

START

0025149-8

ENGINEERING CHANGE NOTICE

Page 1 of 9

1. ECN 187883

Proj. ECN B-714-136

2. ECN Category (mark one)		Supplemental <input checked="" type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedure <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 07-24-92	
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 type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. N/A	11c. Complete Installation Work N/A _____ Cog. Engineer Signature & Date		11d. Complete Restoration (Temp. ECN only) N/A _____ Cog. Engineer Signature & Date

12. Description of Change

Block 8: H-2-77645, Sh 1, Rev 1
 H-2-77646, Sh 1, Rev 1
 H-2-77647, Sh 1, Rev 0
 H-2-77648, Sh 1, Rev 0
 H-2-78511, Sh 1, Rev 1
 H-2-78514, Sh 1, Rev 0
 H-2-78515, Sh 1, Rev 0

APPROVED FOR
PUBLIC RELEASE

10/22/92 N. Jolin

SC-3

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 checked="" type="checkbox"/>	Design Improvement <input checked="" type="checkbox"/>	As-Found <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details
 (CC-Item 2): WHC LOI #25 (#9253863, dated 05-21-92). Delete Vault 101 Cathodic Protection requirements. (DI-Item 1B, 3, 4 & 7): Misc clarification & simplification. Less restrictive design requirements. (FC-Item 5 & 6): Change requirement due to change in piping expansion loop [Ref ECN B-714-132]. Tolerances required to permit reasonable installation of anodes. (DE-Item 1A): Deletion of detail bubble should have been included in ECN B-714-42.

14. Distribution (include name, MSIN, and no. of copies)	
<u>KEH DISTRIBUTION</u>	J. K. Epperley R1-29
Coast Doc Cntl E2-50	K. S. McCullough N1-83
	R. K. Sanan [4] R4-05
<u>WHC DISTRIBUTION</u>	T. W. Staehr (PE) R3-27
Project Files R1-28	J. E. Vanbeek R3-27
M. W. Cling H4-57	G. H. Weissberg R3-10
T. K. Cordray S1-54	DOE
SA 10 A3-87	A. G. Lassila A5-10
SA 6 B2-03	

RELEASE STAMP

OFFICIAL RELEASE BY WHC

DATE JUL 29 1992

SA 4

ENGINEERING CHANGE NOTICE

15. Design Verification Required

Yes
 No

16. Cost Impact

ENGINEERING

Additional Savings \$2130⁰⁰
Additional Savings \$

CONSTRUCTION

Additional Savings \$ TBD
Additional Savings \$

17. Schedule Impact (days)

Improvement Delay N/A
Improvement Delay

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

20. Approvals

	Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING			ARCHITECT-ENGINEER	
Cog./Project Engineer	<i>DN Steady</i>	7/24/92	PE <i>[Signature]</i>	7-23-92
Cog./Project Engr. Mgr.	<i>J. Van Bort</i>	7/24/92	QA <i>B.R. Gilbin</i>	7-23-92
QA	<i>[Signature] FOR TKC</i>	7/24/92	Safety <i>D. Lundgren</i>	7-23-92
Safety			Design ELEC: <i>A.R. Snowwhite</i>	7-23-92
Security			Other ENVIR: <i>R. Hellenbeck</i>	7-23-92
Proj. Prog./Dept. Mgr.			CQA: <i>J.A. [Signature]</i>	7-23-92
Def. React. Div.				
Chem. Proc. Div.				
Def. Wst. Mgmt. Div.				
Adv. React. Dev. Div.				
Proj. Dept.				
Environ. Div.				
IRM Dept.				
Facility Rep. (Ops.)				
Other				

