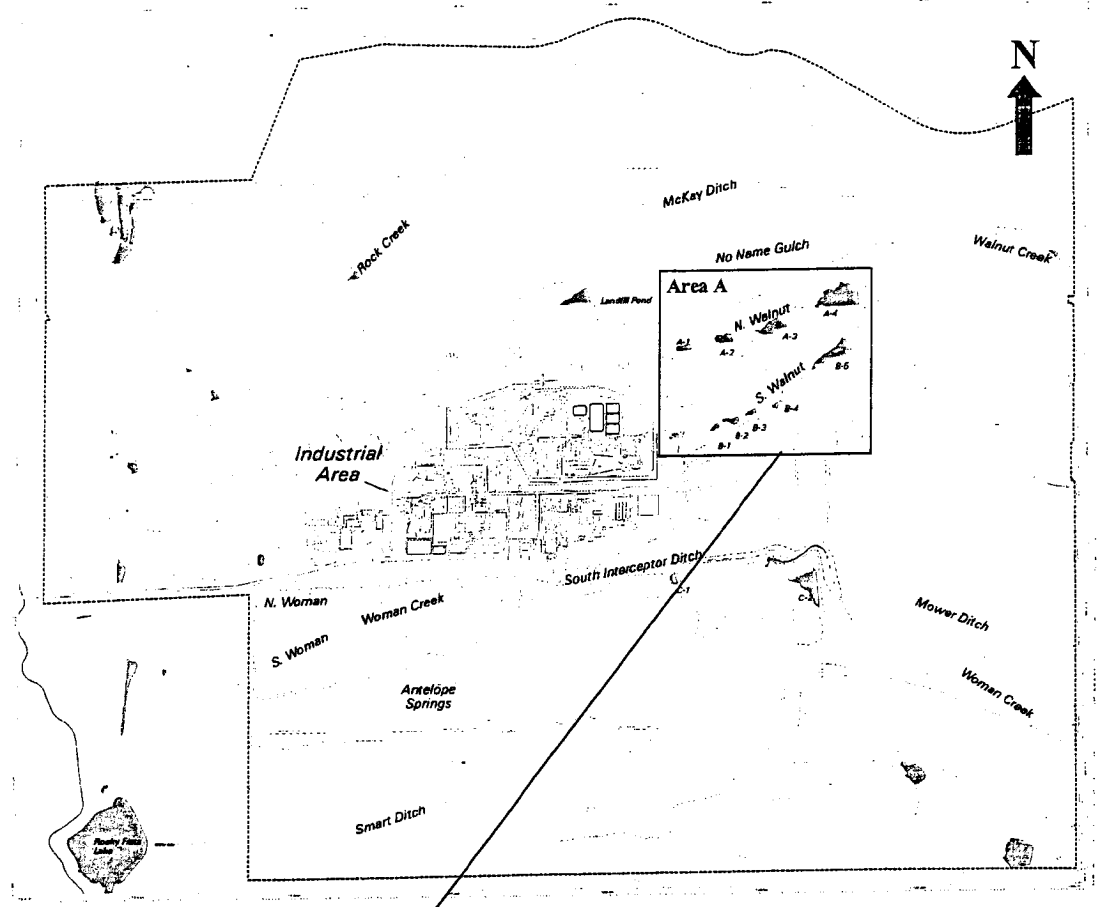
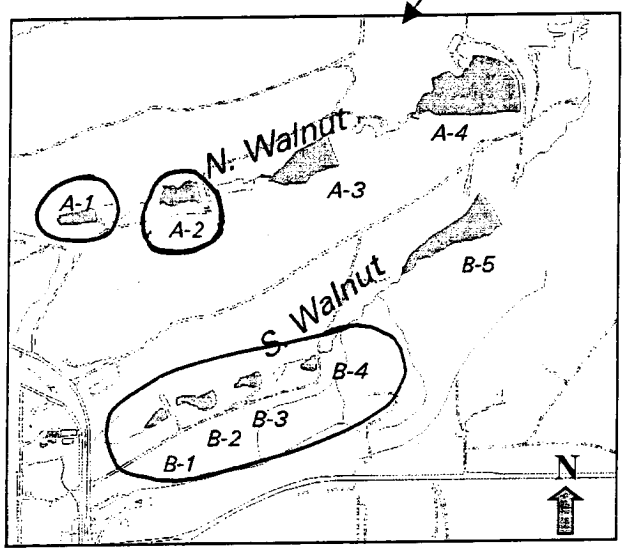
VICINITY MAP

