

Attachment 2

Proposed Updated Final Safety Analysis Report Tables and Figures
(Mark-Ups; for Information Only)
(164 pages follow)

TABLE 1.8-1 (Continued)

<u>Regulatory Guide (Rev.; RRRC Category)</u>	<u>Degree of Conformance</u>	<u>USAR Section/ Reference</u>
<u><Regulatory Guide 1.56> - (Revision 1 - 8/78; RRRC Category 3)</u>		
Maintenance of water purity in boiling water reactors	PNPP conforms to this guide with the exception of the resin capacity recommendations of Positions C.3 and C.4a, c and d. Sufficient resin capacity is ensured as described in <Section 5.2.3.2.2.1 (b.3)>.	<Section 5.2.3>, <Section 10.4.6>
<u><Regulatory Guide 1.57> - (Revision 0 - 6/73; RRRC Category 1)</u>		
Design limits and loading combinations for metal primary reactor containment system components	PNPP design conforms to this guide as described in <Section 3.8.2.5>.	<Section 3.8.2>, <Section 3.8.3>
<u><Regulatory Guide 1.58> - (Revision 1 - 9/80; RRRC Category 1)</u>		
Qualification of nuclear power plant inspection, examination and testing personnel	See <Chapter 17.2>	<Section 17.2>
<u><Regulatory Guide 1.59> - (Revision 2 - 8/77; RRRC Category 2)</u>		
Design basis floods for nuclear power plants	PNPP design conforms to this guide with exceptions, as described in <u><Section 2.4>.</u>	<Section 2.4> <Section 2.4.3>
<u><Regulatory Guide 1.60> - (Revision 1 - 12/73; RRRC Category 1)</u>		
Design response spectra for seismic design of nuclear power plants	PNPP design conforms to this guide.	<Section 2.5.2>, <Section 3.7.1>

TABLE 1.8-1 (Continued)

<u>Regulatory Guide (Rev.; RRRC Category)</u>	<u>Degree of Conformance</u>	<u>USAR Section/ Reference</u>
<u><Regulatory Guide 1.101> - (Revision 3 - 8/92; RRRC Category 3)</u>		
Emergency planning for nuclear power plants	PNPP conforms to this guide as described in the PNPP Emergency Plan.	PNPP Emergency Plan
<u><Regulatory Guide 1.102> - (Revision 1 - 9/76; RRRC Category 2)</u>		
Flood protection for nuclear power plants	PNPP conforms to this guide- <u>with exceptions, as described in <Section 2.4>.</u>	<Section 2.4>, <Section 9.1.2>, <Section 9.5.8>
<u><Regulatory Guide 1.103> - (Revision 1 - 10/76; RRRC Category 1)</u>		
Post-tensioned prestressing systems for concrete reactor vessels and containments	Not applicable to the PNPP design.	-
<u><Regulatory Guide 1.104></u>		
Overhead crane handling systems for nuclear power plants	<Regulatory Guide 1.104> was withdrawn on August 16, 1979.	-

TABLE 1.8-1 (Continued)

<u>Regulatory Guide (Rev.; RRRC Category)</u>	<u>Degree of Conformance</u>	<u>USAR Section/ Reference</u>
<u><Regulatory Guide 1.135> - (Revision 0 - 9/77; RRRC Category 1)</u>		
Normal water level and discharge at nuclear power plants	PNPP design conforms to this guide, however a conservative alternative approach to Position C-3 was used, in that the mean monthly water level of the past 100 year record was used to determine normal level. <u>Not applicable; RG 1.135, Rev. 0 was never issued by the NRC. Draft RG withdrawn by NRC.</u>	<Section 2.4.8>, = <Section 2.4.11>
<u><Regulatory Guide 1.136> - (Revision 1 - 10/78; RRRC Category 1)</u>		
Material for concrete containments	Not applicable to the PNPP design.	-
<u><Regulatory Guide 1.137> - (Revision 1 - 10/79; RRRC Category 2)</u>		
Fuel-oil systems for standby diesel generators	Although not required by the Implementation section of the guide, the diesel generator fuel oil storage and transfer system conforms to <Regulatory Guide 1.137> with the following exceptions: 1. <Section 9.5.4.2> describes the design characteristics of the fuel oil storage tank such that turbulence during filling is minimized. 2. The cathodic protection system, referenced in C.1.g, has no special	<Section 9.5.4>, Tech. Specs.

Information Only

provisions to prevent the ignition
of combustible vapors of diesel

TABLE 2.4-12

MAJOR ONSITE STORAGE FACILITIES

<u>Amount</u>	<u>Surface Storage Facility</u>	<u>Capacity (gallons each)</u>	<u>Comments</u>
1	Condensate storage tank	500,000	Tank is located inside a Category I retaining basin sized to hold the maximum capacity of the tank.
2	Demineralized water storage tanks	100,000 & 400,000	Tanks are 125 feet from the nearest building. Any spill is directed away from the building by the site grading <u>Tank Failure is evaluated in (Reference 87).</u>
2	Industrial waste lagoons	2,200,000	Any spill would be directed to Lake Erie either through the plant surface drainage system or by overland flow.
1	Chemical cleaning lagoon	1,000,000	Any spill would be directed away from the plant and toward the minor stream diversion east of the plant.
1	Fire protection storage tank	300,000	A spill would flow to Lake Erie either through the surface drainage system or by overland flow.

TABLE 3.5-6

EXISTING OPENINGS WITHOUT UNIQUE TORNADO MISSILE SHIELDS

<u>Building</u>	<u>Opening Description</u>	<u>Approximate Location</u>	<u>Shown On USAR Figure</u>	<u>Missile Protection Provided By</u>
Intermediate Building	Man doors (3' x 7'-2"): Fuel Handling area to exterior (2)	Elev. 620'-6" east	<Figure 1.2-5> internal shields	Location and
	Intermediate building to exterior (opening only, no door)	Elev. 620'-6" west	<Figure 1.2-5>	
	Intermediate building to exterior	Elev. 620'-6" east	<Figure 1.2-9> interior walls	Shield building,
	Stair tower to exterior	Elev. 707'-6" west	<Figure 1.2-10>	Interior walls
	Elev. room to exterior	Elev. 707'-6" south	<Figure 1.2-10>	Interior walls
	Rolling steel doors: To exterior (16' x 17')	Elev. 620'-6" south	<Figure 1.2-5>	<Section 3.5.1.4.2.1>
	To exterior (15' x 14')	Elev. 620'-6" west	<Figure 1.2-5>	Location, adjacent structures and interior walls
	Misc. Pipe & Conduit Penetrations	Various - see TORMIS Analysis for details	-	<Section 3.5.1.4.2.1>

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PAGE 1 OF 2

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NOTE: (NOT FOR INCORPORATION
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PAGE 2 OF 2

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT, PLAN C ABOVE
ELEVS. 620'-6", 623'-6" AND
624'-6", PLANT COMPLEX
FIGURE 1.2-5
(DWG. E-013-0005-00000)