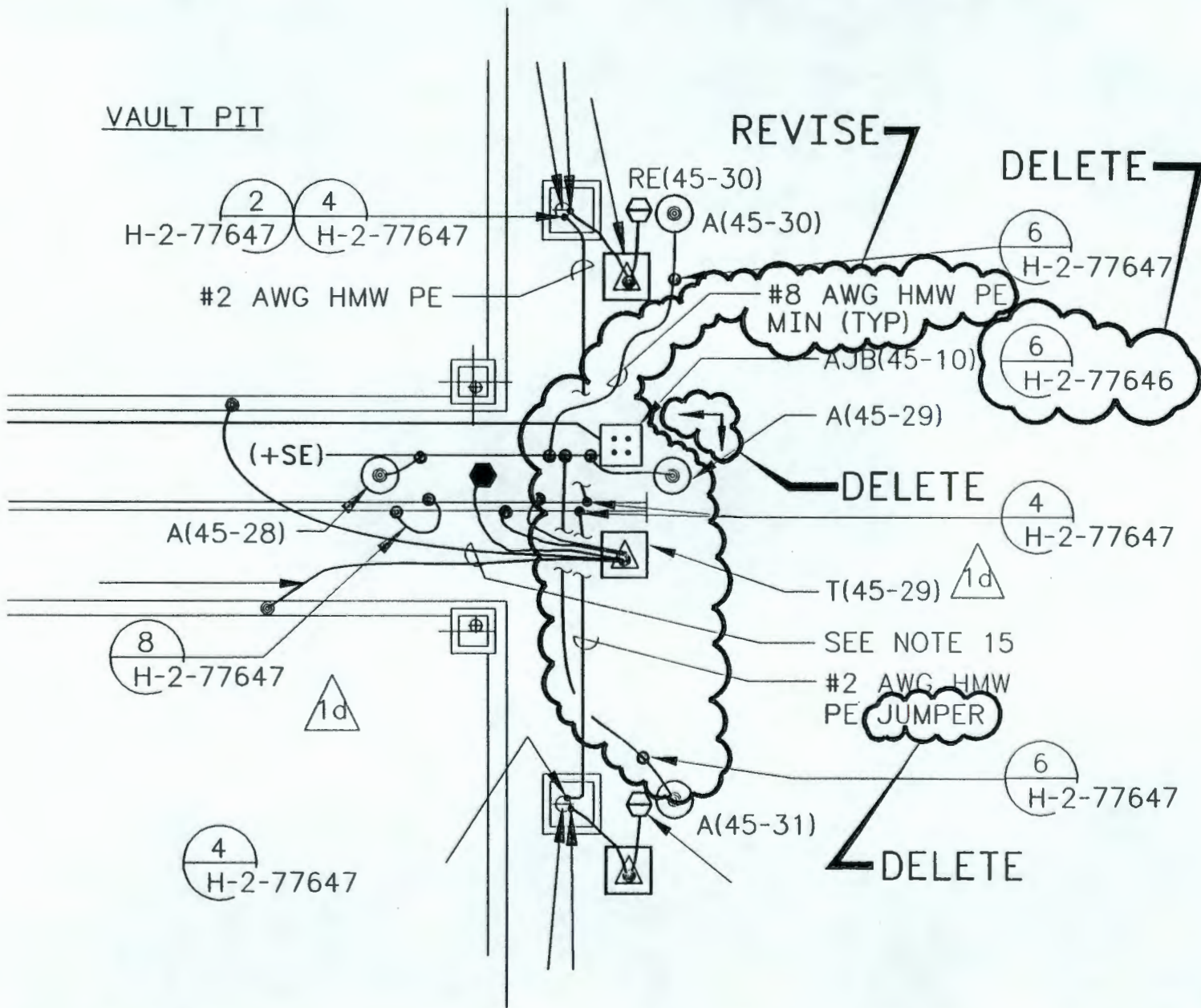
- 1) H-2-77645, Sh 1, Rev 1
 A) Zn D5: Delete the Detail 6 bubble in its entirety including the leaderline to AJB(45-9).
 B) Plan (Zn C-D3): Revise as shown on page 4 of this ECN.
- 2) H-2-77646, Sh 1, Rev 1
 Detail 2 (Zn E8): Delete the words " , AJB(45-7) " from the note that begins THIS BAR REQD...
- 3) H-2-77647, Sh 1, Rev 0
 Detail 5 (Zn C7): Delete the note in its entirety that begins with "CUSHION OF SOIL..."
- 4) H-2-77648, Sh 1, Rev 0
 Detail 6 (Zn E1-F3): Replace with new Detail 6 as shown on page 9 of this ECN.
- 5) H-2-78511, Sh 1, Rev 1
 A) Plan (Zn D7-E7 & D4): Revise as shown on page 5 & 6 of this ECN.
 B) Anode Location Table: Revise the coordinates for the anodes listed on page 7 of this ECN.
 C) Test Station Location Table: Change the coordinate for T(40-8) from W45773 to W45777.
- 6) H-2-78514, Sh 1, Rev 0
 Detail 13 (Zn E6-F8): Revise Detail 13 as shown on page 8 of this ECN.
- 7) H-2-78515, Sh 1, Rev 0
 Detail 22 (Zn C7-D8): Replace with new Detail 22 as shown on page 9 of this ECN.

