

Kieling

Permit



Environmental Protection Division
Water Quality & RCRA (ENV-RCRA)
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX: (505) 667-5224

Date: July 3, 2007
Refer To: ENV-RCRA: 07-165

Mr. John Kieling
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

SUBJECT: INFORMATION SUBMITTAL, LOS ALAMOS NATIONAL LABORATORY (LANL), EPA ID NM0890010515

Dear Mr. Kieling:

The purpose of this letter is to submit information regarding four LANL Hazardous Waste Facility Permit related topics as requested by representatives of the Hazardous Waste Bureau. This information follows up on questions from a meeting at the facility on May 9, 2007. They include requests for figures, copies of letters, and permit conditions. The requests and responses are:

1.) A current as-built figure for Pad 10 including drains.

Enclosure 1 is a figure drawing including the location of the drain inlet and discharge at Pad 10. The drain inlet structure is a formed concrete trench drain with a metal grated cover. The drain is approximately 75 feet long, six inches wide, and four inches deep. The drain extends west and to the north of structure 324 from the drop inlet position shown on the figure. From the drop inlet, an approximately four inch diameter pipe runs south east below grade to an outlet at the edge of the cleared area shown by the dotted line in the figure (south of the fire hydrant symbol).

2.) A copy of the approval letter for the deletion of the storage pads at Technical Area (TA)-50 from the permit.

Enclosure 2 is a copy of the April 21, 2003 letter from Mr. James Bearzi, Chief, Hazardous Waste Bureau to G. Pete Nanos, Los Alamos National Laboratory and Ralph Erickson, Area Manager, Los Alamos Area Office, Department of Energy approving Class 1 permit modifications deleting Technical Area 50 container storage units from the permit. These included TA-50-137, TA-50-138, TA-50-139, and TA-50-140.



16379

3.) A reference for the storage of liquid containing hazardous wastes at TA-50-69.

The description of liquid containing waste storage in the indoor and outdoor storage areas at TA-50-69 is included in the amended copy of the LANL Hazardous Waste Facility Permit incorporating the conditions associated with the Class 3 Permit Modification for TA-50 as approved by the New Mexico Environment Department on February 28, 1997 (See "Los Alamos National Laboratory Hazardous Waste Facility Permit, Modified from 1995 NMED Control Copy to Include All Previously Submitted Permit Modifications," September 2004, LA-UR-04-6218). Module III.A.3.b. includes: "...Containers containing suspect or known free liquids may be stored on self-containment pallets in Building 50-69, Rooms 102 and 103, and at the Building 50-69 Outdoor CSA..."

4.) Copies of figure drawings for the Transuranic Waste Inspectable Storage Project (TWISP) domes at TA-54 Area G depicting the interconnected fire protection water drain line system.

Four figure drawings including the fire protection drain system are included with Enclosure 3. The first figure (TRU Waste Retrieval Dome, Site Layout Plan Phase I-R [West]) shows floor drains on the south end of the pad underlying the TRU waste retrieval dome (Dome 226) and a connected 10" fire protection drain line running southeast and then east toward the TWISP storage domes. The second (TRU Waste Retrieval Dome, Site Layout Plan Phase I-R [East]) shows the drain line turning south east toward Pad 9, underlying the TWISP storage domes. The third (TRU Waste Temporary Storage Domes, Site Layout Plan Phase I-S [North]) includes the pad under TWISP Domes 232 ("Dome D") and 231 ("Dome C"). The drain line runs to the east side of Pad 9 and connects with secondary drain lines from the domes. These are connected to collection drains in the domes that slope to the main fire protection water drain line. The last figure (TRU Waste Temporary Storage Domes, Site Layout Plan Phase I-S [South]) shows the drain line running past Dome 230 ("Dome B") and connecting with the recessed sump area of Dome 229 ("Dome A").

The purpose of the drain system was to provide additional fire water collection capacity in the event of an emergency. The sump area in Dome 229 is the collection point for the system. In the event that Dome 226 is decommissioned and removed, the collection drains on the underlying pad will be closed or blocked so as to prevent storm water entering the system at that point.

The figures in this submittal have been reviewed for publication as LA-UR-07-3616. If you should have any concerns or further questions on this matter, please do not hesitate to contact Gian Bacigalupa, Environmental Protection Division, at 667-1579.