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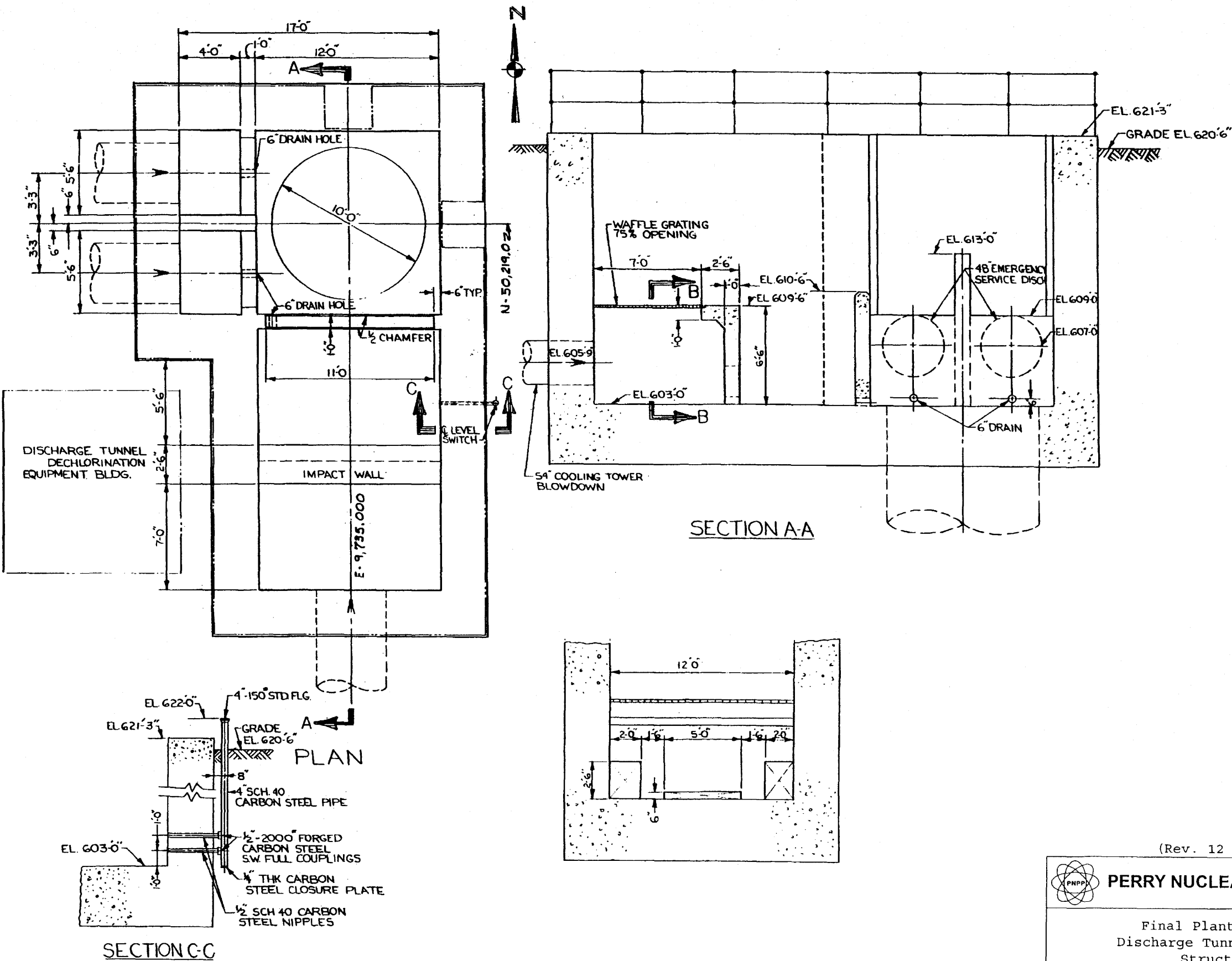
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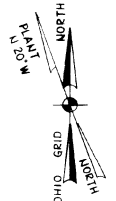
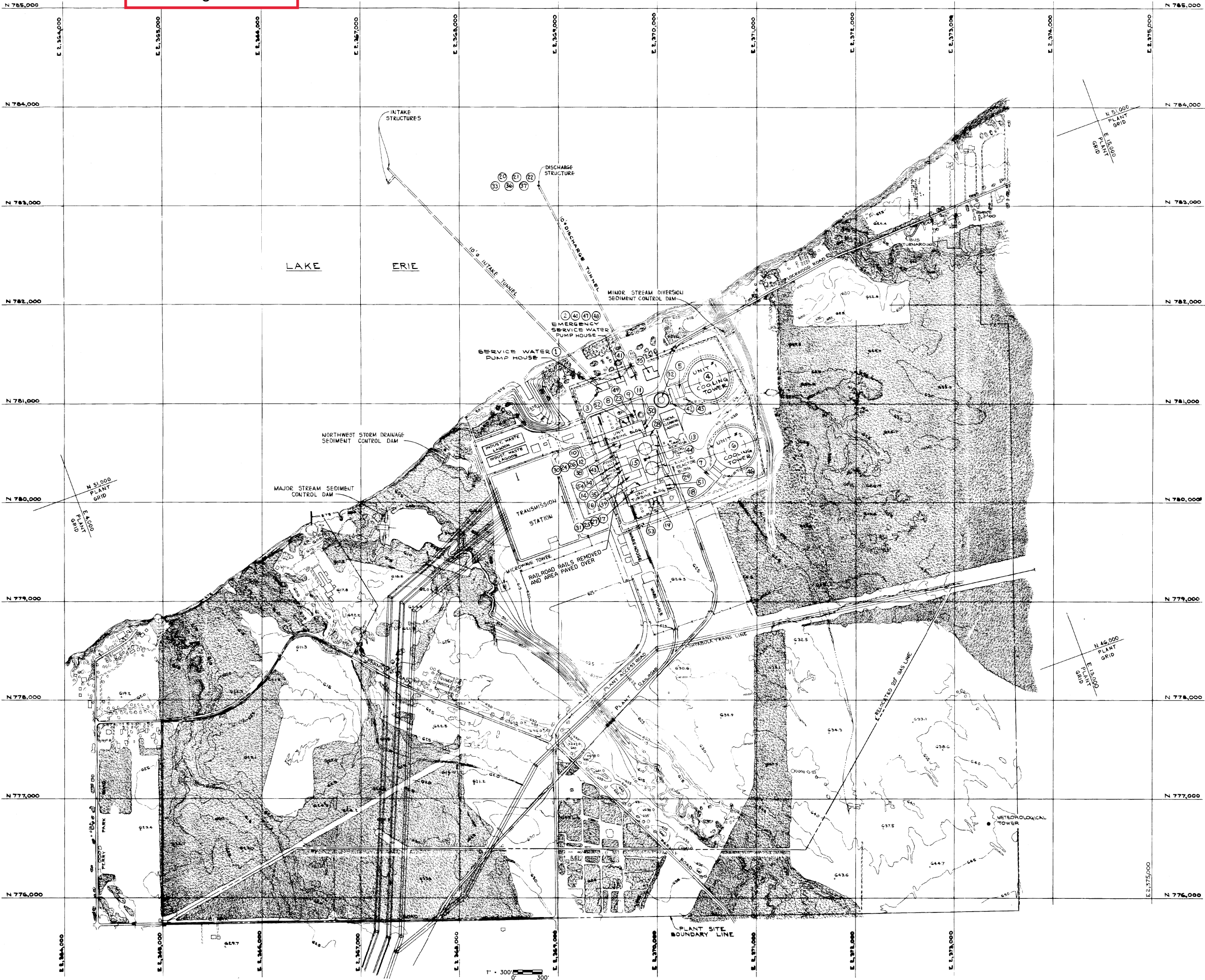
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PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
EMERGENCY SERVICE WATER
PUMPHOUSE PLANS AND ELEVATIONS
FIGURE 1.2-16
(DWG. E-015-0002-00000)





LEGEND		
ITEM NO.	DESCRIPTION	RELEASE ELEVATION
1.	CONSTRUCTION SANITARY SEWAGE EFFLUENT	570'-0"
2.	EMERGENCY SERVICE WATER PUMP HOUSE VENT. EXHAUST	630'-0"
3.	SERVICE WATER PUMP HOUSE VENT. EXHAUST	620'-0"
4.	COOLING TOWER AIR OUTLET - UNIT 1	1301'-0"
5.	CIRCULATING WATER PUMP HOUSE VENT. EXHAUST - UNIT 1	800'-0"
6.	COOLING TOWER AIR OUTLET - UNIT 2	1301'-0"
7.	CIRCULATING WATER PUMP HOUSE VENT. EXHAUST - UNIT 2	800'-0"
8.	TURBINE BUILDING AND HEATER BAY EXHAUST - UNIT 1	722'-0"
9.	AUXILIARY BOILER BUILDING VENT. EXHAUST	847'-0"
10.	WATER TREATMENT BUILDING VENT. EXHAUST	847'-0"
11.	LUBE OIL STORAGE AREA VENT. EXHAUST - UNIT 1	830'-0"
12.	OFF-GAS AND TURBINE BUILDINGS VENT EXHAUST - UNIT 1	723'-0"
13.	PLANT VENT. - UNIT 1 AND UNIT 2	753'-0"
14.	DIESEL GENERATORS BUILDING VENT. EXHAUST	630'-11"
15.	CONTROL COMPLEX VENT. EXHAUST	607'-4"
16.	SERVICE BUILDING VENT. EXHAUST	611'-5"
17.	OFF-GAS AND TURBINE BUILDINGS VENT EXHAUST - UNIT 2	723'-0"
18.	LUBE OIL STORAGE AREA VENT. EXHAUST - UNIT 2	830'-0"
19.	TURBINE BUILDING AND HEATER BAY EXHAUST - UNIT 2	722'-0"
20.	COOLING TOWER BLOWDOWN	554'-4"
21.	SERVICE WATER DISCHARGE	554'-4"
22.	EMERGENCY SERVICE WATER DISCHARGE	554'-4"
23.	AUXILIARY BOILER FUEL GAS VENT. EXHAUST (2)	701'-0"
24.	START-UP CONDENSER EVACUATION EXHAUST - UNIT 1	723'-0"
25.	START-UP CONDENSER EVACUATION EXHAUST - UNIT 2	723'-0"
26.	OFF-GAS RELEASE - UNIT 1	723'-0"
27.	OFF-GAS RELEASE - UNIT 2	723'-0"
28.	EMERGENCY SERVICE WATER OVERFLOW - UNIT 1	623'-0"
29.	EMERGENCY SERVICE WATER OVERFLOW - UNIT 2	623'-0"
30.	STEAM PACKING EXHAUST DISCHARGE - UNIT 1	723'-0"
31.	STEAM PACKING EXHAUST DISCHARGE - UNIT 2	723'-0"
32.	FUEL OIL STORAGE TANK VENT	560'-0"
33.	LIQUID WASTEWATER DISCHARGE	554'-4"
34.	EMERGENCY DIESEL GENERATOR FUEL OIL TANK VENTS (12)	650'-0" & 643'-0"
35.	EMERGENCY DIESEL GENERATORS COMBUSTION EXHAUST GASES (8)	650'-0"
36.	CHEMICAL CLEANING TREATED WASTE	554'-4"
37.	SANITARY SEWAGE EFFLUENT	554'-4"
38.	TURBINE POWER COMPLEX BATTERY ROOM EXHAUST - UNIT 1	651'-0"
39.	TURBINE POWER COMPLEX BATTERY ROOM EXHAUST - UNIT 2	651'-0"
40.	DIESEL DRIVEN FIRE PUMP AREA EXHAUST	620'-0"
41.	DISCHARGE TUNNEL DECHLORINATION EQUIPMENT BUILDING EXHAUST	534'-2"
42.	FUEL OIL PUMP HOUSE VENT. EXHAUST	631'-0"
43.	RADWASTE BUILDING CEMENT STORAGE AREA VENT. EXHAUST	556'-0"
44.	HYPOCHLORITE GENERATION BUILDING AREA VENT. EXHAUST	534'-2"
45.	COOLING TOWER ACID ADDITION STORAGE BUILDING VENT. EXHAUST - UNIT 1	630'-0"
46.	COOLING TOWER ACID ADDITION STORAGE BUILDING VENT. EXHAUST - UNIT 2	630'-0"
47.	DIESEL DRIVEN FIRE PUMP ENGINE EXHAUST	620'-0"
48.	DIESEL DRIVEN FIRE PUMP FUEL OIL TANK VENT	635'-0"
49.	AUXILIARY BOILER SAFETY VALVE ESCAPES, AUXILIARY BOILER GENERATING HEATER ESCAPES AND VENT AND AUXILIARY BOILER BLOWDOWN TANK VENT	655'-0"
50.	MAIN TURBINE LUBE OIL RESERVOIR VENT - UNIT 1	710'-0"
51.	MAIN TURBINE LUBE OIL RESERVOIR VENT - UNIT 2	710'-0"
52.	MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT - UNIT 1 (2)	603'-11"
53.	MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT - UNIT 2 (2)	603'-11"
54.	EMERGENCY DIESEL GENERATOR LUBE OIL SUMP AND CRAWLSPACE VENTS(8)	650'-0"
55.	LOW LEVEL RADWASTE STORAGE AND PROCESSING FACILITY VENT EXHAUST	650'-0"

