

START

ENGINEERING CHANGE NOTICE

0025132

Page 1 of 10

1. ECN 167534

Proj. ECN B-714-134

2. ECN Category (mark one)		Supplemental <input checked="" type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedeure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>	Direct Revision <input type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>	
3. Originator's Name, Organization, MSIN, and Telephone No. T. E. Coyne, KEH, E6-42, 6-2564			4. Date 07-13-92	
5. Project Title/No./Work Order No. Grouted Waste Disposal Facilities, B-714/ER8007		6. Bldg./Sys./Fac. No. 218-E-16		7. Impact Level 3Q /SC-2
8. Document Number Affected (include rev. and sheet no.) SEE BLOCK 12		9. Related ECN No(s). NONE		10. Related PO No. N/A
11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. N/A	11c. Complete Installation Work N/A	11d. Complete Restoration (Temp. ECN only) N/A	
Cog. Engineer Signature & Date			Cog. Engineer Signature & Date	

12. Description of Change
 Block 8: H-2-77645, Sh 1, Rev 1
 H-2-77645, Sh 2, Rev 1
 H-2-77646, Sh 1, Rev 1
 H-2-77647, Sh 1, Rev 0
 Specification B-714-C2, Rev 1 (V-B714C2-003)

APPROVED FOR SC-3
 PUBLIC RELEASE
 10/22/92 D. Solis

 DESCRIPTION OF CHANGES ON SUCCEEDING PAGES



13a. Justification (mark one)	Criteria Change <input checked="" type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input checked="" type="checkbox"/>
Design Error/Omission <input type="checkbox"/>	Design Improvement <input checked="" type="checkbox"/>	As-Found <input checked="" type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details
 (CC - Item 1A, 1B, 1C1, 1D, 2B, 3A): WHC LOI #25 (#9253863, dated 05-21-92) & #26 (#9254726, dated 06-23-92). Delete Vault 101 Cathodic Protection requirements.

Continued on Page 3

14. Distribution (include name, MSIN, and no. of copies)	
<u>KEH DISTRIBUTION</u>	O. A. Halvorson R3-10
Const Doc Cntl E2-50	J. S. Hill [2] H4-57
	K. S. McCullough N1-83
<u>WHC DISTRIBUTION</u>	D. B. Powell [4] R4-03
Project Files R1-28	T. W. Staehr (PE) R3-27
J. K. Epperley R1-29	J. E. Vanbeek R3-27
T. K. Cordray S1-54	DOE
SMA 10 A3-87	A. G. Lassila A5-10
SIB 6 T2-03	

RELEASE STAMP	
OFFICIAL RELEASE BY WHC	
DATE	JUL 14 1992
LWPE GARZA LB76	

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ENGINEERING CHANGE NOTICE

15. Design Verification Required

Yes
 No

16. Cost Impact

ENGINEERING

Additional \$ 6390
Savings \$

CONSTRUCTION

Additional \$
Savings \$ TBD

17. Schedule Impact (days)

Improvement
Delay N/A

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number/Revision
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20. Approvals

	Signature	Date		Signature	Date
OPERATIONS AND ENGINEERING			ARCHITECT-ENGINEER		
Cog./Project Engineer	<i>M. Staechlin</i>	7-14-92	PE	<i>[Signature]</i>	7-13-92
Cog./Project Engr. Mgr.	<i>M. Staechlin for J.E. Van Bock</i>	7-14-92	QA	<i>B.R. Fillion</i>	7-13-92
QA	<i>J.K. Coarney</i>	7-14-92	Safety	<i>[Signature]</i>	7-13-92
Safety			Design	<i>ELEC: [Signature]</i>	7-13-92
Security			Other	<i>ENVIR: [Signature]</i>	7-13-92
Proj. Prog./Dept. Mgr.			PLE:	<i>[Signature]</i>	7-13-92
Def. React. Div.			CQA:	<i>[Signature]</i>	7-14-92
Chem. Proc. Div.					
Def. Wst. Mgmt. Div.			DEPARTMENT OF ENERGY		
Adv. React. Dev. Div.					
Proj. Dept.			ADDITIONAL		
Environ. Div.					
IRM Dept.					
Facility Rep. (Ops.)					
Other					