Sincerely,



for Anthony R. Grieggs
Group Leader
Water Quality & RCRA (ENV-RCRA) Group

Mr. John Kieling
ENV-RCRA: 07-165

- 3 -

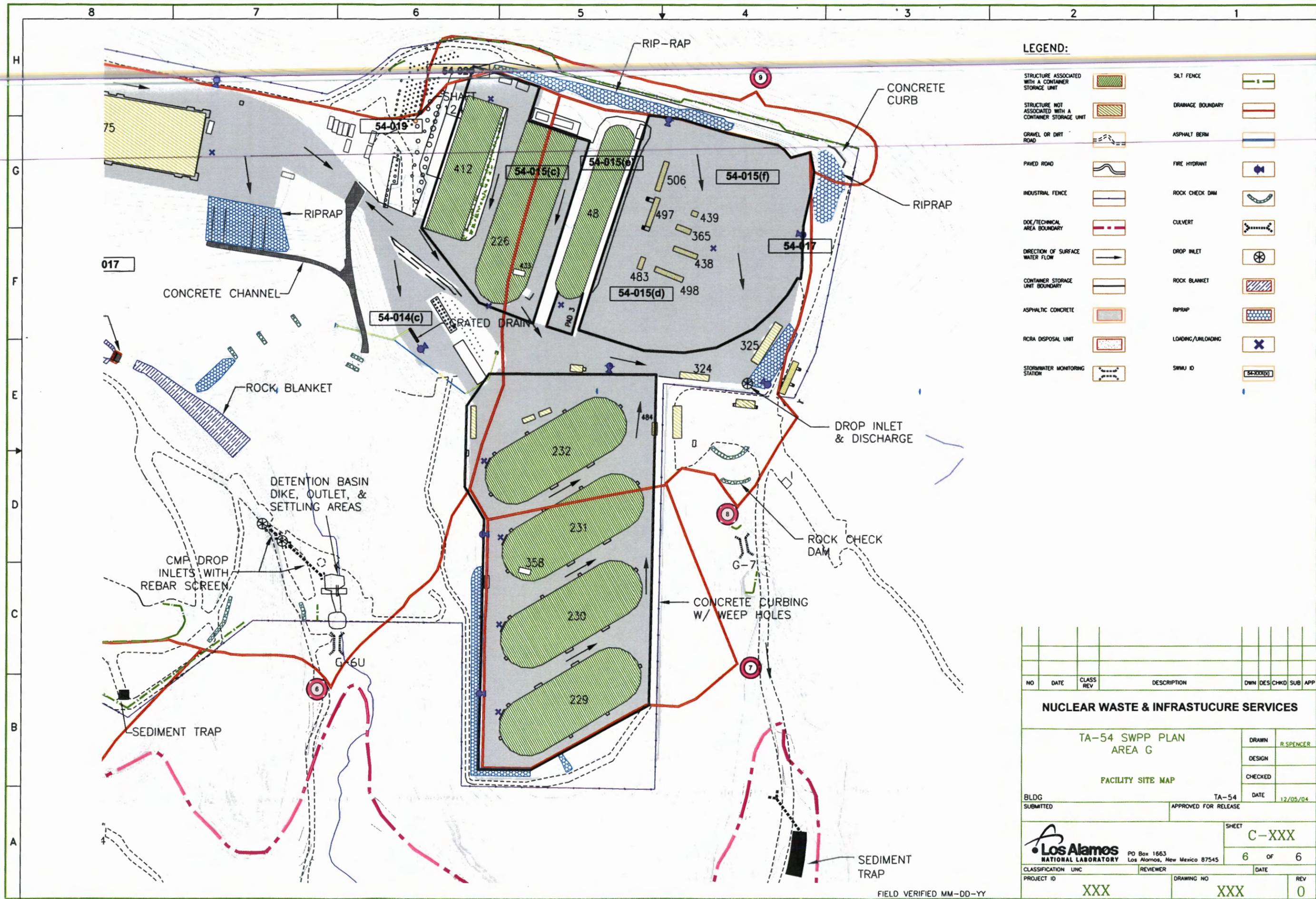
July 3, 2007

ARG:GB/lm

Enclosures: a/s

Cy: Steve Pullen, NMED/HWB, Santa Fe, NM, w/enc.
Gene Turner, LASO-EO, w/o enc., MS A316
Michael B. Mallory, PADOPS, w/o enc., MS A102
Richard S. Watkins, ADESHQ, w/o enc., MS K491
Jack Ellvinger, ENV-RCRA, w/o enc., MS K490
Gian Bacigalupa, ENV-RCRA, w/o enc., MS K490
Bob Lechel, ENV-RCRA, w/o enc., MS J593
ENV-RCRA, File, w/enc., MS K490
IRM-RMMSO, w/enc., MS A150

Enclosure 1



LEGEND:

STRUCTURE ASSOCIATED WITH A CONTAINER STORAGE UNIT		SILT FENCE	
STRUCTURE NOT ASSOCIATED WITH A CONTAINER STORAGE UNIT		DRAINAGE BOUNDARY	
GRAVEL OR DIRT ROAD		ASPHALT BERM	
PAVED ROAD		FIRE HYDRANT	
INDUSTRIAL FENCE		ROCK CHECK DAM	
DOE/TECHNICAL AREA BOUNDARY		CULVERT	
DIRECTION OF SURFACE WATER FLOW		DROP INLET	
CONTAINER STORAGE UNIT BOUNDARY		ROCK BLANKET	
ASPHALTIC CONCRETE		RIPRAP	
RCRA DISPOSAL UNIT		LOADING/UNLOADING	
STORMWATER MONITORING STATION		SWMU ID	

NO	DATE	CLASS REV	DESCRIPTION	OWN	DES	CHKD	SUB	APP	
NUCLEAR WASTE & INFRASTRUCTURE SERVICES									
TA-54 SWPP PLAN AREA G				DRAWN	R. SPENCER				
FACILITY SITE MAP				DESIGN					
				CHECKED					
				DATE	12/05/04				
BLDG SUBMITTED				APPROVED FOR RELEASE					
				SHEET		C-XXX			
Los Alamos NATIONAL LABORATORY				6 OF 6					
PROJECT ID				DRAWING NO		REV			
XXX				XXX		0			

FIELD VERIFIED MM-DD-YY

Enclosure 2



BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Telephone (505) 428-2500
Fax (505) 428-2567
www.nmenv.state.nm.us



RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

April 21, 2003

G. Pete Nanos, Interim Director
Los Alamos National Laboratory
P.O. Box 1663, Mail Stop A100
Los Alamos, New Mexico 87545

Ralph Erickson, Area Manager
Department of Energy
Los Alamos Area Office
528 35th Street, Mail Stop A316
Los Alamos, New Mexico 87544

SUBJECT: APPROVAL OF CLASS 1 PERMIT MODIFICATION
TECHNICAL AREA 50
CONTAINER STORAGE UNITS
TA-50-137; TA-50-138; TA-50-139; TA-50-140
LOS ALAMOS NATIONAL LABORATORY
EPA ID NO. NM0890010515
HWB- LANL-99-049

Dear Messrs. Nanos and Erickson:

The New Mexico Environment Department (NMED) has reviewed the U.S. Department of Energy and Los Alamos National Laboratory (Permittees) request to remove the above-referenced units from the Permittees' hazardous waste management permit under the federal Resource Conservation and Recovery Act and the New Mexico Hazardous Waste Act. The permit modification request was submitted by letter from James L. White to John Kieling, dated April 19, 2000.

