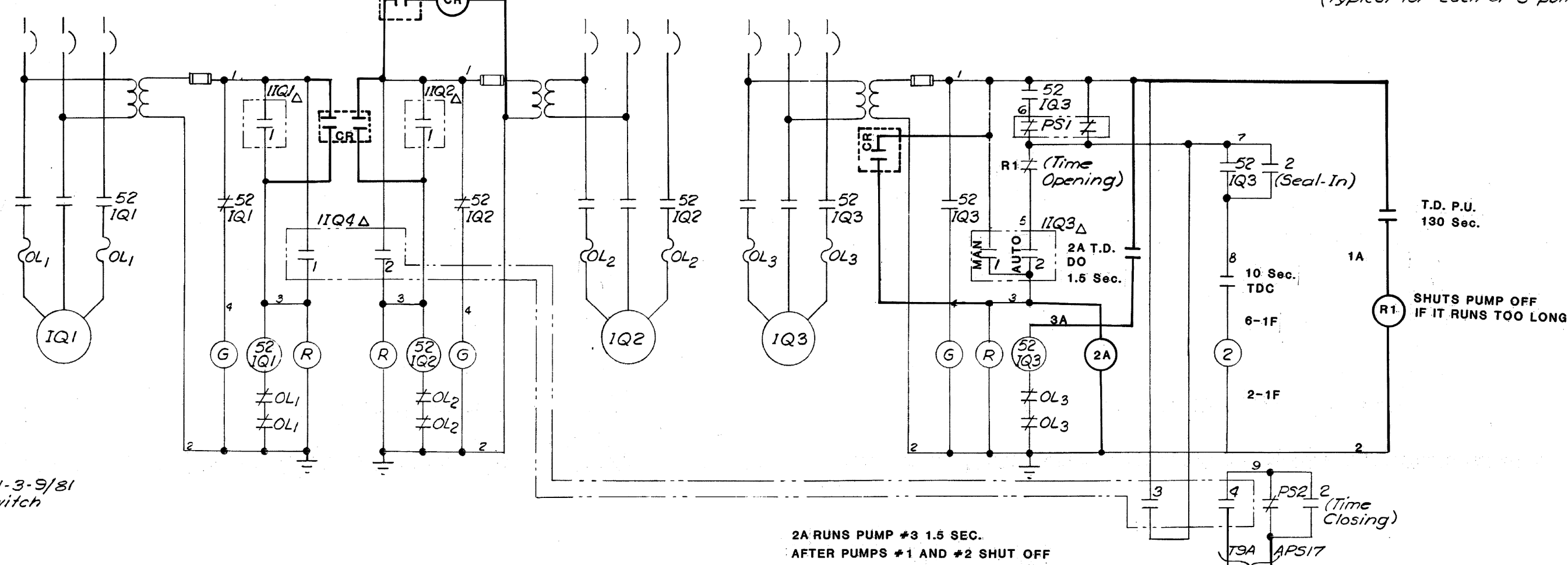
US Army Corps
of Engineers®DRAINAGE PUMPS
CPOLUBE OIL PUMP NO. 3
CQO1INTAKE DECK AND TAILRACE
DECK LIGHTSTRANSIL OIL PUMPS NO. 1 & 2
DIRTY OIL PUMP NO. 4
CQO1
(Typical for each of 3 pumps)GOVERNOR AIR COMPRESSOR
CQO2INTAKE GATE HYD PUMPS
CQO4

SHEET 20 FOR EMER. LOWER

43DP DRAINAGE PUMPS			
NO. 1 LEAD	NO. 2 LEAD	Maintained Contacts	
CONTACT	NO. 1 LEAD	NO. 2 LEAD	
1	X		
2		X	
3	X		
4		X	
5	X		
6		X	
7	X		
8		X	

11Q4 INTAKE GATE RAISE			
ON	OFF	Maintained Contacts	
CONTACT	ON	OFF	
1	X		
2	X		
3	X		
4		X	

11Q3 INTAKE GATE PUMP NO. 3			
ITL1	TAILRACE DECK LTG	Maintained Contacts	
CONTACT	ON	OFF	AUTO
1	X		
2			X

11Q2 INTAKE GATE PUMP NO. 2			
11Q1	INTAKE GATE PUMP NO. 1	Maintained Contacts	
CONTACT	ON	OFF	
1	X		

11Q3 LUBE OIL PUMP NO. 3			
ON	OFF	Remote Maintained Contacts	
CONTACT	ON	OFF	REMOTE
1	X		
2			X

* Magnetic Unloading Valve
Cooling Water Valve
† Typical device 5 inclusions:
Oil Level Switch
Water Flow Switch
Discharge Air High-Temp. Cutout Switch

PB1 Start-Stop Pushbutton Station,
momentary contact
PB3 Start-Stop Pushbutton Station,
momentary contact with red indicating light

NOTE

1. For General Notes and Legend see drawing L6P-1.1-6-1A0/1.

REFERENCE DRAWINGS

DRAWING NO. SHEET NO.

L6P-1.1-3-9/71 147 Vol I
L6P-1.1-3-9/81 157 Vol I
L6P-1.1-3-9/84 160 Vol I
L6P-1.1-6-1A0/1 2

AS CONSTRUCTED

HYDRO ELECTRIC DESIGN BRANCH, NPD

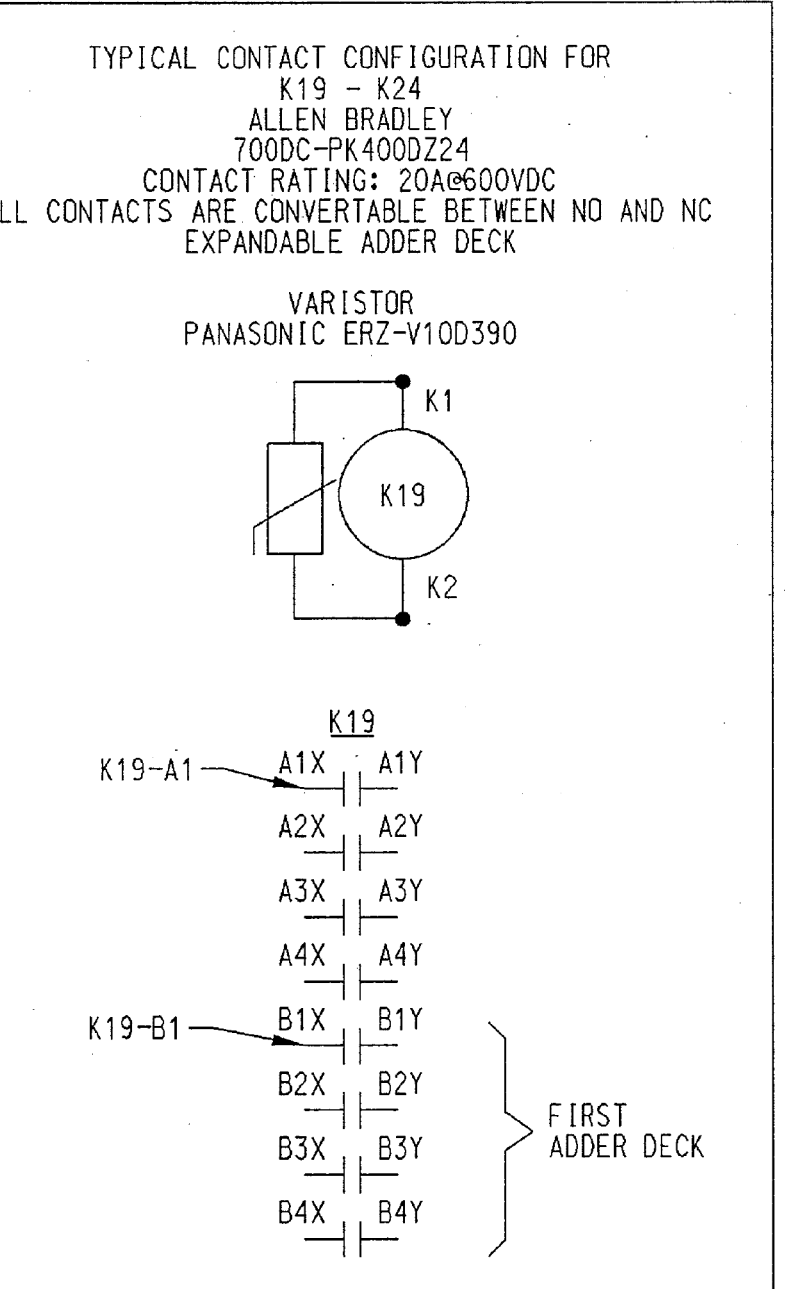
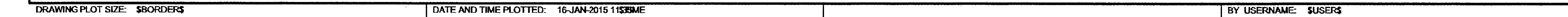
DATE 1971 SEP 7 BY J. P. Kline

DESIGNED BY	AS BUILT	DATE	1971 JUL 01
DRAWN BY	AS BUILT	DATE	1971 SEP 07
CHECKED BY	AS BUILT	DATE	1971 SEP 07
PREPARED BY	AS BUILT	DATE	1971 SEP 07
INVENTOR	AS BUILT	DATE	1971 SEP 07
REVISION	DATE	DESCRIPTION	BY
1	1971 JUL 01	AS BUILT	J.P.K.
2	1971 SEP 07	As Constructed, chgd Air Horn, added transf. to Intake Dk. Ltg.	J.P.K.
3	1971 SEP 07	Revised Gov. Air Comp.	J.P.K.
U. S. ARMY ENGINEER DIVISION, N. P.			
PORTLAND, OREGON			
LITTLE GOOSE LOCK AND DAM			
SNAKE RIVER, OREGON, WASHINGTON, & IDAHO			
POWERHOUSE			
CONTROL DIAGRAMS			
STATION SERVICE AUXILIARIES			
SHEET 1			
APPROVED FOR DIV. ENGINEER DATE 25 JUN 88			
SCALE AS SHOWN SPEC. NO.			
LGP-1.1-6-ID24/1			
SHEET 16			