REGISTERED ENGINEER REVIEW - ELEC ONLY - ALL ITEMS



EXPIRES 6-1-94

9
1
2
8
9
8
0
1
8
9



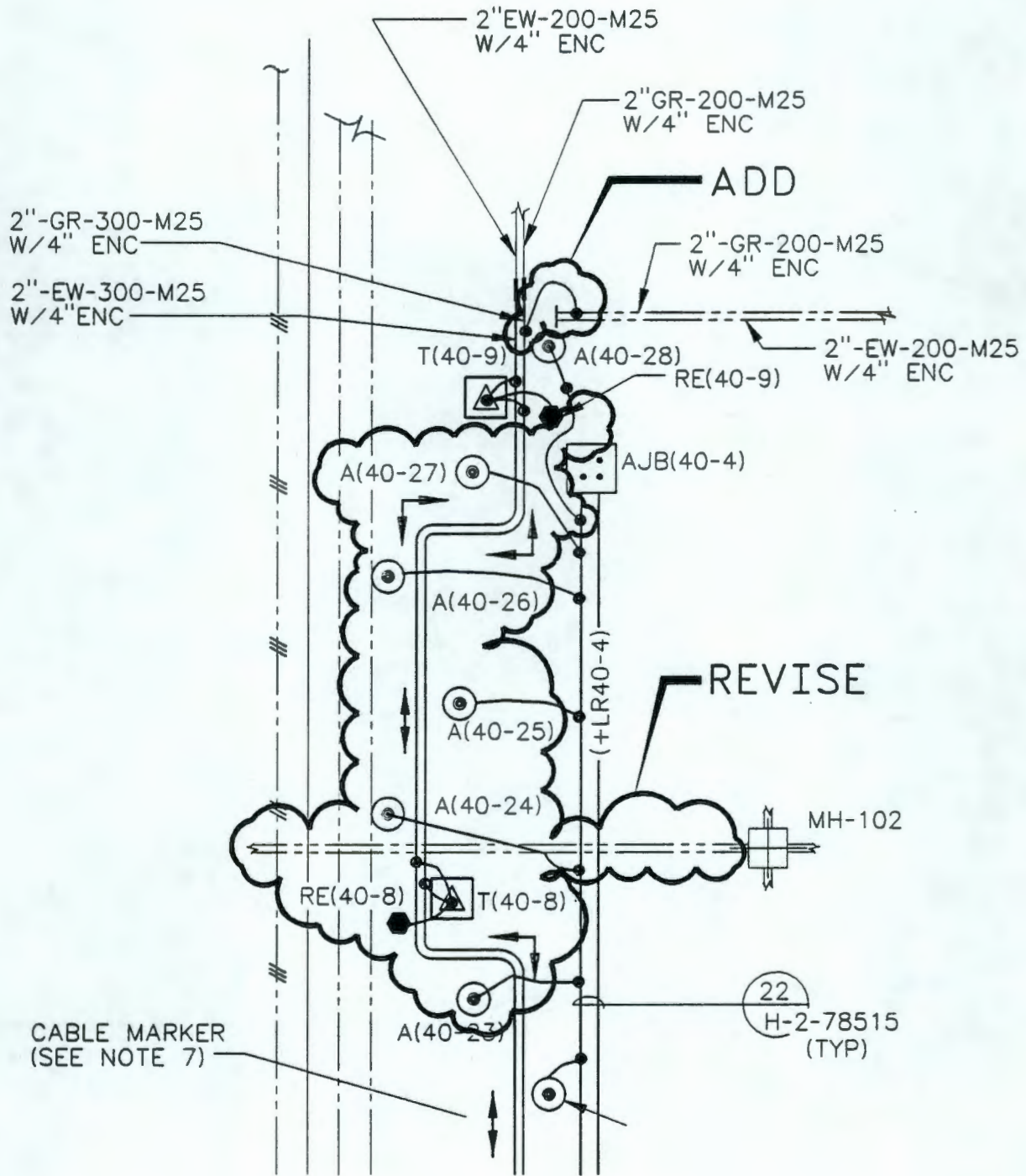
KAISER ENGINEERS
HANFORD

ENGINEERING CHANGE NOTICE SKETCH

Ref. Dwg. H-2-77645	Sh. 1	Rev. 1	Prepared By TE COYNE	Checked By <i>A.R. [Signature]</i>	ECN No. B-714-136	Page 4/9