The four units requested to be removed are container storage units that were included on the Permit but were never constructed. Because the units were never constructed, removal of the units from the permit is an administrative change to the permit and a Class 1 modification under 20.4.1.900 NMAC (incorporating 40 C.F.R. § 270.42(a)). NMED notified Permittees that the modification would be considered a Class 1 modification by letter from Carl Will to David

Messrs. Nanos and Erickson
April 21, 2003
Page 2

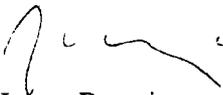
Gurulé and John Browne dated October 2,2000.

The proposed Class 1 modification to the Permit is approved. The units will be removed from the Permittees' current hazardous waste management permit and will not be included in the renewed permit.

In accordance with 20.4.1.900 NMAC (incorporating 40 C.F.R. § 270.42(a)(ii)), you are required to send a notice of this modification to all persons on your Facility mailing list. This notification must be made within 90 calendar days of this approval.

If you have any questions, please contact Steve Jetter of my staff at (505) 841-9488.

Sincerely,



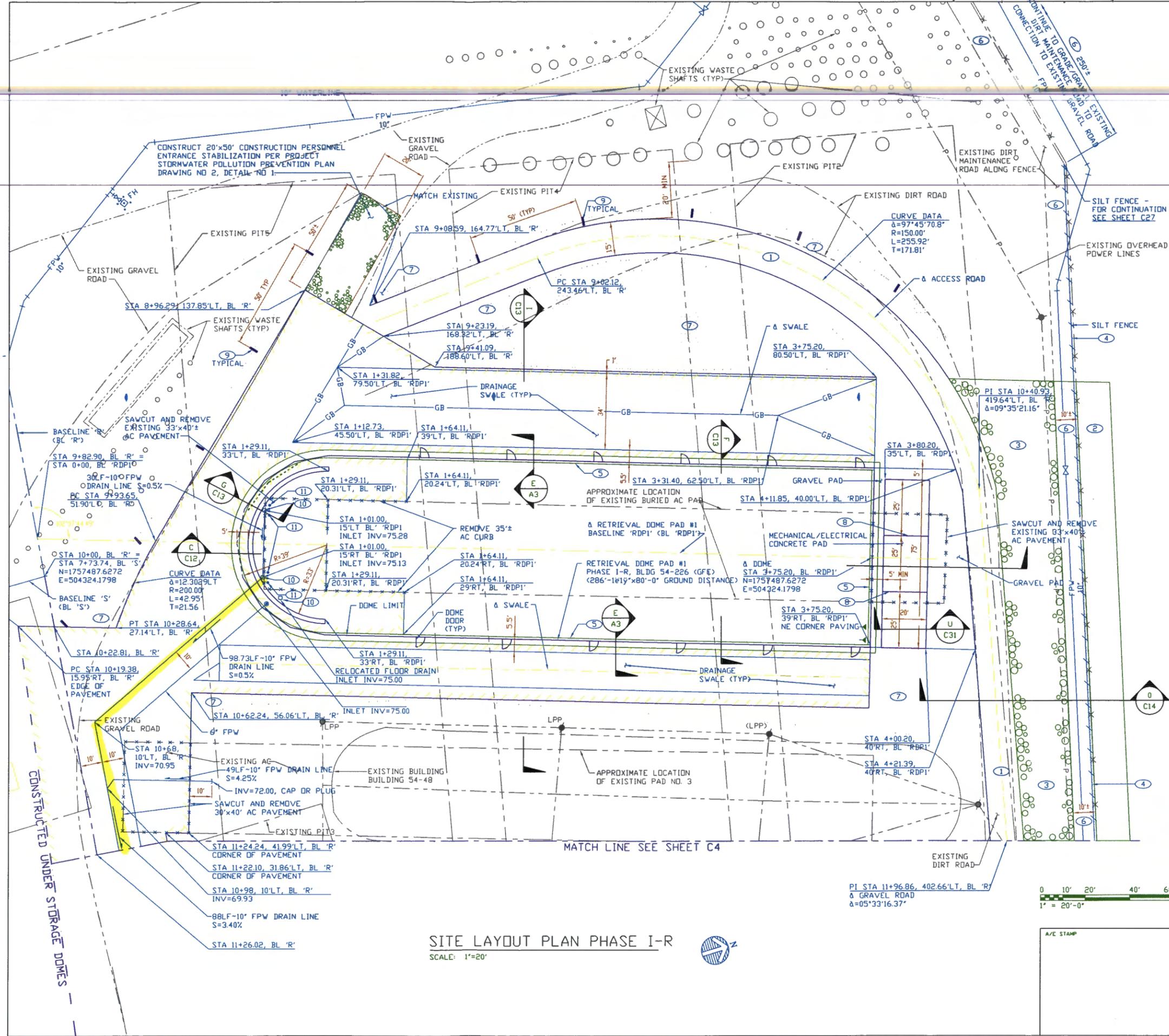
James Bearzi
Chief
Hazardous Waste Bureau

JPB:sj

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
C. Will, NMED HWB
S. Jetter, NMED HWB
Laurie King, EPA 6PD-N
Jack Ellvinger, LANL MS K490
Gian Bacigalupa, LANL MS K490
Gene Turner, DOE A316

File: Reading and LANL TA-50/00

Enclosure 3



- NOTES**
- A FOR PAVING DETAILS, SEE SHEET C31
 - B FOR ELECTRICAL SITE WORK, SEE SHEET E3
 - C FOR GRADING, SEE SHEET C5
 - D LONGITUDINAL AXIS OF RETRIEVAL DOME ON PAD #1 ALIGNS WITH BASELINE RDP
 - E FOR WATERLINE CONSTRUCTION, SEE SHEETS C24 THRU C30
 - F FOR RETRIEVAL DOME, SEE ARCHITECTURAL SHEETS A1 THRU A3
 - G FOR CAREFUL EXCAVATION OVER PITS, SEE SHEET C2, NOTE F
 - H FOR SECURITY FENCE REMOVAL DURATION, SEE SHEET C2, NOTE J
 - I DOME(S) SHOWN ON THESE DRAWINGS ARE BASED ON DOMES MANUFACTURED BY SPRUNG INSTANT STRUCTURES. SEE SPECIFICATION SECTION 13127 FOR OTHER APPROVED DOME MANUFACTURERS AND ASSOCIATED CONTRACTOR RESPONSIBILITIES.