SHEET ID

R-101

FINAL



REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING TITLE
6255-100720-3601/23	ELEMENTARY DIAGRAM - KAPLAN LITTLE GOOSE - UNITS 1 - 3 CONTRACT # W9127N-09-D-001
6255-100720-3601/24	ELEMENTARY DIAGRAM - KAPLAN LITTLE GOOSE - UNITS 1 - 3 CONTRACT # W9127N-09-D-001

NOTES:

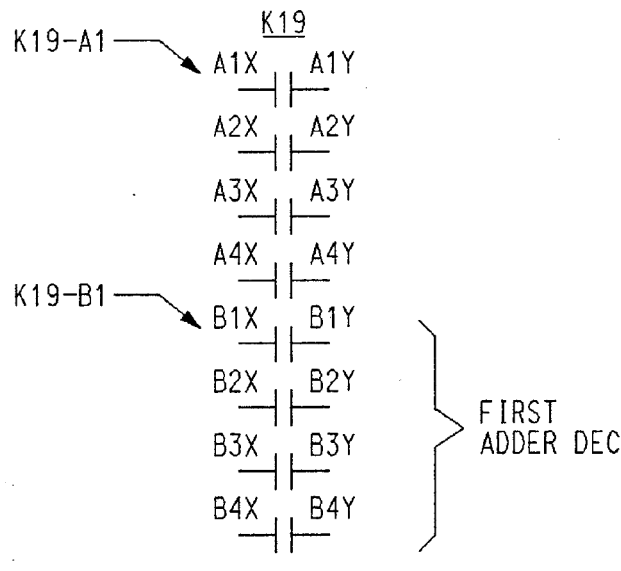
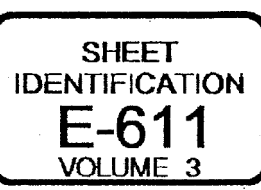
1. ENTIRE REFERENCE IS A NEW INSTALLATION.
2. PROVIDE ADDER DECKS AS NECESSARY. SEE SPECIFICATION SECTION 26 10 00.00 26 EQUIPMENT INSTALLATION AND WIRING.
3. CONTRACTOR TO LIFT WIRE AT K9-4 AND RELAND AT K9-1.
4. BOLD INDICATES ITEM TO BE INSTALLED OR MODIFIED.

LITTLE GOOSE LOCK AND DAM SLAKE RIVER POWERHOUSE DIGITAL GOVERNOR UPGRADE MAIN UNITS 1-3 GOVERNOR INTERPOSING RELAYS SCHEMATIC DIAGRAM - INSTALL		SHEET IDENTIFICATION E-611 VOLUME 2	
U.S. ARMY CORPS OF ENGINEERS WALLA WALLA DISTRICT WALLA WALLA, WASHINGTON		DESIGNED BY: J. DONALD CIVIL ENGINEER GHS-20-LLR	
U.S. ARMY CORPS OF ENGINEERS STEVEN R. MILES HYDRO-ELECTRIC DESIGN CENTER PORTLAND, OREGON		DATE: 5/2/2018 W912EF-15R-0008 CONTRACT NO: 15-C-0018 DRAWING NUMBER: 15-AN-2018-1103 LCP-1374-900M/3	
R/S: 1 R/S: 2 R/S: 3 R/S: 4 R/S: 5 R/S: 6 R/S: 7 R/S: 8 R/S: 9 R/S: 10 R/S: 11 R/S: 12 R/S: 13 R/S: 14 R/S: 15 R/S: 16 R/S: 17 R/S: 18 R/S: 19 R/S: 20 R/S: 21 R/S: 22 R/S: 23 R/S: 24 R/S: 25 R/S: 26 R/S: 27 R/S: 28 R/S: 29 R/S: 30 R/S: 31 R/S: 32 R/S: 33 R/S: 34 R/S: 35 R/S: 36 R/S: 37 R/S: 38 R/S: 39 R/S: 40 R/S: 41 R/S: 42 R/S: 43 R/S: 44 R/S: 45 R/S: 46 R/S: 47 R/S: 48 R/S: 49 R/S: 50 R/S: 51 R/S: 52 R/S: 53 R/S: 54 R/S: 55 R/S: 56 R/S: 57 R/S: 58 R/S: 59 R/S: 60 R/S: 61 R/S: 62 R/S: 63 R/S: 64 R/S: 65 R/S: 66 R/S: 67 R/S: 68 R/S: 69 R/S: 70 R/S: 71 R/S: 72 R/S: 73 R/S: 74 R/S: 75 R/S: 76 R/S: 77 R/S: 78 R/S: 79 R/S: 80 R/S: 81 R/S: 82 R/S: 83 R/S: 84 R/S: 85 R/S: 86 R/S: 87 R/S: 88 R/S: 89 R/S: 90 R/S: 91 R/S: 92 R/S: 93 R/S: 94 R/S: 95 R/S: 96 R/S: 97 R/S: 98 R/S: 99 R/S: 100		MARK DESCRIPTION DATE APPR.	

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15 JAN 2015 11:35

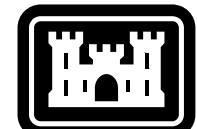
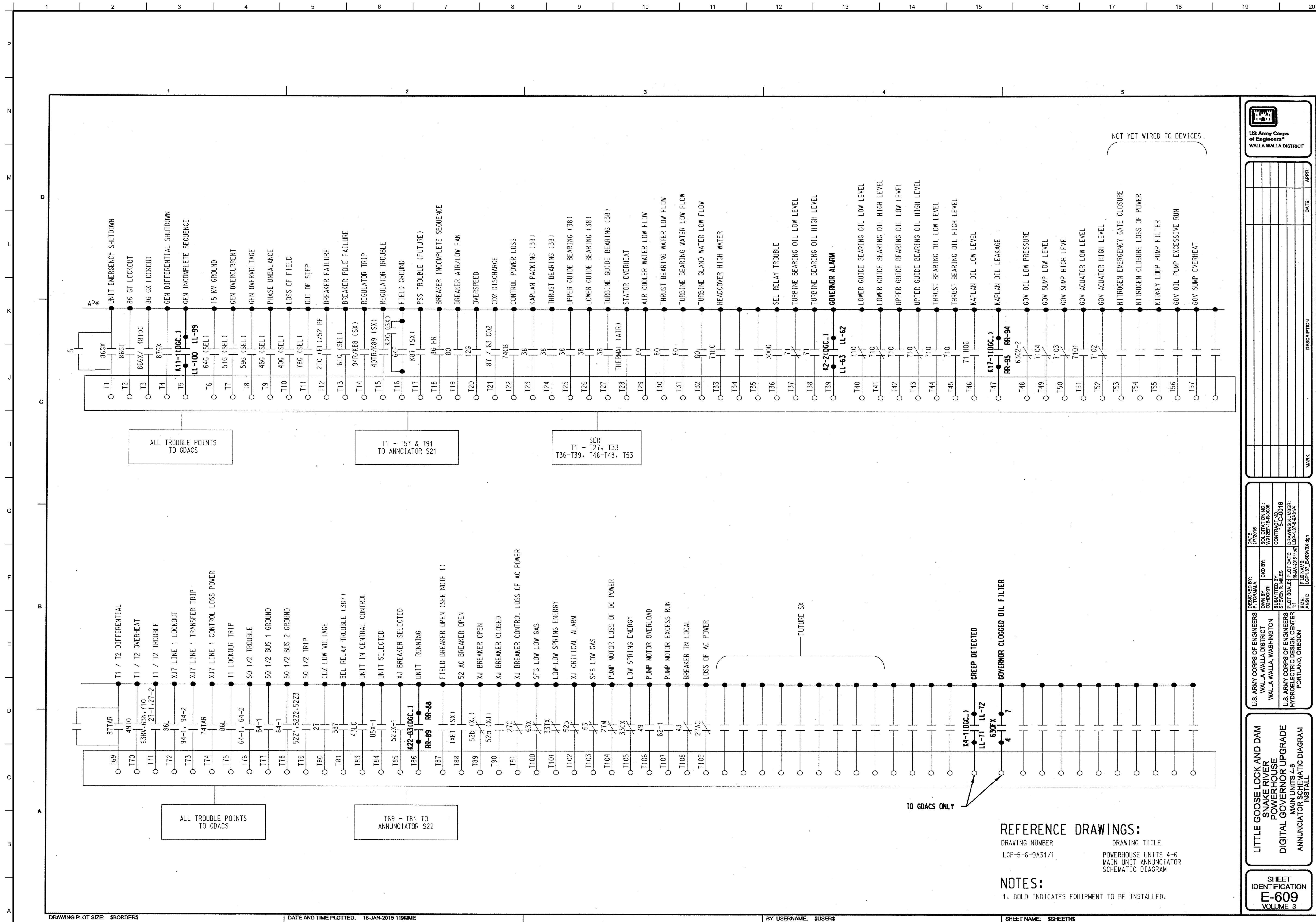
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SHEET ID
R-107



1. ENTIRE DRAWING IS A NEW INSTALLATION.
2. PROVIDE ADDER DECKS AS NECESSARY. SEE SPECIFICATION SECTION 26 10 00.00 26 EQUIPMENT INSTALLATION AND WIRING.
3. CONTRACTOR TO LIFT WIRE AT K9-4 AND RELAND WIRE AT K9-1
4. BOLD INDICATES ITEM TO BE INSTALLED OR MODIFIED.