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE





(A-) = DAMS TO BE NOTCHED

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TYPICAL FRONT VIEW OF MODIFIED DAM

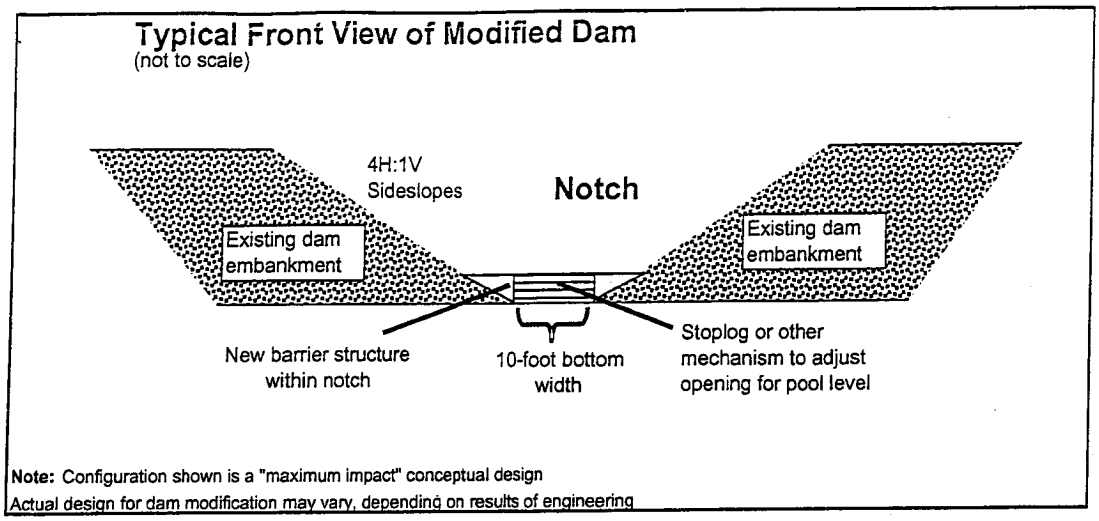

Table 1. Volume Of Material To Be Excavated At Each Dam.

Dam	A-1	A-2	B-1	B-2	B-3	B-4
Breach Length (ft)	120	150	90	110	80	80
Breach Width at Bottom (ft)	10	10	10	10	10	10
Breach Depth (ft)	14	26.4	13	18	13	8
Discharge Area Dimensions (ft)	25 x 15	25 x 15	25 x 15	25 x 15	25 x 15	25 x 15
Side Slopes	4:1	4:1	4:1	4:1	4:1	4:1

Table 2. Volume of Material To Be Excavated At Each Dam.

Dam	A-1	A-2	B-1	B-2	B-3	B-4
Breach Volume (CY)	2615	11443	1903	4026	1795	790
Additional Excavation Inlet (CY)	23	450			370	60
Additional Excavation Outlet (CY)	50	50	50	50	50	50
Additional Excavation Misc. (CY)		34		370	30	57
Subtotal (CY)	2688	11977	1953	4446	2245	957
Contingency Volume (Multiplier 1.4) (CY)	3763	16768	2734	6224	3143	1340

Temporary Wetland Impacts

Location	Total Acres	Wetland	Open Water
Pond A-1	0.618	0.618	0.00
Pond A-2	0.358	0.118	0.24
Pond B-1	0.587	0.407	0.18
Pond B-2	0.542	0.342	0.20
Pond B-3	0.306	0.306	0.00
Pond B-4	0.175	0.175	0.00
Total	2.586	1.966	0.62

Permanent Wetland Impacts

Location	Total Acres	Wetland	Open Water
Pond A-1	0.058	0.058	0.00
Pond A-2	0.020	0.018	0.02
Pond B-1	0.035	0.035	0.00
Pond B-2	0.099	0.095	0.04
Pond B-3	0.016	0.016	0.00
Pond B-4	0.024	0.024	0.00
Total	0.251	0.245	0.06

