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Final

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: Low Level Burial Grounds
(W-025 Mixed Waste Trench)

Meeting Held March 22, 1991
Westinghouse Hanford Lacey Office
Lacey, Washington

Appvl.

Clifford E. Clark

Date:

5/1/91

Clifford E. Clark, Environmental Policy and Permitting, DOE-RL

Appvl.

Date:

Daniel L. Duncan, EPA Region 10, RCRA Program Manager

Appvl.

Date:

Richard D. Pierce, Unit Manager, Contractor Representative, WHC

Appvl.

Date:

Susan M. Price, RCRA Permitting, Contractor Representative, WHC

Appvl.

J. J. Witczak

Date:

4/30/91

J. J. Witczak, Unit Manager, Washington State Department of Ecology

PURPOSE:

Meeting Minutes are attached. These minutes are from the March Unit Managers Meeting held 3-22-91. Minutes are comprised of the following:

- Attachment 1 - Summary of Discussion and Commitments
- Attachment 2 - Attendance List
- Attachment 3 - Agenda
- Attachment 4 - Action Items List with Status
- Attachment 5 - Selected Items from the Design Report, Construction Quality Assurance Plan, and Proposed Part B Permit Review Schedule



Attachment #1

Low Level Burial Grounds
Unit Managers Meeting

Westinghouse Hanford Lacey Office
Lacey, Washington
March 22, 1991

Summary of Discussion and Commitments

1. Cliff Clark (DOE-RL) handed out three documents: 1) a draft of the Sitewide Soil and Groundwater Background Document, 2) a model RCRA permit, and 3) a model RCRA permit quality protocol. One copy of each was given to Ecology and to EPA. A formal transmittal of the background document will be made later.
2. Introductions were made. Tom Woebkenberg (SWEC) will be functioning as a DOE person, in waste management.
3. Joe Witczak (Ecology) commented that the design information which has been provided to date does not include information on the covers, but just for the bottom liners. He stated that they have provided the draft comments on the conceptual design, and the comments should be delivered to DOE-RL by the end of the next week. Ecology will do an internal review of the design report document, and send it out to their contractors in addition. It is expected that it will be two months before the comments are ready. It has not been determined which of the two contractors will do the review. Golder Associates prepared the design report.
4. An overview of the design for the W-025 mixed waste trench was presented by Tom Yount (WHC). The handout for the presentation is included as Attachment #5. The W-025 project is a part of the burial ground 218-W-5, located on the west edge of 200-West. The location of W-025 has been moved from the location given in the permit application, because additional space is needed for construction. The design does not include asphalt, which was included in the conceptual design. The waste filling method has been changed from the conceptual design. The load will be spread across the entire floor and will come up gradually, rather than creating point loading on the liner by filling from one end.
5. Tom Yount (WHC) discussed how the design addressed the RCRA minimum technology requirements. The requirements call for a three foot liner thickness. The design is for 3.1 feet. The additional one-tenth foot will provide assurance that dessication cracking will be avoided during construction. The 60 mil liner exceeds the RCRA requirement for 30 mil. All plastics are HDPE. The textile is polyester. A concern was raised in Grout about using polyester, due to the expected high pH. Here it is expected that the pH will be in the low 9's. This is what was tested in the 9090 tests. The 9090 test report is in draft form and is being reviewed.

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The operational period was originally two years, but it is not expected that the trench will be filled to capacity within that time. WHC is looking at the additional design features which will be needed to extend the operational period.

6. Tim Greager (WHC) presented an overview of the draft Construction Quality Assurance Plan (COAP). The handout for this presentation is included with Attachment #5. The draft COAP is being reviewed and will be provided to the regulators later, probably late May or June.

A discussion was held on the schedule for approvals, and the necessary meetings. Construction is already late, based on the original schedule. There is no specific milestone attached to this, but it does impact the operation of the Central Waste Complex.

A discussion was held on the proposed operating period extension. Cliff Clark (DOE-RL) stated that they would like to keep the trench open until it is full. Richard Pierce (WHC) stated that it could be 8 to 10 years to fill the trench, and they want the flexibility to keep it open. This possible extension will be included in the design, to provide that flexibility. Joe Witczak (Ecology) stated that this trench has a bottom liner and thus the MTR requirements have been met. Since the trench will not be draining into the soil column, leaving it open for an extended time is not as much a problem as with other units that lack a bottom liner.

Joe Witczak (Ecology) asked about the relationship of the design specifications and the built in safety factors. It was emphasized that any changes to the design would be submitted to the regulators for their approval.

Gary Anderson (Ecology) stated that Ecology has hired an engineer to be an onsite inspector for the construction. A discussion was held on the fact that it will be very difficult to get access permission for him, because he is a citizen of Lebanon, which is a sensitive country. Current DOE guidance says that he must be accompanied by a Q-cleared person at all times, and this will place a substantial burden on DOE-RL.

7. A discussion was held on the future schedule of meetings and strategy. The W-025 trench has interim status, since it was in the initial Part A, in 1986 or 1987. This is not expansion. Construction will be started once DOE-RL has feedback from the regulators on the design.
8. Joe Witczak commented that he wanted to see a 4:1 trench slope. Tom Yount (WHC) stated that they were not yet prepared to discuss this point in detail. Currently the design report shows 3:1. In addition, Arlington, Oregon is designed at 3:1. Cliff Clark (DOE-RL) stated that DOE-RL had not had the chance to formulate a response. It was proposed that there be a separate engineering meeting to discuss this point.
9. The next meeting is scheduled for April 30th in the afternoon, in Richland. This meeting will be to discuss the NODs, and questions related to specific issues.

10. Copies of WHC comment responses related to Minimum Technological Requirements (MTR) will be provided to Dan Duncan (EPA) when they are sent to Joe Witczak (Ecology).

