6081

Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246
(513) 648-3155

DEC 14 2005

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0044-06

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Mr. Bill Kurey
United States Fish & Wildlife Service, Suite H
6950 American Parkway
Reynoldsburg, OH 43068

Dear Mr. Saric, Mr. Schneider and Mr. Kurey:

TRANSMITTAL OF AREA 6 - FORMER PRODUCTION AREA (FPA) MDC FIRST AND SECOND STREETS, AND AREA 5 RESTORATION GRADING PLANS

Reference: Letter DOE-0006-05, from W. Taylor to J. Saric, T. Schneider and B. Kurey, "Transmittal of the Former Production Area Natural Resource Restoration Design Plan," dated October 6, 2004

Enclosed is the Grading Plan for Area 6 - FPA which includes the perimeter of the Production Area, MDC 1st and 2nd Street and Area 5. This grading plan is referenced in the Final Former Production Area (FPA) Natural Resource Restoration Design Plan (NRRDP). The Grading Plan proposes additional wetland and open water areas around the perimeter of the Production Area as topography and hydrology allow. The grading plan also includes connections to Areas 3 and 4 to allow drainage to enter the restored Main Drainage Corridor as proposed in the FPA NRRDP. Seeding and soil amendment plans are also included in the Grading Plan. Restoration grading in Area 6 - FPA is currently scheduled to commence in March 2006, but will be accelerated if possible.

If you have any questions or require additional information, please contact me at (513) 648-3139.

Sincerely,

Johnny W. Reising
Director

Enclosure

cc w/ enclosure:
J. Desormeau, DOE-OH/FCP
G. Stegner, DOE-OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosures)
G. Jablonowski, USEPA-V, SR-6J
D. Sarno, FCAB
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS6

cc w/o enclosure:
H. Bilson, Fluor Fernald, Inc./MS1
J. Chiou, Fluor Fernald, Inc./MS88
J. Homer, Fluor Fernald, Inc./MS90
F. Johnston, Fluor Fernald, Inc./MS12
U. Kumthekar, Fluor Fernald, Inc./MS88
L. McHenry, Fluor Fernald, Inc./MS90
D. Nixon, Fluor Fernald, Inc./MS1
D. Powell, Fluor Fernald, Inc./MS64
J. Schwing, Fluor Fernald, Inc./MS90
H. Swiger, Fluor Fernald, Inc./MS90
S. Walpole, Fluor Fernald, Inc./MS76
J. Williams, Fluor Fernald, Inc./MS60
E. Woods, Fluor Fernald, Inc./MS90

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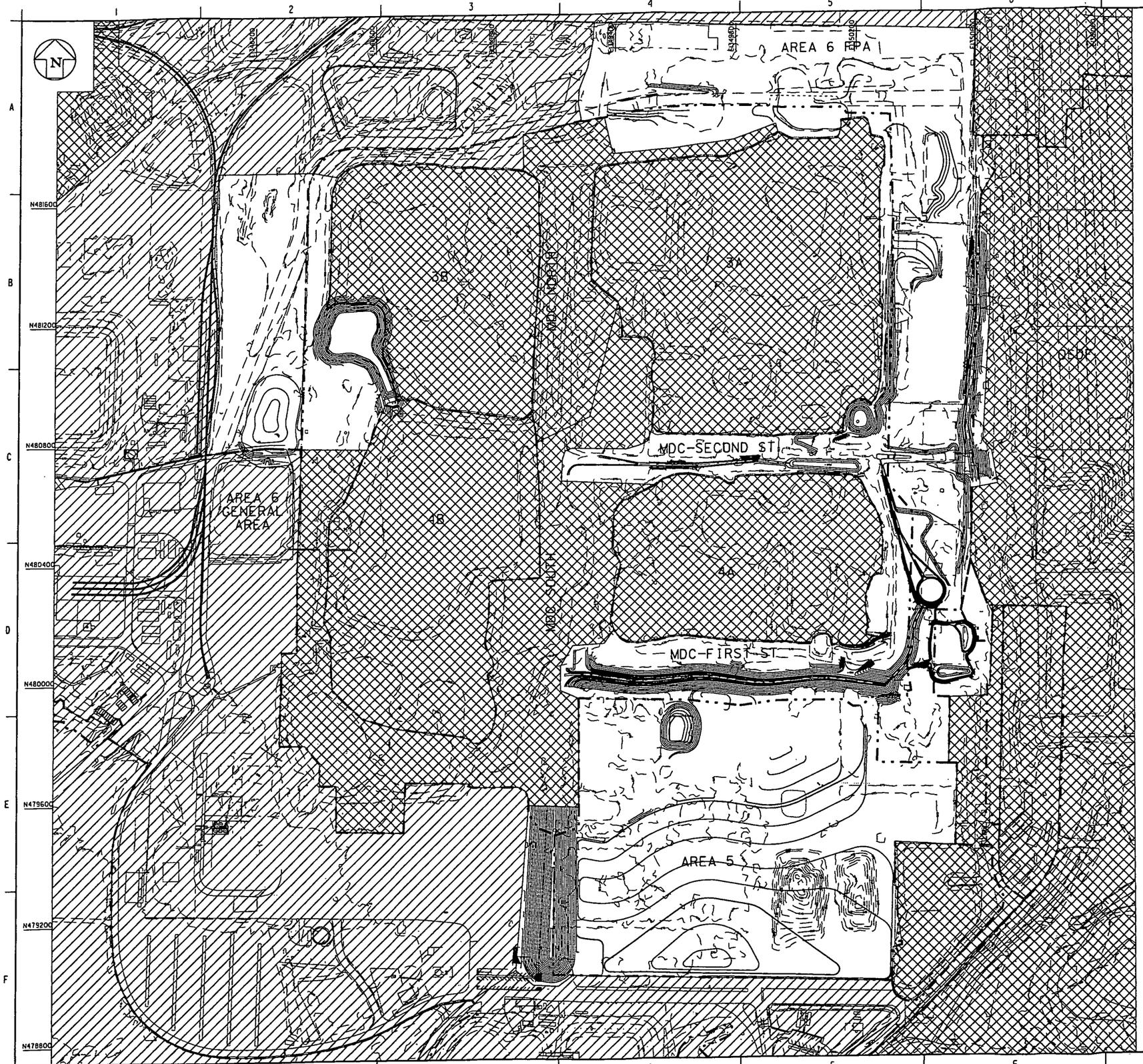