US Army Corps
of Engineers®[illegible]

U.S. ARMY CORPS OF ENGINEERS WALLA WALLA DISTRICT 201 NORTH 3RD AVENUE SEATTLE, WASHINGTON	DESIGNED BY:	AUGUST 2022
	DRAWN BY:	SOLICITATION NO.: W912EF2R0001
	CHECKED BY:	CONTRACT NO.:
	SUBMITTED BY:	DRAWING NUMBER:
	SIZE:	FILENAME: ANSI.D R-109.dgn

POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
DIGITAL GOVERNOR UPGRADE
MAIN UNITS 4-6
ANNUNCIATOR SCHEMATIC DIAGRAM

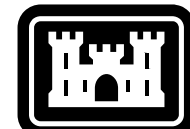
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R-109

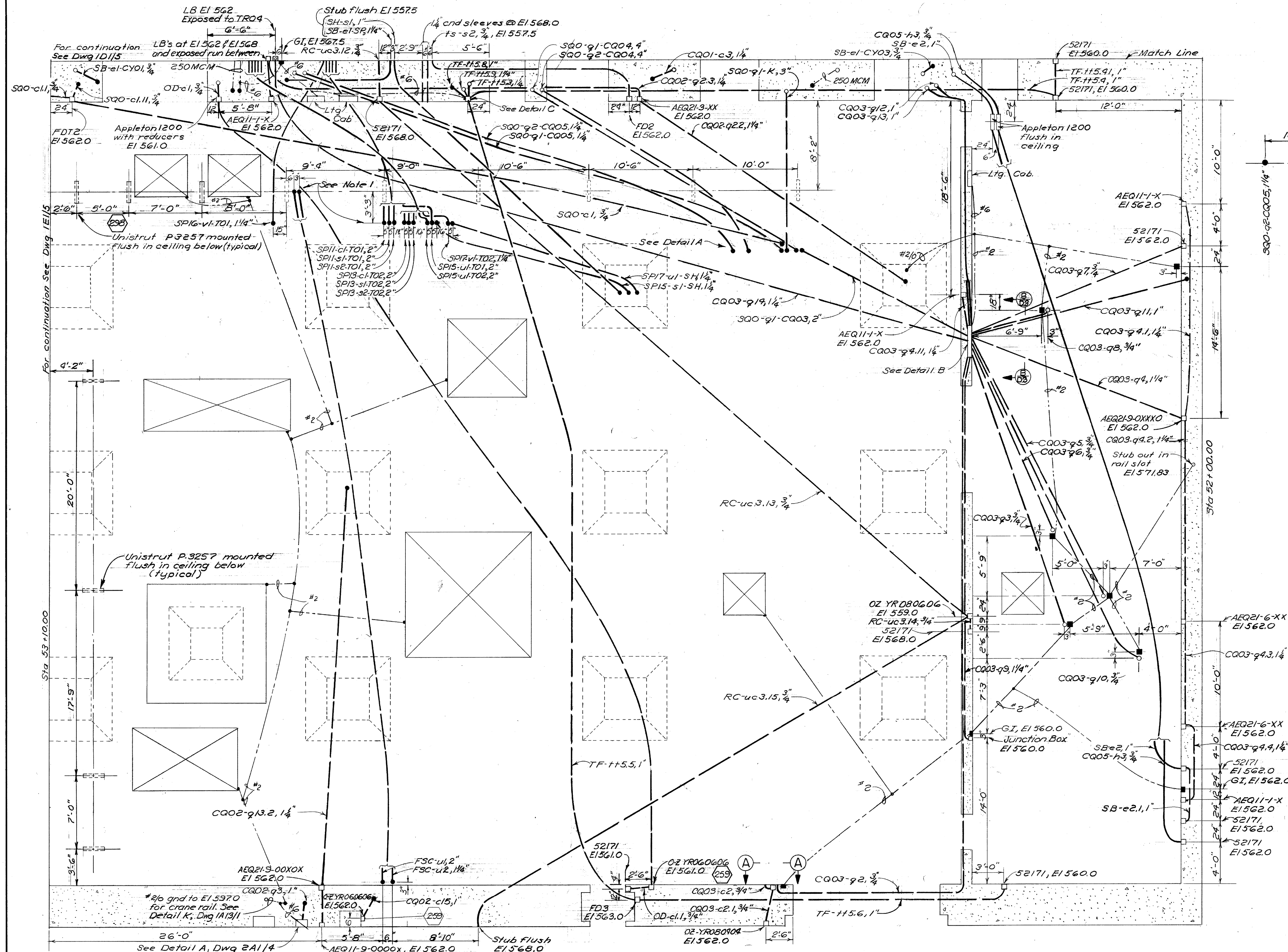
FINAL

CORPS OF ENGINEERS

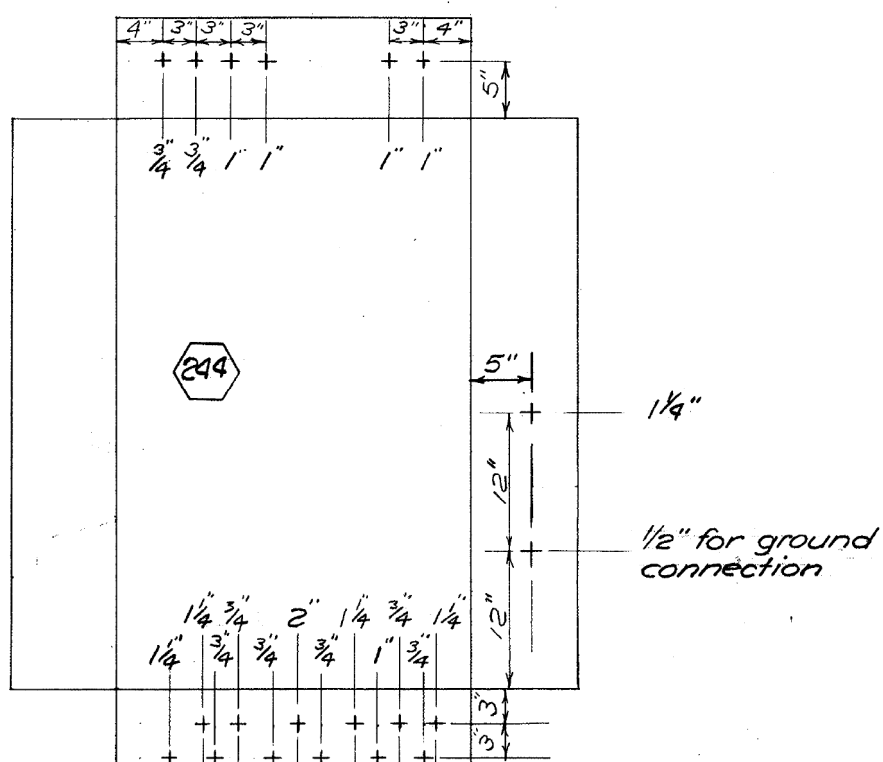
U. S. ARMY



US Army Corps of Engineers®



DETAIL A
Scale: 1/4" = 1'-0"



DETAIL B
CQ03 DRILLING
(Conduit sizes are shown)
No Scale

NOTE
1. Conduits to be stubbed flush with ceiling except for 1 1/4" and larger where a minimum amount of bend may be exposed.

REFERENCE DRAWINGS

DRAWING NO.	SHEET NO.
LGP-1-6-1A13/1	61
LGP-1-6-1D1/1	62
LGP-1-6-1D1/3	64
LGP-1-6-1D1/5	66
LGP-1-6-1D1/6	67
LGP-1-6-1D1/9	70
LGP-1-6-1E1/5	75
LGP-1-6-2A1/4	90

244, 250, Inc. as req'd (257, 259, 260, 296, 298)

REVISION	DATE	DESCRIPTION	BY
E	7 JUL 61	As Constructed - added grounding	WOK
D	6 Jun 66	Corrected and E and size, and routing	WHR
C	8 Oct 65	Changed dimensions, Detail A	WHR
B	31 Mar 65	Relocated and	WHR
A	1 Feb 65	Changed box and added cnd designation.	WHR

U. S. ARMY ENGINEER DIVISION, N. P.
PORTLAND, OREGON

DESIGNED BY: F.M.S.
DRAWN BY: J.L.C.
CHECKED BY: R.Q.M.
PREPARED BY: R.Q.M.
HEAD, ELECTRICAL SECTION

LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON & IDAHO
POWERHOUSE
EMBEDDED CONDUIT & GROUNDING
ERECTION BAY
EL 558

APPROVED FOR D.Y. ENGINEER DATE: 4 DEC 64
SHEET ENGINEERING DIVISION

SUBMITTED: [Signature]
CHIEF, HYDRO-ELECTRIC DESIGN BRANCH

INV. NO. CIVENG-45-164-65-18

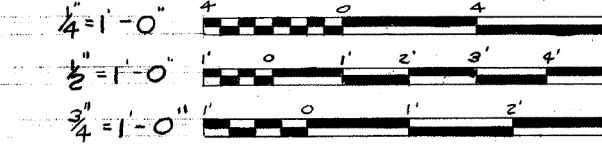
SCALE AS SHOWN SPEC. NO.
LGP-1-6-1D1/4

SHEET 65

AS CONSTRUCTED
HYDRO ELECTRIC DESIGN BRANCH, NPD

DATE: 7 JUL 61 BY: M.D. Koller

GRAPHIC SCALES



SECTION A-A
Scale: 1/2" = 1'-0"

DETAIL C
No Scale

PLAN - EL 558
Scale: 1/4" = 1'-0"

SHEET ID
R-112

Sheet number:
E-602
SEES

VOLT : 480/277V		EXISTING PANEL FCQ1		FEEDER NO. : SQO-Q1-FCQ1, 1-1/4", 3#4	
3 PHASE		3 WIRE		A/C RATING : —	
225 AMPS		<input checked="" type="checkbox"/> MAIN BKR		LOCATION : FISHWAY GALLERY	
<input type="checkbox"/> SURFACE		<input checked="" type="checkbox"/> FLUSH		FED FROM : SQO/BUS 2	
		<input type="checkbox"/> M.L.O			
		NEMA 1			

