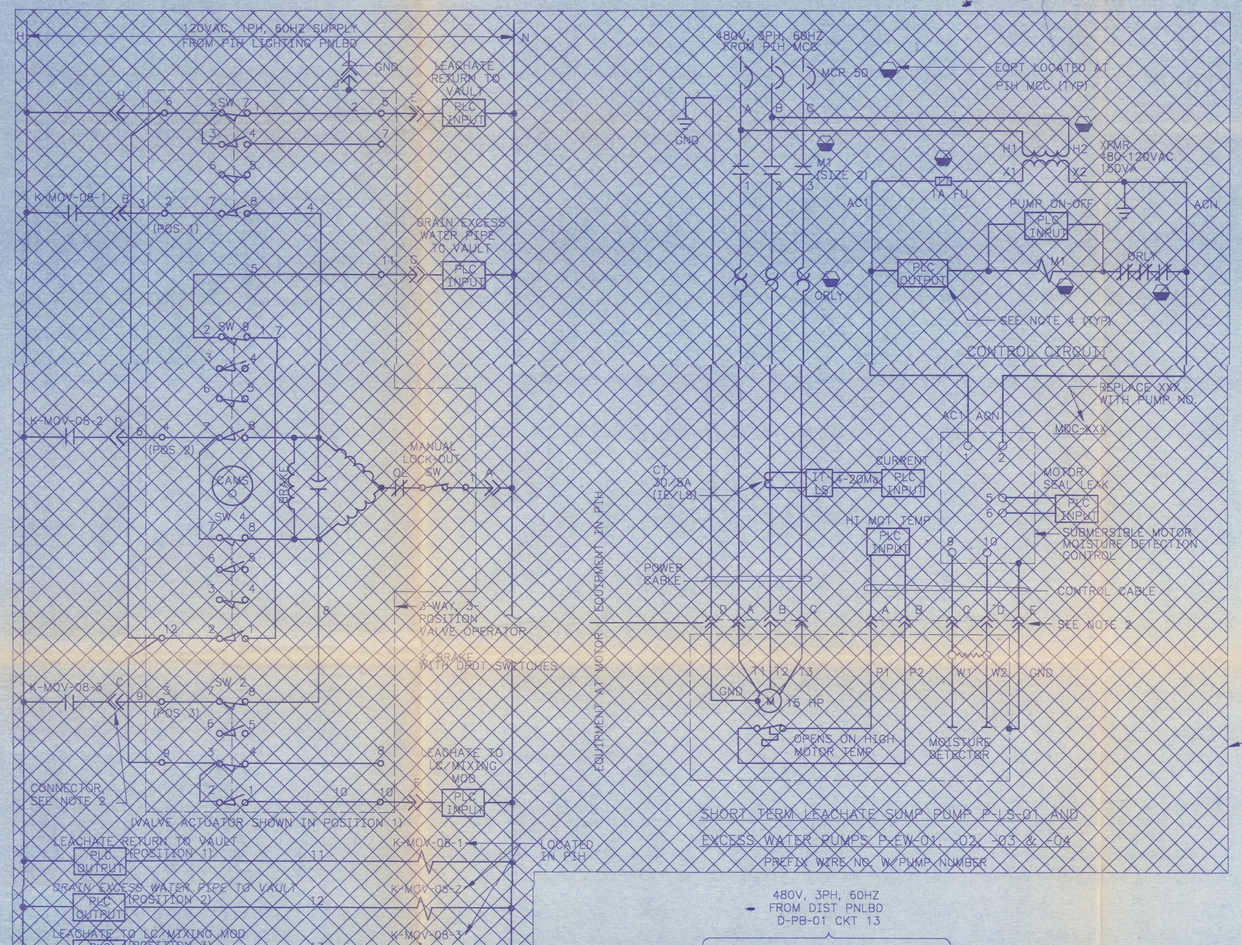
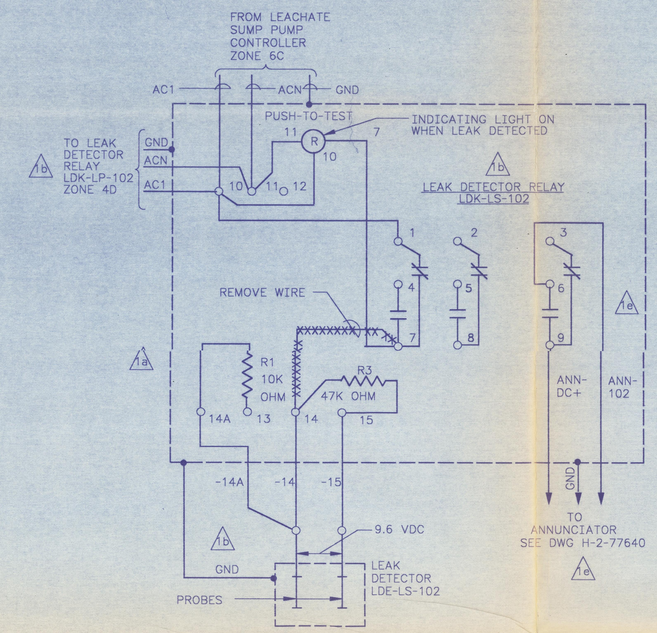
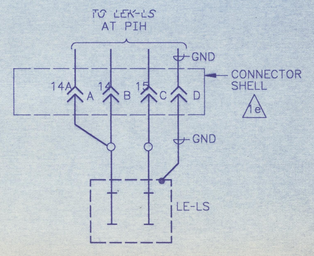