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LEGEND

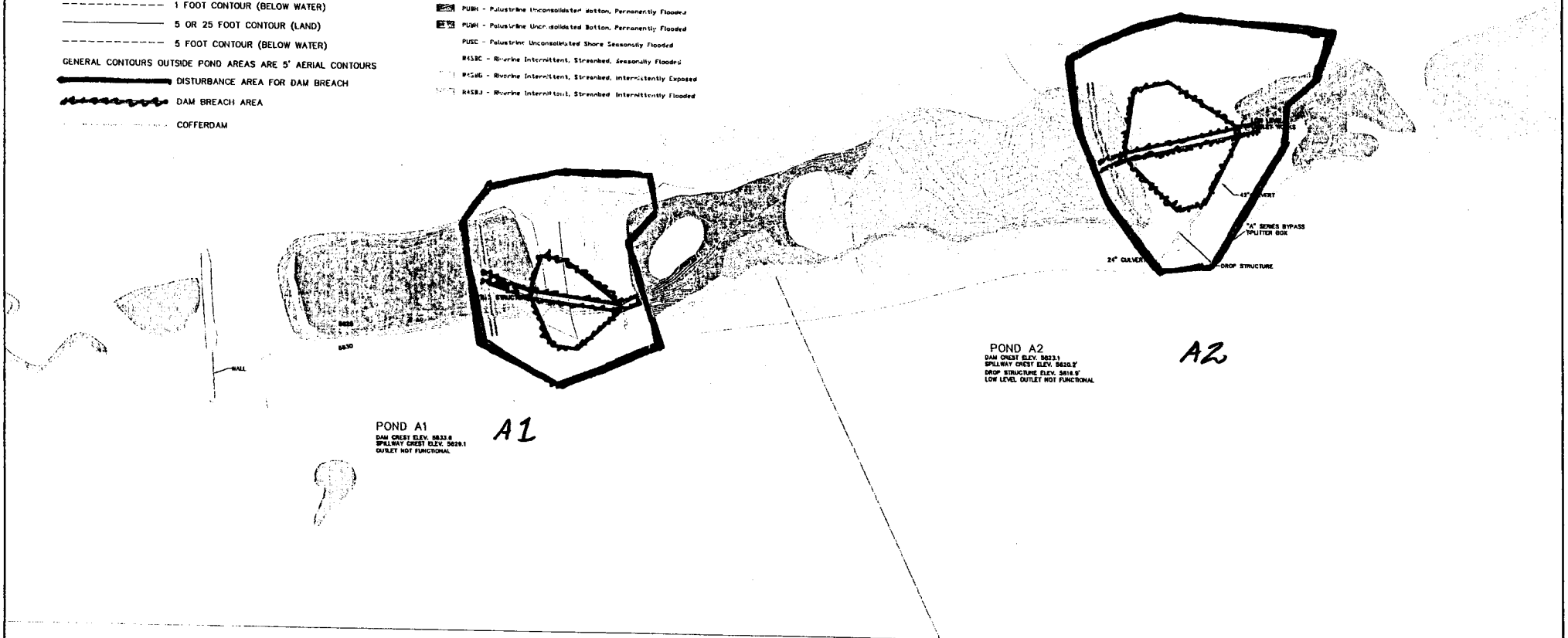
- PIEZOMETER/OBSERVATION WELL
- BENCHMARK
- UTILITY POLE
- BURIED VALVE
- WELL
- MANHOLE
- DIRT ROAD
- EDGE OF WATER
- BARBED WIRE FENCE
- 1 OR 5 FOOT CONTOUR (LAND)
- 1 FOOT CONTOUR (BELOW WATER)
- 5 OR 25 FOOT CONTOUR (LAND)
- 5 FOOT CONTOUR (BELOW WATER)

GENERAL CONTOURS OUTSIDE POND AREAS ARE 5' AERIAL CONTOURS

- DISTURBANCE AREA FOR DAM BREACH
- DAM BREACH AREA
- COFFERDAM

WETLANDS LEGEND

- L1UBH - Lacustrine Limnetic, Unconsolidated Bottom, Permanently Flooded
- PABH - Palustrine Aquatic Bed, Permanently Flooded
- PEMA - Palustrine Emergent, Temporarily Flooded
- PEMB - Palustrine Emergent, Saturated
- PEMC - Palustrine Emergent, Seasonally Flooded
- PEMF - Palustrine Emergent, Semipermanently Flooded
- PFOA - Palustrine Forested, Temporarily Flooded
- PFOC - Palustrine Forested, Seasonally Flooded
- PSSA - Palustrine Scrub-Shrub, Temporarily Flooded
- PSSC - Palustrine Scrub-Shrub, Seasonally Flooded
- PUBF - Palustrine Unconsolidated Bottom, Semipermanently Flooded
- PUBH - Palustrine Unconsolidated Bottom, Permanently Flooded
- PUBH - Palustrine Unconsolidated Bottom, Permanently Flooded
- PUSC - Palustrine Unconsolidated Shore Seasonally Flooded
- R4SBC - Riverine Intermittent, Streambed, Seasonally Flooded
- R4SBG - Riverine Intermittent, Streambed, Intermittently Exposed
- R4SBJ - Riverine Intermittent, Streambed Intermittently Flooded



NOTES:

1. LOCATIONS OF BREACHES ARE APPROXIMATE AND MAY BE ADJUSTED DURING DESIGN OR CONSTRUCTION PROCESS.
2. ASSUME ALL PIPES WITHIN THE DAM EMBANKMENT AND BREACH AREA WILL BE REMOVED, EXCLUDING THE BYPASS PIPELINE.
3. COFFERDAM NECESSITY, LOCATION, SIZE ESTIMATED AND MAY BE ADJUSTED DURING DESIGN OR CONSTRUCTION PROCESS.