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Attachment 2

Low Level Burial Grounds
(W-025 Mixed Waste Trench)
Unit Managers Meeting
March 22, 1991

Attendance List

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE #</u>
G. Anderson	Ecology	(206) 438-7558
C. Clark	DOE-RL	(509) 376-9333
P. Corser	Golder	(206) 883-0777
D. Duncan	EPA	(206) 553-6693
K. Davis	SWEC	(509) 376-0412
G. Evans	WHC	(509) 376-8939
T. Greager	WHC	(509) 376-0312
J. King	SWEC	(509) 376-4726
R. Pierce	WHC	(509) 376-5681
S. Price	WHC	(509) 376-1653
J. Witczak	Ecology	(206) 438-7557
T. Woebkenberg	SWEC	(509) 376-1177
T. Yount	WHC	(509) 376-0034

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AGENDA

LOW-LEVEL BURIAL GROUNDS UNIT MANAGERS MEETING

MIXED WASTE TRENCH DEFINITIVE DESIGN

March 22, 1991

Lacey, WA

Introduction	C. E. Clark
Permit Application Status	R. D. Pierce
Overview of Mixed Waste Definitive Design	T. L. Yount
RCRA Design Requirements	T. L. Yount
Enhanced Operational Life	T. L. Yount
Construction Quality Assurance Plan	T. M. Greager
Project Schedule	T. M. Greager
Discussion of Draft Ecology Comments	C. E. Clark

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Attachment 4

Low Level Burial Grounds Unit Managers Meeting
(W-025 Mixed Waste Trench)
Commitments/Agreements Status (Status date: 3/22/91)

ACTION ITEM

COMMITMENTS/AGREEMENTS STATUS LIST

There were no action items coming out of this meeting.