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Block 13b (Justification Details) continued:

- (FC - Item 3B): To save a large amount of excavation required to locate existing jumper, negative return cable will be routed directly to rectifier.
- (AF - Item 1C2): Anodes in GPF require relocation due to as found field conditions.
- (AF - Item 2A): Equipment locations do not match design drawings.
- (FC - Item 4): Tolerances are required to permit reasonable installation of anode.
- (DI - Item 5): Requirements of specification too restrictive for installation of cabling.

Block 12 (Description of Changes)

- 1) H-2-77645, Sh 1, Rev 1
- A) Plan: Delete the cathodic protection system between Anode Junction Box AJB(45-4) and Vault 101 & revise plan as shown on page 5 of this ECN.
- B) Connection Diagram: Modify as shown on page 6 of this ECN.
- C) Anode Location Table:
- Delete the following anodes and corresponding coordinates: A(45-11), A(45-12), A(45-13), A(45-14), A(45-15), A(45-16), A(45-17), A(45-18), A(45-19), A(45-20), & A(45-34).
 - Change the coordinates for the following anodes as indicated:
A(45-1) from W45920 to W45919
A(45-4) from N40444 W45908 to N40440 W45906.5
A(45-5) from N40425 to N40430
A(45-6) from N40427 W45876 to N40428 W45870
A(45-7) from W45855 to W45848
A(45-9) from N40532 W45840 to N40526 W45837
A(45-33) from W45889 to W45888
- D) Anode Junction Box Enclosure Location Table: Delete the following anode junction boxes and corresponding coordinates:
AJB(45-5), AJB(45-6), & AJB(45-7)
- 2) H-2-77645, Sh 2, Rev 1
- A) Plan (Z D6-7 & B6-7): Modify as shown on pages 7 & 8 of this ECN.
- B) Table: Modify as shown on page 10 of this ECN.

3) H-2-77646, Sh 1, Rev 1

A) Detail 1 (ZE-F7): Delete leader & loop (+NEL) & (+NE) wires and associated note "NORTHEAST LOOP TO AJB(45-5)".

B) Detail 4 (Z A7): Change conduit note from 3 # 2, ... (Wires (+), (+L), (-)) to "4 #2, ... [Wires (+), (+L), (-), (-)]".

4) H-2-77647, Sh 1, Rev 0

Detail 5 (Z C7-D8): Modify as shown on page 9 of this ECN.

5) Specification B-714-C2, Rev 1

Section 16640; paragraph 3.3.9.1c - Delete first sentence.