FCPSAE.DGN 5/30/03

GENERAL NOTES

1. THIS DRAWING DEPICTS AN OVERALL VIEW OF AREA 6 FORMER PRODUCTION AREA (FPA), FIRST STREET, SECOND STREET, AND AREA 5. DETAILS FOR GRADING, CERTIFICATION BOUNDARIES, PLANTING AND SOIL AMENDMENT ARE PROVIDED ON SHEETS G-2 THRU G-9.
2. EXISTING TOPOGRAPHY TAKEN FROM CURRENT LIDAR SURVEY PERFORMED ON SEPTEMBER 02, 2005.
3. HORIZONTAL CONTROL SHOWN ON DRAWING IS BASED UPON NORTH AMERICAN DATUM 1983 (NAD 83).
4. VERTICAL CONTROL SHOWN ON DRAWING IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 1929).

6081

LEGEND

- RESTORATION AREAS INCLUDED IN THIS PACKAGE
- RESTORATION AREA DESIGNS COMPLETED
- RESTORATION AREA DESIGNS TO BE SUBMITTED OR FIELD FIT

CONSTRUCTION DRAWING INDEX

DRAWING NO.	DRAWING TITLE	SHEET NO.
99X-5500-G-00935	OVERALL RESTORATION GRADING PLAN	G-1
99X-5500-G-00936	RESTORATION GRADING PLAN SHEET 1 OF 4	G-2
99X-5500-G-00937	RESTORATION GRADING PLAN SHEET 2 OF 4	G-3
99X-5500-G-00938	RESTORATION GRADING PLAN SHEET 3 OF 4	G-4
99X-5500-G-00939	RESTORATION GRADING PLAN SHEET 4 OF 4	G-5
99X-5500-G-00940	SOIL AMENDMENT PLAN SHEET 1 OF 4	G-6
99X-5500-G-00941	SOIL AMENDMENT PLAN SHEET 2 OF 4	G-7
99X-5500-G-00942	SOIL AMENDMENT PLAN SHEET 3 OF 4	G-8
99X-5500-G-00943	SOIL AMENDMENT PLAN SHEET 4 OF 4	G-9

SCALE: 1" = 120'

0 60 120 300 600

SCALE IN FEET

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
A	ISSUED FOR AGENCY REVIEW	12/12/05		

INITIALS AND DATE

UNITED STATES DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

FLUOR FERNALD, INC.

PROJECT NAME

SOIL REMEDIATION

DRAWING TITLE

AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
OVERALL RESTORATION GRADING PLAN

APPROVALS

COGNIZANT ENG.		SAFETY ENG.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		FIRE PROTECT.	
ENGINEER		WASTE MANAGE	
INSTRUMENT		SECURITY	
MECHANICAL		QA	
RESTORATION		CONSTRUCTION	
CHECKED			
APPROVED			

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
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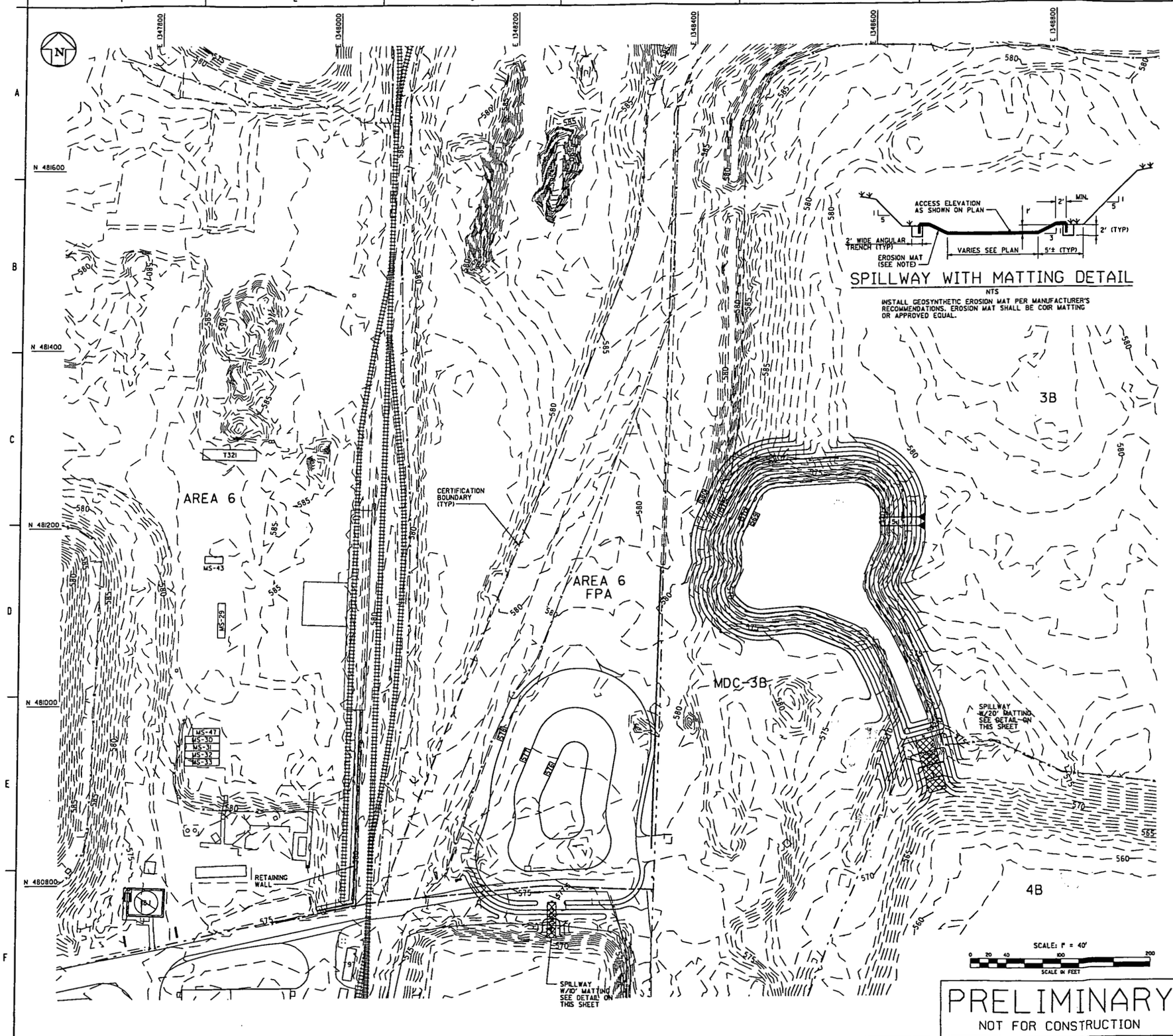