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AGENDA

LOW-LEVEL BURIAL GROUNDS UNIT MANAGERS MEETING

MIXED WASTE TRENCH DEFINITIVE DESIGN

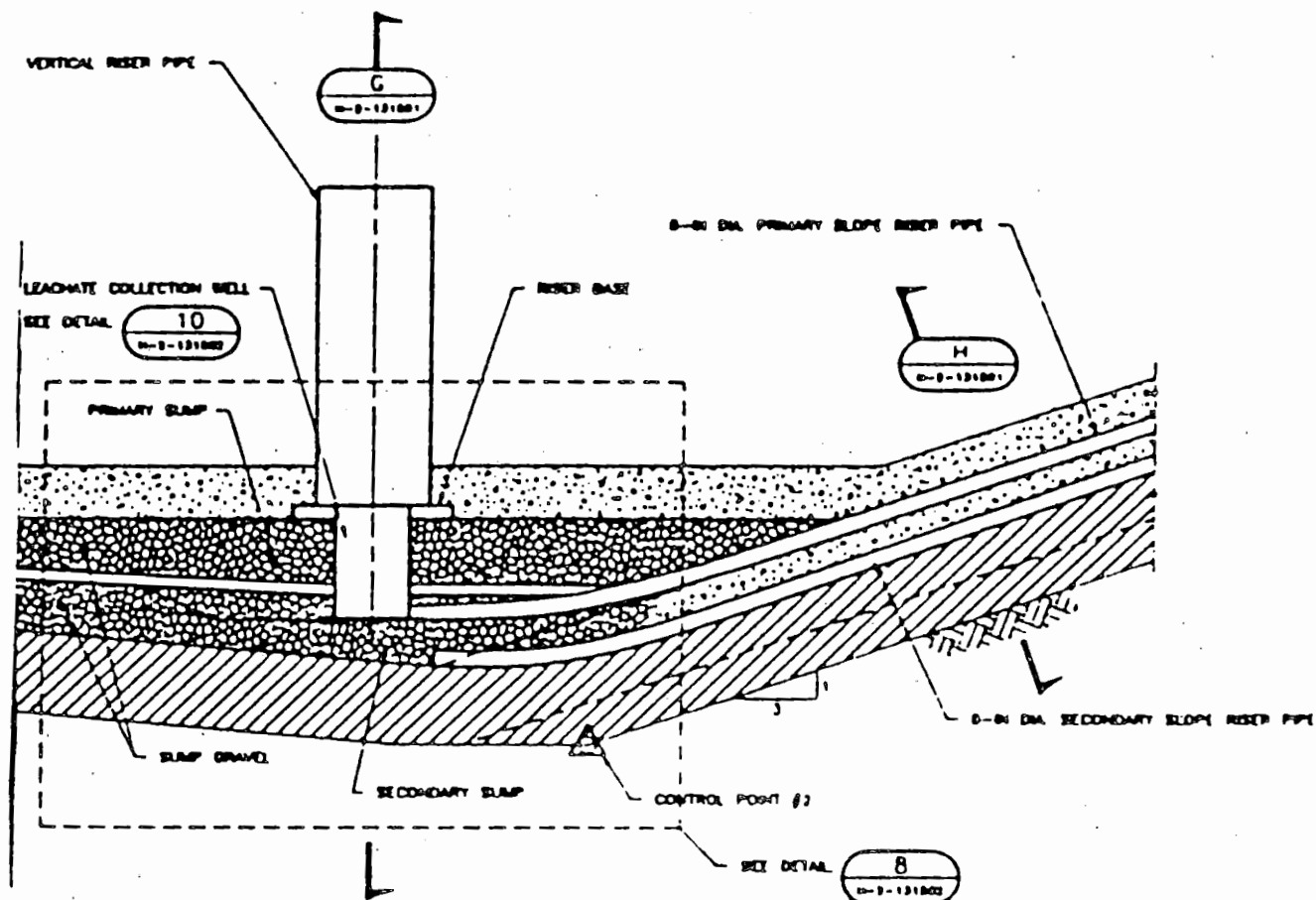
March 22, 1991

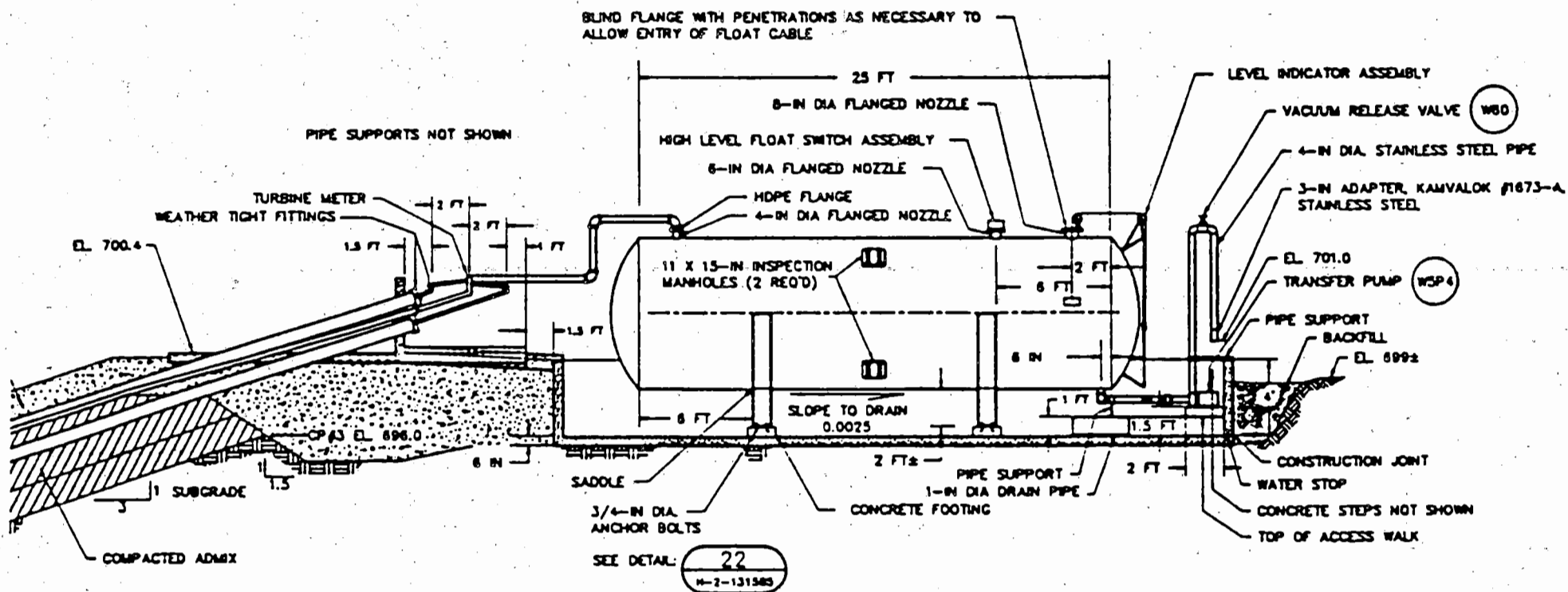
Lacey, WA