- KEYED NOTES**
1. GRAVEL ACCESS ROAD TO FOLLOW APPROXIMATE LOCATION OF EXISTING DIRT ROAD AS SHOWN. SEE PHASE I-R GRADING SHEET FOR ELEVATION CONTROLS.
 2. HYDROSEED 15'± AREA OUTSIDE FENCE-ACCOMPLISH SEEDING FROM INSIDE FENCE.
 3. GRADE SLOPE FROM GRAVEL ACCESS ROAD TO EXISTING MAINTENANCE ROAD. APPROXIMATE EXISTING SLOPE AND PROVIDE ROCK SLOPE PROTECTION.
 4. LOCATE AND MAINTAIN SILT FENCE IMMEDIATELY INSIDE EXISTING FENCE (TYPICAL SEE SHEET C31, DETAIL 3. REMOVE WHEN PHASE I-R CONSTRUCTION IS COMPLETE, OR AS DIRECTED BY CONTRACT ADMINISTRATOR. SEE WATERLINE PLANS FOR SILT FENCE CONTINUATION.
 5. NOT USED
 6. GRADE EXISTING MAINTENANCE DIRT ROAD. APPROXIMATE EXISTING SLOPE AND CONSTRUCT GRAVEL MAINTENANCE ROAD.
 7. PROVIDE 6" TOPSOIL, HYDROSEED AND GRAVEL MULCH.
 8. CONTROL JOINT.
 9. INSTALL HAYBALE BARRIER PER PROJECT STORM WATER POLLUTION AND PREVENTION PLAN DRAWING NO 2, DETAIL NO 3.
 10. FIRE PROTECTION WATER DRAIN INLET DETAIL, SEE SHEET C35, DETAIL 25.
 11. BOLLARD 18" FROM EDGE OF DRAIN INLET, SEE SHEET C32, DETAIL 9.

RECORD DRAWING
 DATE: DECEMBER 1995
 These drawings have been revised based on the construction records of the same. While the information submitted by the owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record documents as a result thereof.

SEE COVER SHEET FOR ADDITIONAL RECORD DRAWING INFORMATION

THIS DRAWING SET WAS DEVELOPED FOR FOUR PHASES. BID ONLY WORK DESIGNATED AS PHASE I-R. WORK DESIGNATED AS BELONGING TO PHASE II-R, PHASE III-R OR PHASE IV-R IS FOR INFORMATION ONLY.

NO.	DATE	CLASS REVIEW	REVISIONS	DWN	DES	CHKD	REL	SUB	REC	APP
2	12/95		AS-BUILT WITH CHANGES							
1	11/07/94		FDI: RESIZE FPW LINE, ADD FIRE SPRINKLER SUPPLY LINE, ADD DRAIN LINE AND INLETS							

LEEDSHILL-HERKENHOFF, INC.
 ARCHITECTS ENGINEERS
 ALBUQUERQUE SANTA FE SAN DIEGO

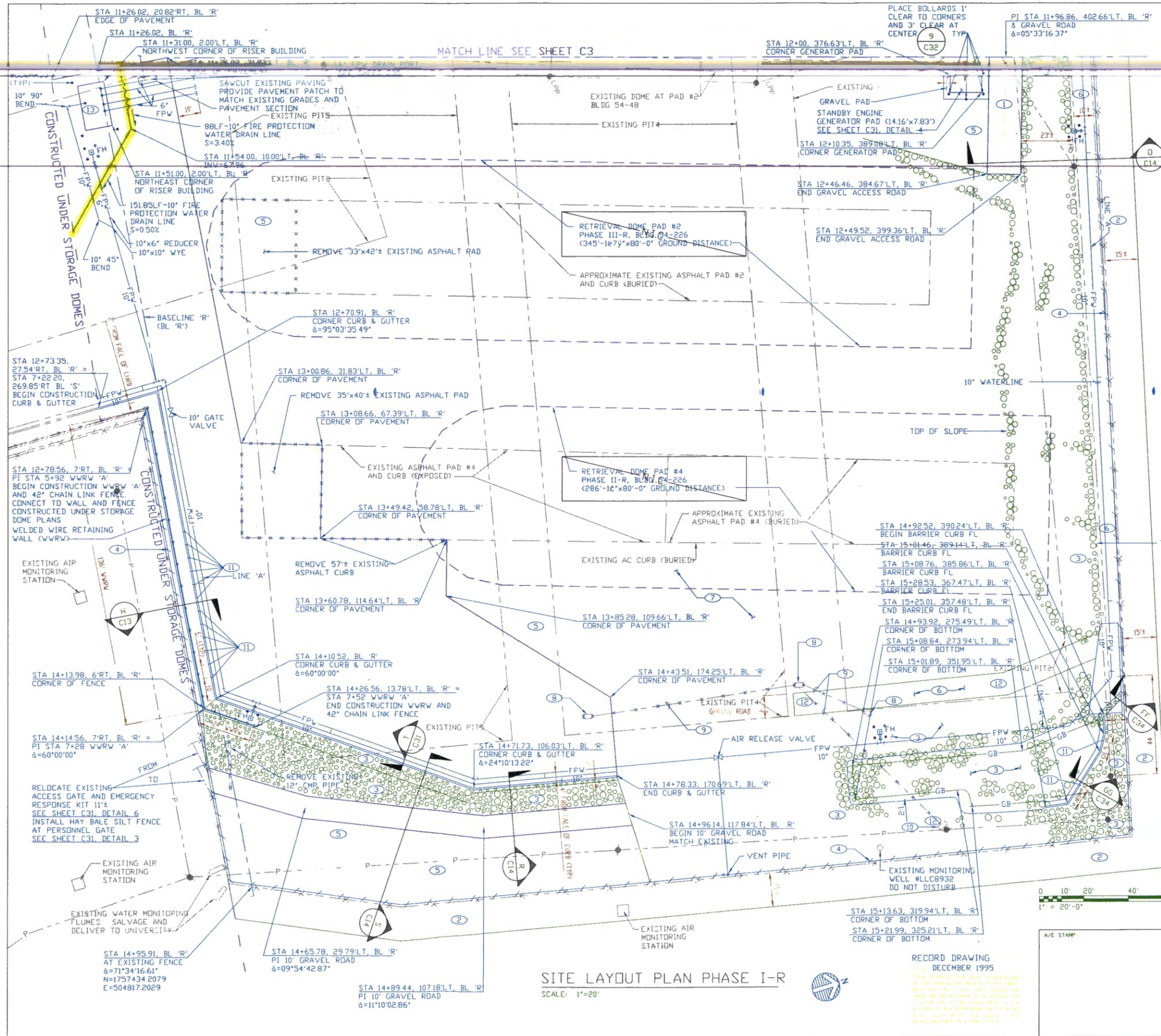
TRU WASTE RETRIEVAL DOME
 CIVIL SITE LAYOUT PLAN PHASE I-R (WEST)
 BLDG. 54-226 TA-54
 DRAWN: K KRDNH
 DESIGN: G NEMETH
 CHECKED: C DODGE
 RELEASED: G NEMETH
 DATE: 6/6/94