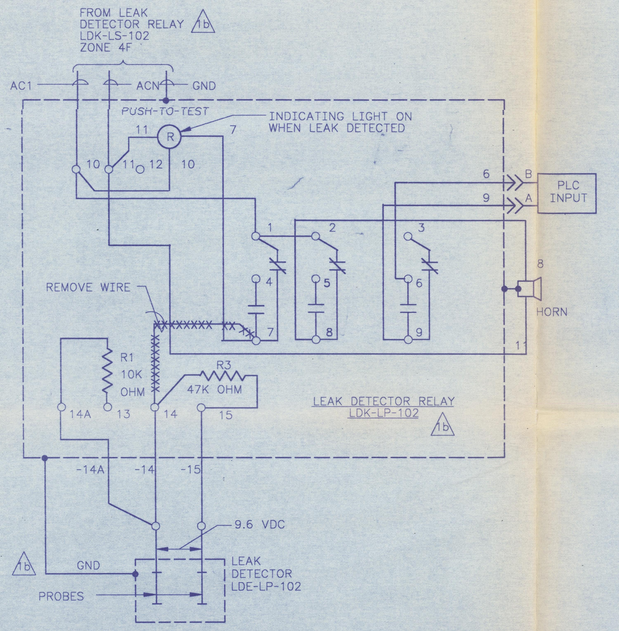


LEACHATE SUMP LEAK DETECTION CONNECTION DIAGRAM
(PREFIX PROBE WIRE NUMBERS WITH LDK-LS-102)



LEACHATE SUMP HIGH-HIGH LEVEL DETECTION CONN DIAG
(PREFIX WIRE NUMBERS W/LEK-LS)

SEE DWGS H-2-80976 & H-2-80978 FOR WIRING DIAGRAMS



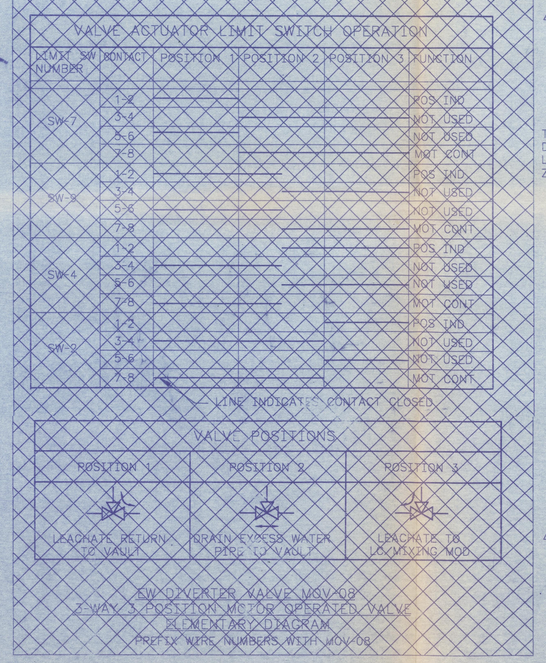
LEACHATE PIT LEAK DETECTION CONNECTION DIAGRAM
(PREFIX WIRE NUMBERS WITH LDK-LP-102)

ABBREVIATIONS:

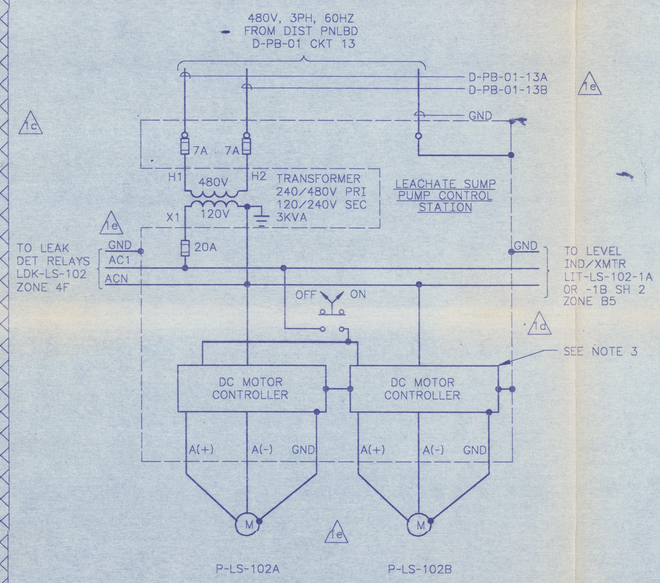
PLC - PROGRAMMABLE LOGIC CONTROLLER (LOCATED IN PIH)
MCP - MOTOR CIRCUIT PROTECTOR
CLF - CURRENT LIMITING FUSE