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Project Schedule	T. M. Greager
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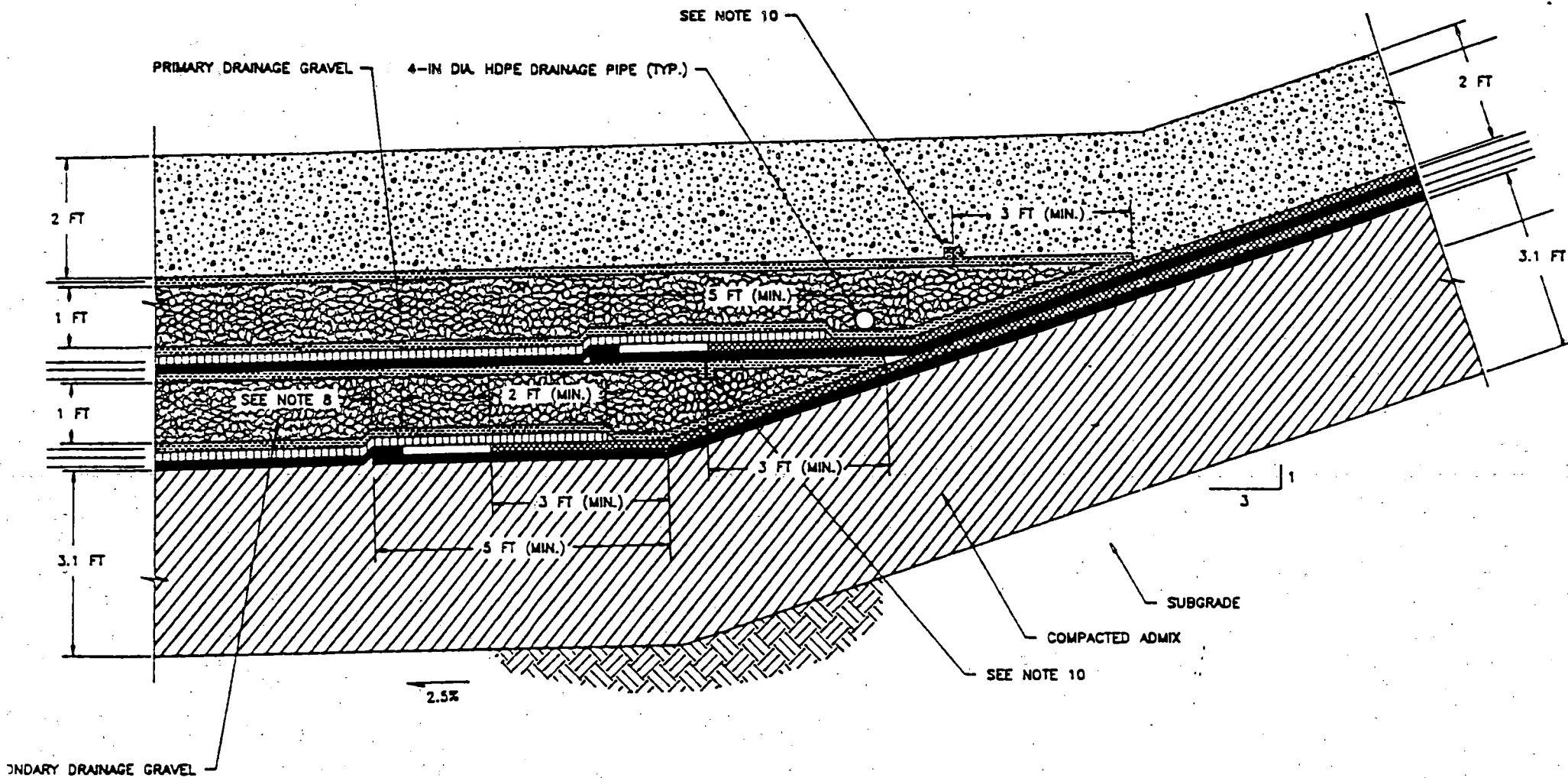
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LEACHATE TEMPORARY STORAGE TANK & PIPING SECTION