SUBMITTED	RECOMMENDED	APPROVED
DAVID DOZIER	DAVID POWELL	CORY HIGGINS
Los Alamos National Laboratory, Los Alamos, New Mexico 87545		
CLASSIFICATION	REVIEWER	DATE
PROJECT ID: 14211	DRAWING NO.: C49422	REV.: 2

SITE LAYOUT PLAN PHASE I-R
 SCALE: 1"=20'



A/E STAMP



- NOTES**
- A FOR PAVING DETAILS, SEE SHEET C31.
 - B FOR ELECTRICAL SITE WORK, SEE SHEET E4.
 - D FOR WELDED WIRE RETAINING WALL ELEVATION AND DETAILS, SEE SHEET C23.
 - E FOR WATERLINE CONSTRUCTION, SEE SHEETS C24 THRU C30.
 - F FOR 'CAREFUL EXCAVATION' OVER PITS, SEE SHEET C2, NOTE F.
 - G FOR SECURITY FENCE REMOVAL DURATION, SEE SHEET C2, NOTE J.
 - H FOR 42" CHAIN LINK FENCE DETAILS, SEE SHEET C34.
 - J FIRE HYDRANTS LOCATED BEHIND THE CURB AND GUTTER REQUIRE ONLY 2 BOLLARDS ON THE TRAFFIC SIDE OF THE HYDRANT.
 - K FOR BOLLARD DETAIL AND PLACEMENT, SEE SHEET C32, DETAILS 9 AND 10.

- KEYED NOTES**
1. GRAVEL ACCESS ROAD TO FOLLOW APPROXIMATE LOCATION OF EXISTING DIRT ROAD AS SHOWN. SEE PHASE I-R GRADING SHEET FOR ELEVATION CONTROLS.
 2. HYDROSEED 15'± AREA OUTSIDE FENCE - ACCOMPLISH SEEDING FROM INSIDE FENCE.
 3. PROVIDE SEED AND ROCK PROTECTION FROM TOP OF SLOPE TO TOE OF SLOPE AND ON BOTTOM OF ATTENUATION BASIN.
 4. LOCATE AND MAINTAIN SILT FENCE IMMEDIATELY INSIDE EXISTING FENCE (TYPICAL) SEE SHEET C31, DETAIL 3. REMOVE WHEN PHASE I-R CONSTRUCTION IS COMPLETE.
 5. PROVIDE 6" TOPSOIL, HYDROSEED, AND GRAVEL MULCH.
 6. GRADE EXISTING DIRT MAINTENANCE ROAD. CONSTRUCT GRAVEL MAINTENANCE ROAD.
 7. THERE ARE TWO EXISTING LANE TRAILERS STORED IN THE VICINITY OF PAD #4. COORDINATE ALL WORK IN THIS VICINITY WITH THE CONTRACT ADMINISTRATOR.
 8. REMOVE ELECTRICAL EQUIPMENT AND SUPPORT STRUCTURES.
 9. REMOVE CONDUCTORS AND ABOVE GROUND CONDUIT. ABANDON UNDERGROUND CONDUIT BELOW GRADE.
 10. ABANDON DISCONNECT SWITCH IN PLACE.
 11. 3" DIAMETER PVC SPREADED PIPE.
 12. PROVIDE GRAVEL OVER AREAS NOT ALREADY GRAVEL.
 13. SPRINKLER RISER BUILDING, SEE SHEET C35, DETAIL 22.