NOTES:

1. ABBREVIATIONS ARE PER ANSI Y1.1 AND DRAWING H-2-77618, SHEET 1, UNLESS OTHERWISE NOTED.
2. FOR CONNECTOR AND CABLE CONNECTIONS SEE CONNECTOR SCHEDULE DWG H-77642 SH 1 & 2 .
3. LONG TERM LEACHATE SUMP PUMPS P-LS-102A & P-LS-102B AND P-LS-103A & P-LS-103B; TO BE TURNED ON AND HAVE THE SPEED OF THE TWO RESPECTIVE PUMPS SYNCHRONIZED PRIOR TO INSTALLATION IN THE SUMP. AFTER INSTALLATION THEY ARE TO BE SIMULTANEOUSLY OPERATED WITH THE COMMON ON/OFF SWITCH.
4. FOR PLC PROGRAMMING SEE P&ID DWG H-2-77618 SH 2.



EW DIVERTER VALVE MOV-08
2-WAY 3 POSITION MOTOR OPERATED VALVE
ELEMENTARY DIAGRAM
PREFIX WIRE NUMBERS WITH MOV-08



LONG TERM LEACHATE SUMP PUMPS
P-LS-102A & P-LS-102B
ELEMENTARY DIAGRAM
(PREFIX WIRE NUMBERS WITH PUMP NUMBERS)

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
Reviewing Official/ADC
Kaiser Engineers Hanford Company
10-26-90
Date

JAN 1991 RECEIVED EDMC

12-12-90
Rev 1

IMPACT LEVEL 2
EDT #102073

WHC APPROVAL	DATE	U.S. DEPARTMENT OF ENERGY RICHLAND OPERATIONS OFFICE
BY SR BRIGGS	12-28 1988	KAISER ENGINEERS HANFORD COMPANY
PROJ ENGR JD CLOUD	12-28 1988	M ELECTRICAL ELEM & CONN DIAG VAULT 102
QA JE BREED	7-14 1988	
APPROVED BY RM ITEN	7-13 1988	
SAFETY D PARTHREE	7-11 1988	
APPROVED BY WC C SUBLETT	7-11 1988	PROJECT TITLE: GROUT VAULT PAIR 218-E-16-102 & 103
CHECKED BY RJ HARMAN	6-23 1988	
DRAWN BY JL BRINKLEY	1-11 1988	PROJ B-714 / WO ER1060 / JOB 242500
DESIGNED BY WC ATKINS	1-6 1988	SCALE NONE / BLDG 218-E-16 / INDEX 7302,8002
CAD FILE B077636A		DRAWING NUMBER H-2-77636 / SHEET 1 / OF 4 / REV 1
CAD CODE 2J:SUN:ACD2:9.0:NN		

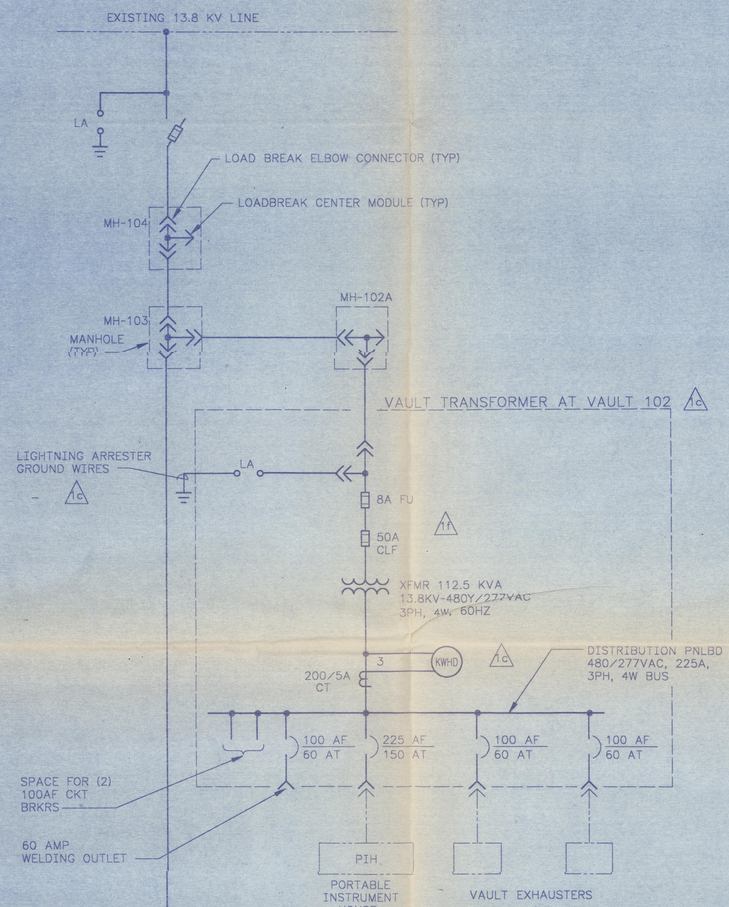
REV	BY-DATE	BY-DATE	REV BY DATE	DESCRIPTION	REV
M			TEC 6/5/90	e)B-714-53,ZC5,D3,E2-3,D4 d)B-714-24,ZE1-F2,B5 c)B-714-22,ZC1,C7-F8 b)B-714-17,ZC2,D3,F3-4 a)B-714-15,Z4E,8A THRU B-714-61 GEN: REV; INCORP ALL ECN'S	1