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Ref. Dwg. H-2-78511	Sh. 1	Rev. 1	Prepared By TE COYNE	Checked By <i>A.L. [Signature]</i>	ECN No. B-714-136	Page 5/9
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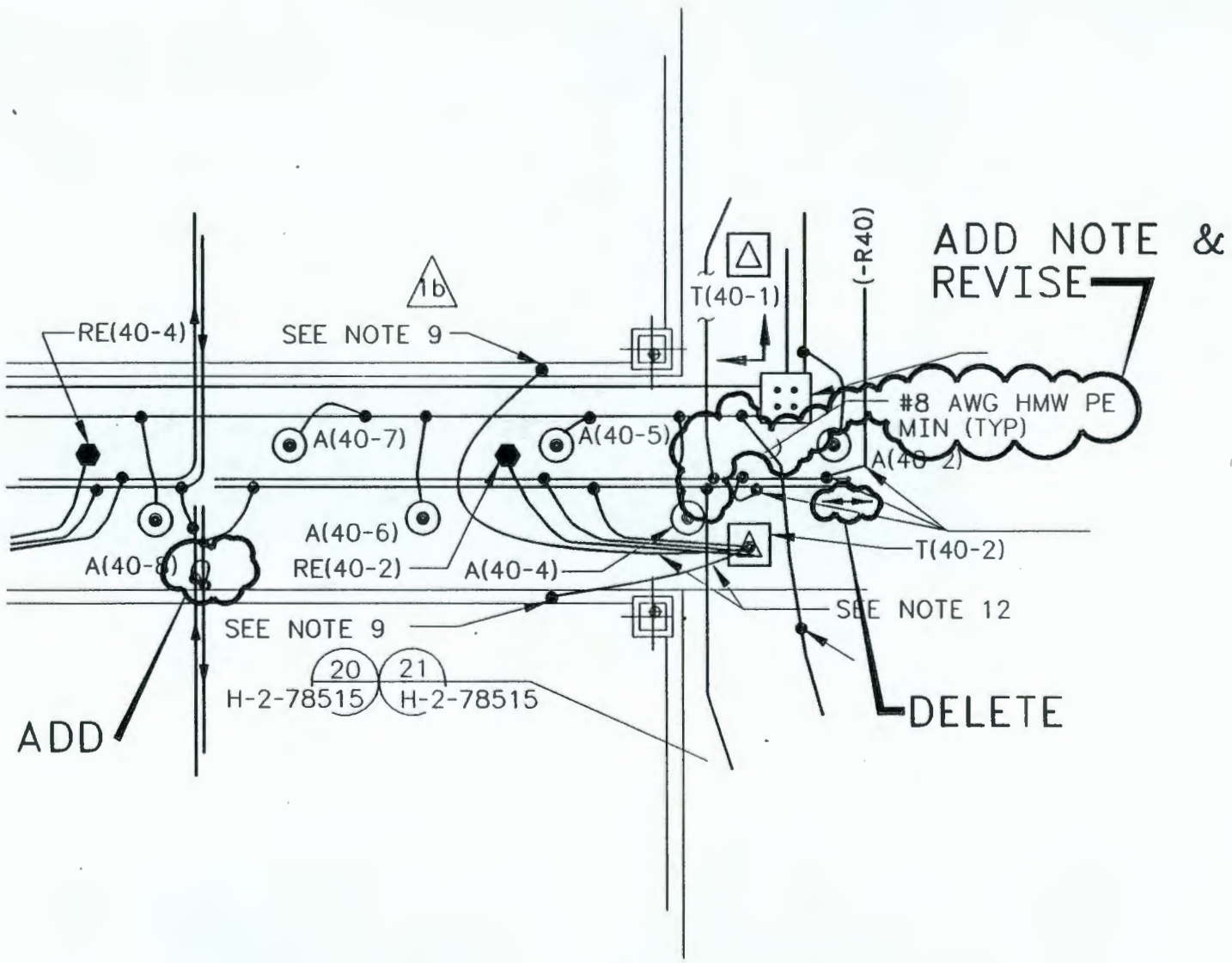
93128980191