REGISTERED ENGINEER REVIEW - ELECTRICAL ONLY - ALL ITEMS



EXPIRES 5/30/95

9 1 1 2 1 1 2 0 0 7 8

Ref. Dwg.
H-2-77645

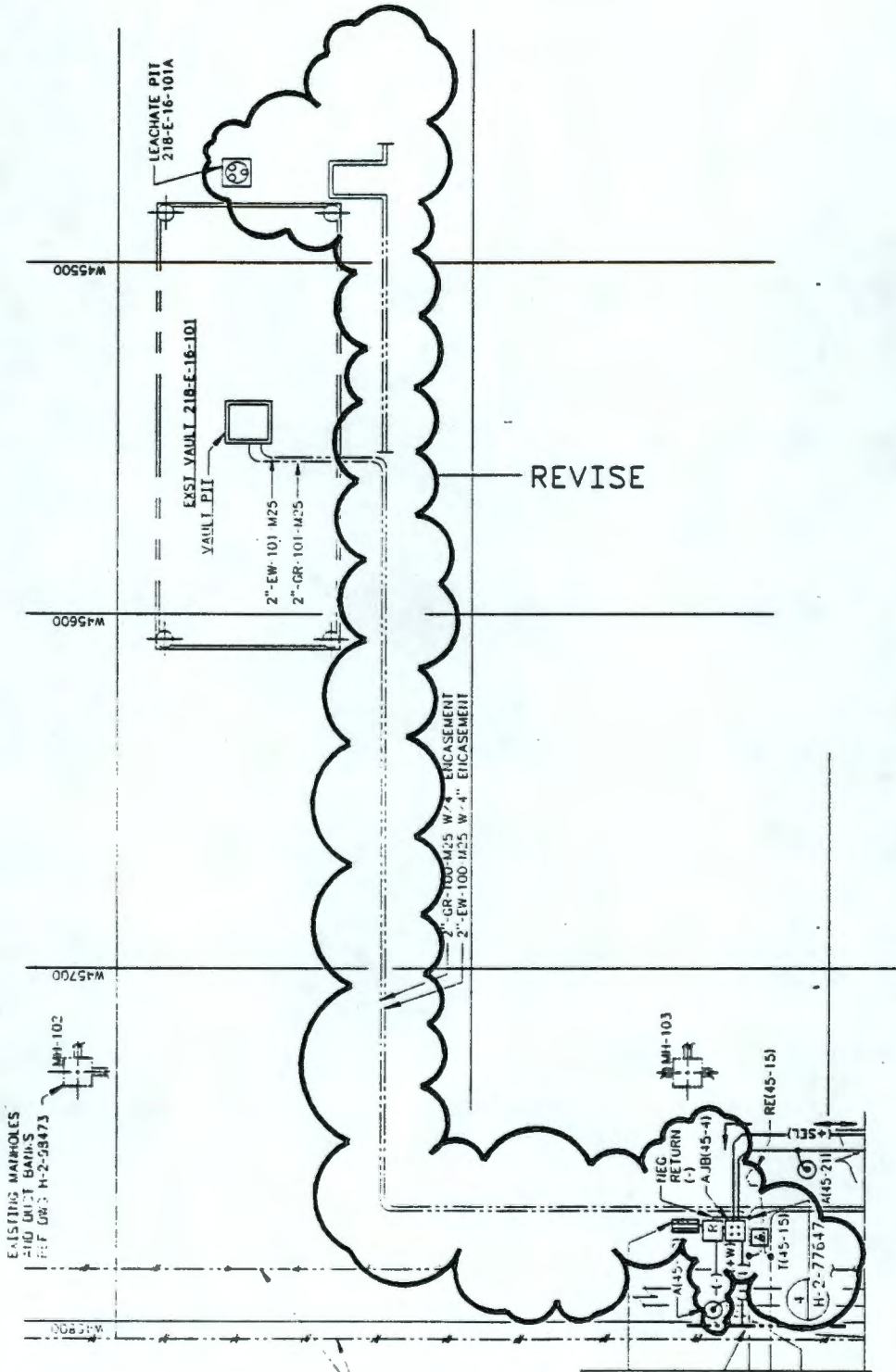
Sh.
1

Rev.
1
Prepared By