SPILLWAY WITH MATTING DETAIL

NTS

INSTALL GEOSYNTHETIC EROSION MAT PER MANUFACTURER'S RECOMMENDATIONS. EROSION MAT SHALL BE COIR MATTING OR APPROVED EQUAL.

GENERAL NOTES

1. EXISTING TOPOGRAPHY TAKEN FROM CURRENT LIDAR SURVEY PERFORMED ON SEPTEMBER 02, 2005.
2. HORIZONTAL CONTROL SHOWN ON DRAWING IS BASED UPON NORTH AMERICAN DATUM 1983 (NAD 83).
3. VERTICAL CONTROL SHOWN ON DRAWING IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD 1929).
4. CONSTRUCTION MANAGER SHALL VERIFY EXISTING TOPOGRAPHY CONDITIONS PRIOR TO CONSTRUCTION.
5. EXCAVATE DEPRESSIONS, RESTORATION DITCHES, AND PONDS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02200. COMPACT BERMS AND EMBANKMENT FILL TO 90 PERCENT OF STANDARD PROCTOR, MAXIMUM DRY DENSITY.

6081

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- RR TRACKS
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

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UNITED STATES DEPARTMENT OF ENERGY
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THIS DRAWING PREPARED BY
FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 1 OF 4

APPROVALS

COGNIZANT ENG.		SAFETY ENG.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		FIRE PROTECT.	
ENGINEER		WASTE MANAGE.	
INSTRUMENT		SECURITY	
MECHANICAL		QA	
RESTORATION		CONSTRUCTION	
CHECKED			
APPROVED			

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
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PRELIMINARY
NOT FOR CONSTRUCTION

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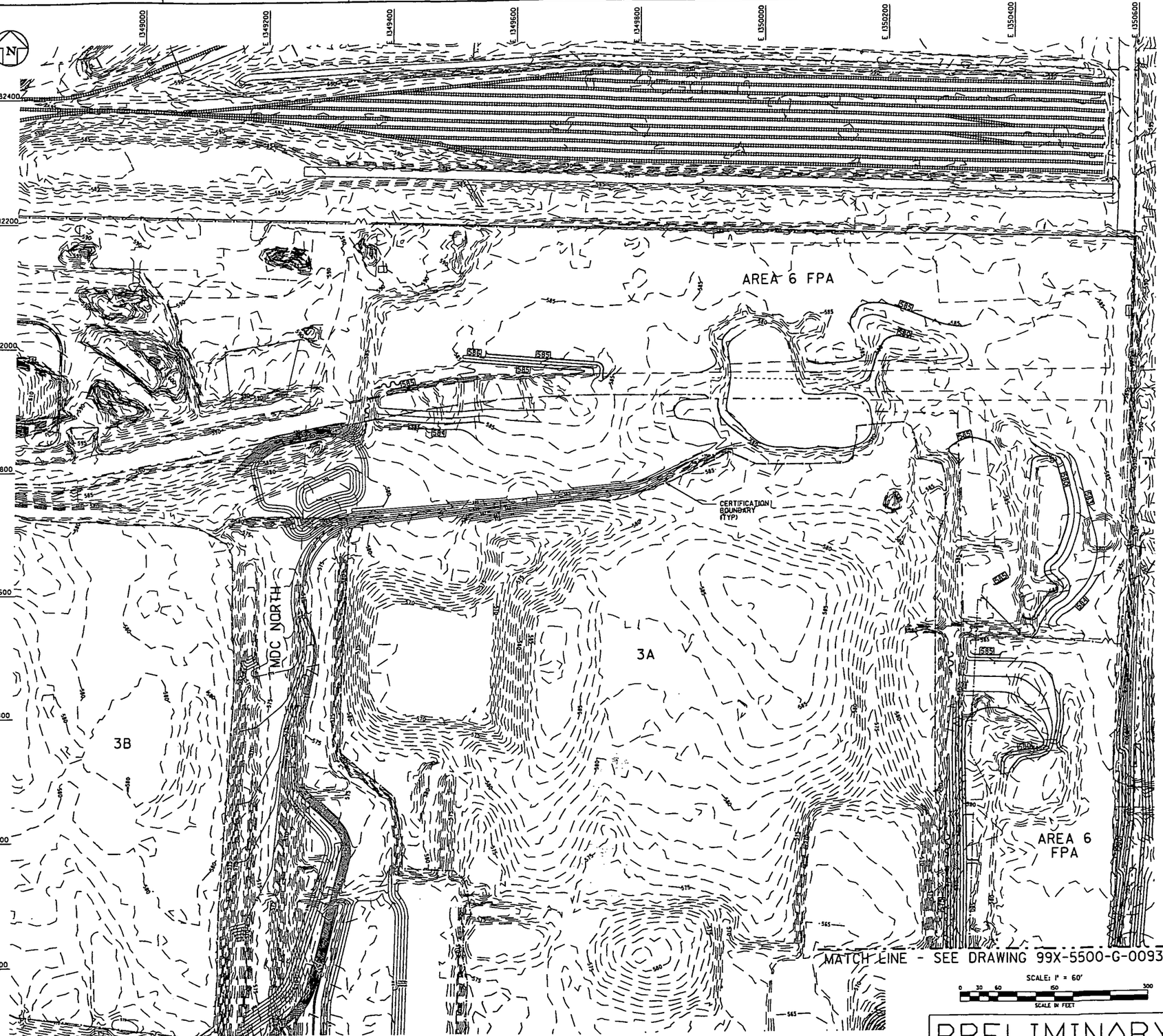