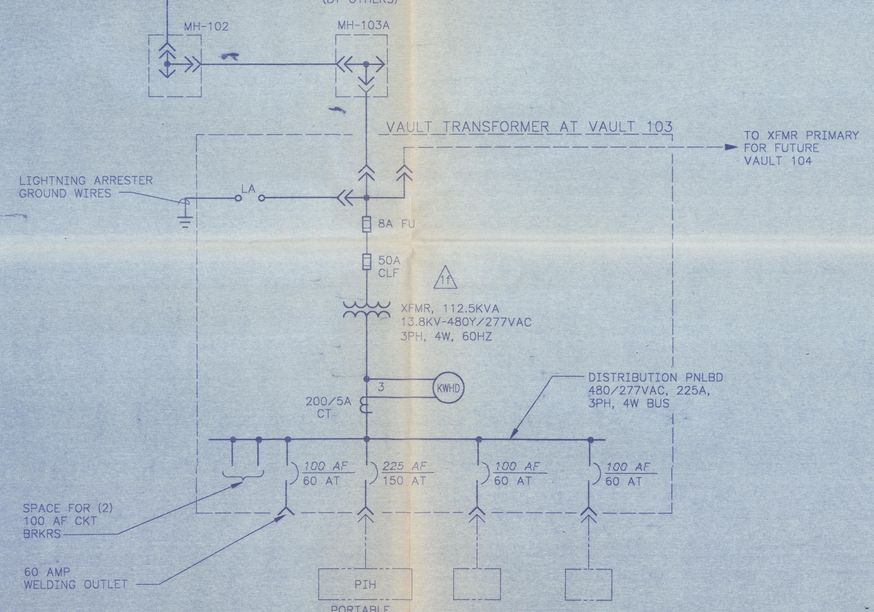
MICROFILMED: WHC APPROVAL — KEH APPROVAL — COMMENT REVIEW — REVISIONS

NUMBER	TITLE (DRAWING TRACEABILITY LIST)	NUMBER	TITLE (REFERENCES)	NEXT USED ON
		H-2-77573	DRAWING LIST	

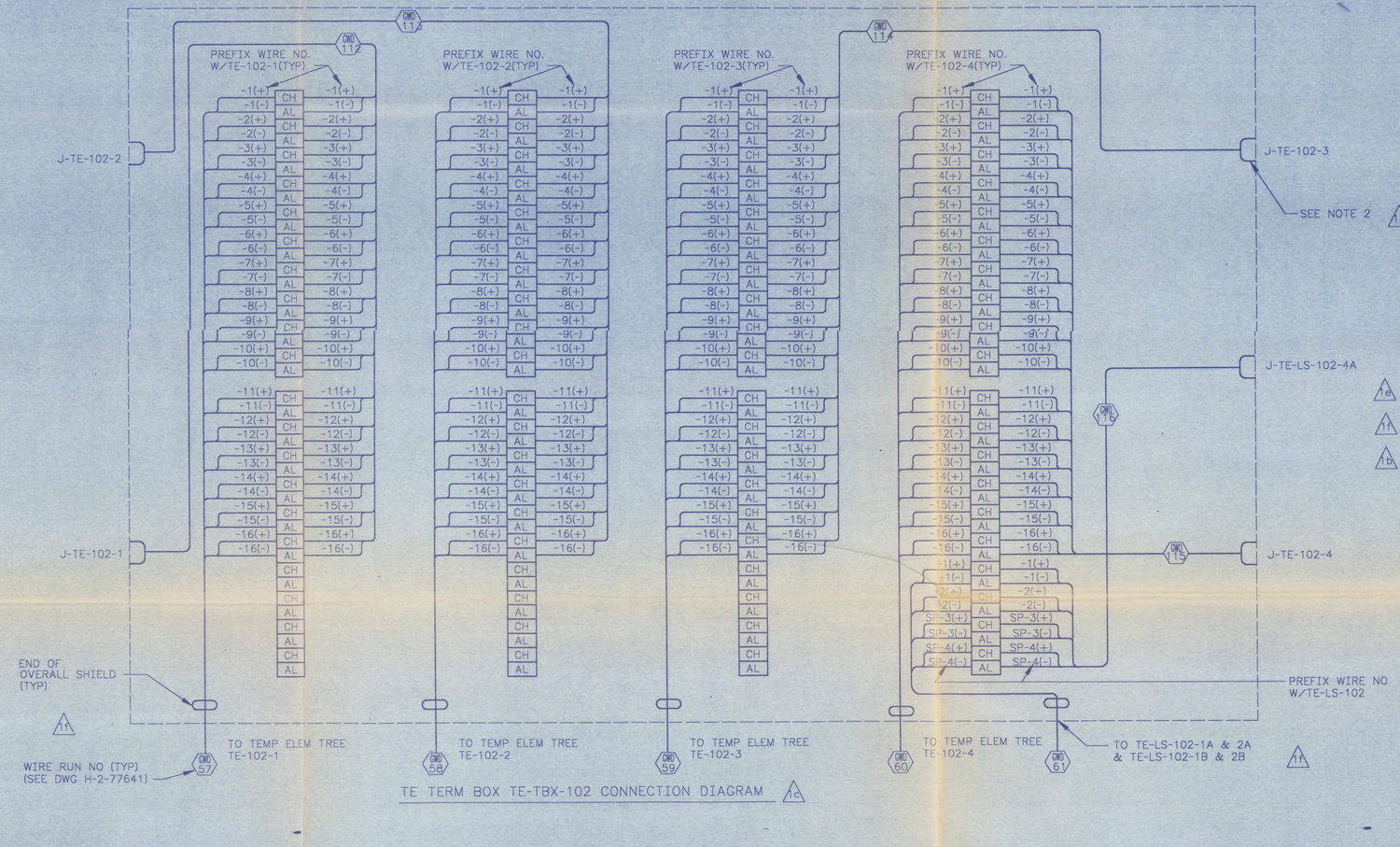
KEHCAD

0012504

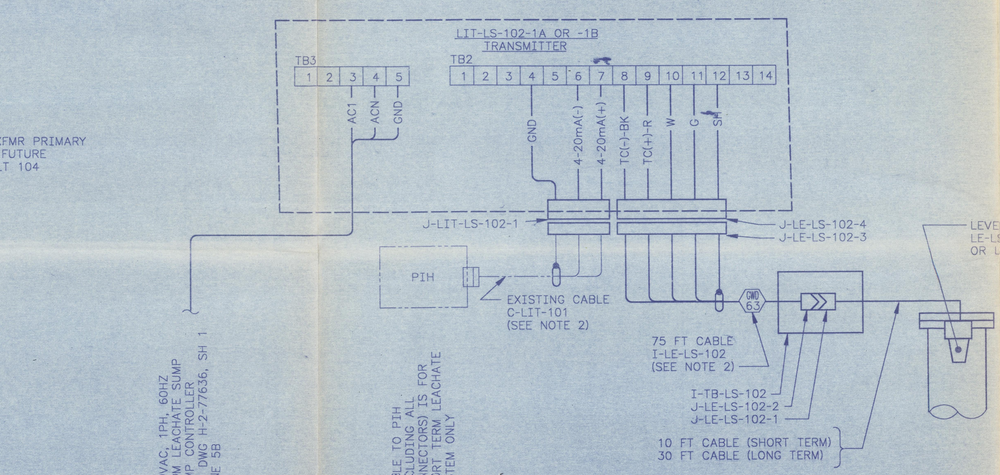




ONE LINE DIAGRAM



TE TERM BOX TE-TBX-102 CONNECTION DIAGRAM



LONG TERM AND SHORT TERM LEACHATE LEVEL SYSTEM CONNECTION DIAGRAM

NOTES:

SEE SHEET 1 FOR NOTES AND ABBREVIATIONS.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Reviewing Official/ADC
Kaiser Engineers Hanford Company
11-26-90
Date

CHARLES L. SUBLETT — STATE OF WASHINGTON — 14518 — REGISTERED PROFESSIONAL ENGINEER
12-12-90
Rev 1