N

120' 60' 0' 60' 120'

SCALE: 1"=60'-0"

Figure 3

ROCKY FLATS
A SERIES PONDS

U.S. DEPARTMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL
TECHNOLOGY SITE

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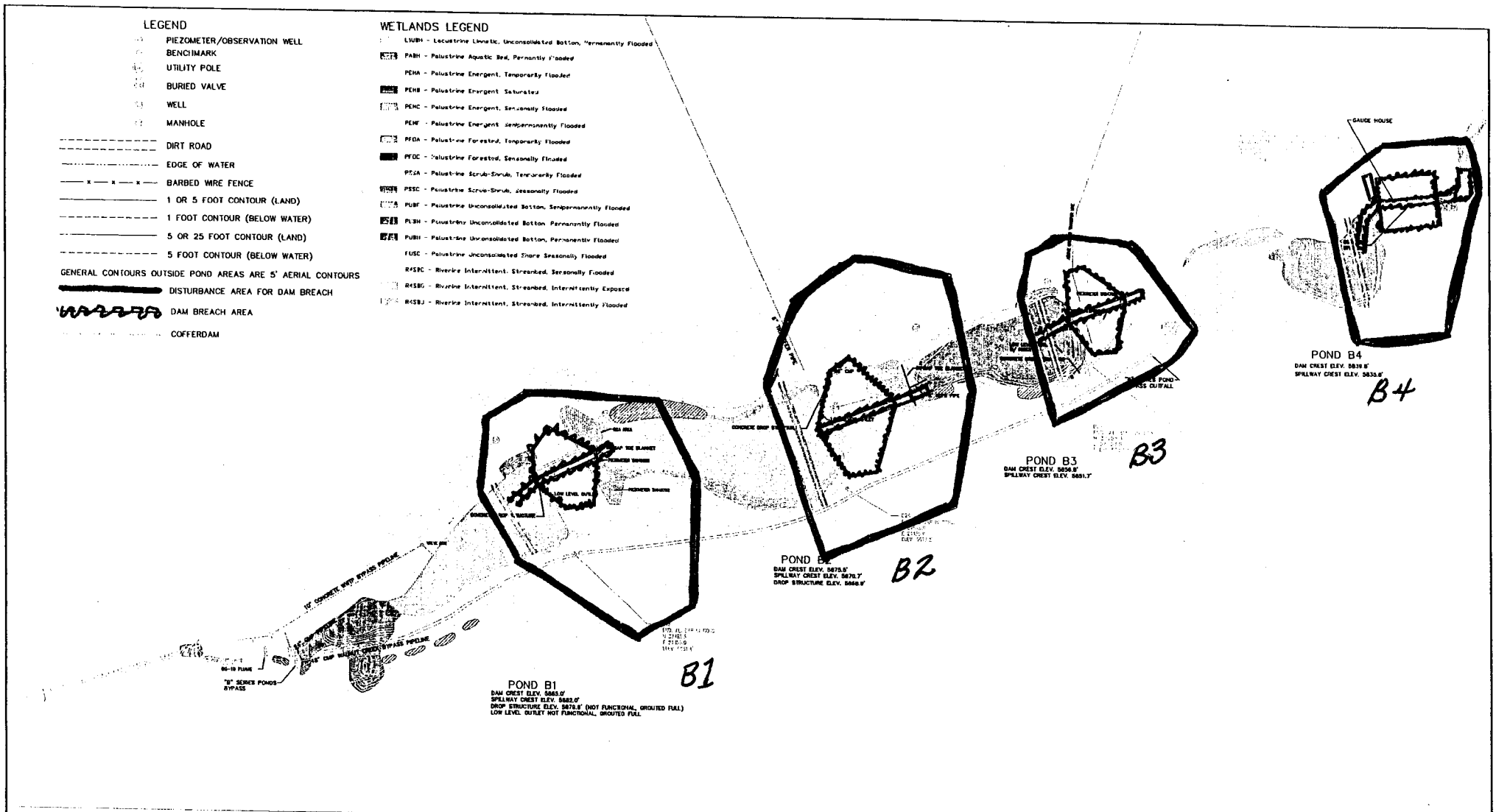

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1. LOCATIONS OF BREACHES ARE APPROXIMATE AND MAY BE ADJUSTED DURING DESIGN OR CONSTRUCTION PROCESS.