TE COYNE

Checked By
GPMcDonald

ECN No.
B-714-134

Page
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Ref. Dwg.
H-2-77645

Sh.
1

Rev.
1

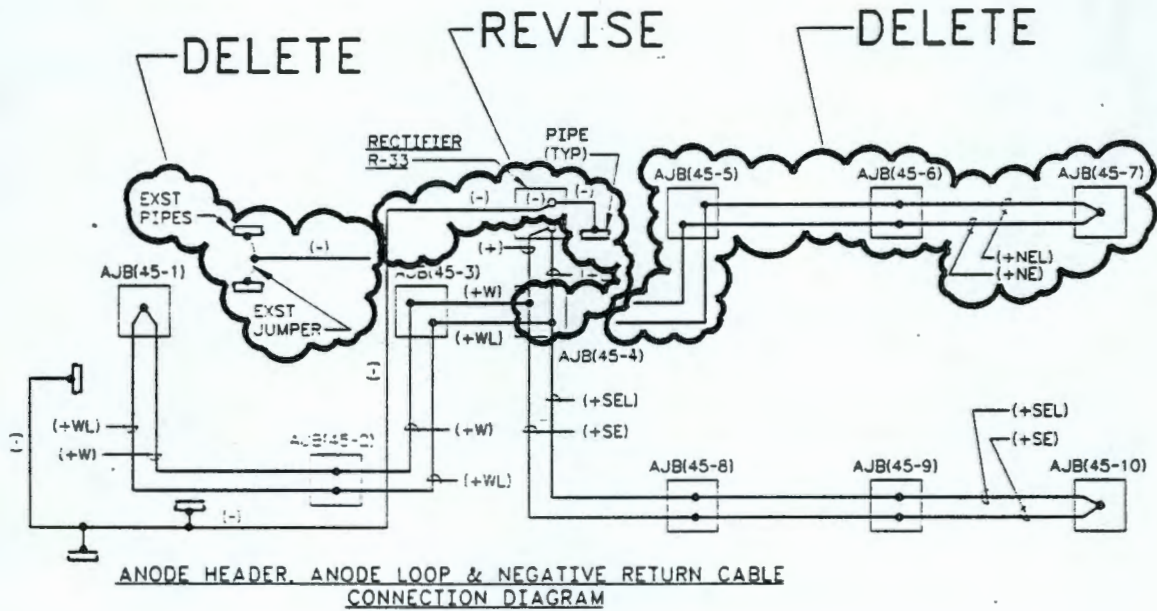