KAISER ENGINEERS
HANFORD

ENGINEERING CHANGE NOTICE SKETCH

Ref. Dwg. H-2-78511	Sh. 1	Rev. 1	Prepared By TE COYNE	Checked By <i>E. R. ...</i>	ECN No. B-714-136	Page 6/9
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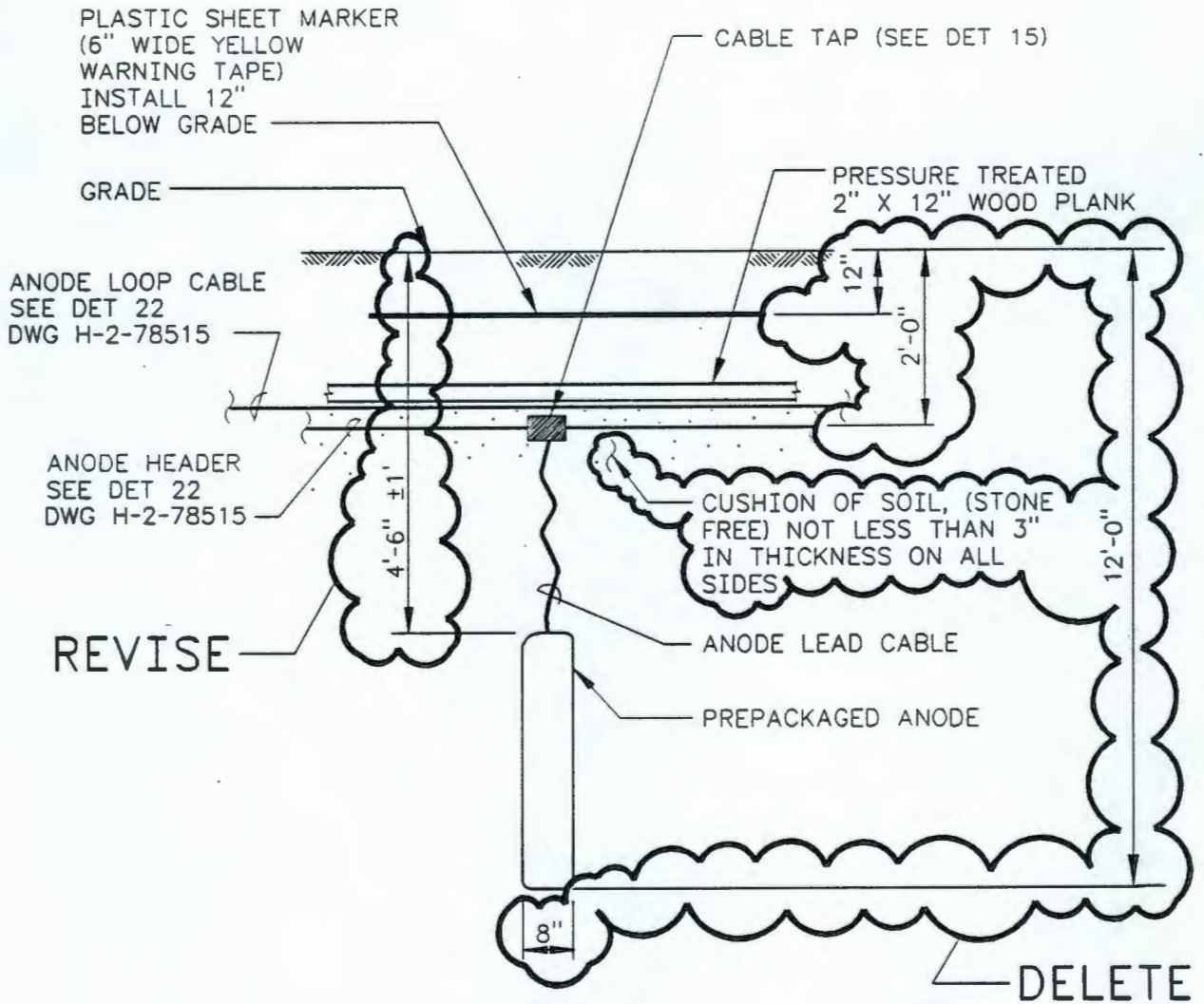