NO.	POLE	TRIP	WIRE	GND	CND	TAG	SERVES	NO.	POLE	TRIP	WIRE	GND	CND	TAG	SERVES
3	3	30	-	-	-	CKT 1	FISWAY TRANSFORMER	4	3	30	-	-	-	CKT 2	TRAD
9	3	20	-	-	-	CKT 3	480 OUTLET FISH PMP RM	10	3	20	-	-	-	CKT 4	TRA1
15	3	20	-	-	-	CKT 5	WEIR GATE (SPE2)	16	3	20	-	-	-	CKT 6	WEIR GATE (SPE1)
21	3	20	-	-	-	CKT 7	FISH TURB DPR (FTC3)	22	3	20	-	-	-	CKT 8	FISH TURB DPR (FTC2)
27	3	20	-	-	-	CKT 9	FISH TURB DPR (FTC1)	28	3	20	-	-	-	CKT 10	DIESEL ENGINE GENERATOR HTR
33	3	30	-	-	-	CKT 11	SPARE	34	3	20	-	-	-	CKT 12	ENGINE GEN EX-FAN & COOLING WATER

VOLT : 480/277V 3 PHASE 3 WIRE

225 AMPS ☒ MAIN BKR ☐ M.L.O

☐ SURFACE ☒ FLUSH NEMA 1

FEEDER NO. : SQ0-Q1-FCQ1, 1-1/4", 3#4

AIC RATING : —

LOCATION : FISHWAY GALLERY

FED FROM : SQ0/BUS 2

NO.	POLE	TRIP	WIRE	GND	CND	TAG	SERVES	NO.	POLE	TRIP	WIRE	GND	CND	TAG	SERVES	
—	3	30	—	—	—	CKT 1	FISWAY TRANSFORMER	—	4	3	30	—	—	—	CKT 2	TRAD
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	3	20	—	—	—	CKT 3	480 OUTLET FISH PMP RM	10	3	20	—	—	—	CKT 4	TRAI	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	3	20	—	—	—	CKT 5	WEIR GATE (SPE2)	16	3	20	—	—	—	CKT 6	WEIR GATE (SPE1)	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	3	20	—	—	—	CKT 7	FISH TURB DPR (FTC3)	22	3	20	—	—	—	CKT 8	FISH TURB DPR (FTC2)	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	3	20	—	—	—	CKT 9	FISH TURB DPR (FTC1)	28	3	20	FCQ1-q10-BH			CKT 10	ENGINE GENERATOR BLOCK HEATER	
—	—	—	—	—	—	—	—	—	—	—	—			—	—	—
33	3	30	FCQ1-q11-CS			CKT 11	PUMP P-1 COMBINATION STARTER	34	3	20	FCQ1-q12-CS			CKT 12	EX-FAN COMBINATION STARTER	
—	—	—	—			—	—	—	—	—	—			—	—	—

A. REFER TO E-001 FOR GENERAL NOTES AND LEGEND.

B. REFER TO E-617 FOR MODIFIED CONDUIT AND CABLE SCHEDULE.

C. PROVIDE BOXES AND FITTINGS PER NEC AS NECESSARY TO ROUTE NEW CIRCUIT TO END EQUIPMENT.

D. PROVIDE POWER INPUT CONNECTION TO 24DC RELAY AND FIELD ROUTE RELAY OUTPUT CIRCUITS TO DEVICES ACCORDING TO FUEL AND COOLING FLOW DIAGRAMS, REFER TO E-615 AND E-616. REFER TO E-614 FOR CONTROL WIRING DETAILS.

SEES

[illegible]

U.S. ARMY CORPS OF ENGINEERS WALLA WALLA DISTRICT 201 NORTH 3RD AVENUE SEATTLE, WASHINGTON	DESIGNED BY:	ISSUE DATE: AUGUST 2022
	DRAWN BY:	SOLICITATION NO.: W912EJ25R0001
	CHECKED BY:	CONTRACT NO.:
	SUBMITTED BY:	DRAWING NUMBER:
	SIZE:	FILENAME:
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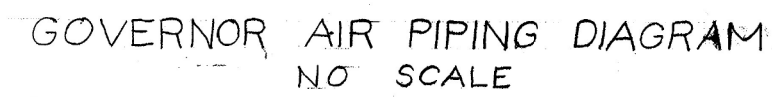
LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
CONDUIT & CABLE SCHEDULE MODIFIED






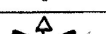
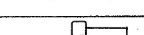

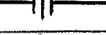






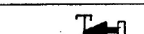

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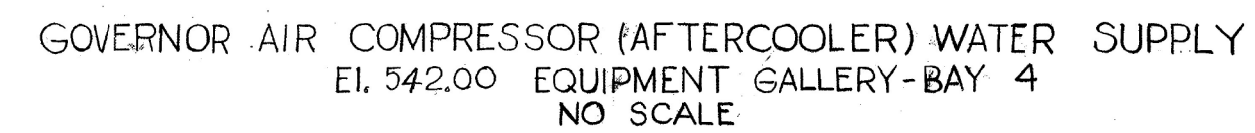
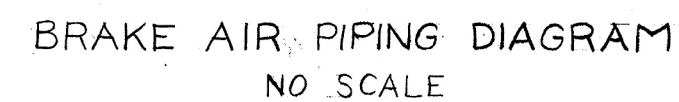
R-113