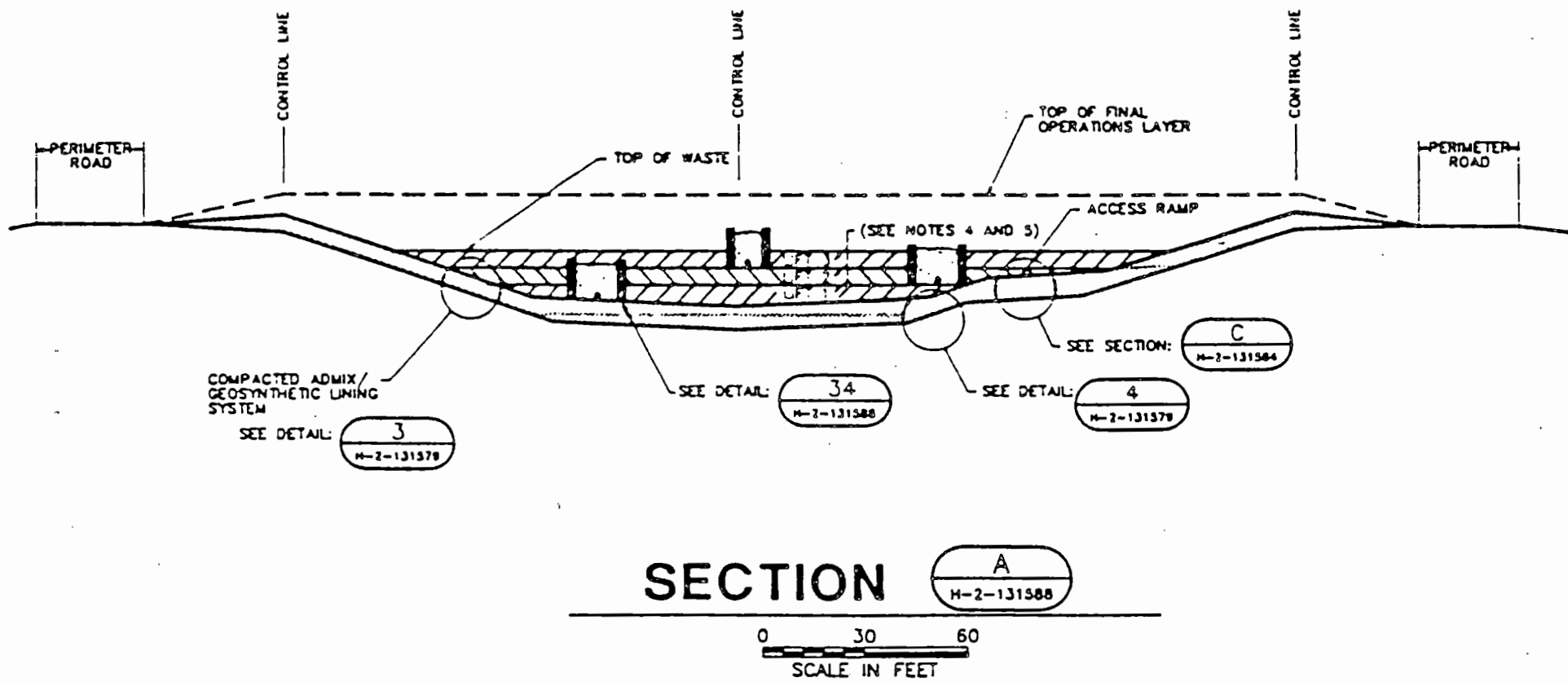
A horizontal scale bar with a thick black line. Above the line, the numbers 0, 5, and 10 are printed. Below the line, the text "SCALE IN FEET" is printed in all caps.