SEE COVER SHEET FOR ADDITIONAL RECORD DRAWING INFORMATION

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NO	DATE	CLASS	REVISIONS	DWN	DES	CHKD	REL	SUB	REC	APP
7/5/95		FDI3R	ADDED ROCK PLATING							
06/23/95		FDI4	SAWCUT EXISTING PAVING AND ADD FIRE PROTECTION DRAIN PORT							
12/95		AS-BUILT	WITH CHANGES							

LEEDSHILL-HERKENHOFF, INC.
 ARCHITECTS ENGINEERS
 ALBUQUERQUE SANTA FE SAN DIEGO

TRU WASTE RETRIEVAL DOME
 CIVIL SITE LAYOUT PLAN PHASE I-R (EAST)

BLDG 54-226 TA-54

SUBMITTED DAVID DOZIER	RECOMMENDED DAVID POWELL	APPROVED CORY HIGGINS
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Los Alamos National Laboratory
 Los Alamos, New Mexico 87545

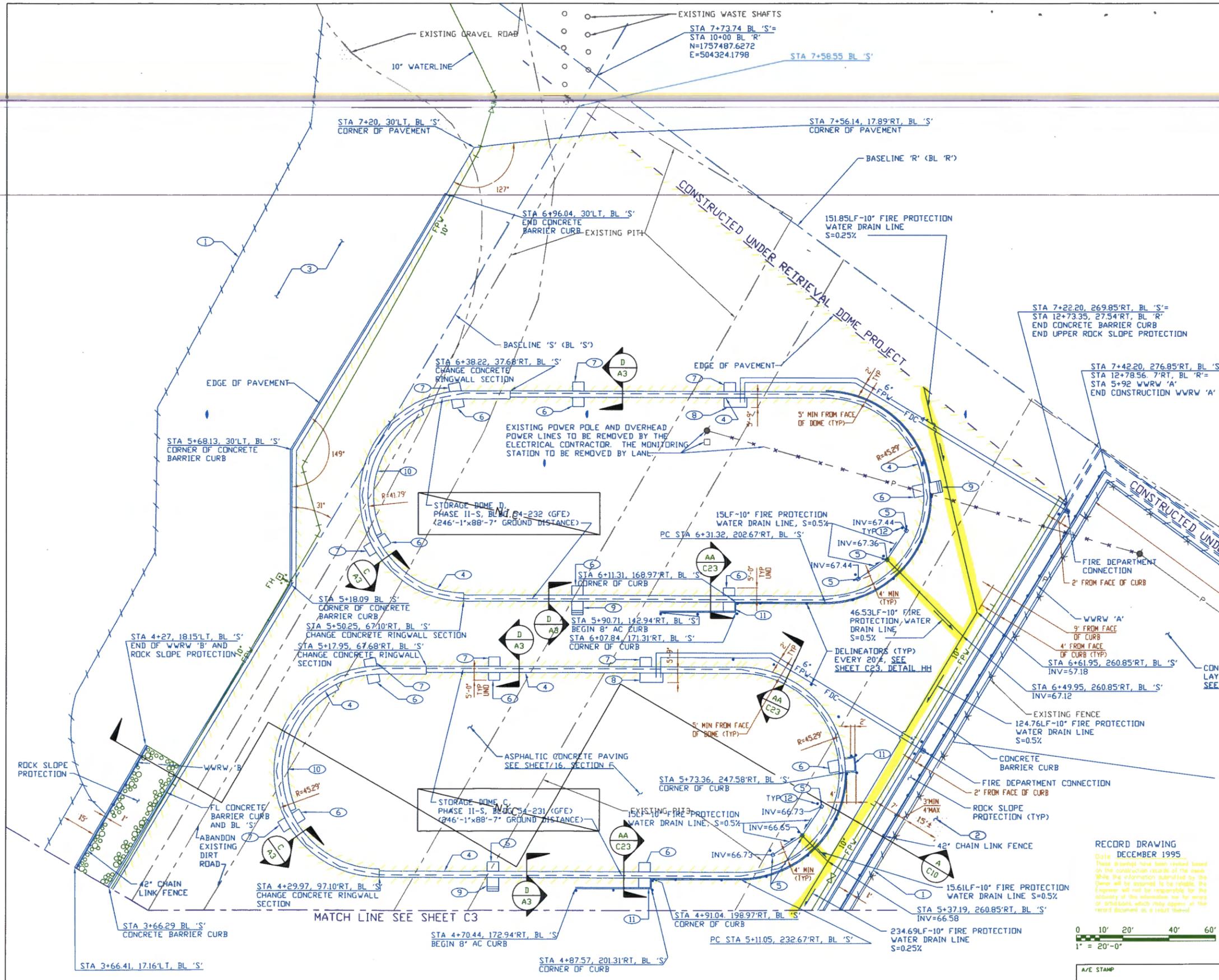
CLASSIFICATION	REVIEWER	DATE
PROJECT ID 14211	DRAWING NO. C49422	REV. 6

SITE LAYOUT PLAN PHASE I-R
 SCALE: 1"=20'

RECORD DRAWING
 DECEMBER 1995



A/E STAMP



NOTES

- A FOR WATERLINE LAYOUT, SEE SHEETS C14, C15, C15A AND C15B.
- B FOR GRADING, SEE SHEETS C5 AND C6.
- C FOR WELDED WIRE RETAINING WALL, SEE SHEETS C18 AND C19.
- D FOR STORAGE DOME, SEE ARCHITECTURAL SHEETS A1 THRU A3.
- E FOR ELECTRICAL SITE WORK, SEE SHEETS C3 THRU C8.
- F FOR PAVING SECTIONS, SEE SHEET C16.
- G FOR CONCRETE BARRIER CURB, SEE SHEET C16.
- H FOR CHAIN LINK FENCE PLACEMENT, SEE SHEETS C18, C19 AND C21.
- I DOME(S) SHOWN ON THESE DRAWINGS ARE BASED ON DOMES MANUFACTURED BY SPRUNG INSTANT STRUCTURES. SEE SPECIFICATION SECTION 13122 FOR OTHER APPROVED DOME MANUFACTURERS AND ASSOCIATED CONTRACTOR RESPONSIBILITIES.
- J FDC = FIRE DEPARTMENT CONNECTION
- K UND = UNLESS NOTED OTHERWISE