FINAL

MODIFIED CONDUIT AND CABLE SCHEDULE						
CONDUCTOR NO.	INSULATION	OPR. VOLTS	SIZE	FROM	TO	REMARKS
EG-C1	-	-	1" RGS	EG	SEG1	TO INCLUDE THESE CONDUCTORS
GCP-c3-SEG1	600V, XHHW-2	125VDC	7c-#14	GEN CTL PNL	SEG1	-
SEG1-c1-SQEG	600V, XHHW-2	125VDC	2#14	SOEG	SEG1	2a
SEG2-c1-SQEG	600V, XHHW-2	125VDC	2#14	SEG2	SEG1	SHUNT TRIP
SEG1-c1-XS	600V, XHHW-2	125VDC	7c-#14	XS	SEG1	AUX SWITCH FOR POSITION
EG-C2	-	-	3/4" RGS	EG	SEG1	TO INCLUDE THESE CONDUCTORS
EG-a1-SEG1	SIS	-	4#10	EG CTS	SEG1	CT LEADS TO AMMETER
EG-v1-SEG1	SIS	-	4#10	EG PTS	SEG1	PT LEADS TO VOLTMETER
GCP-C1	-	-	3/4" RGS	GEN CTL PNL	DC BOX	TO INCLUDE THESE CONDUCTORS
GCP-c2-24CR	600V, XHHW-2	24VDC	2c-#14	GEN CTL PNL	24VDC RELAY	EF-3 & DM
GCP-c21-24CR	600V, XHHW-2	24VDC	2c-#14	GEN CTL PNL	24VDC RELAY	V-36
GCP-c22-24CR	600V, XHHW-2	24VDC	2c-#14	GEN CTL PNL	24VDC RELAY	V-31 & PUMP P-1
V48-c20-GCP	600V, XHHW-2	24VDC	2#14, 3/4" RGS	V-48	GEN CTL PNL	FLOW SWITCH
DTP-c1-GCP	600V, XHHW-2	24VDC	12#14, 3/4" RGS	DAY TANK PANEL	GEN CTL PNL	-
SB2-E1	-	-	1" RGS	PNL SB2	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SB2-e16-PLC1	600V, XHHW-2	125VDC	2#12	PNL SB2	PLC1	-
SB2-e17-PLC2	600V, XHHW-2	125VDC	2#12	PNL SB2	PLC2	-
SB2-e18-SP32	600V, XHHW-2	125VDC	2#12	PNL SB2	SP32	TAP OFF DC BKR TO SPEG2
SB2-e19-SEG2	600V, XHHW-2	125VDC	2#12	PNL SB2	SEG2	-
SEG1-C1	-	-	2" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG1-c1-SP11	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP11	-
SEG1-c1-SP12	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP12	-
SEG1-c1-SP14	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP14	-
SEG1-c1-SP22	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP22	-
SEG1-c1-SP25	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP25	-
SEG1-c1-SP26	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP26	-
SEG1-C2	-	-	2" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG1-c1-SP21	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP21	-
SEG1-c1-SP27	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP27	-
SEG1-c1-SP28	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP28	-
SEG1-c1-SP29	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP29	-
SEG1-c1-SP30	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP30	-
SEG1-C3	-	-	2" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG1-c1-SP15	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP15	-
SEG1-c1-SP16	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP16	-
SEG1-c1-SP23	600V, XHHW-2	125VDC	7c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP23	-
SEG1-c1-SQ0	600V, XHHW-2	125VDC	12c-#14, 1" RGS FRDM TRAY TO SQ0	SEG1	SQ0	-
SEG1-c1-SPEG2	600V, XHHW-2	125VDC	7c-#14	SEG1	SPEG2	-
SEG1-C4	-	-	1-1/4" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG1-c1-SP13	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP13	-
SEG1-c1-SP17	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP17	-
SEG1-c1-SP18	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP18	-
SEG1-c1-SP19	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP19	-
SEG1-c1-SP20	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP20	-
SEG1-c1-SP24	600V, XHHW-2	125VDC	2c-#14, 1" RGS FRDM TRAY TO SP	SEG1	SP24	-
SEG1-C5	-	-	1-1/4" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG1-c1-SP21SS1	600V, XHHW-2	125VDC	2#14	ROUTE IN SP21 CDT FROM TRAY	27SS1	-
SEG1-c1-SP21SS2	600V, XHHW-2	125VDC	2#14	ROUTE IN SP21 CDT FROM TRAY	27SS2	-
SEG1-c1-SP32	600V, XHHW-2	125VDC	7c-#14	SEG1	SP32	-
SP21-o1-SEG1	SIS	-	4#10, ROUTE IN SP21 CDT FROM TRAY	SP21	SEG1	CT LEADS
SEG1-E1	-	-	1" RGS	SEG1	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SB2-e16-PLC1	600V, XHHW-2	125VDC	2#12	PNL SB2	PLC1	-
SB2-e17-PLC2	600V, XHHW-2	125VDC	2#12	PNL SB2	PLC2	-
SPEG2-e1-SEG1	600V, XHHW-2	125VDC	2#12	SPEG2	SEG1	-
SEG2-A1	-	-	1" RGS	SEG2	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG2-o1-TEG	SIS	-	4#10, 3/4" RGS	TEG CTS	SEG2	CT LEADS
SEG2-o1-SPEG2	SIS	-	4#10, 3/4" RGS	SPEG2 CTS	SEG2	CT LEADS
SEG2-C1	-	-	1" RGS	SEG2	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SEG2-o1-SP14	SIS	-	4#10, 3/4" RGS	SP14 CTS	SEG2	CT LEADS
SEG2-c1-SP14	600V, XHHW-2	125VDC	2c-#14, ROUTE IN SP21 CDT FROM TRAY	SEG2	SP14	FROM 86-TEG
SEG2-c1-SQEG	600V, XHHW-2	125VDC	2c-#14	SEG2	SOEG	SHUNT TRIP FROM 86-TEG
SEG2-c1-SPEG2	600V, XHHW-2	125VDC	2c-#14	SEG2	SPEG2	FROM 86-TEG
SP32-C1	-	-	3/4" RGS	SP32	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SB2-e18-SP32	600V, XHHW-2	125VDC	2#12	PANEL SB2	SPEG2	-
SEG1-c1-SP32	600V, XHHW-2	125VDC	7c-#14	SEG1	SP32	-
SPEG2-C1	-	-	1" RGS	SPEG2	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SPEG2-o1-SEG1	SIS	-	4#10, 3/4" RGS	SPEG2	SEG1	CT LEADS
SPEG2-c1-SP12	600V, XHHW-2	125VDC	5c-#14, ROUTE IN SP12 CDT FROM TRAY	SPEG2	SP12	INTERLOCK CIRCUITRY
SPEG2-c1-SP30	600V, XHHW-2	125VDC	5c-#14, ROUTE IN SP30 CDT FROM TRAY	SPEG2	SP30	INTERLOCK CIRCUITRY
SEG1-e1-SPEG2	600V, XHHW-2	125VDC	7c-#14	SEG1	SPEG2	-
SPEG2-E1	-	-	3/4" RGS	SPEG2	CABLE TRAY	TO INCLUDE THESE CONDUCTORS
SB2-e18-SPEG2	600V, XHHW-2	125VDC	2#12	SB2	SPEG2	-
SPEG2-e1-SEG1	600V, XHHW-2	125VDC	2#12	SPEG2	SEG1	-
SPEG2-p1-SP14	5KV, EPR	4160	3-1/2" #1 - 3" RGS	SPEG2	SP14	-
TEG-p1-SP21	5KV, EPR	4160	3-1/2" #1 - 3" RGS	TEG	SP21	-
FCQ1-q10-BH	600V, XHHW-2	480	3#12, #12G - 3/4" RGS	PANEL FCQ1	BLOCK HEATER	-
FCQ1-q11-P1	600V, XHHW-2	480	3#10, #10G - 3/4" RGS	PANEL FCQ1	PUMP P-1	-
FCQ1-q12-EF3	600V, XHHW-2	480	3#12, #12G - 3/4" RGS	PANEL FCQ1	EXHAUST FAN	-
LBD-q1-LB	600V, XHHW-2	480	3 SETS 3-1/2" 500kcmil, #3/0G - 3" RGS	LB-SQEG	LOAD BANK	-
SQEG-q1-XS	600V, XHHW-2	480	3 SETS 3-1/2" 500kcmil, #3/0G - 3" RGS	SOEG	TRANSFER SWITCH	-
XS-a1-TEG	600V, XHHW-2	480	3 SETS 3-1/2" 500kcmil, #3/0G - 3" RGS	TRANSFER SWITCH	TEG	-
XS-a1-LBD	600V, XHHW-2	480	3 SETS 3-1/2" 500kcmil, #3/0G - 3" RGS	TRANSFER SWITCH	LOAD BANK	-
CRAO-r6-DM	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	DAMPER MOTOR	-
CRAO-r12-XSRCR	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	TRANSFER SWITCH	-
CRAO-r14-DTP	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	DAY TANK PNL	-
CRAO-r16-LBHTR	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	LOAD BANK HTR	-
CRAO-r18-BC	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	BATT CHARGER	-
CRAO-r19-CV	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	PNL CRAO	COOLING VALVES	-
DTP-r1-V10	600V, XHHW-2	120	2#12, #12G - 3/4" RGS	DAY TANK PANEL	FUEL VALVE (V10)	-
LBOP-r1-LB	600V, XHHW-2	120	2#12, #12G - 1" RGS	LB CTL PANEL	LOAD BANK	-
SG1-t1-HMI	600V, XHHW-2	COMMS	ETHERNET CABLE, 3/4" RGS	SEG1	HMI	-
GCP-c4-SCADA	600V, XHHW-2	COMMS	ETHERNET CABLE, 3/4" RGS	GEN CTL PNL	SCADA	-
						ROUTE TO HMI IN CONTROL ROOM



SYMBOLS	
	Gate valve
	Check valve
	Safety valve
	Globe valve
	Gage, pressure
	Needle valve
	Pressure reducing valve
	UNION
	Solenoid valve
	Connection to existing pipe
	Filter
	Ball valve w/hose connection
	Ball valve
	Existing piping
	Angle valve w/hose connection
	Reducer
	Three way valve



1. Each air receiver, after cooler and water cooled intercooler shall have an automatic moisture trap.

2. See note 1, LGP-1.9-3-9/101.

DATE 1980 JUL 28 BY *Arthur J. Faulconer*

F	7044736	As constructed. Deleted turbine air valves, UNITS 4,5,6	NRK
E	802472	ADDED VALVE NUMBERS	RND
D	78 July 1961	ADDED VALVE NUMBERS. MINOR CHANGES TO AGREE WITH APPROVED SHOP DWG'S.	RND
C	717689	ADDED COND. T. PIPING TO CONFORM WITH SHOP DWGS. ADDED PRY. ASSEMBLY IN GOVERNOR AIR.	NRK
B	6 Feb 74	Added check, safety & isolation valves.	NRK
A	4 April 75	General revision	RND
REVISION	DATE	DESCRIPTION	BY

DESIGNED BY NRK
DRAWN BY LAM
CHECKED BY MJT
PREPARED:
N.A. Hoodley
HEAD MECHANICAL SECTION

COMPRESSED AIR SYSTEMS

APPROVED: FOR DIV. ENGINEER DATE: 1975 MAR 7

CHEF, ENGINEERING DIVISION

SCALE AS SHOWN	SPEC. NO. 75-B-55
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GP-19-3-9/104

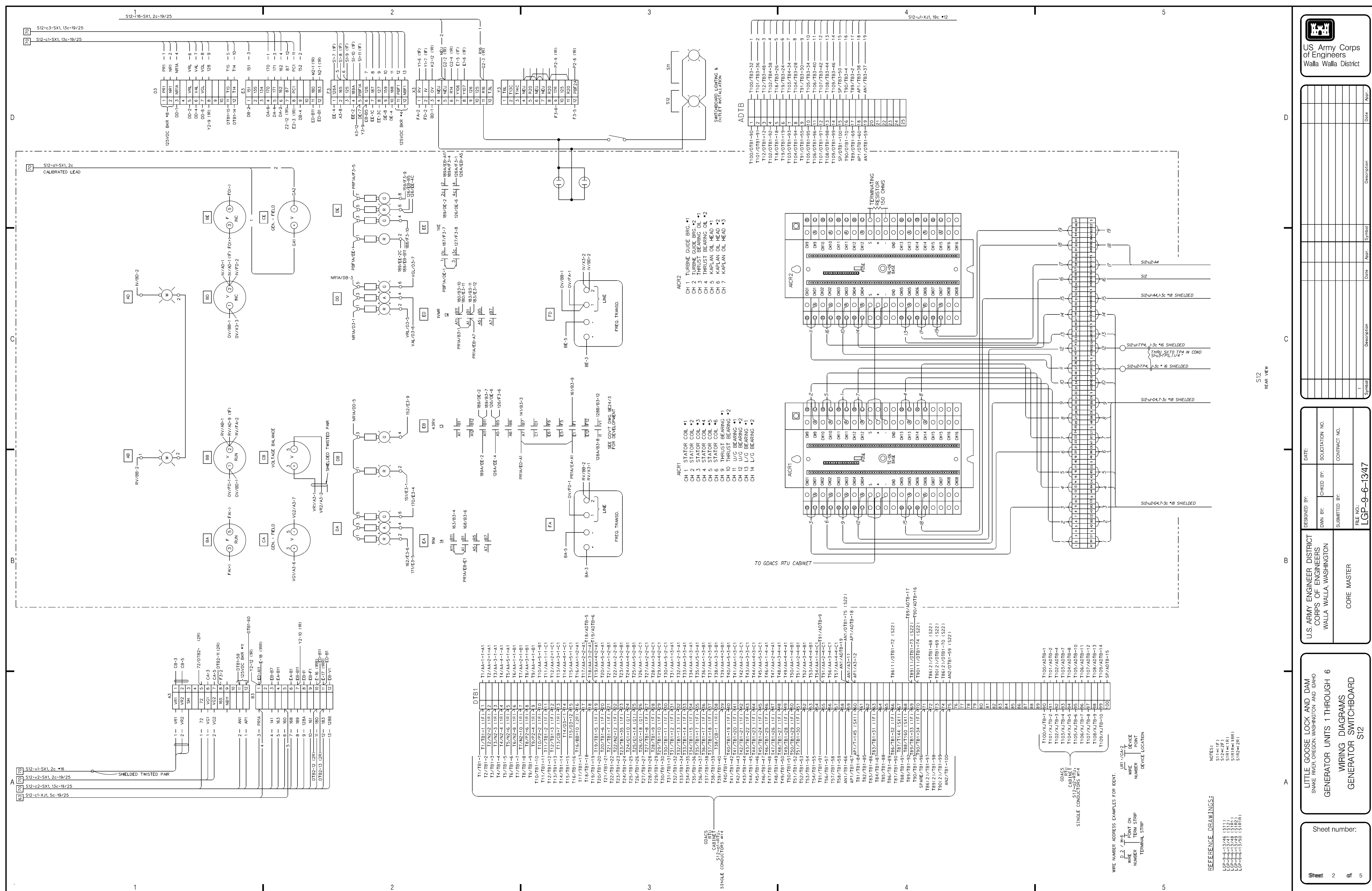
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCH
POWERHOUSE UNITS 4-6 PIPING D
COMPRESSED AIR SYSTEM