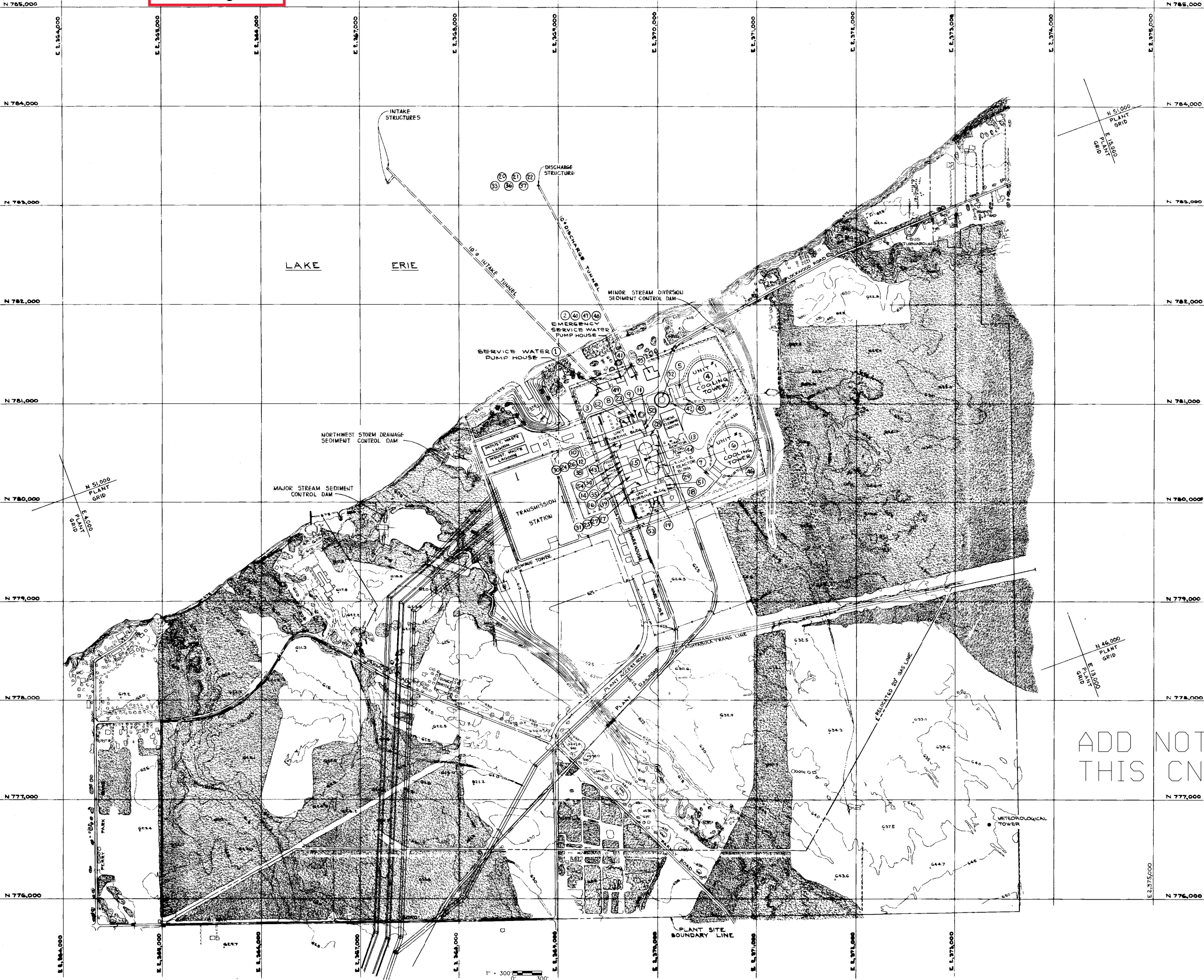
NOTES: 1. COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
2. REACTOR COORDINATES:
OHIO GRID
UNIT 1 N780,345 E2,369,875
UNIT 2 N780,346,735 E2,369,847,186
PLANT GRID
N49,466 E9,570
N49,255 E9,570
3. ALL BACKGROUND CONTOURS SUPPLIED BY AERIAL SURVEYS, INC.

(REV. 21 10/2019)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
PLOT PLAN RELEASE POINT DESIGNATION
FIGURE 1.2-18
(DWG. D-036-0011-00000)

Information Only
CN=Change



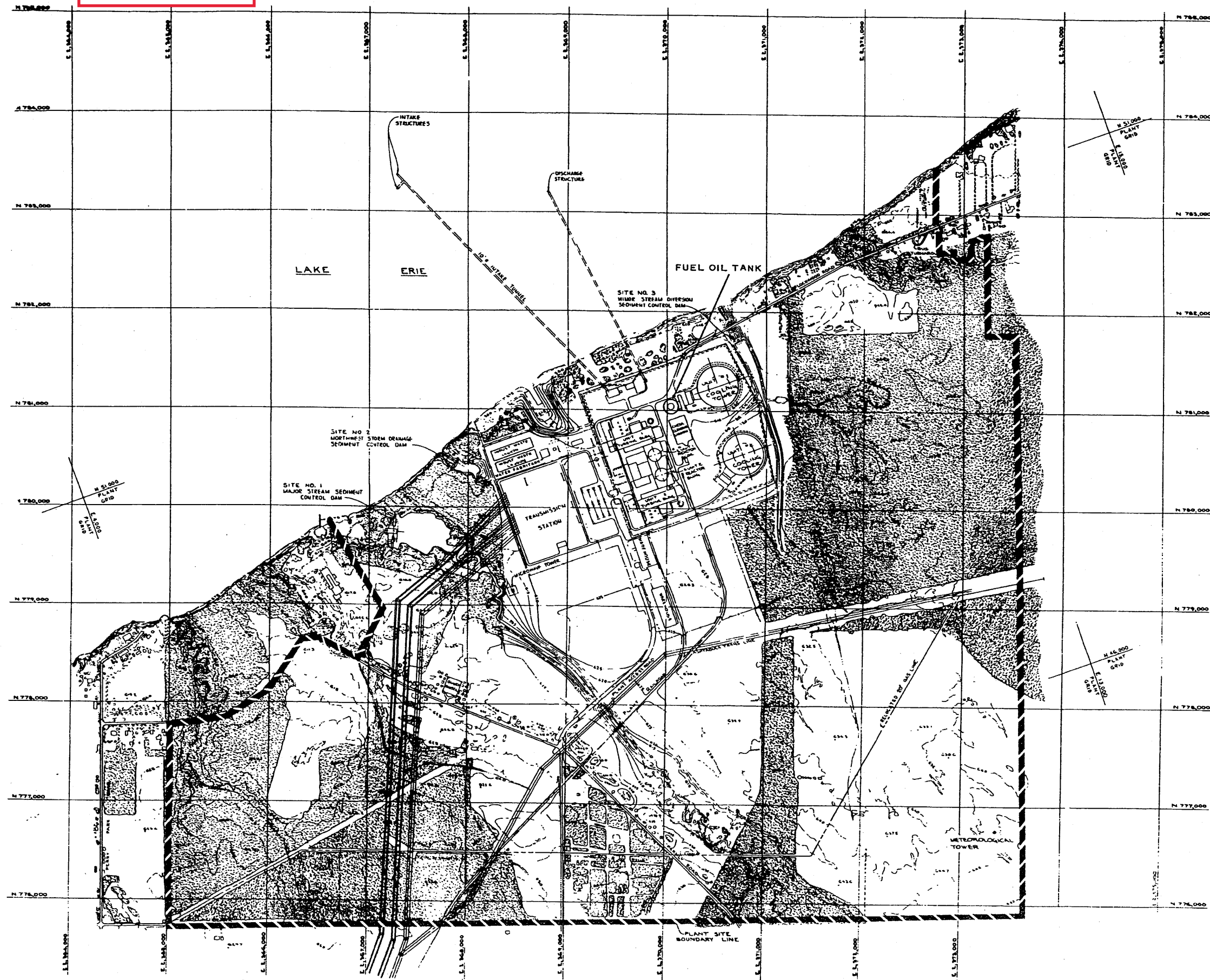
LEGEND		
ITEM NO.	DESCRIPTION	RELEASE ELEVATION
1.	CONSTRUCTION SANITARY SEWAGE EFFLUENT	5781'-0"
2.	EMERGENCY SERVICE WATER PUMP HOUSE VENT, EXHAUST	6381'-3"
3.	SERVICE WATER PUMP HOUSE VENT, EXHAUST	6251'-0"
4.	COOLING TOWER AIR OUTLET - UNIT 1	11381'-0"
5.	CIRCULATING WATER PUMP HOUSE VENT, EXHAUST - UNIT 1	8861'-0"
6.	* COOLING TOWER AIR OUTLET - UNIT 2	11381'-0"
7.	* CIRCULATING WATER PUMP HOUSE VENT, EXHAUST - UNIT 2	8861'-0"
8.	TURBINE BUILDING AND HEATER BAY EXHAUST - UNIT 1	7221'-0"
9.	AUXILIARY BOILER BUILDING VENT, EXHAUST	8471'-0"
10.	WATER TREATMENT BUILDING VENT, EXHAUST	8431'-3" & 8861'-3"
11.	LUBE OIL STORAGE AREA VENT, EXHAUST - UNIT 1	8361'-3"
12.	OFF-GAS AND TURBINE BUILDINGS VENT EXHAUST - UNIT 1	7231'-0"
13.	PLANT VENT, - UNIT 1 AND UNIT 2	7531'-0"
14.	DIESEL GENERATORS BUILDING VENT, EXHAUST	6381'-11"
15.	CONTROL COMPLEX VENT, EXHAUST	6871'-4"
16.	SERVICE BUILDING VENT, EXHAUST	6711'-5"
17.	* OFF-GAS AND TURBINE BUILDINGS VENT EXHAUST - UNIT 2	7231'-0"
18.	* LUBE OIL STORAGE AREA VENT, EXHAUST - UNIT 2	6381'-3"
19.	* TURBINE BUILDING AND HEATER BAY EXHAUST - UNIT 2	7221'-0"
20.	COOLING TOWER BLOWDOWN	5541'-4"
21.	SERVICE WATER DISCHARGE	5541'-4"
22.	EMERGENCY SERVICE WATER DISCHARGE	5541'-4"
23.	AUXILIARY BOILER FUEL GAS VENT, EXHAUST (2)	7211'-0"
24.	START-UP CONDENSER EVACUATION EXHAUST - UNIT 1	7231'-0"
25.	* START-UP CONDENSER EVACUATION EXHAUST - UNIT 2	7231'-0"
26.	OFF-GAS RELEASE - UNIT 1	7231'-0"
27.	* OFF-GAS RELEASE - UNIT 2	7231'-0"
28.	EMERGENCY SERVICE WATER OVERFLOW - UNIT 1	6231'-0"
29.	* EMERGENCY SERVICE WATER OVERFLOW - UNIT 2	6231'-0"
30.	STEAM PACKING EXHAUST DISCHARGE - UNIT 1	7231'-0"
31.	* STEAM PACKING EXHAUST DISCHARGE - UNIT 2	7231'-0"
32.	FUEL OIL STORAGE TANK VENT	6881'-0"
33.	LIQUID RADWASTE DISCHARGE	5541'-4"
34.	EMERGENCY DIESEL GENERATOR FUEL OIL TANK VENTS (12)	8561'-0" & 8431'-3"
35.	EMERGENCY DIESEL GENERATORS CONSTRUCTION EXHAUST GASES (8)	8921'-0"
36.	CHEMICAL CLEANING TREATED WASTE	5541'-4"
37.	SANITARY SEWAGE EFFLUENT	5541'-4"
38.	TURBINE POWER COMPLEX BATTERY ROOM EXHAUST - UNIT 1	8571'-0"
39.	* TURBINE POWER COMPLEX BATTERY ROOM EXHAUST - UNIT 2	8571'-0"
40.	DIESEL DRIVEN FIRE PUMP AREA EXHAUST	6281'-0"
41.	DISCHARGE TUNNEL RECHLORINATION EQUIPMENT BUILDING EXHAUST	6341'-2"
42.	FUEL OIL PUMP HOUSE VENT, EXHAUST	8371'-0"
43.	RADWASTE BUILDING CEMENT STORAGE AREA VENT, EXHAUST	8581'-0"
44.	HYPOCHLORITE GENERATION BUILDING AREA VENT, EXHAUST	8341'-2"
45.	COOLING TOWER ACID ADDITION STORAGE BUILDING VENT, EXHAUST - UNIT 1	8381'-0"
46.	* COOLING TOWER ACID ADDITION STORAGE BUILDING VENT, EXHAUST - UNIT 2	8381'-0"
47.	DIESEL DRIVEN FIRE PUMP ENGINE EXHAUST	6281'-0"
48.	DIESEL DRIVEN FIRE PUMP FUEL OIL TANK VENT	6351'-0"
49.	AUXILIARY BOILER SAFETY VALVE ESCAPES, AUXILIARY BOILER GENERATING HEATER ESCAPE AND VENT AND AUXILIARY BOILER BLOWDOWN TANK VENT	8951'-0"
50.	MAIN TURBINE LUBE OIL RESERVOIR VENT - UNIT 1	7181'-0"
51.	* MAIN TURBINE LUBE OIL RESERVOIR VENT - UNIT 2	7181'-0"
52.	MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT - UNIT 1 (2)	6831'-11"
53.	* MAIN FEEDWATER PUMP TURBINE OIL RESERVOIR VENT - UNIT 2 (2)	6831'-11"
54.	EMERGENCY DIESEL GENERATOR LUBE OIL SUMP AND CONDUIT VENTS(8)	6581'-0"
55.	LOW LEVEL RADWASTE STORAGE AND PROCESSING FACILITY VENT EXHAUST	6581'-0"