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL NOTES

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6081

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- RR TRACKS
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

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INITIALS AND DATE

UNITED STATES DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 2 OF 4

APPROVALS

COGNIZANT ENG.			SAFETY ENG.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL			FIRE PROTECT.		
ENGINEER			WASTE MANAGE		
INSTRUMENT			SECURITY		
MECHANICAL			QA		
RESTORATION			CONSTRUCTION		
CHECKED					
APPROVED					

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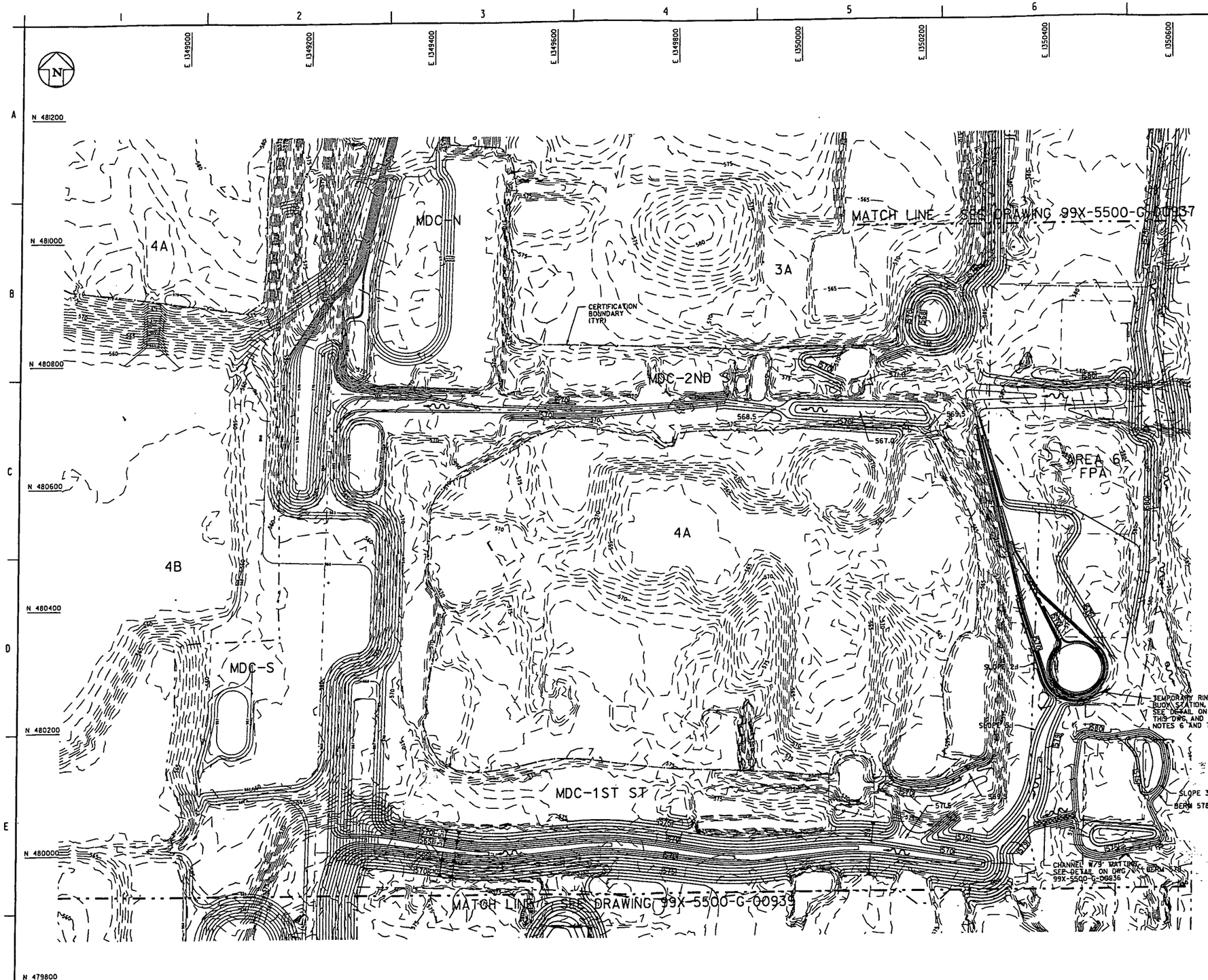

SCALE: 1" = 60'

0 30 60 150 300

SCALE IN FEET

PRELIMINARY

NOT FOR CONSTRUCTION

GENERAL NOTES

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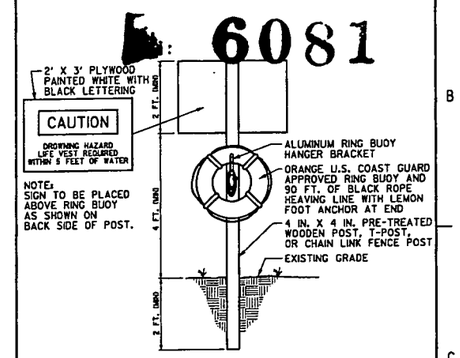
6. RING BUOYS WITH AT LEAST 90 FEET OF LINE SHALL BE PROVIDED DURING CONSTRUCTION AND READILY AVAILABLE FOR EMERGENCY RESCUE OPERATIONS. DISTANCE BETWEEN RING BUOYS SHALL NOT EXCEED 200 FEET.
7. RING BUOYS WILL BE REMOVED WHEN RESTORATION CONSTRUCTION IS COMPLETE.



TEMPORARY TYPICAL RING BUOY STATION DETAIL

NOT TO SCALE

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY
- FLOW DIRECTION

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
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UNITED STATES DEPARTMENT OF ENERGY

FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

FLUOR FERNALD, INC.