REV	DESCRIPTION
1	f)B-714-53,ZA-E7 d)B-714-24,ZA4; e)B-714-30,ZE1 c)B-714-17,ZB7-D7 a)B-714-10,ZF2; b)B-714-15,ZE2 THRU B-714-61 GENL REV; INCORP ALL ECN'S

RS M — 12/11/90 — BY-DATE WHC APPROVAL — BY-DATE KEH APPROVAL — TEC 6/6/90 REV BY DATE

MICROFILMED — COMMENT REVIEW

NUMBER	TITLE
	DRAWING TRACEABILITY LIST

NUMBER	TITLE	REFERENCES
	DRAWING LIST	
NEXT USED ON		

EDT# 102073 — IMPACT LEVEL 2

		DATE
WHC APPROVAL		
BY	SR BRIGGS	12-28-1988
PROJ ENGR	JD CLOUD	12-28-1988
QA	JE BREED	7-14-1988
APPROVED BY	RM ITEN	7-13-1988
SAFETY	D PARTHREE	7-11-1988
APPROVED BY WCA	C SUBLETT	7-11-1988
CHECKED BY	RJ HARMAN	7-11-1988
DRAWN BY	LS JONES	12-1-1988
DESIGNED BY	WC ATKINS	1-6-1988
CAD FILE	B077636B	
CAD CODE	2J:SUN:ACD2:10.0:NN	