Ref. Dwg. H-2-78511	Sh. 1	Rev. 1	Prepared By TE COYNE	Checked By <i>E. R. [Signature]</i>	ECN No. B-714-136	Page 7/9
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ANODE LOCATION TABLE (SEE NOTE 5)		
NUMBER	COORDINATES	
A(40-2)	N40271	
A(40-5)	N40271	
A(40-7)	N40271	
A(40-9)	N40271	
A(40-11)	N40271	
A(40-13)	N40271	
A(40-15)	N40271	
A(40-17)	N40271	
A(40-20)		W45762
A(40-22)		W45762
A(40-23)	N40346	W45775
A(40-24)	N40375	W45789
A(40-25)		W45777
A(40-26)		W45789
A(40-28)	N40444	W45762

93128980193

Ref. Dwg. H-2-78514	Sh. 1	Rev. 0	Prepared By TE COYNE	Checked By <i>A. L. Swartz</i>	ECN No. B-714-136	Page 8/9
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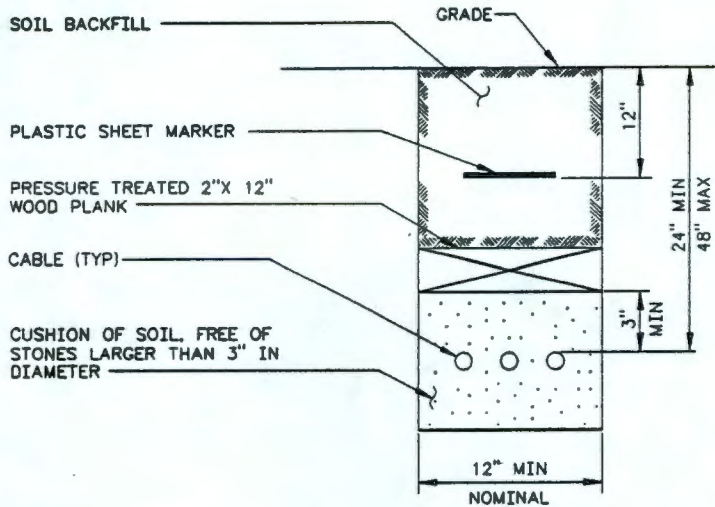
DETAIL
VERTICALLY
INSTALLED ANODE

13
H-2-78511

93128980194

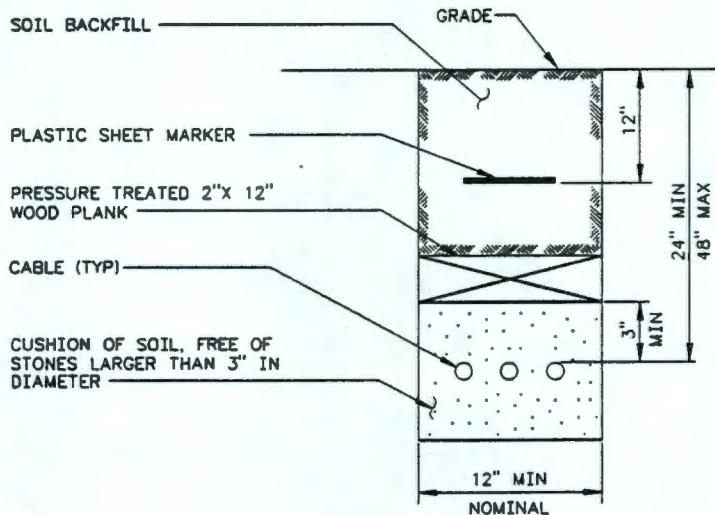
Ref. Dwg. H-2-77648	Sh. 1	Rev. 0	Prepared By TE COYNE	Checked By <i>L. R. [Signature]</i>	ECN No. B-714-136	Page 9/9
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H-2-78515	1	0
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DETAIL 6
DIRECT BURIED CABLES

REF DWG H-2-77648 SH 1



DETAIL 22
DIRECT BURIED CABLES
H-2-78511

REF DWG H-2-78515 SH 1

93128980195

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DISCLM-4.CHP (1-91)

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