TYPICAL TOE OF SLOPE DETAIL

4
H-2-131579

0 2 4
SCALE IN FEET



CONSTRUCTION QUALITY ASSURANCE PLAN

- ◆ **BASED ON EPA 530 SW 86 031, "TECHNICAL GUIDANCE DOCUMENT:
CONSTRUCTION QUALITY ASSURANCE FOR HAZARDOUS WASTE LAND DISPOSAL
FACILITIES"**

- ◆ **CQAP CENTERS AROUND FIVE (5) BASIC ELEMENTS FROM EPA 530 SW 86 031:**
 - **RESPONSIBILITY AND AUTHORITY**
 - **CQA PERSONNEL QUALIFICATIONS**
 - **INSPECTION ACTIVITIES**
 - **SAMPLING STRATEGIES**
 - **DOCUMENTATION**

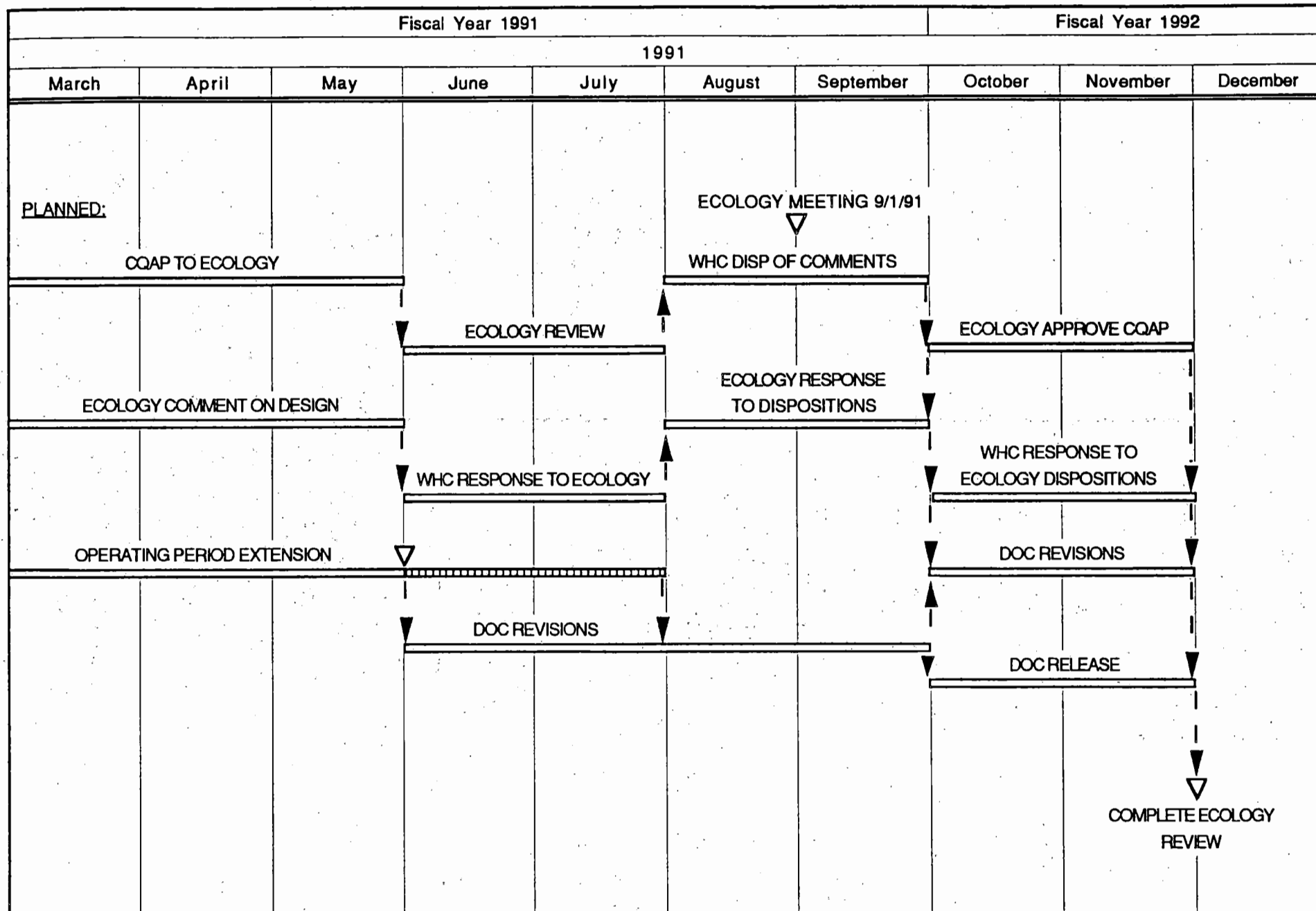
CONSTRUCTION QUALITY ASSURANCE SUMMARY TABLE
SPECIFICATION SECTION 02275
GEOSYNTHETICS

Reference Standard Subject	Frequency	Acceptance Criteria	Report Format	CQA Ref.	Specif. Sect. & Para.	IP
Document that all Repairs Have Been Successfully Made and Nondestructively Tested	Continuously	No Leaks	Geosynthetic Field Forms	4.4.25	02275 3-1	G/R
Identify Wrinkles or "Fishmouths" for Repair and Testing	Periodic Monitoring	Cut and Repair	Geosynthetic Field Forms	4.4.25	02275 3-1	G/R
Monitor the Placement of Cover Materials Over the Geomembrane	Continuously	No Wrinkles Buried	Daily Field Report	4.4.25	02275 3-1	G/R
Collect and Review Certificates that State the Geotextile, Geocomposite, and Geonet Delivered Have Properties Which Meet or Exceed the Guaranteed Values	Before the Material is delivered to the site	Meet or Exceed Material Specifications	Manufacturer's Certificates	4.5.2.2	02275 3-1	G/R
Verify that the Geonets are Free of Dirt and Dust	Prior to installation	Visual Observation	Daily Field Report	4.5.2.2	02275 3-1	G/R
Geotextile Conformance Testing ASTM D4632 ASTM D4533 ASTM D3786 ASTM D4833 ASTM D1777 ASTM D4491 ASTM D4751	One per 100,000 SF	Meet or Exceed Material Specifications	Lab forms	4.5.2.2	02275 2-2	G/R
Geocomposite Conformance Testing ASTM D4751 Direct Shear Testing as Specified	One per 100,000 SF	TBD by Designer	Lab Forms	4.5.2.2	02275 2-2	G/R