Prepared By
TE COYNE

Checked By
GPMcDonald

ECN No.
B-714-134

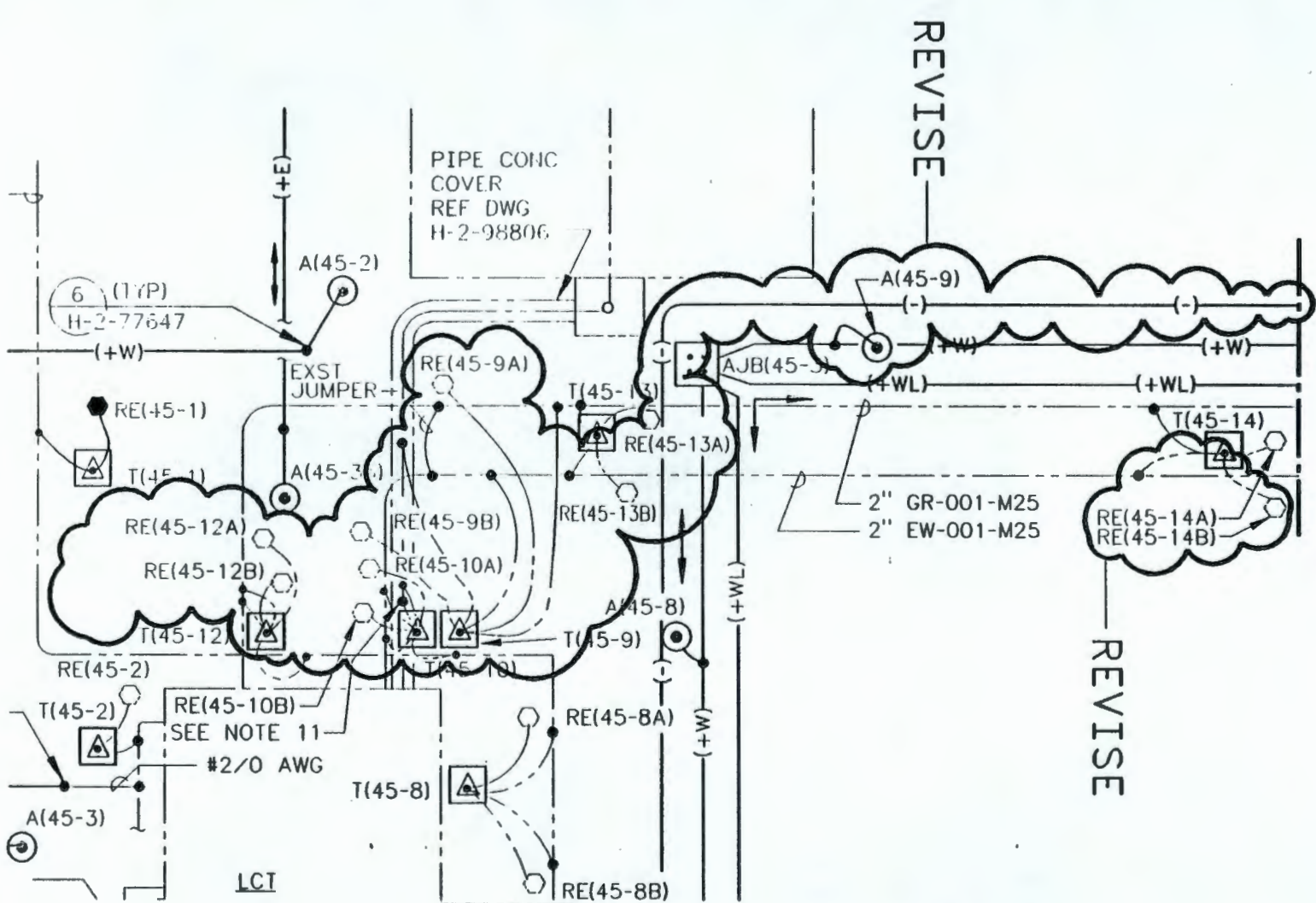
Page
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9 3 | 2 8 9 8 0 0 8 1