SHEET ID

R-114

SHEET ID
R-115

LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
WIRING DIAGRAMS
GENERATOR SWITCHBOARD
S12

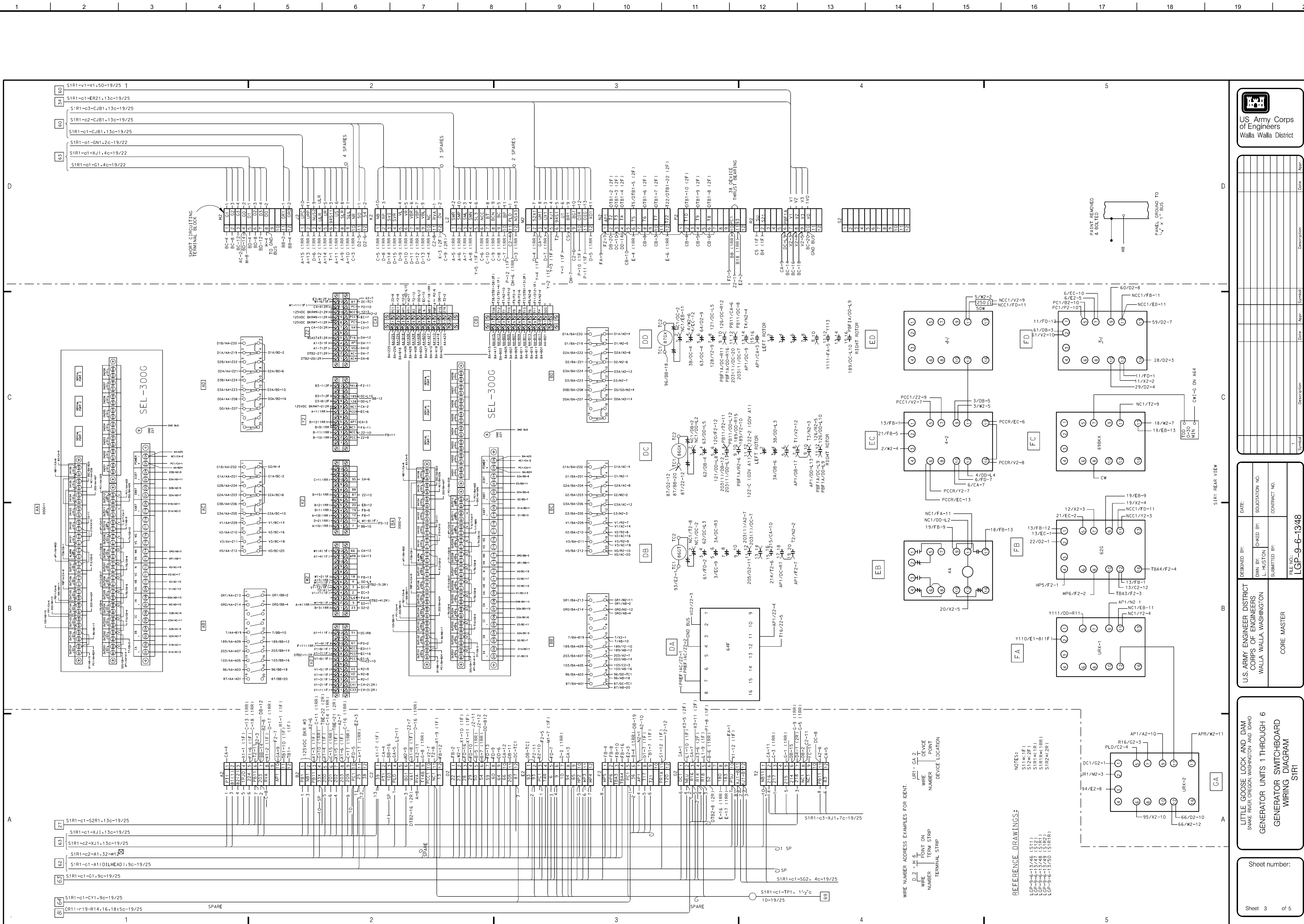


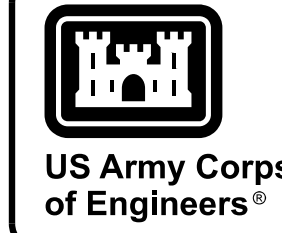
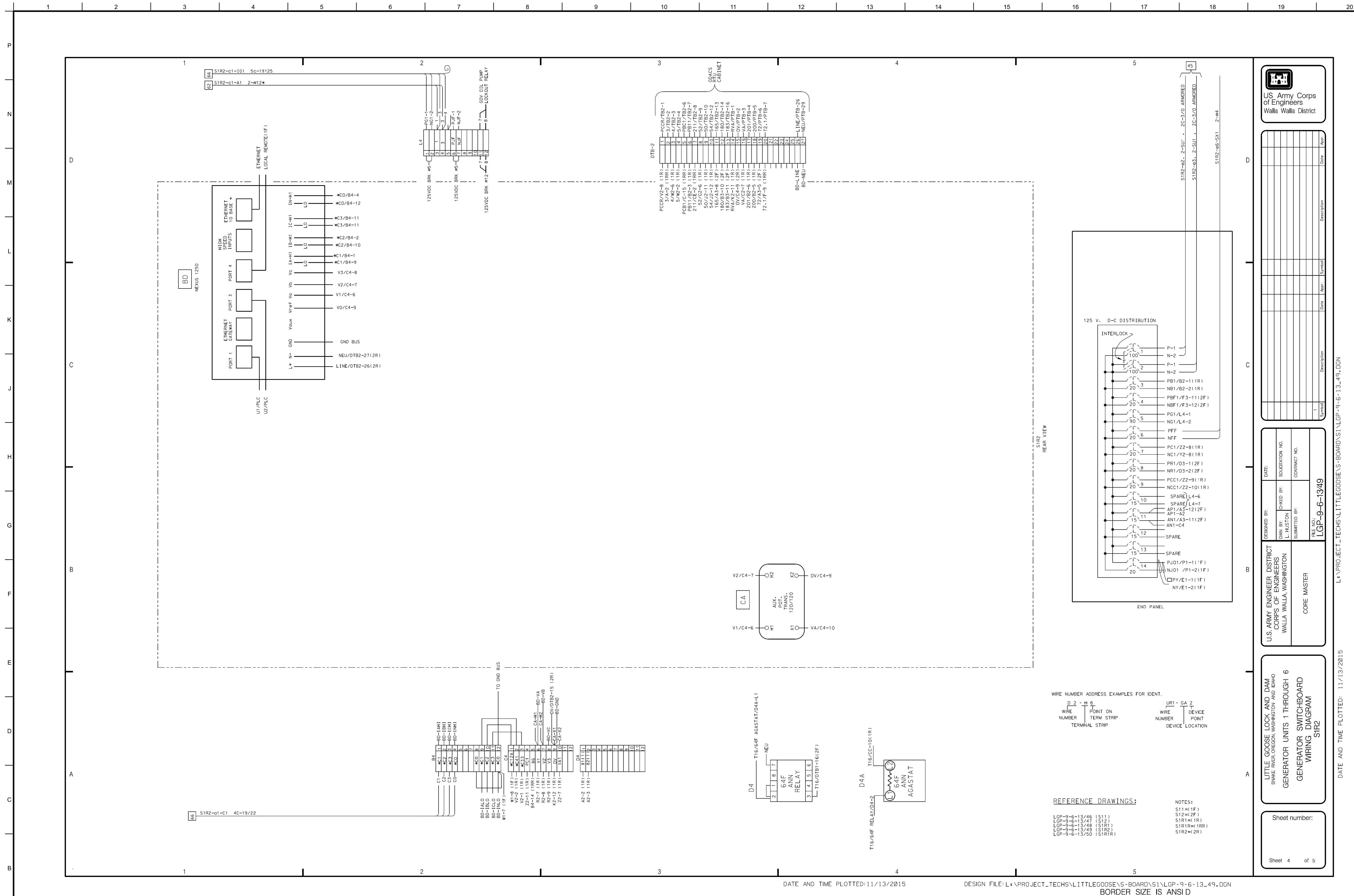
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	SOLICITATION NO.:
	W912EF22R0001
	CONTRACT NO.:
	DRAWING NUMBER:

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WALLA WALLA
201 NORTH
SEATTLE, W

SHEET ID

R-116



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U.S. ARMY CORPS OF ENGINEERS WALLA WALLA DISTRICT 201 NORTH 3RD AVENUE SEATTLE, WASHINGTON	DESIGNED BY:	ISSUE DATE: AUGUST 2022
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	SUBMITTED BY:	DRAWING NUMBER:
	SIZE:	FILENAME: R-117.dgn