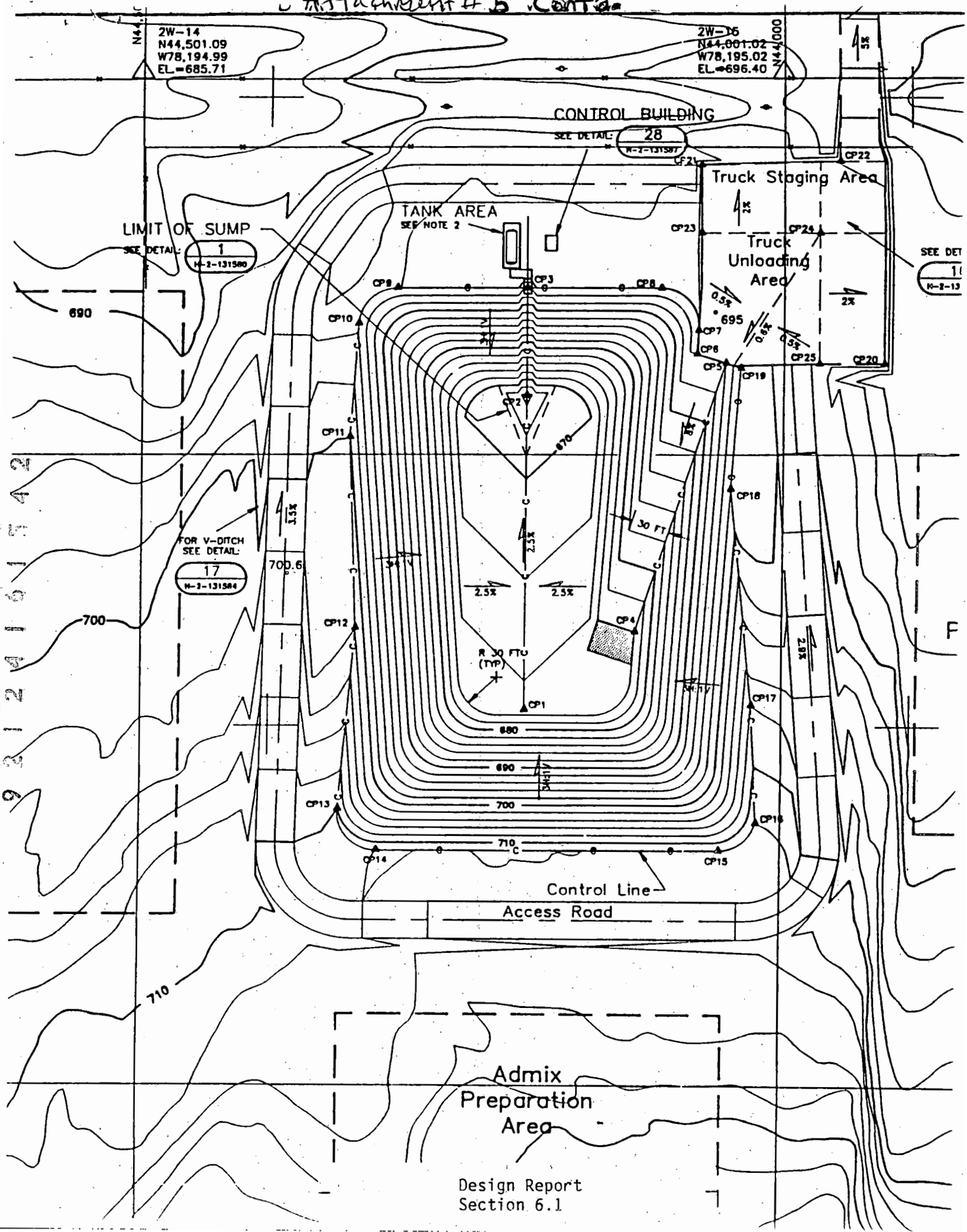
Golder Associates

PROPOSED W-025 PART B PERMIT ECOLOGY REVIEW SCHEDULE

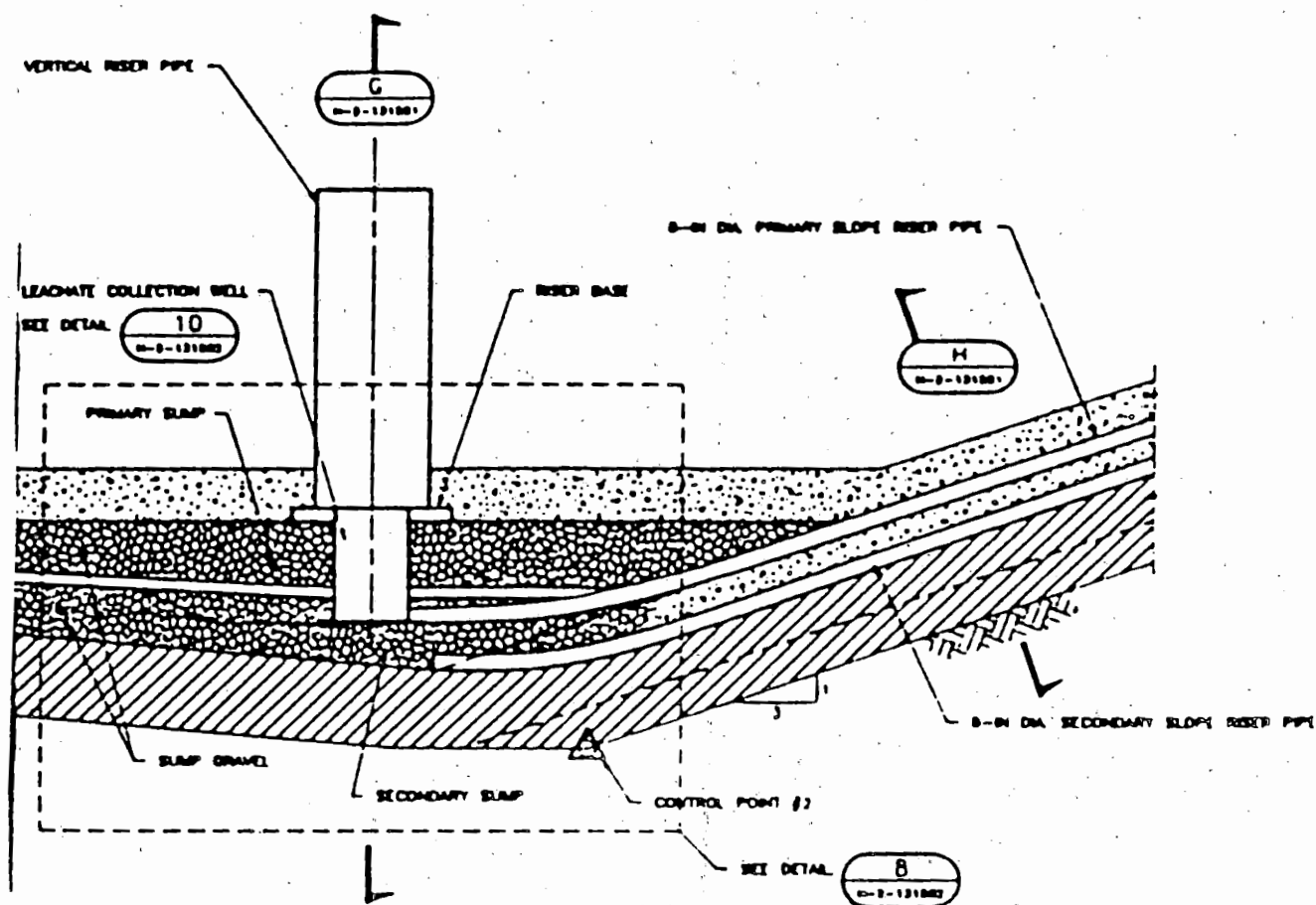
03/21/91



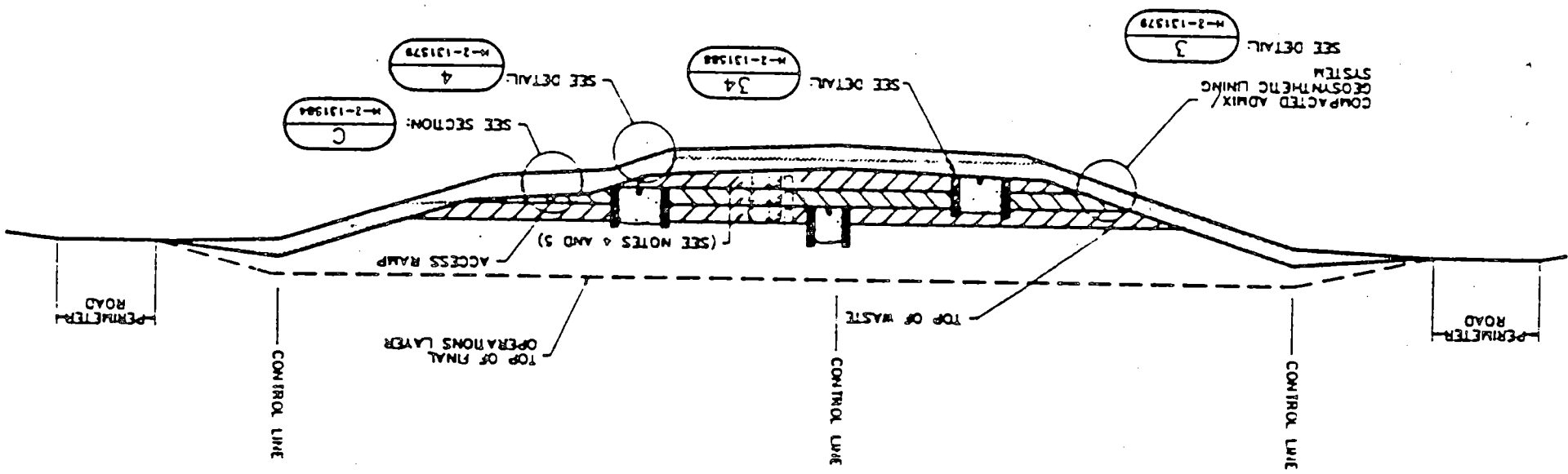
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SECTION A
H-2-131588
SCALE IN FEET
0 30 60

CONSTRUCTION QUALITY ASSURANCE PLAN

- ◆ **BASED ON EPA 530 SW 86 031, "TECHNICAL GUIDANCE DOCUMENT:
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FACILITIES"**