NOTES: 1. COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
2. REACTOR COORDINATES:
OHIO GRID PLANT GRID
UNIT 1 N780,345 E2,369,875 N48,486 E9,570
UNIT 2 N780,346,725 E2,369,847,186 N48,255 E9,570
3. ALL BACKGROUND CONTOURS SUPPLIED BY AERIAL SURVEYS, INC.
* ABANDONED UNIT 2 RELEASE POINTS, NO SOURCE.
4. THIS USAR FIGURE CONTAINS HISTORICAL TOPOGRAPHICAL INFORMATION FOR REFERENCE ONLY AND WILL NOT BE UPDATED.

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

FINAL PLANT LAYOUT,
PLOT PLAN RELEASE POINT DESIGNATION
FIGURE 1.2-18
(DWG. D-036-0011-00000)

Information Only
Current Figure 2.1-3



TOPOGRAPHIC CONTOURS ARE IN FEET

NOTES

1. COORDINATES SHOWN ON THIS MAP ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
2. REACTION COORDINATES

	REACTOR	PLANT
UNIT 1	8726 540 E1, 164, 875	800, 000 E1, 164, 875
UNIT 2	8726 540 725 E1, 164, 875	800, 000 E1, 164, 875

NOTE:
ALL BACKGROUND CONTOURS
SUPPLIED BY AERIAL SURVEYS INC.

(Rev. 12 1/03)

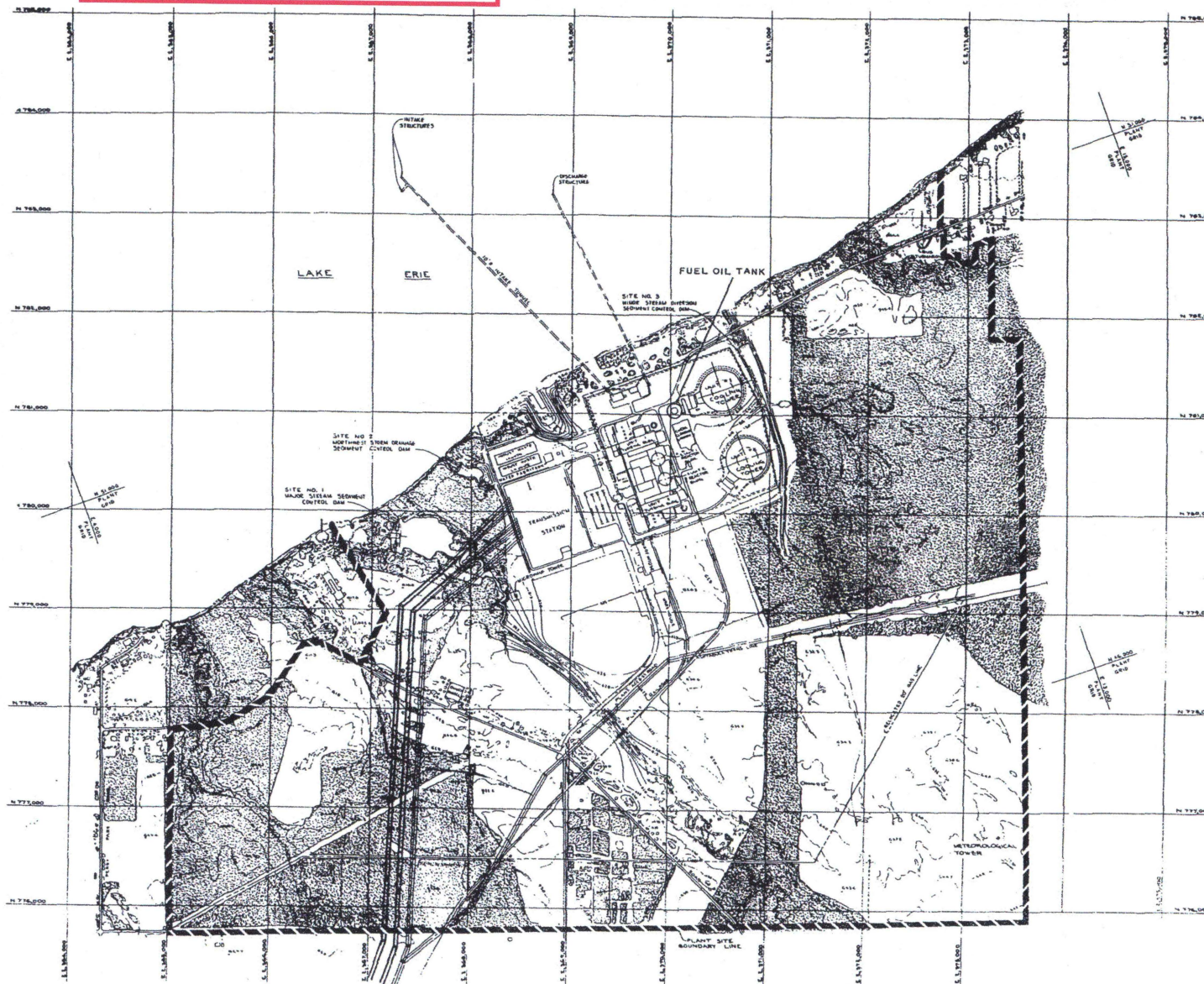


PERRY NUCLEAR POWER PLANT

Topograph Within the Plant
Site Boundary

Figure 2.1-3

Information Only, CN=Change



ADD NOTE
THIS CN

THIS USAR FIGURE CONTAINS HISTORICAL
TOPOGRAPHICAL INFORMATION FOR REFERENCE
ONLY AND WILL NOT BE UPDATED. FOR RECENT
TOPOGRAPHIC INFORMATION SEE FIGURES 2.4-83
AND 2.4-84.