KEYED NOTES

1. INSTALL AND MAINTAIN SILT FENCE IMMEDIATELY INSIDE EXISTING FENCE AND AT THE TOE OF PROPOSED SLOPES (TYPICAL). SEE SHEET C10, DETAIL 2. REMOVE SILT FENCE AFTER ESTABLISHMENT OF VEGETATION AS DIRECTED BY THE CONTRACT ADMINISTRATOR. SEE SHEET C14 FOR SILT FENCE CONTINUATION.
2. HYDROSEED 15'± AREA OUTSIDE FENCE-ACCOMPLISH SEEDING FROM INSIDE FENCE.
3. PROVIDE 6" TOPSOIL, HYDROSEED AND GRAVEL MULCH.
4. PROVIDE RINGWALL CONTRACTION JOINTS AT A MAXIMUM OF 20' ON CENTER. SEE SHEET C23, DETAIL FF. PROVIDE RINGWALL EXPANSION JOINTS AT A MAXIMUM OF 120' ON CENTER. SEE SHEET C23, DETAIL GG. LOCATE JOINTS HALFWAY BETWEEN COLUMN LINES.
5. FIRE PROTECTION WATER DRAIN INLET, SEE SHEET C23, DETAIL II.
6. INTERIOR CONCRETE STOOP, 5' WIDE SEE SHEET A3, SECTION E.
7. EXTERIOR CONCRETE STOOP, 5' WIDE SEE SHEET C20, SECTION Q.
8. CONCRETE PAD AT RISER, 5' WIDE SEE SHEET C20, SECTION Q.
9. CONCRETE LANDING WITH STEPS AND HANDRAIL, 5' WIDE SEE SHEET A3, SECTION E.
10. CONCRETE PAD AT ROLLING DOOR, SEE SHEET C20, SECTION R.
11. 4' x 5' x 1'-6" THICK CONCRETE STOOP WITH #4@12 EACH WAY, TOP AND BOTTOM. SLOPE TOP OF STOOP 2%.
12. BOLLARD 18" FROM EDGE OF DRAIN INLET. SEE SHEET C17, DETAIL 5.

THIS DRAWING SET WAS DEVELOPED FOR FOUR PHASES. BID ONLY WORK DESIGNATED AS PHASE I-S. WORK DESIGNATED AS BELONGING TO PHASE II-S, PHASE III-S OR PHASE IV-S IS FOR INFORMATION ONLY.

NO.	DATE	CLASS REVIEW	REVISIONS	DWN	DES	CHKD	REL	SUB	REC	APP
2	12/95		AS-BUILT WITH CHANGES							
1	11/14/94		ADD AND RESIZE FPW LINE, ADD DRAIN LINE AND INLETS							

LEEDSHILL-HERKENHOFF, INC.
ARCHITECTS ENGINEERS

TRU WASTE TEMPORARY STORAGE DOMES

CIVIL: SITE LAYOUT PLAN PHASE I-S (NORTH)

BLDG. 54-231, 54-232 TA-54 DATE: 6/6/94

SUBMITTED DAVID DOZIER	RECOMMENDED DAVID POWELL	APPROVED CORY HIGGINS
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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

CLASSIFICATION: PROJECT ID: 13868 REVIEWER: C49421 DATE: REV: 2

RECORD DRAWING
DATE: DECEMBER 1995
These drawings have been revised based on the construction records of the work. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the validity of this information nor for errors or omissions which they appear on the record document as a result thereof.