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
KAISER ENGINEERS HANFORD COMPANY

M

ELECTRICAL ELEM & CONN DIAG VAULT 102

PROJECT TITLE: GROUT VAULT PAIR 218-E-16-102 &103

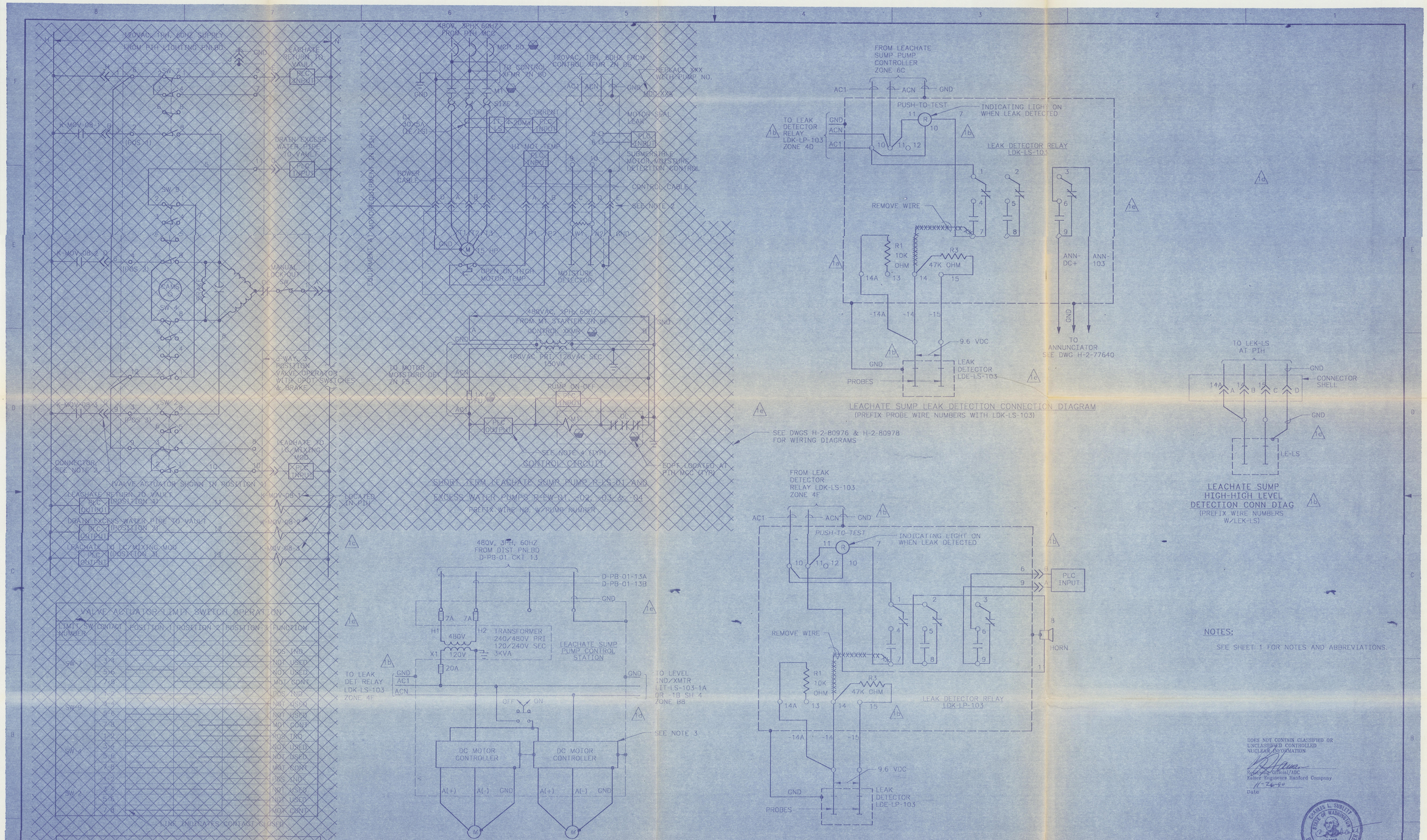
PROJ	WO	JOB
B-714	ER1060	242500

SCALE	BLDG	INDEX
NONE	218-E-16	7302,8002,7201

DRAWING NUMBER	SHEET	OF	REV
H-2-77636	2	4	1

KEHCAD

012504
2 of 4



NOTES:

SEE SHEET 1 FOR NOTES AND ABBREVIATIONS.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Responsible Official/ADC
Kaiser Engineers Hanford Company