TOPOGRAPHIC CONTOURS ARE IN FEET

CONTOUR INTERVALS: 5 FEET

CONTOUR INTERVAL	FEET	FEET
5	10	20
10	30	40
20	50	60
30	70	80
40	90	100

NOTE: ALL BACKGROUND CONTOURS
SUPPLIED BY AERIAL SURVEYS, INC.

(Rev. 12 1/03)

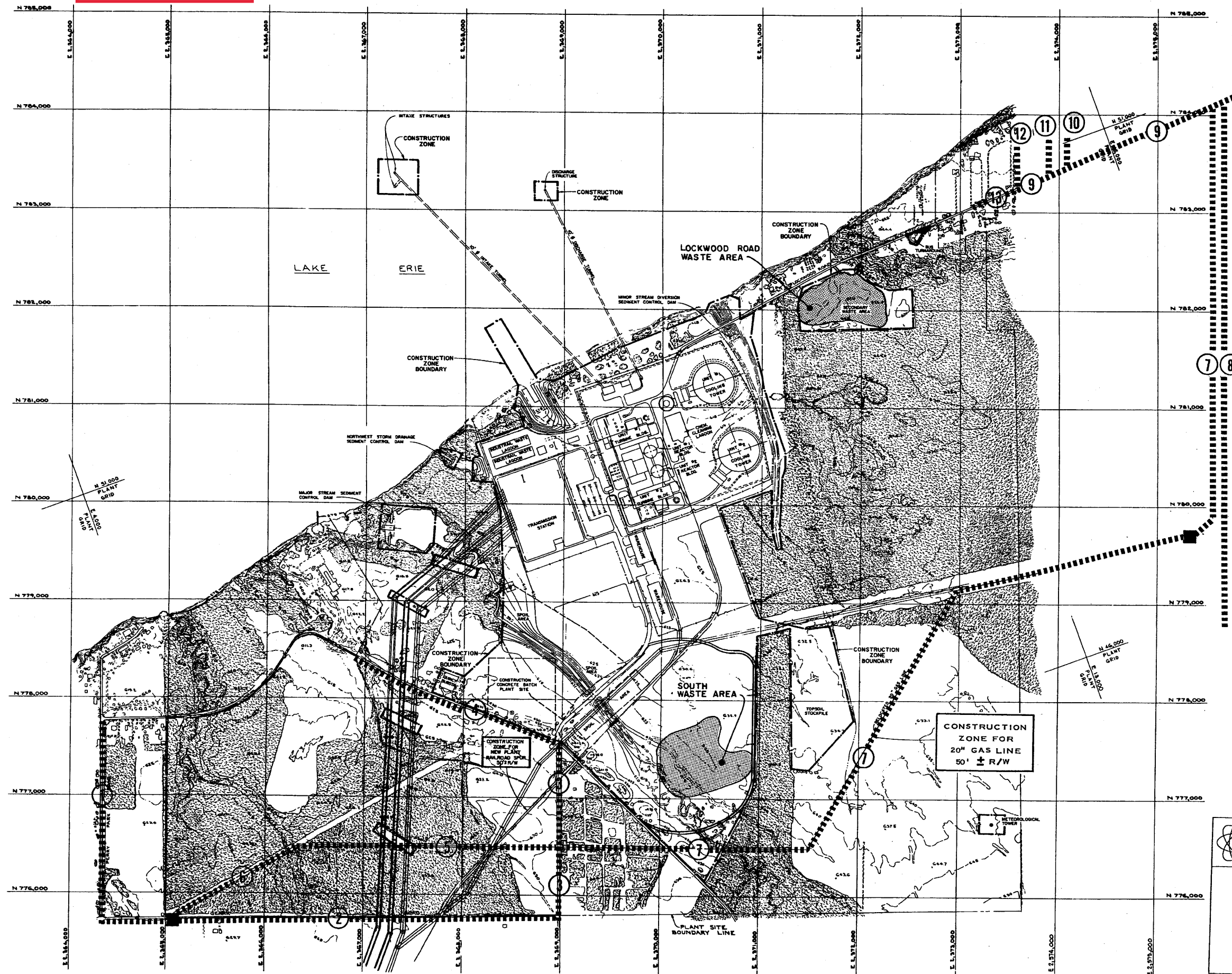


PERRY NUCLEAR POWER PLANT

Topograph Within the Plant
Site Boundary

Figure 2.1-3

Information Only
Current Figure 2.2-3

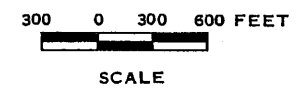


- LEGEND
- 5 ----- PIPELINE
(SEE TABLE 2.2-3)
 - BLOCK TYPE ISOLATION VALVE

- NOTES:
- COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
 - REACTOR COORDINATES:

	OHIO GRID	PLANT GRID
UNIT 1	N780,545 E2,369,875	N49,466 E9,570
UNIT 2	N780,346,725 E2,369,947,166	N49,255 E9,570

NOTE:
ALL BACKGROUND CONTOURS
SUPPLIED BY AERIAL SURVEYS INC.



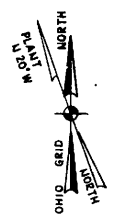
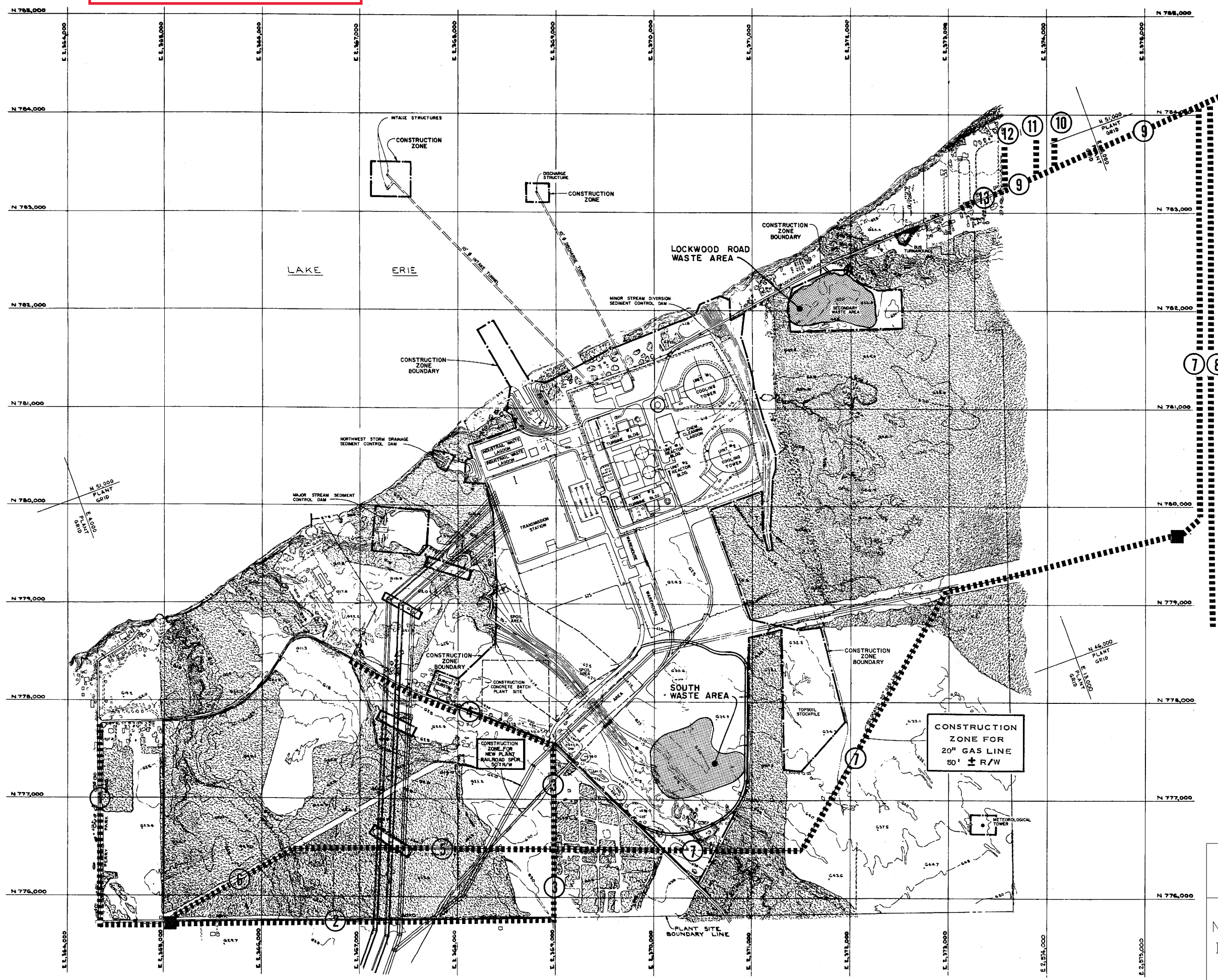
(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Natural Gas Pipelines Within the
Immediate Environs of the Plant

Figure 2.2-3

Information Only, CN=Change



- LEGEND
- 5 PIPELINE (SEE TABLE 2.2-3)
 - BLOCK TYPE ISOLATION VALVE

- NOTES:
- COORDINATES SHOWN ON THIS DRAWING ARE BASED ON THE OHIO STATE COORDINATE SYSTEM.
 - REACTOR COORDINATES:
- | | OHIO GRID | PLANT GRID |
|--------|--------------------------------|-------------------|
| UNIT 1 | N780,545
E2,369,875 | N49,466
E9,570 |
| UNIT 2 | N780,346,725
E2,369,947,166 | N49,255
E9,570 |
- NOTE:
- ALL BACKGROUND CONTOURS SUPPLIED BY AERIAL SURVEYS INC.