PROJECT NAME

SOIL REMEDIATION

DRAWING TITLE

AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5

RESTORATION GRADING PLAN

SHEET 3 OF 4

APPROVALS

COGNIZANT ENG.			SAFETY ENG.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL			FIRE PROTECT.		
ENGINEER			WASTE MANAGE		
INSTRUMENT			SECURITY		
MECHANICAL			QA		
RESTORATION			CONSTRUCTION		
CHECKED					
APPROVED					

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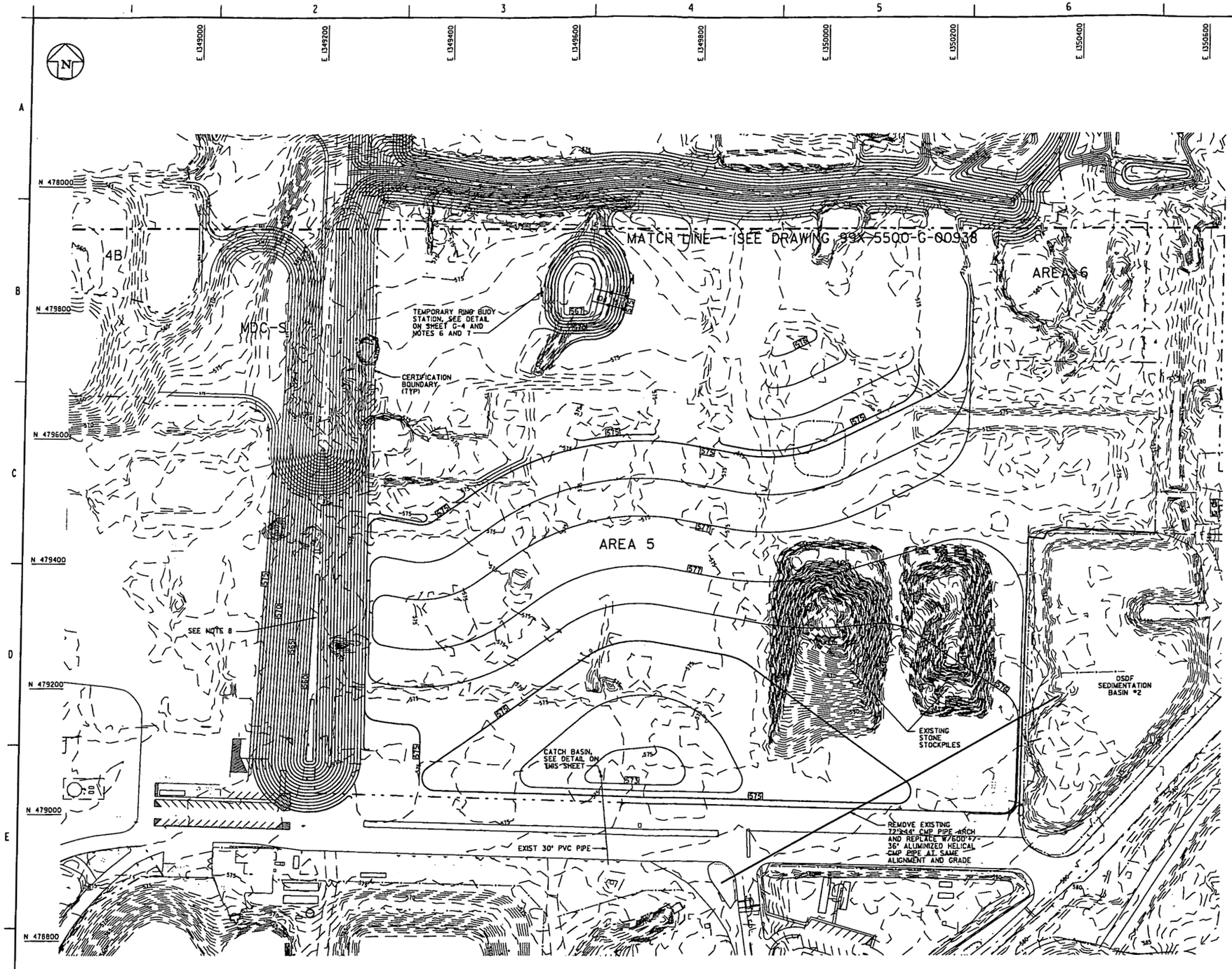

GENERAL NOTES

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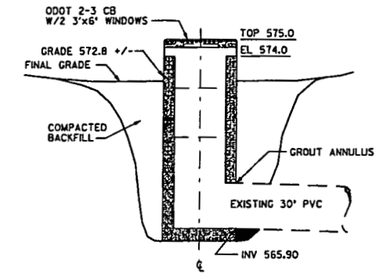
7. RING BUOYS WILL BE REMOVED WHEN RESTORATION CONSTRUCTION IS COMPLETE.
8. RIP-RAP OR CLEAN CONCRETE DEBRIS MAY BE USED AS EROSION PROTECTION ALONG THE CHANNEL.

6081



CATCH BASIN DETAIL
NTS

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- FENCE
- EROSION MATTING
- CERTIFICATION BOUNDARY

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
A	ISSUED FOR AGENCY REVIEW	12/12/05		

INITIALS AND DATE

UNITED STATES DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
RESTORATION GRADING PLAN
SHEET 4 OF 4

SCALE: 1" = 60'
0 30 60 150 300
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

APPROVALS

COGNIZANT ENG.		SAFETY ENG.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		FIRE PROTECT.	
ENGINEER		WASTE MANAGE.	
INSTRUMENT		SECURITY	
MECHANICAL		QA	
RESTORATION		CONSTRUCTION	
CHECKED			
APPROVED			