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3. COFFERDAM NECESSITY, LOCATION, SIZE ESTIMATED AND MAY BE ADJUSTED DURING DESIGN OR CONSTRUCTION PROCESS.

Figure 4

ROCKY FLATS
B SERIES PONDS

U.S. DEPARTMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

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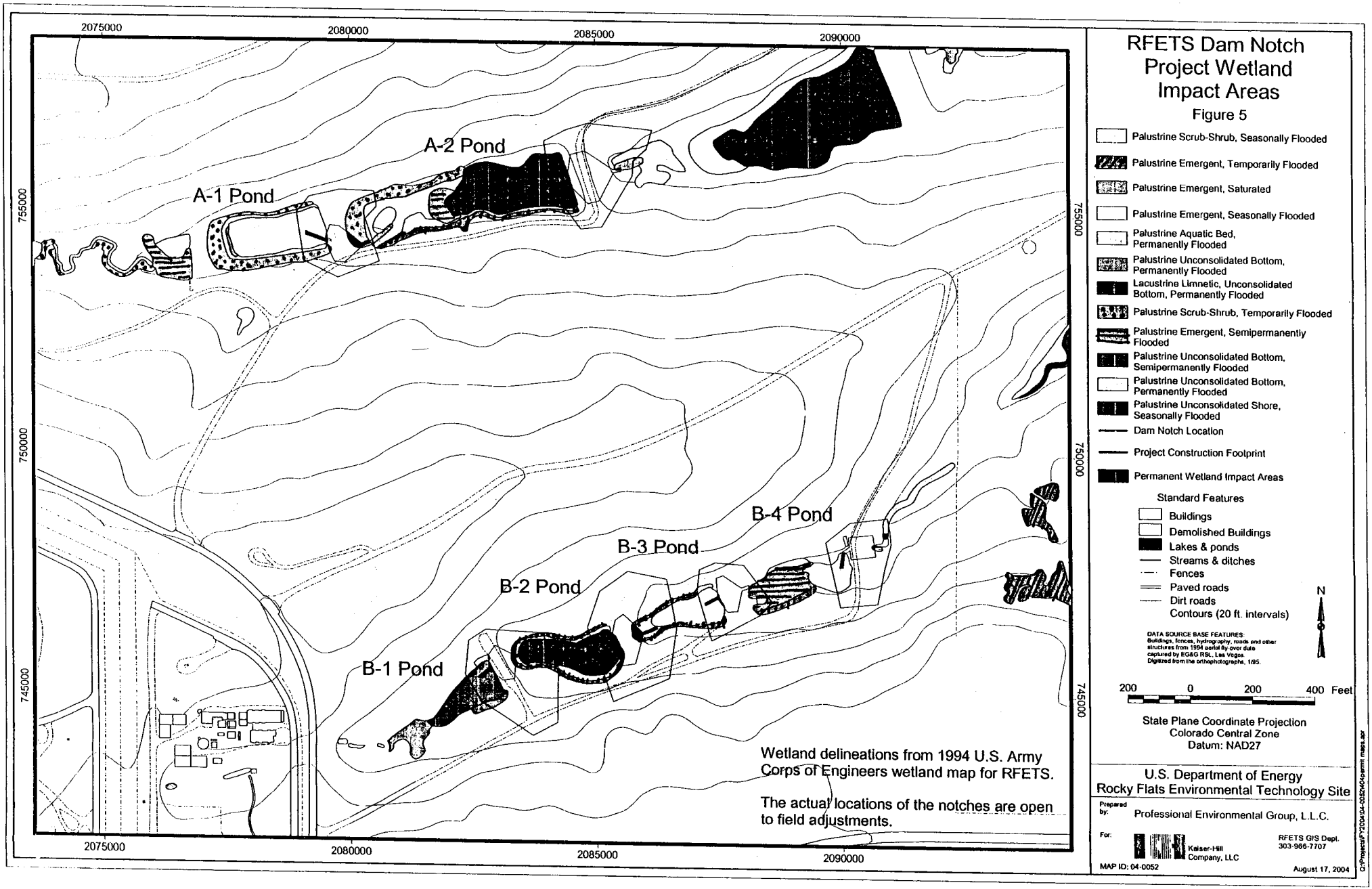

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