300 0 300 600 FEET

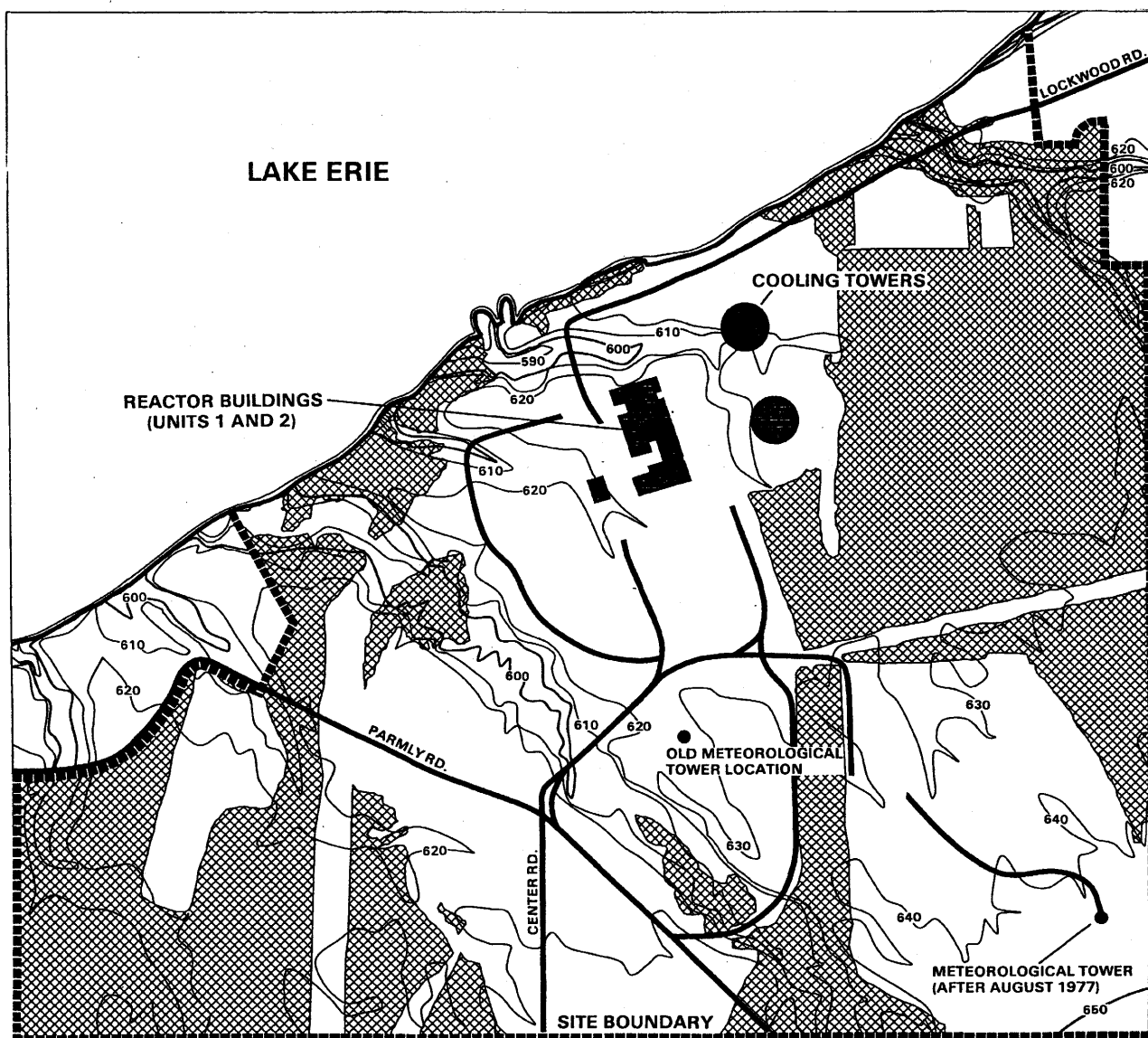
SCALE

ADD NOTE THIS CN

3. THIS USAR FIGURE CONTAINS HISTORICAL TOPOGRAPHICAL INFORMATION FOR REFERENCE ONLY AND WILL NOT BE UPDATED.

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

NATURAL GAS PIPELINES WITHIN THE IMMEDIATE ENVIRONS OF THE PLANT
FIGURE 2.2-3



LEGEND



DECIDUOUS FOREST

500 0 500 1000



FEET



CONTOUR INTERVAL 10 FEET

DATUM IS MEAN SEA LEVEL

Source: Compiled from Facilities Maintenance Key Plan Rev. 17, 5-1-87; USGS 1:24,000 Quadrangle Maps of Madison, Mentor, Painesville, Perry and Thompson, Ohio; NUS, 1986; and PNPP FSAR.

Note: Contours do not necessarily reflect regrading from construction.

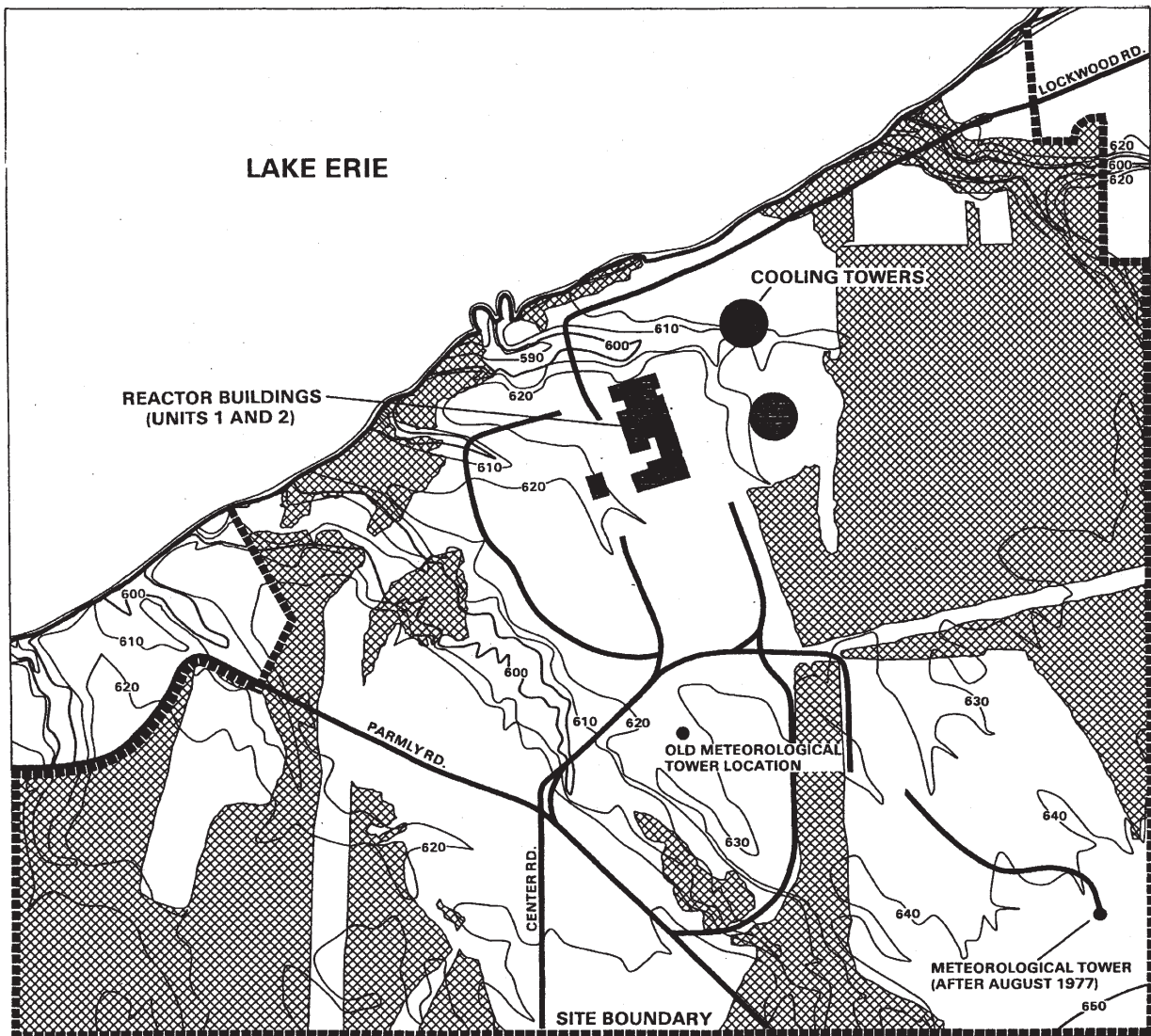
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Plant Site and Meteorological
Tower Location

Figure 2.3-15



LEGEND



DECIDUOUS FOREST

500 0 500 1000



FEET



CONTOUR INTERVAL 10 FEET

DATUM IS MEAN SEA LEVEL

REVISE NOTE
THIS CN

Source: Compiled from Facilities Maintenance Key Plan Rev. 17, 5-1-87; USGS 1:24,000 Quadrangle Maps of Madison, Mentor, Painesville, Perry and Thompson, Ohio; NUS, 1986; and PNPP FSAR.