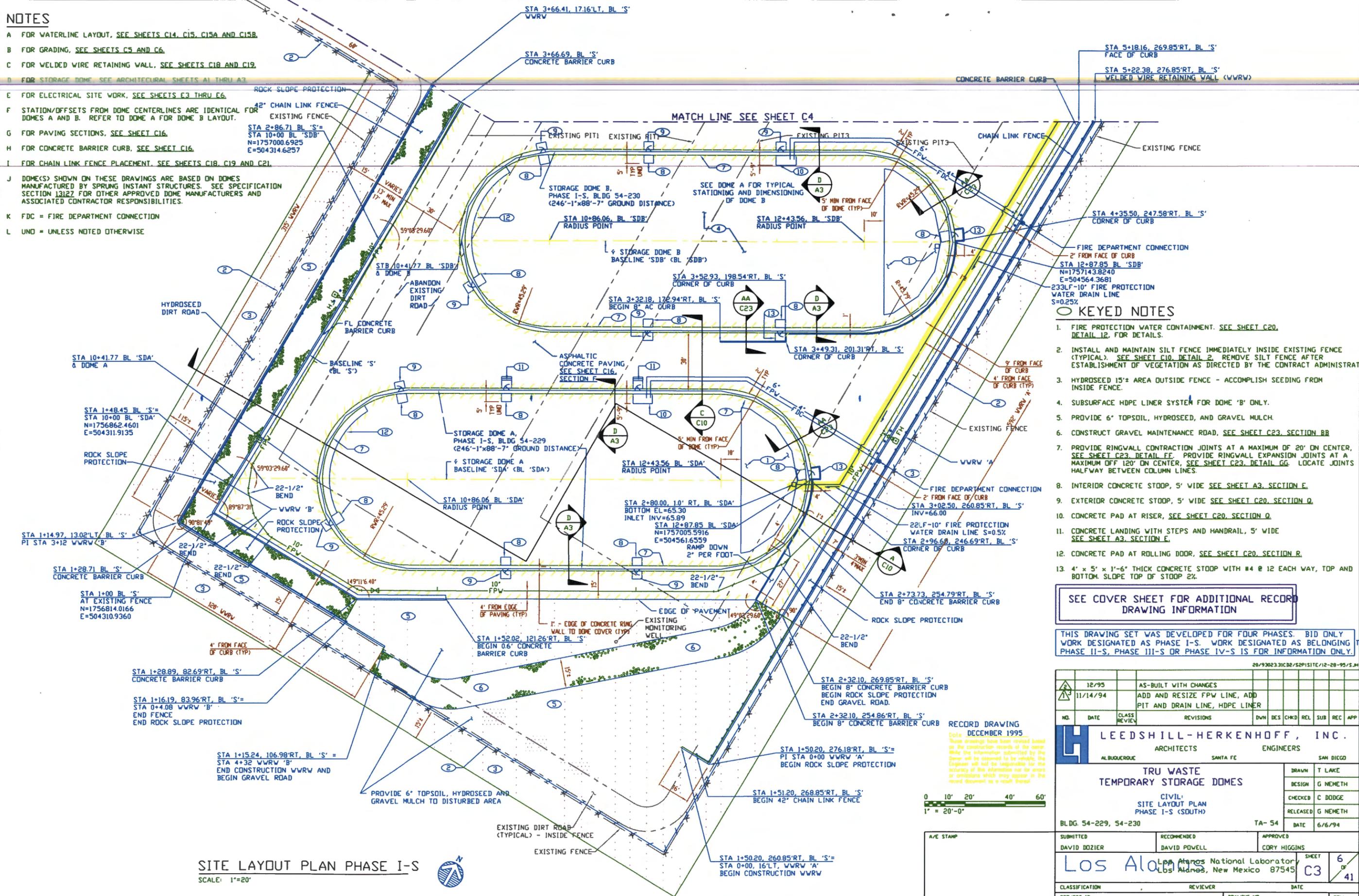


SITE LAYOUT PLAN PHASE I-S
SCALE: 1"=20'

SEE COVER SHEET FOR ADDITIONAL RECORD DRAWING INFORMATION

NOTES

- A FOR WATERLINE LAYOUT, SEE SHEETS C14, C15, C15A AND C15B.
- B FOR GRADING, SEE SHEETS C5 AND C6.
- C FOR WELDED WIRE RETAINING WALL, SEE SHEETS C18 AND C19.
- D FOR STORAGE DOME, SEE ARCHITECTURAL SHEETS A1 THRU A3.
- E FOR ELECTRICAL SITE WORK, SEE SHEETS E3 THRU E6.
- F STATION/OFFSETS FROM DOME CENTERLINES ARE IDENTICAL FOR DOMES A AND B. REFER TO DOME A FOR DOME B LAYOUT.
- G FOR PAVING SECTIONS, SEE SHEET C16.
- H FOR CONCRETE BARRIER CURB, SEE SHEET C16.
- I FOR CHAIN LINK FENCE PLACEMENT, SEE SHEETS C18, C19 AND C21.
- J DOMES(S) SHOWN ON THESE DRAWINGS ARE BASED ON DOMES MANUFACTURED BY SPRUNG INSTANT STRUCTURES. SEE SPECIFICATION SECTION 13127 FOR OTHER APPROVED DOME MANUFACTURERS AND ASSOCIATED CONTRACTOR RESPONSIBILITIES.
- K FDC = FIRE DEPARTMENT CONNECTION
- L UND = UNLESS NOTED OTHERWISE



- KEYED NOTES**
1. FIRE PROTECTION WATER CONTAINMENT. SEE SHEET C20, DETAIL 12, FOR DETAILS.
 2. INSTALL AND MAINTAIN SILT FENCE IMMEDIATELY INSIDE EXISTING FENCE (TYPICAL). SEE SHEET C10, DETAIL 2. REMOVE SILT FENCE AFTER ESTABLISHMENT OF VEGETATION AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 3. HYDROSEED 15% AREA OUTSIDE FENCE - ACCOMPLISH SEEDING FROM INSIDE FENCE.
 4. SUBSURFACE HDPE LINER SYSTEM FOR DOME 'B' ONLY.
 5. PROVIDE 6" TOPSOIL, HYDROSEED, AND GRAVEL MULCH.
 6. CONSTRUCT GRAVEL MAINTENANCE ROAD, SEE SHEET C23, SECTION BB.
 7. PROVIDE RINGWALL CONTRACTION JOINTS AT A MAXIMUM OF 20' ON CENTER, SEE SHEET C23, DETAIL EE. PROVIDE RINGWALL EXPANSION JOINTS AT A MAXIMUM OFF 120' ON CENTER, SEE SHEET C23, DETAIL GG. LOCATE JOINTS HALFWAY BETWEEN COLUMN LINES.
 8. INTERIOR CONCRETE STOOP, 5' WIDE SEE SHEET A3, SECTION E.
 9. EXTERIOR CONCRETE STOOP, 5' WIDE SEE SHEET C20, SECTION Q.
 10. CONCRETE PAD AT RISER, SEE SHEET C20, SECTION Q.
 11. CONCRETE LANDING WITH STEPS AND HANDRAIL, 5' WIDE SEE SHEET A3, SECTION E.
 12. CONCRETE PAD AT ROLLING DOOR, SEE SHEET C20, SECTION R.
 13. 4' x 5' x 1'-6" THICK CONCRETE STOOP WITH #4 @ 12 EACH WAY, TOP AND BOTTOM. SLOPE TOP OF STOOP 2%.

SEE COVER SHEET FOR ADDITIONAL RECORD DRAWING INFORMATION

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NO.	DATE	CLASS REVIEW	REVISIONS	DWN	DES	CHKD	REL	SUB	REC	APP
1	12/95		AS-BUILT WITH CHANGES							
2	11/14/94		ADD AND RESIZE FPW LINE, ADD PIT AND DRAIN LINE, HDPE LINER							

LEEDSHILL-HERKENHOFF, INC.
 ARCHITECTS ENGINEERS
 ALBUQUERQUE SANTA FE SAN DIEGO

TRU WASTE TEMPORARY STORAGE DOMES
 CIVIL SITE LAYOUT PLAN PHASE I-S (SOUTH)
 BLDG. 54-229, 54-230 TA-54 DATE 6/6/94

SUBMITTED DAVID DOZIER	RECOMMENDED DAVID POWELL	APPROVED CORY HIGGINS
Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET 6 OF 41 C3
CLASSIFICATION PROJECT ID 13868	REVIEWER DRAWING NO. C49421	DATE REV. 2

SITE LAYOUT PLAN PHASE I-S
 SCALE: 1"=20'



RECORD DRAWING
 DECEMBER 1995
 Note: These drawings have been revised based on the construction records of the owner. While the information submitted by the owner will be approved for its release, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.