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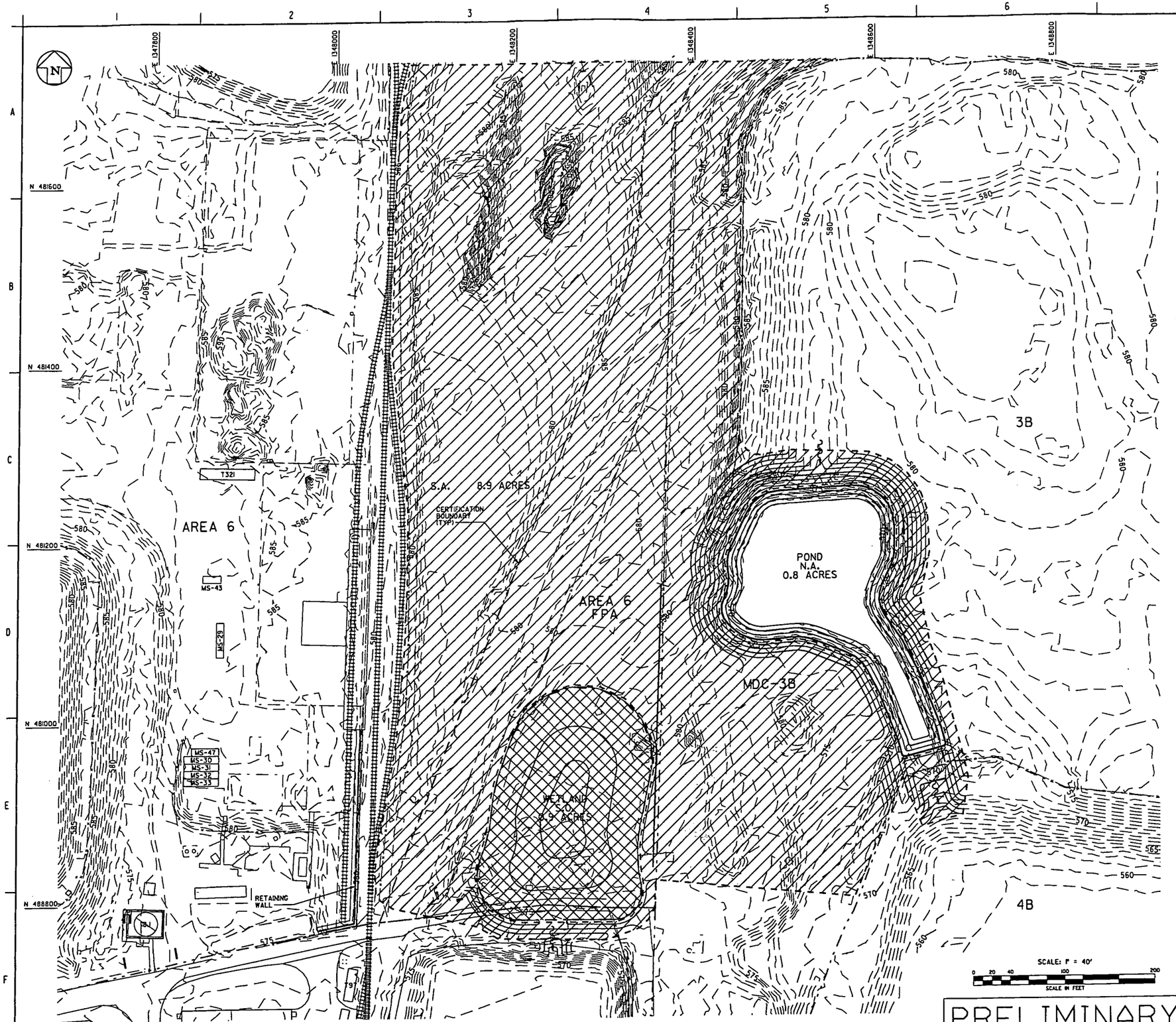

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

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LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.8 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 0.9 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 8.9 ACRES
- CERTIFICATION BOUNDARY

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
A	ISSUED FOR AGENCY REVIEW	12/12/05		

INITIALS AND DATE

UNITED STATES DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 1 OF 4

APPROVALS

COGNIZANT ENG.		SAFETY ENG.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		FIRE PROTECT.	
ENGINEER		WASTE MANAGE	
INSTRUMENT		SECURITY	
MECHANICAL		QA	
RESTORATION		CONSTRUCTION	
CHECKED			
APPROVED			

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
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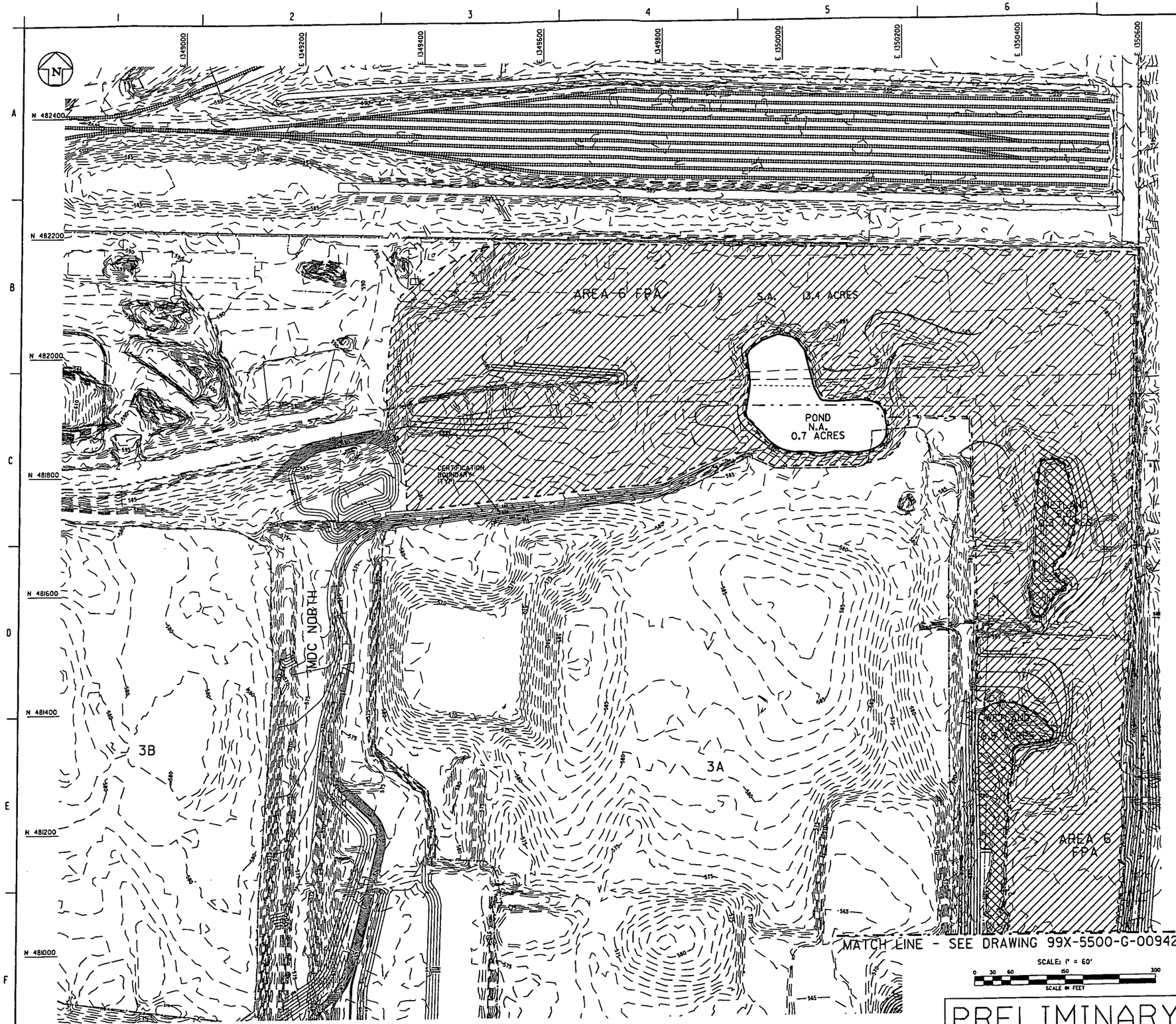

PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
2. SURFACE APPLICATION ONLY IN WETLANDS.
3. BERMS AND PERIMETER REQUIRE FULL AMENDMENT IF TOPSOIL IS NOT PRESENT.

6081

LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.7 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 0.8 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 13.4 ACRES
- CERTIFICATION BOUNDARY

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
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FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY
FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 2 OF 4

APPROVALS

COGNIZANT ENG.			SAFETY ENG.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL			FIRE PROTECT.		
ENGINEER			WASTE MANAGE		
INSTRUMENT			SECURITY		
MECHANICAL			DA		
RESTORATION			CONSTRUCTION		
CHECKED					
APPROVED					

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
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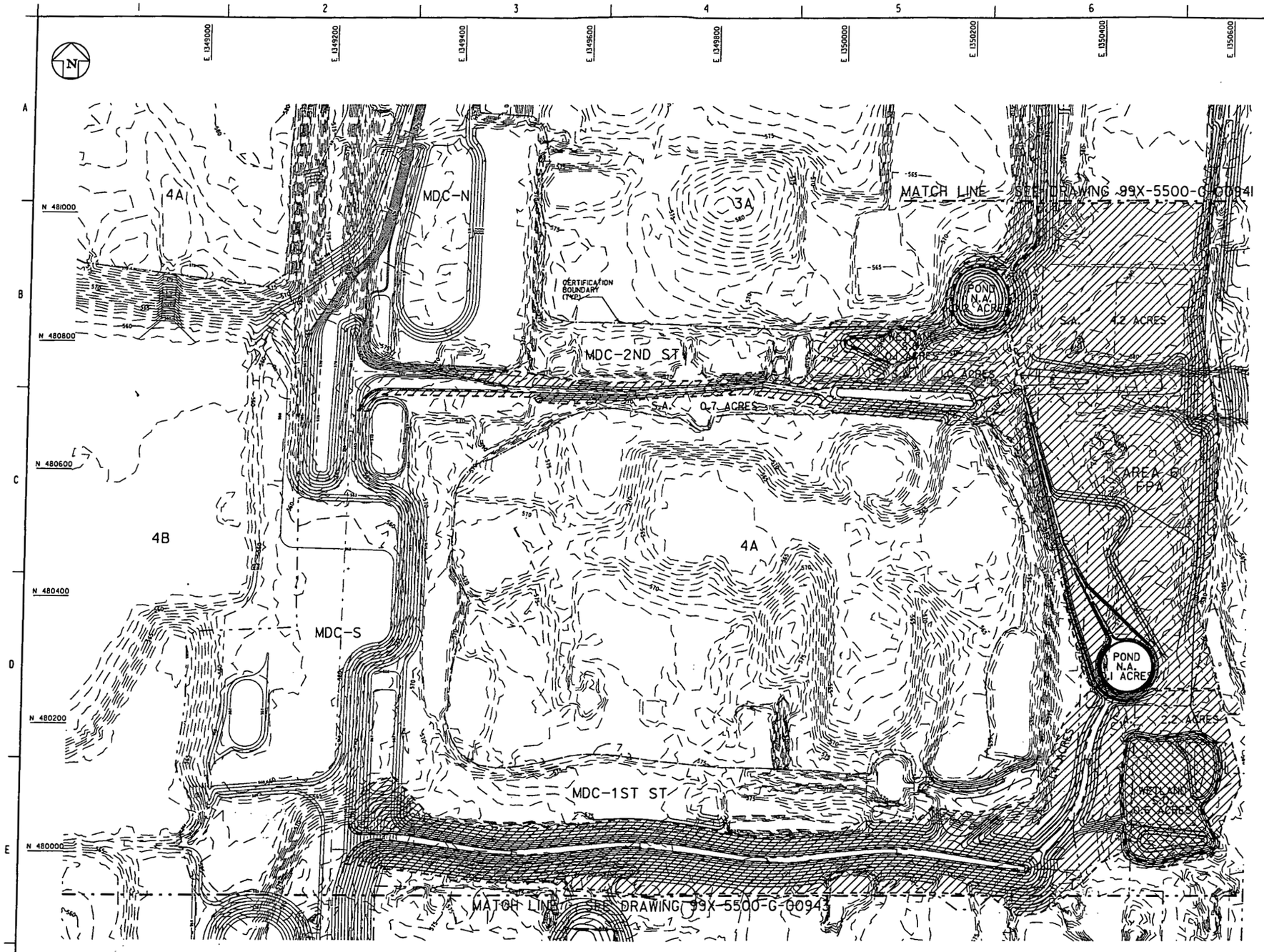

SCALE: 1" = 60'