Kaiser Engineers HANFORD		ENGINEERING CHANGE NOTICE SKETCH	
Ref. Dwg. H-2-77645	Sh. 2	Rev. 1	Prepared By TE COYNE
Checked By <i>G.M. D... D</i>		ECN No. B-714-134	
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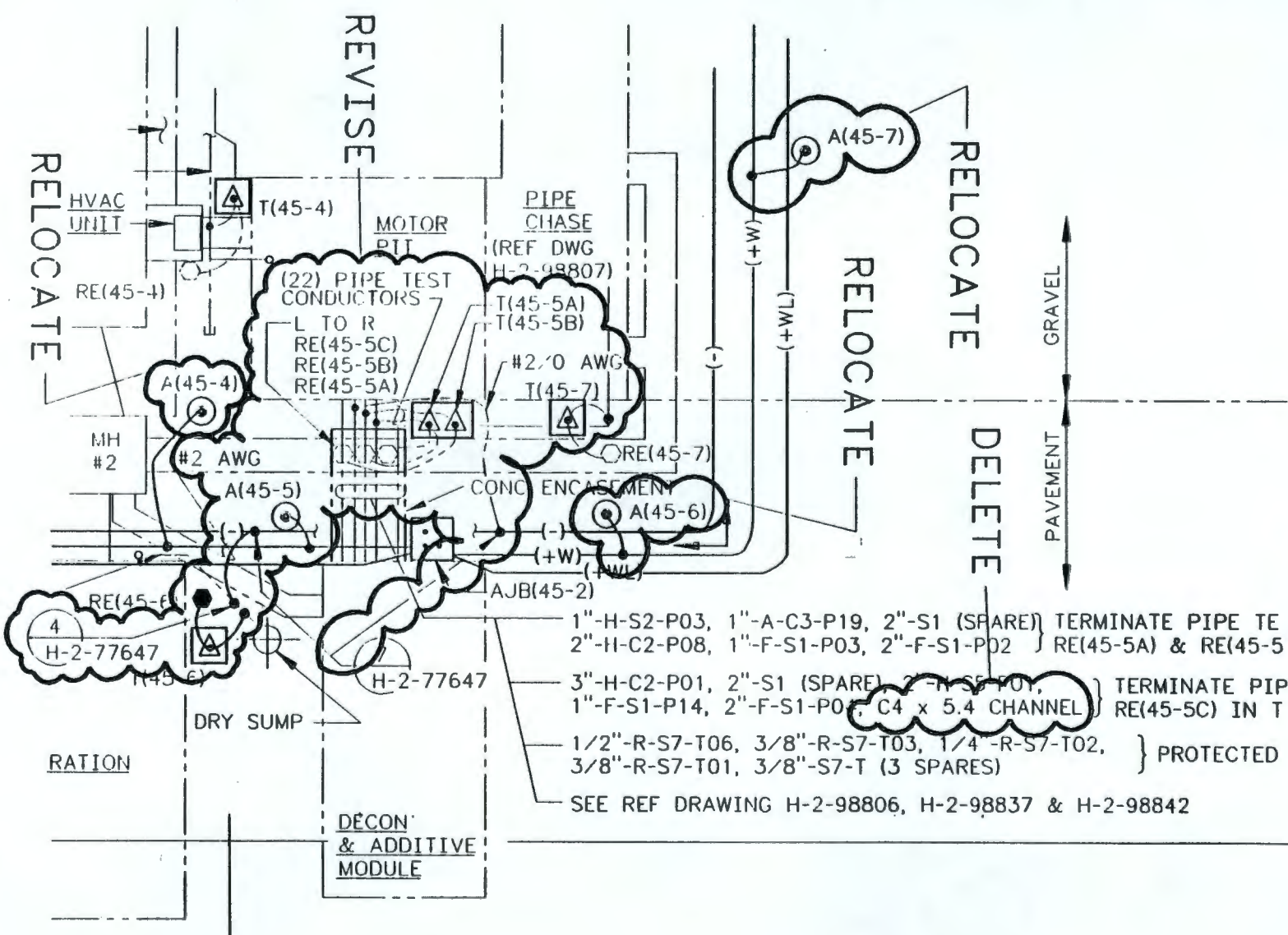