LITTLE GOOSE LOCK AND DAM

POWERHOUSE

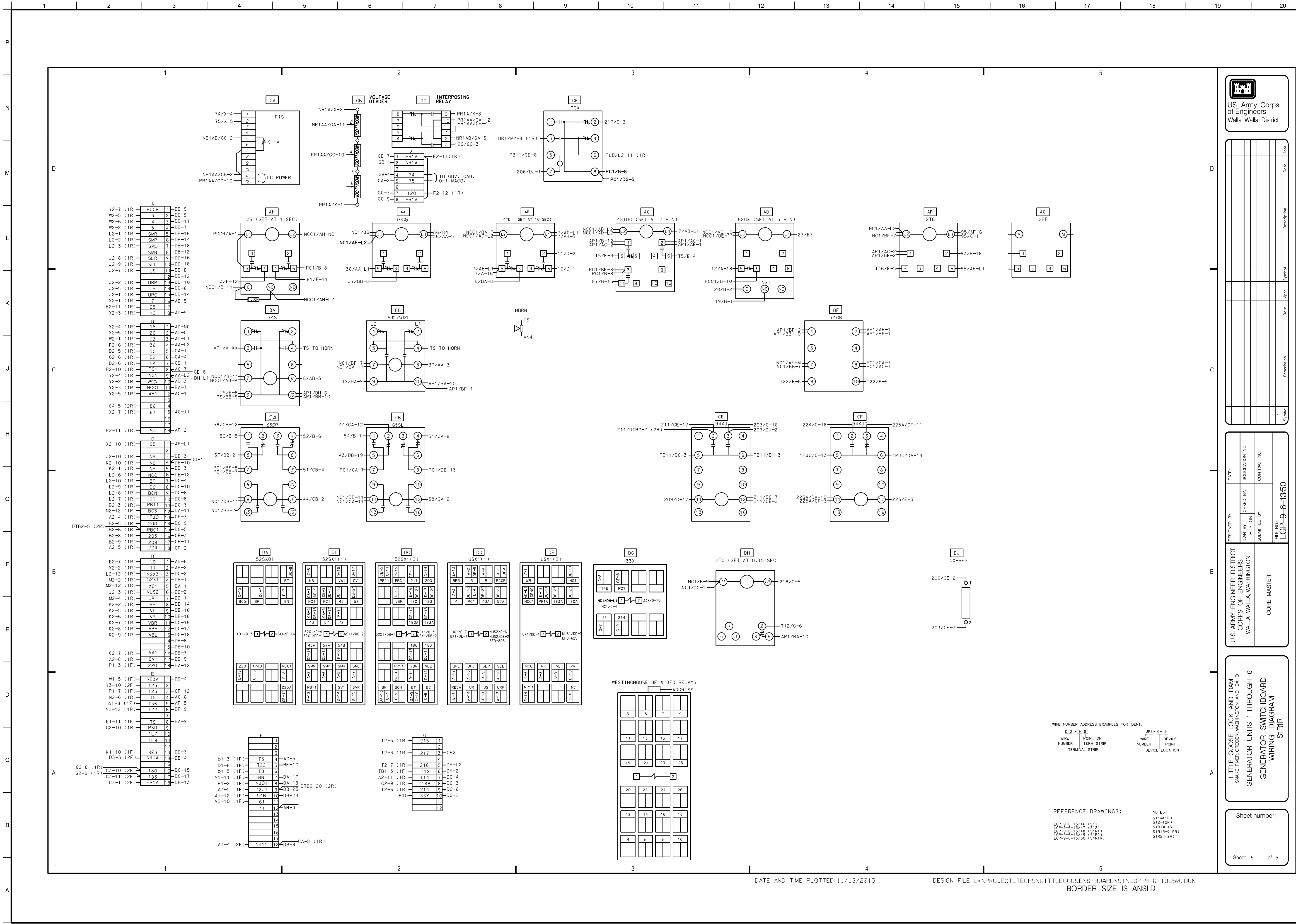
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR

GENERATOR UNITS 1 THROUGH 6

GENERATOR SWITCHBOARD DIAGRAM

S1R2

SHEET ID
R-117



LITTLE GOOSE LOCK AND DAM

POWERHOUSE

DC SYSTEM AND LOW VOLTAGE SWITCHGEAR

GENERATOR UNITS 1 THROUGH 6

GENERATOR SWITCHBOARD WIRING DIAGRAM

S22

SHEET ID

R-119

R-122

US Army Corps
of Engineers
Walla Walla District

Sheet 5 of 5

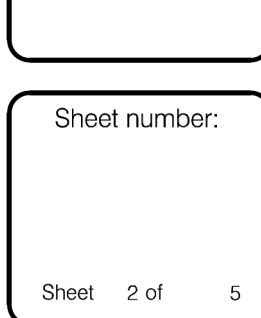
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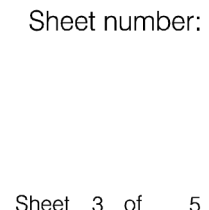
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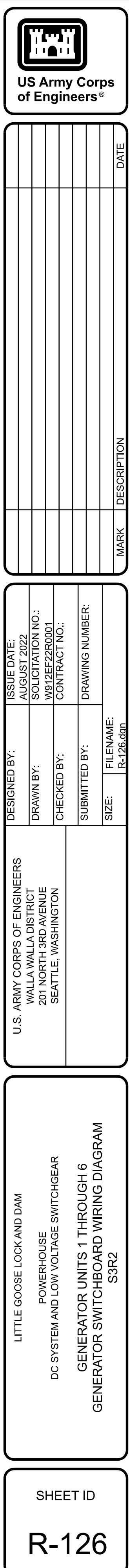
LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
WIRING DIAGRAMS GENERATOR SWITCHBOARD
S32



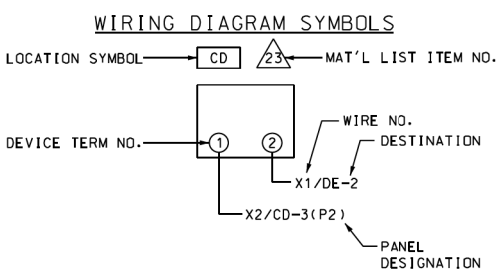
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LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD WIRING DIAGRAM
S3R1 REAR PANEL



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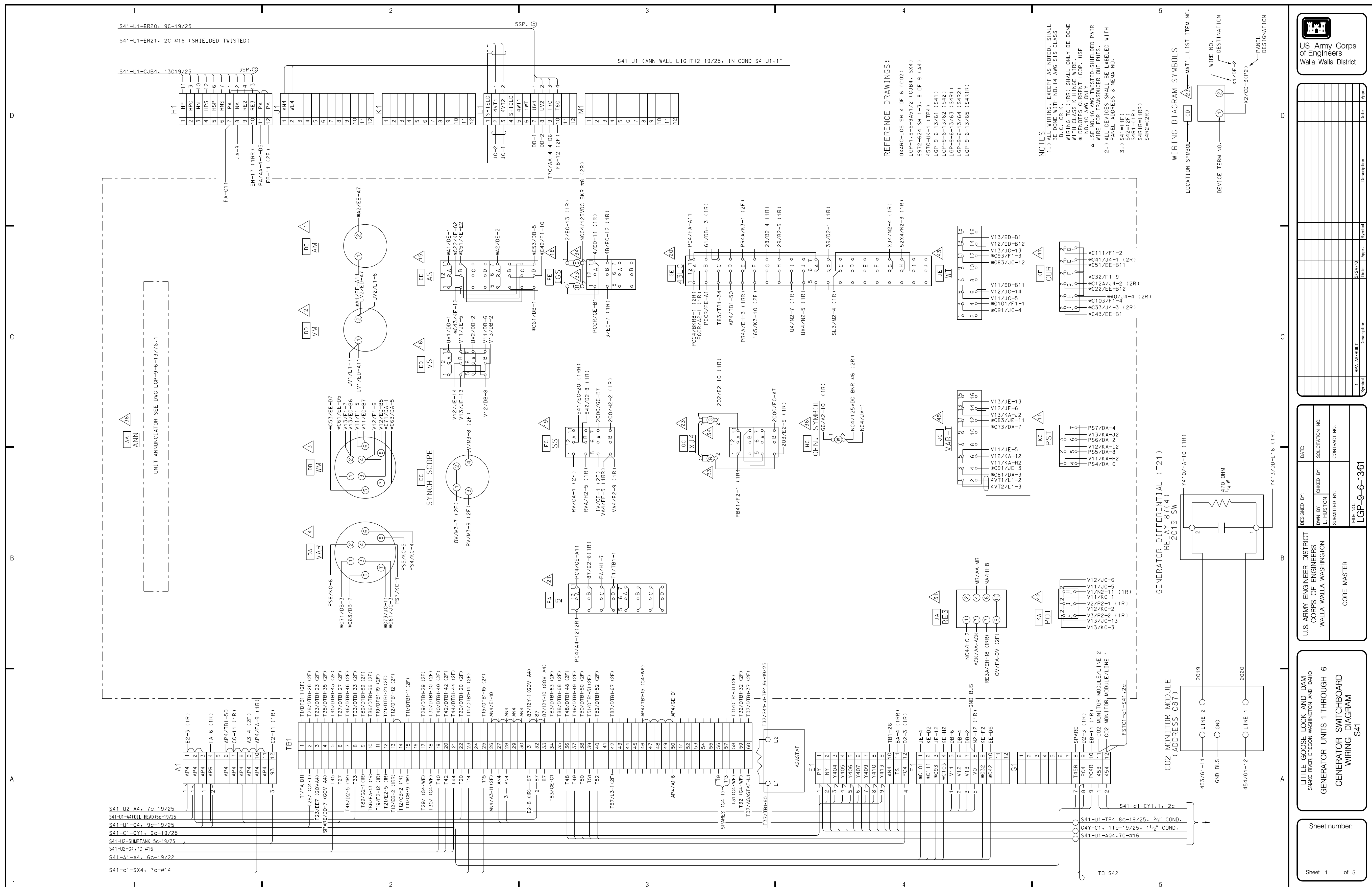
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	SIZE:	DRAWING NUMBER:
		FILENAME: R-128.dgn

LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD WIRING DIAGRAM

SHEET ID

R-128

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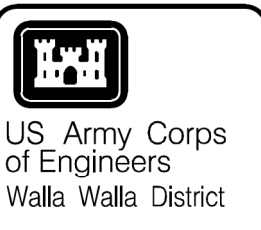


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US Army Corps
of Engineers
Walla Walla District

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LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD
WIRING DIAGRAM
C40

Sheet number:

Sheet 2 of 5

DATE AND TIME PLOTTED: 11/13/2015
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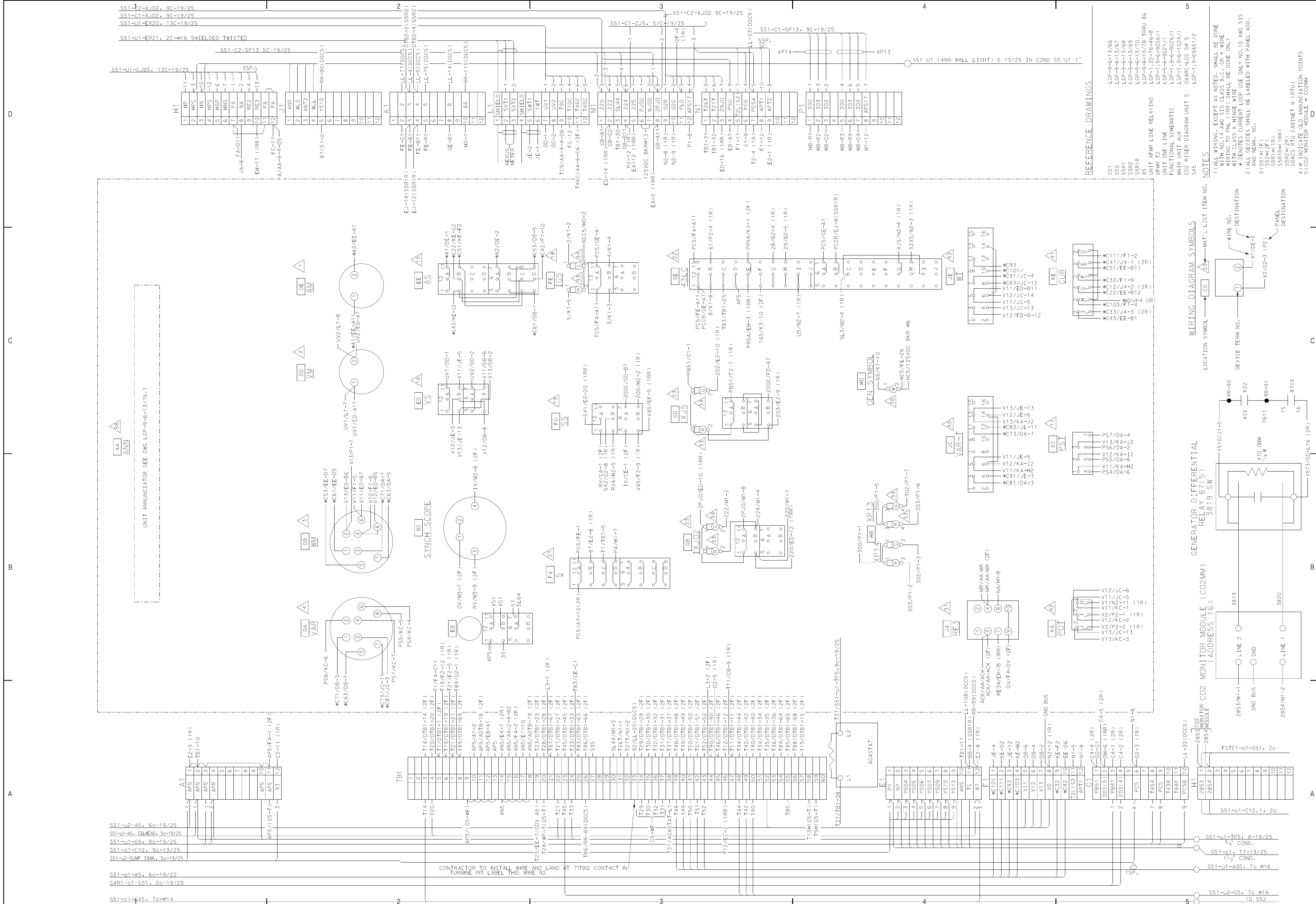
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	CHECKED BY:	W012E/22B0001
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LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD WIRING DIAGRAM
PANEL S51



Sheet number:

Sheet 1 of 5



US Army Corps
of Engineers
Walla Walla District

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CORE MASTER	SUBMITTED BY:		CONTRACT NO.
	FILE NO. LGP 9-6-1366		

LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO

GENERATOR UNITS 1 THROUGH 6

GENERATOR SWITCHBOARD
WIRING DIAGRAM

PANEL S51

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DATE AND TIME PLOTTED: 2/27/2017

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R-135

LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD WIRING DIAGRAM
SSR#1



DATE AND TIME PLOTTED:12/13/2016

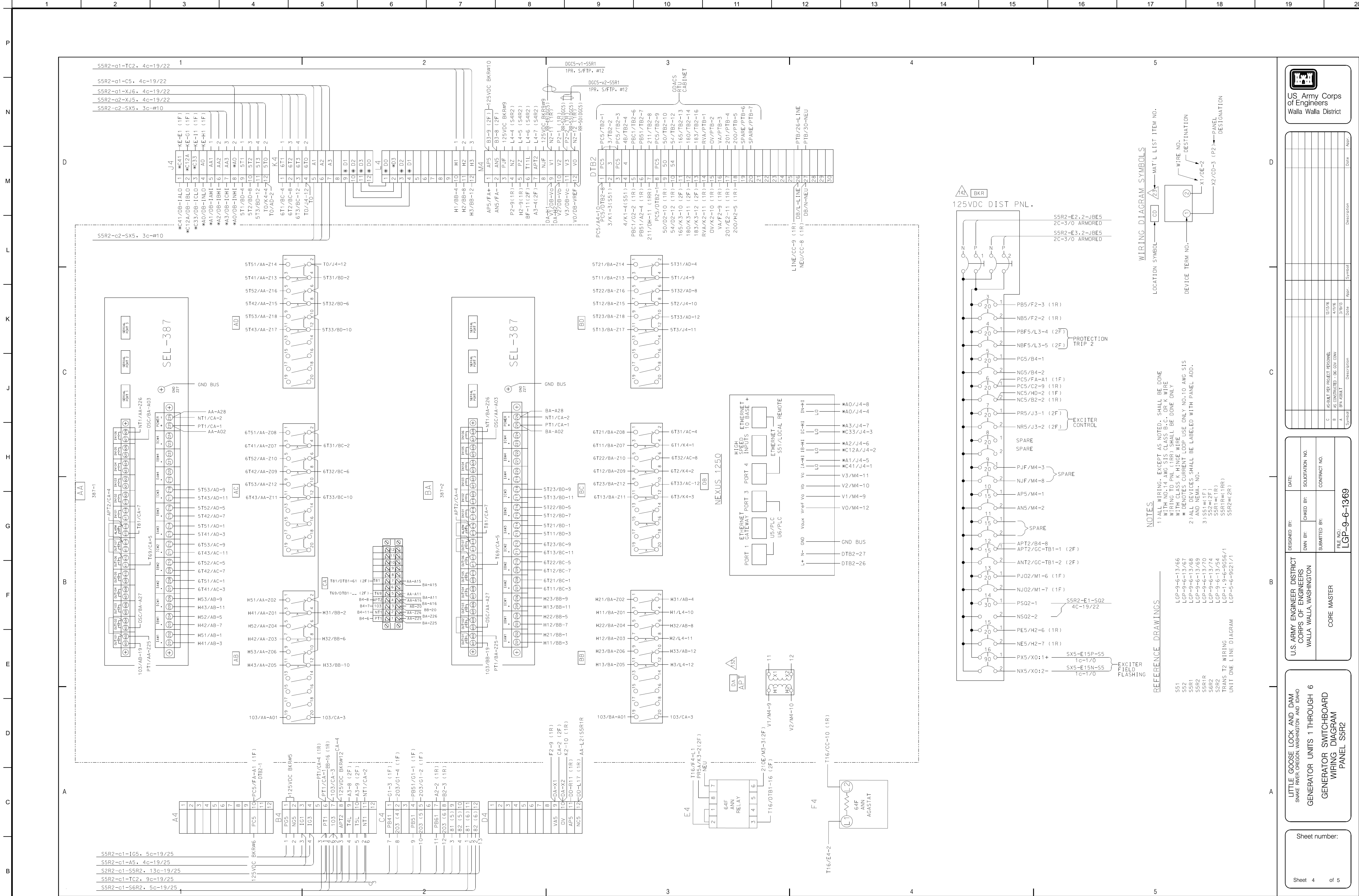
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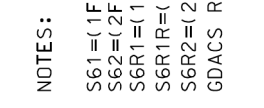


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LITTLE GOOSE LOCK AND DAM
SNAKE RIVER, OREGON, WASHINGTON AND IDAHO
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD
WIRING DIAGRAM
S62

Sheet number:

Sheet 2 of 5

LITTLE GOOSE LOCK AND DAM
POWERHOUSE
DC SYSTEM AND LOW VOLTAGE SWITCHGEAR
GENERATOR UNITS 1 THROUGH 6
GENERATOR SWITCHBOARD WIRING DIAGRAM
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