~~Note: Contours do not necessarily reflect regrading from construction.~~

NOTE:
THIS USAR FIGURE CONTAINS
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INFORMATION FOR REFERENCE
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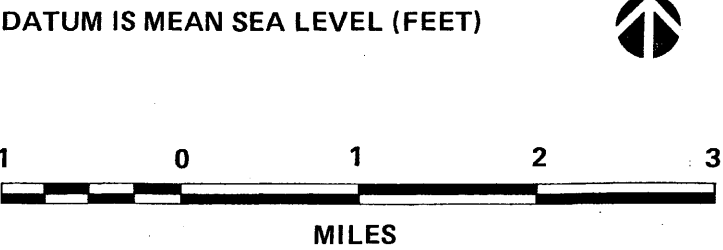
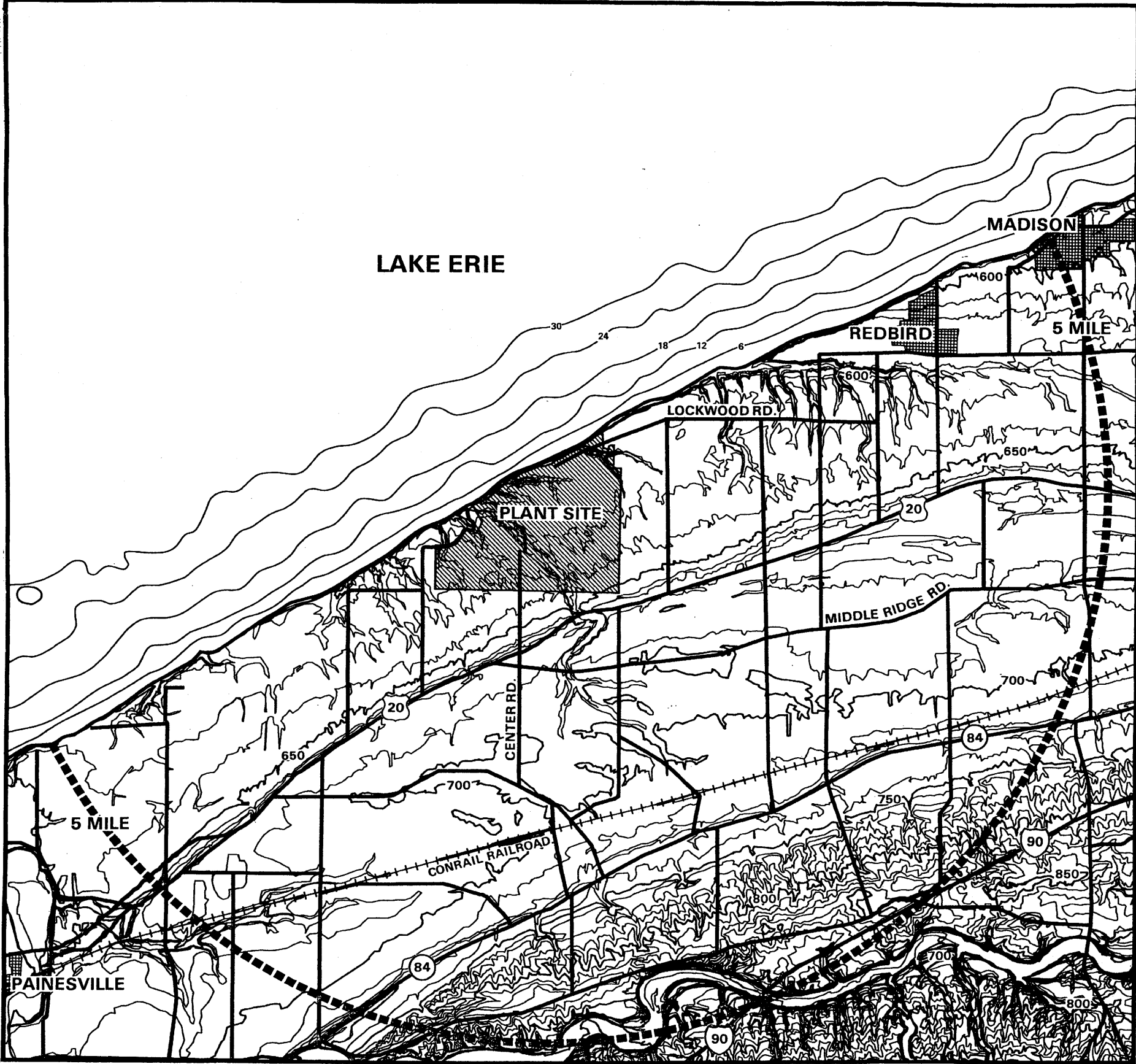
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT


Plant Site and Meteorological
Tower Location

Figure 2.3-15



Source: Compiled from USGS 1:24,000 Quadrangle Maps of Madison, Mentor, Painesville, Perry and Thompson, Ohio; and NUS, 1986.

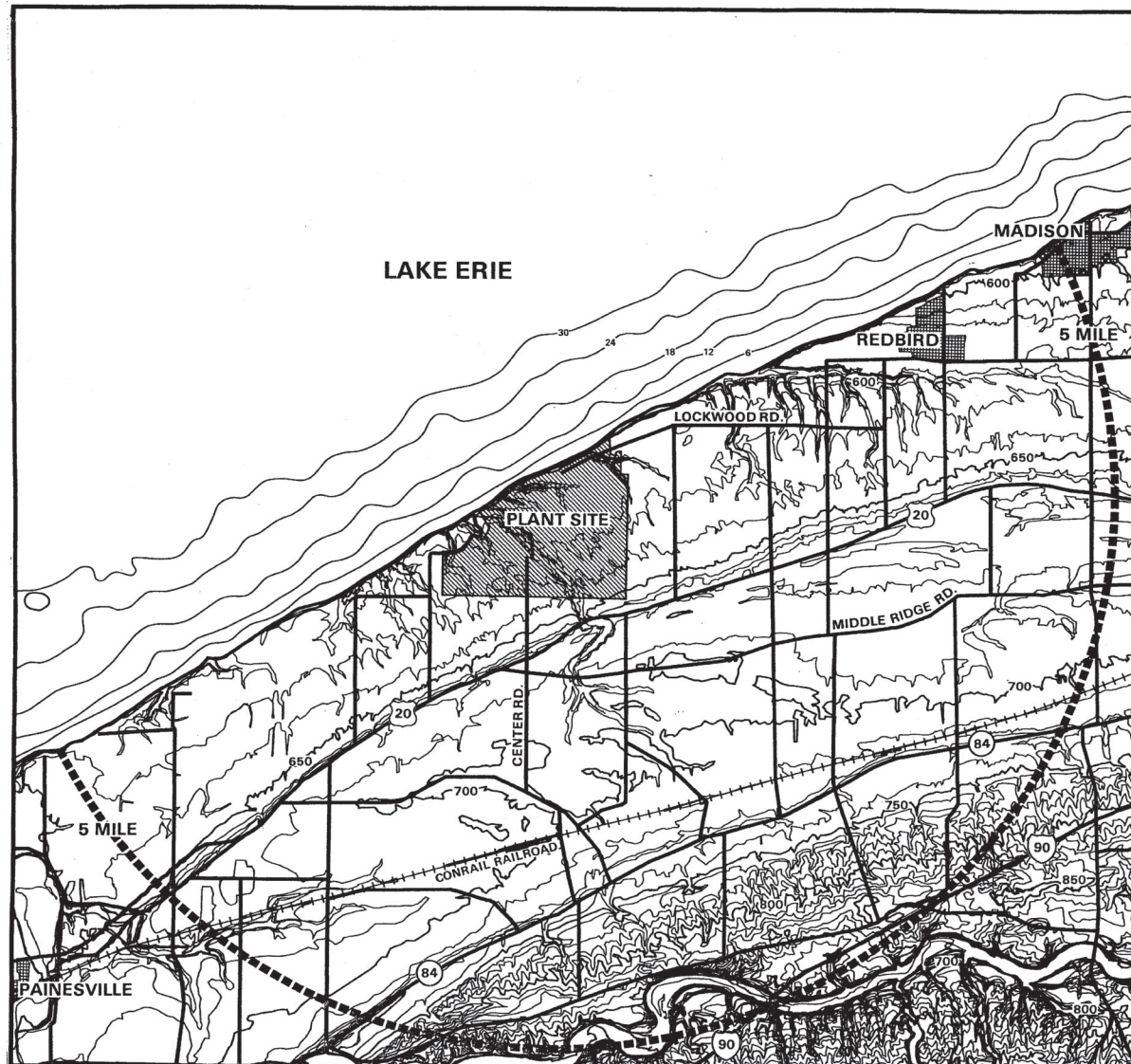
(Rev. 12 1/03)

 **PERRY NUCLEAR POWER PLANT**

Region Topographic Map
5 Mile Radius

Figure 2.3-17

Information Only
CN=Change



ADD NOTE
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
NOTE:
THIS USAR FIGURE CONTAINS
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INFORMATION FOR REFERENCE
ONLY AND WILL NOT BE UPDATED.

DATUM IS MEAN SEA LEVEL (FEET)