KEH-0159.00 (1/88) ACAO
B714/ECNTBS

KAISER ENGINEERS
HANFORD

ENGINEERING CHANGE NOTICE SKETCH

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- 1"-H-S2-P03, 1"-A-C3-P19, 2"-S1 (SPARE) } TERMINATE PIPE TE
- 2"-H-C2-P08, 1"-F-S1-P03, 2"-F-S1-P02 } RE(45-5A) & RE(45-5
- 3"-H-C2-P01, 2"-S1 (SPARE), 2"-H-S5-P01, } TERMINATE PIP
- 1"-F-S1-P14, 2"-F-S1-P04, C4 x 5.4 CHANNEL } RE(45-5C) IN T
- 1/2"-R-S7-T06, 3/8"-R-S7-T03, 1/4"-R-S7-T02, } PROTECTED
- 3/8"-R-S7-T01, 3/8"-S7-T (3 SPARES)
- SEE REF DRAWING H-2-98806, H-2-98837 & H-2-98842

Ref. Dwg.
H-2-77647

Sh.
1

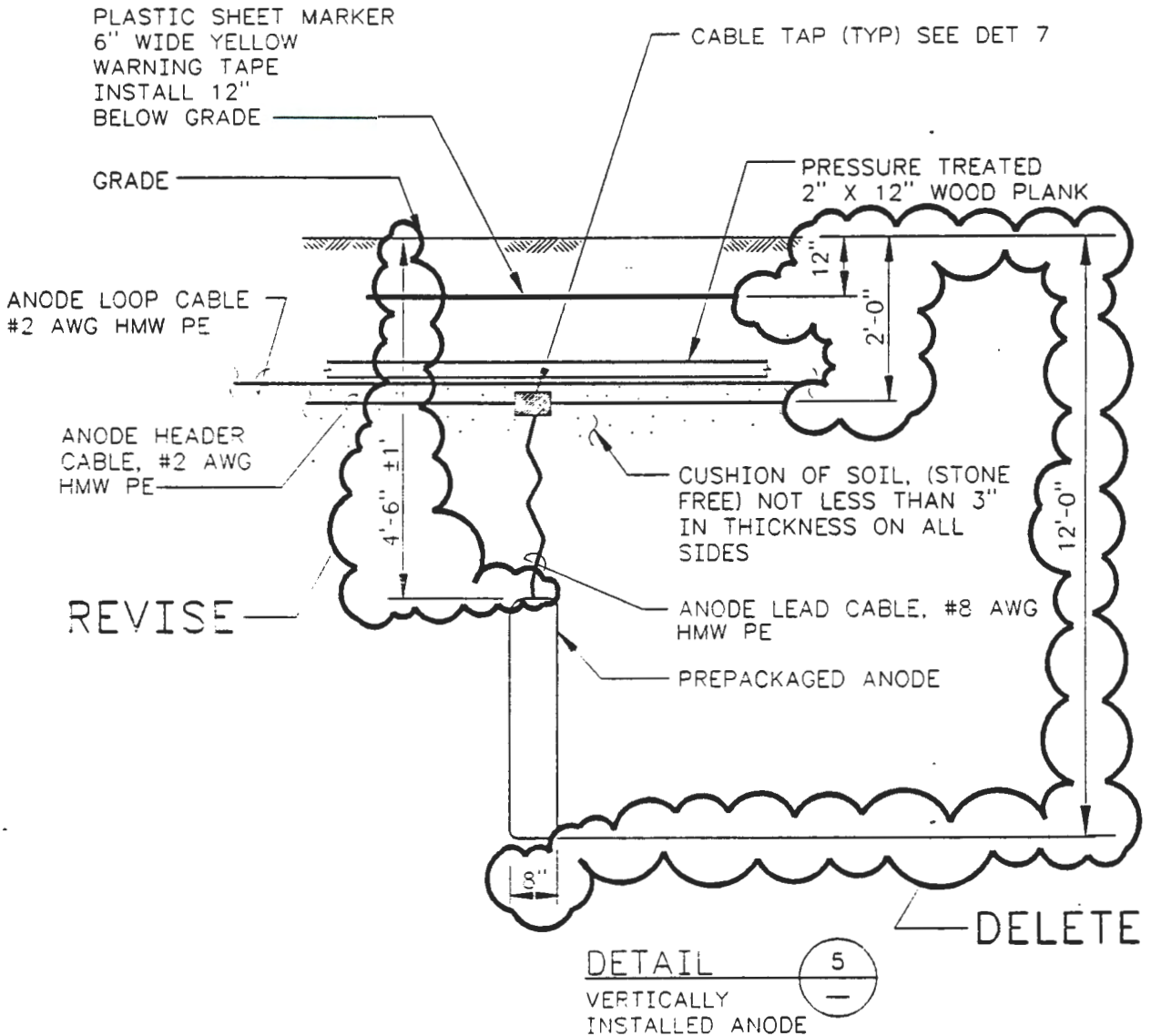
Rev.
0

Prepared By
TE COYNE

Checked By
GP McDonald

ECN No.
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9 1 1 9 0 0 0 3

9 1 1 2 3 1 0 3 4

KAISER ENGINEERS
HANFORD

ENGINEERING CHANGE NOTICE SKETCH

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1" S-C6-P02	VENTILATION	T(45-6)
8" S-C6-P02	VENTILATION	T(45-7), T(45-11)
4" x 2" GR-001-M25	GROUT DISCHARGE	T(45-9), T(45-12), T(45-13), T(45-14), T(45-15)
4" x 2" EW-001-M25	EXCESS WATER	T(45-9), T(45-10), T(45-13), T(45-14), T(45-15)
1" x 2" GR-10-M25	GROUT DISCHARGE (VAULT T02)	T(45-25), T(45-26), T(45-27), T(45-28), T(45-29)
1" x 2" EW-200-M25	EXCESS WATER (VAULT T02)	T(45-25), T(45-26), T(45-27), T(45-28), T(45-29)
LEACHATE TK 101 18" RISER PIPES	LEACHATE COLLECTION	T(45-24)
LEACHATE TK 101 4" RISER PIPE	LEACHATE COLLECTION	T(45-24)
LEACHATE TK 102 26" RISER PIPE	LEACHATE COLLECTION	T(45-30)
LEACHATE TK 103 26" RISER PIPE	LEACHATE COLLECTION	T(45-31)

REVISE

DELETE

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DISCLM-4.CHP (1-91)

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