Date 11-26-90

CHARLES L. SUBLETT — STATE OF WASHINGTON — 14518 — REGISTERED PROFESSIONAL ENGINEER

12-12-90
Rev 1

NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES

RS	REV NO	DESCRIPTION	BY	DATE	APPROVALS
M	1	E2-3,D3,D1 a)B-714-53,Z05,F6,A7-F8,C5, d)B-714-24,ZE1-F2,B5 e)B-714-22,ZC7-F8 b)B-714-17,ZE3,D3,C3-4,B4 a)B-714-15,Z4E,8A THRU B-714-61 GENL REV; INCORP ALL ECN'S	TEC 6/15/90	6-14-90	6-22-90 RH 8-8-90 RCH 10-11-90 JF 11/13/90 WHC

REVISIONS

CAD FILE B0776360 CAD CODE 2J:SUN:ACD2:9.0:NN

DRAWN	D ELLIOTT	DATE 12-20-1988
CHECKED	R HARMAN	12-20-1988
LEAD ENGR	WC ATKINS	12-20-1988
DISC MGR	C SUBLETT	12-20-1988
SAFETY	AG MINTSTER	12-20-1988
ENVIR	SC ASHWORTH	12-21-1988
QA	JE BREED	12-21-1988
REV-REP	JD CLOUD	12-23-1988
APPROVED FOR IMPLEMENTATION BY	SN BRIGGS	
FOR WHC	DATE 12-28-88	

IMPACT LEVEL 2 | EDT # 102073

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
KAISER ENGINEERS HANFORD COMPANY