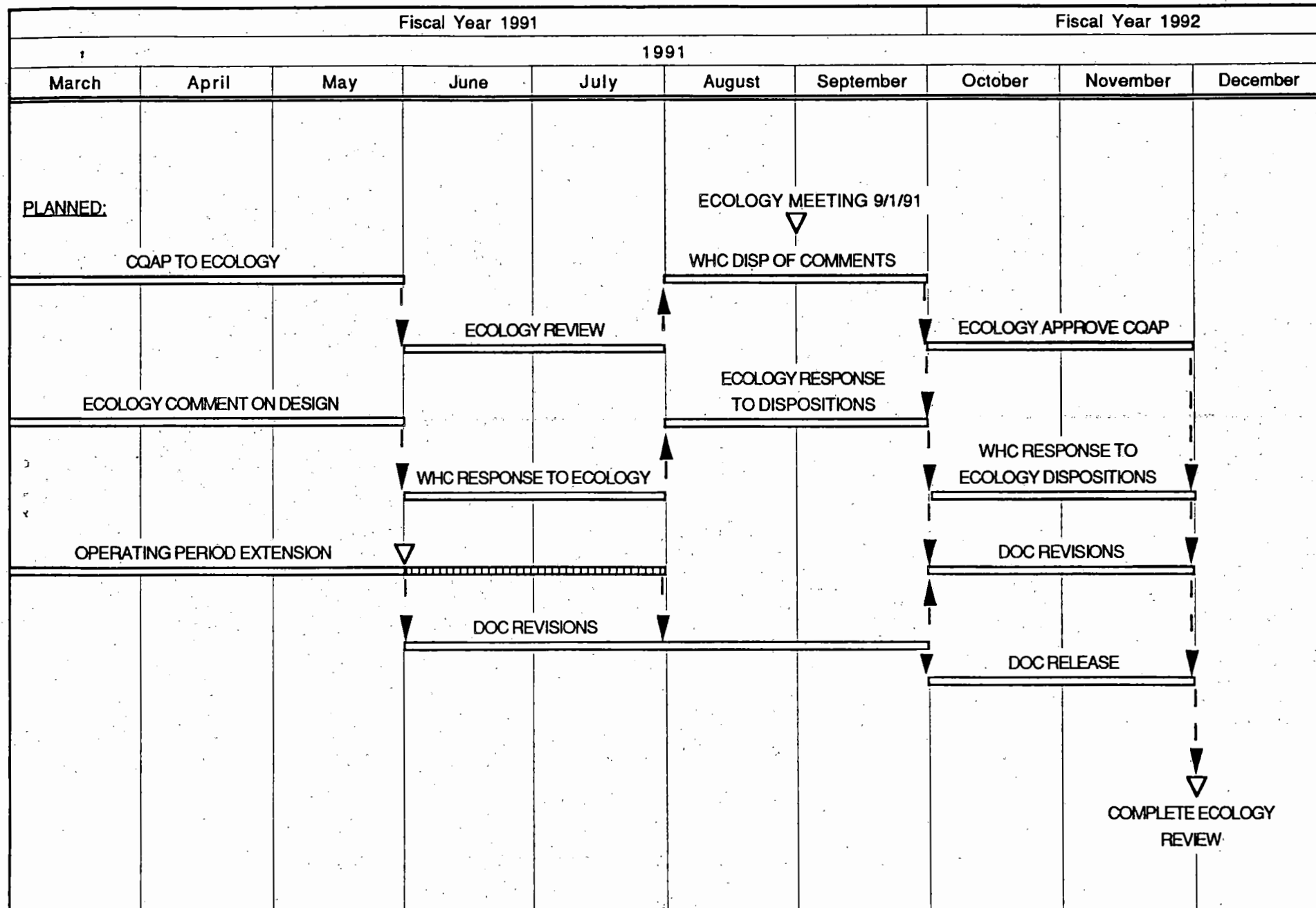
- ◆ **CQAP CENTERS AROUND FIVE (5) BASIC ELEMENTS FROM EPA 530 SW 86 031:**
 - **RESPONSIBILITY AND AUTHORITY**
 - **CQA PERSONNEL QUALIFICATIONS**
 - **INSPECTION ACTIVITIES**
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 - **DOCUMENTATION**

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Collect and Review Certificates that State the Geotextile, Geocomposite, and Geonet Delivered Have Properties Which Meet or Exceed the Guaranteed Values	Before the Material is delivered to the site	Meet or Exceed Material Specifications	Manufacturer's Certificates	4.5.2.2	02275 3-1	G/R
Verify that the Geonets are Free of Dirt and Dust	Prior to installation	Visual Observation	Daily Field Report	4.5.2.2	02275 3-1	G/R
Geotextile Conformance Testing ASTM D4632 ASTM D4533 ASTM D3786 ASTM D4833 ASTM D1777 ASTM D4491 ASTM D4751	One per 100,000 SF	Meet or Exceed Material Specifications	Lab forms	4.5.2.2	02275 2-2	G/R
Geocomposite Conformance Testing ASTM D4751 Direct Shear Testing as Specified	One per 100,000 SF	TBD by Designer	Lab Forms	4.5.2.2	02275 2-2	G/R

PROPOSED W-025 PART B PERMIT ECOLOGY REVIEW SCHEDULE

03/21/91



Distribution:

G. Anderson	Ecology
D. L. Armstrong	WHC (T3-02)
W.H. Bodily	KEH (E3-55)
R.M. Carosino	DOE-RL (A4-52)
C.E. Clark	DOE-RL (A6-95)
D.L. Duncan	EPA (HW-074)
G.C. Evans	WHC (H4-57)
T.M. Greager	WHC (G6-47)
E. A. Bracken	DOE-RL (A5-19)
J.D. King	SWEC (A4-35)
R.D. Pierce	WHC (N3-13)
S.M. Price	WHC (H4-57)
J.J. Witczak	Ecology
T.J. Wuebkenberg	SWEC (A4-35)
T.L. Yount	WHC (G6-47)

ADMINISTRATIVE RECORD (Low Level Burial Grounds)
[Care of Susan Wray, WHC (H4-22C)] *H4-22*

Washington State Department of Ecology, Nuclear And Mixed Waste Library,
Mail Stop PV-11

Environmental Protection Agency, Region 10, HW-074

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