0 30 60 150 300

SCALE IN FEET

PRELIMINARY

NOT FOR CONSTRUCTION

GENERAL NOTES

1. NO AMENDMENT IN PONDS BELOW SPILLWAY WATER LEVELS.
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LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.3 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 0.7 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 9.5 ACRES
- CERTIFICATION BOUNDARY

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PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 3 OF 4

APPROVALS

COGNIZANT ENG.		SAFETY ENG.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		FIRE PROTECT.	
ENGINEER		WASTE MANAGE	
INSTRUMENT		SECURITY	
MECHANICAL		QA	
RESTORATION		CONSTRUCTION	
CHECKED			
APPROVED			

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
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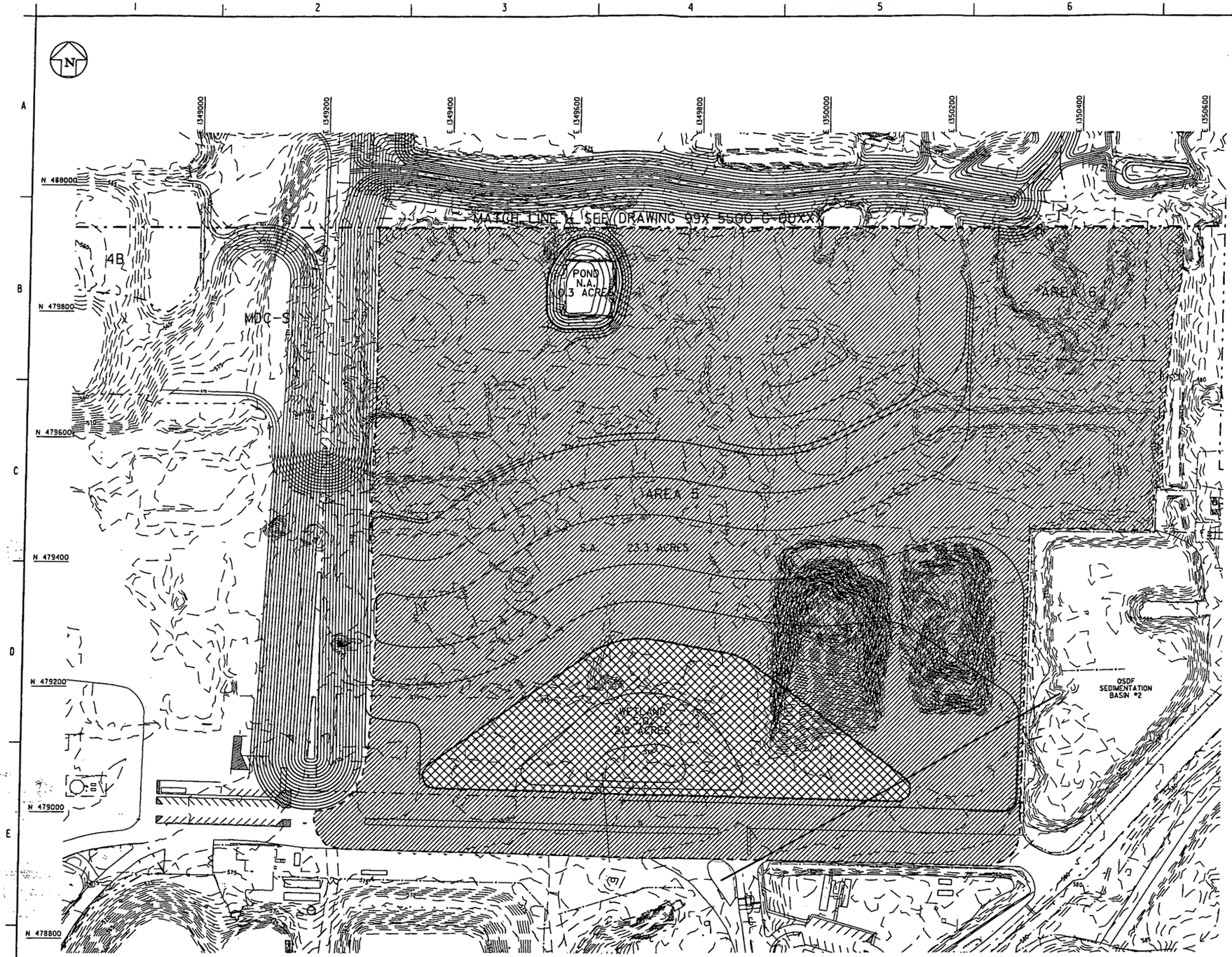

SCALE: 1" = 60'

0 30 60 150 300

SCALE IN FEET

PRELIMINARY

NOT FOR CONSTRUCTION

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6081

LEGEND

- N.A. - NO AMENDMENT TOTAL ACREAGE = 0.3 ACRES
- S.O. - SURFACE APPLICATION ONLY TOTAL ACREAGE = 2.9 ACRES
- S.A. - SOIL AMENDMENT REQUIRED TOTAL ACREAGE = 23.3 ACRES
- CERTIFICATION BOUNDARY

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	DATE	REV. BY	APPR.
A	ISSUED FOR AGENCY REVIEW	12/12/05		

INITIALS AND DATE

UNITED STATES DEPARTMENT OF ENERGY
FERNALD CLOSURE PROJECT

THIS DRAWING PREPARED BY

FLUOR FERNALD, INC.

PROJECT NAME
SOIL REMEDIATION

DRAWING TITLE
AREA 6 (FPA), MDC-FIRST AND SECOND ST., AREA 5
SOIL AMENDMENT PLAN
SHEET 4 OF 4

APPROVALS

COGNIZANT ENG.			SAFETY ENG.		
CIVIL & STR.			MAINTENANCE		
ELECTRICAL			FIRE PROTECT.		
ENGINEER			WASTE MANAGE.		
INSTRUMENT			SECURITY		
MECHANICAL			QA		
RESTORATION			CONSTRUCTION		
CHECKED					
APPROVED					

DRAWN BY	PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
K.L. RABBITT	20600	99X-5500-G-00943	G-9	A
RES PROJECT NO.	FILENAME 99xg0943.dgn			

FCPSAE.DGN 5/30/03