M ELECTRICAL
ELEM & CONN
DIAG VAULT 103

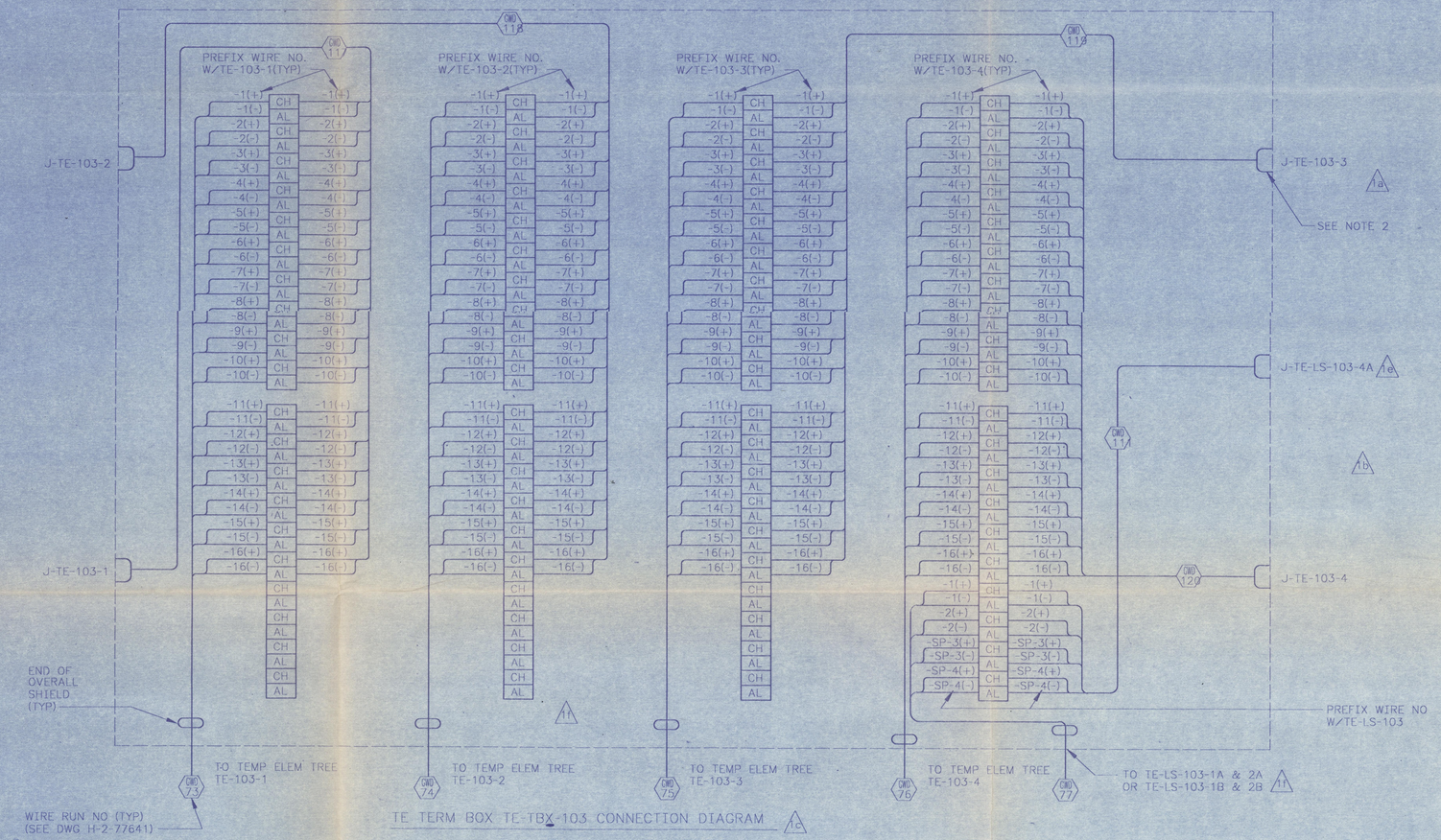
GROUT VAULT PAIR 218-E-16-102 & 103

SIZE	BLDG NO	INDEX NO	DWG NO	REV NO
F	218-E-16	7302 8002	H-2-77636	1

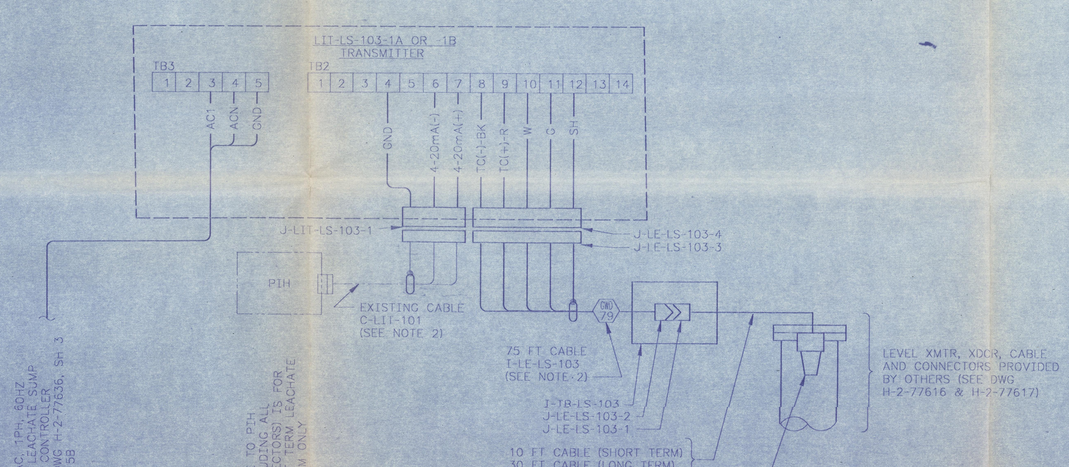
SCALE NONE | JOB NO ER9090 | SHEET 3 OF 4

KEHCAD

012504
3 of 4



TE TERM BOX TE-TBX-103 CONNECTION DIAGRAM



LONG TERM AND SHORT TERM LEACHATE LEVEL SYSTEM CONNECTION DIAGRAM

NOTES:

SEE SHEET 1 FOR NOTES AND ABBREVIATIONS.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Reviewing Official/ADC
Kaiser Engineers Hanford Company
11-26-90
Date

CHARLES L. SUBLETT
STATE OF WASHINGTON
14516
REGISTERED PROFESSIONAL ENGINEER
12-12-90
REV 1

REV NO.	DESCRIPTION	BY	DATE	APPROVALS
M RS 1	f)B-714-53,Z04-F8, e)B-714-30,ZD2 c)B-714-17; d)B-714-24,ZB7 a)B-714-10,ZE3; b)B-714-15,Z4D THRU B-714-61 GENL REV; INCORP ALL ECN'S	TEC 6/5/90	11-26-90	JA 12-3-90 RH 12-4-90 TDH 12-11-90 JRI Bung 12/11/90 WHC

REVISIONS

CAD FILE B077636D CAD CODE 2J:SUN:ACD2:10.0:NN

DRAWN	D ELLIOTT	DATE
CHECKED	R HARMAN	12-20 1988
LEAD ENGR	WC ATKINS	12-20 1988
DISC MGR	C SUBLETT	12-20 1988
SAFETY	AG MINISTER	12-20 1988
ENVIR	SC ASHWORTH	12-21 1988
QA	JE BREED	12-21 1988
MECH REP	JD CLOUD	12-28 1988
APPROVED FOR IMPLEMENTATION BY	SR BRIGGS	
FOR	WHC	DATE 12-28-88

IMPACT LEVEL 2 EDT # 102073

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
KAISER ENGINEERS HANFORD COMPANY

M ELECTRICAL
ELEM & CONN
DIAG VAULT 103

PROJECT GROUT VAULT PAIR 218-E-16-102 & 103

SIZE	BLDG NO	INDEX NO	DWG NO	REV NO
F	218-E-16	7302, 8002	H-2-77636	1

SCALE NONE JOB NO. ER9090 SHEET 4 OF 4

KEHCAD

NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		REFERENCES	
		NEXT USED ON	

01050 4 of 4