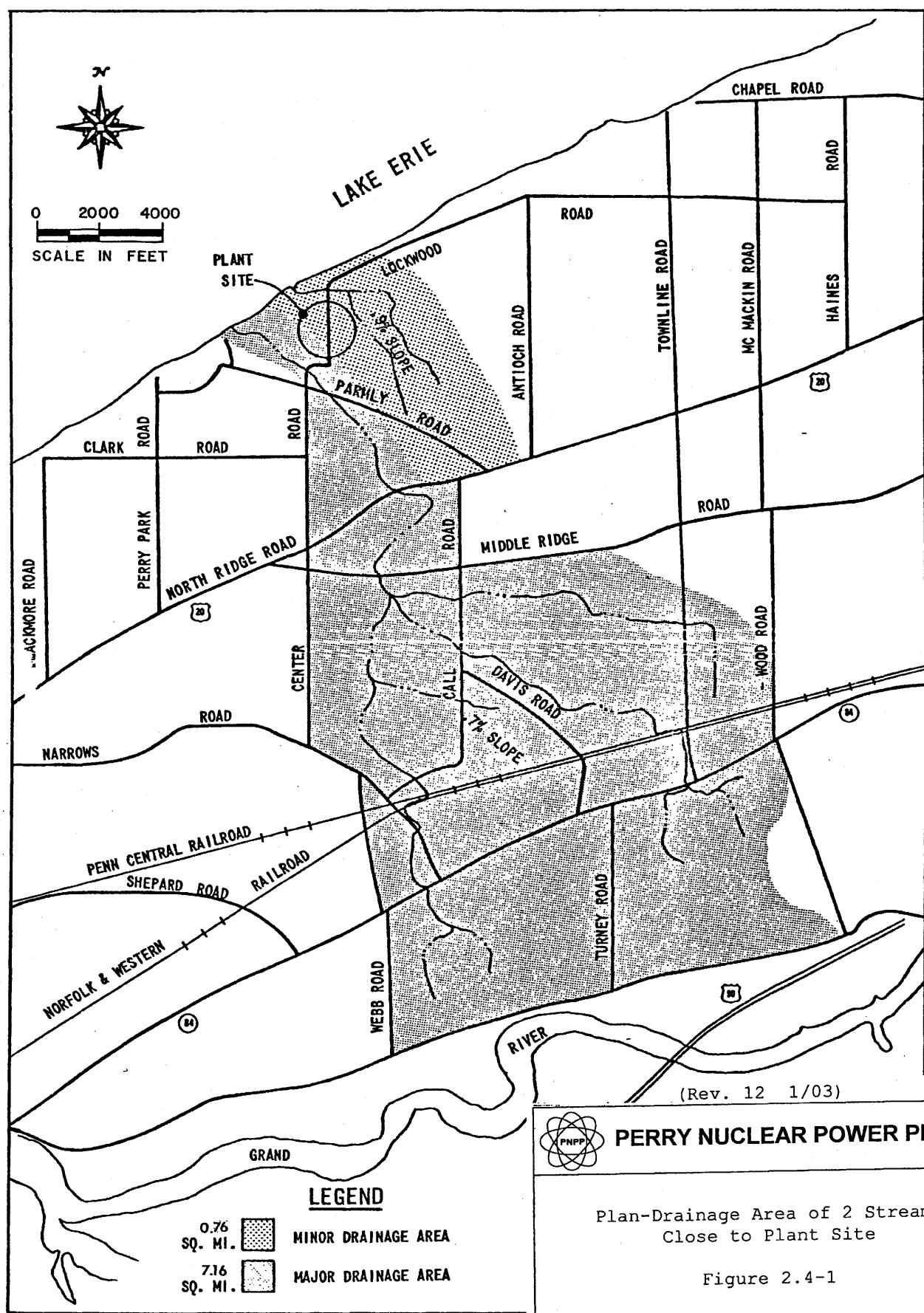
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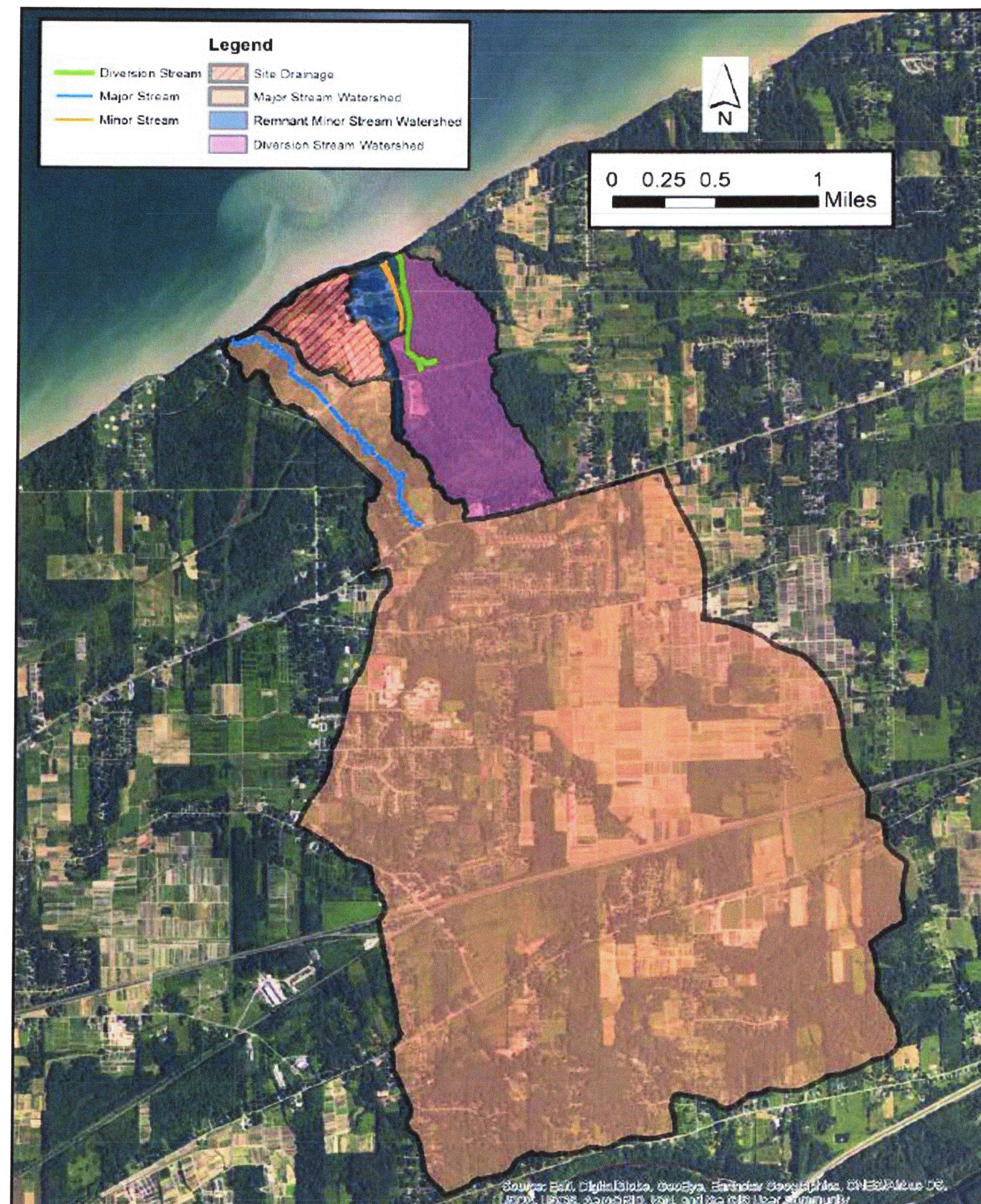
(Rev. 12 1/03)

**PERRY NUCLEAR POWER PLANT**

Region Topographic Map
5 Mile Radius

Figure 2.3-17





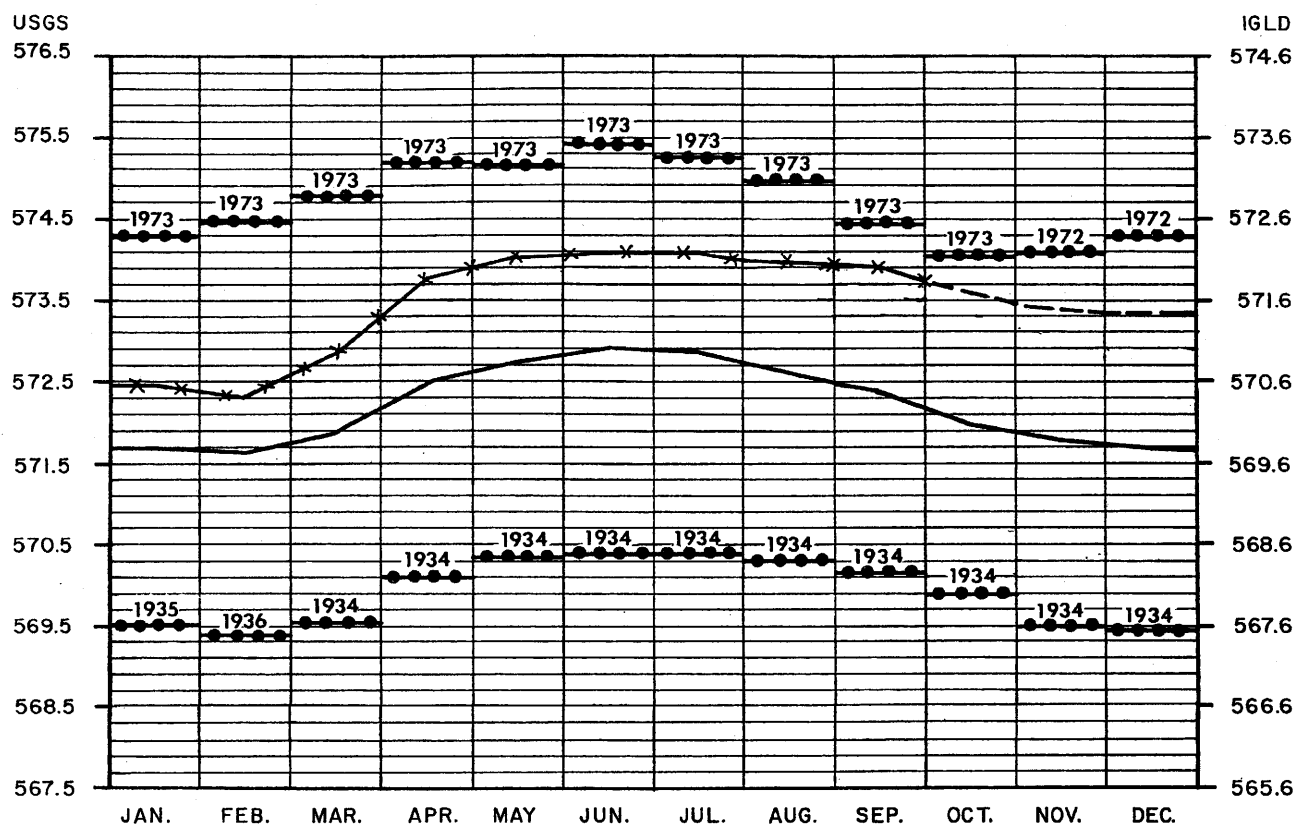
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NOTE: (NOT FOR INCORPORATION)
Figure 2.4-1 is revised in its entirety.

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Plan - Drainage Area of 2 Streams
Close to Plant Site

Figure 2.4-1



REFERENCE: LAKE SURVEY CENTER, NOAA

LEGEND

- x — x — x — 1979 (ACTUAL)
- - - - - 1979 (PROJECTION)
- AVERAGE LEVELS
(PERIOD OF RECORD
1860 TO 1973)
- • • • • MAXIMUM OR MINIMUM
MONTHLY MEAN LEVEL
(PERIOD OF RECORD
1860 TO 1973)

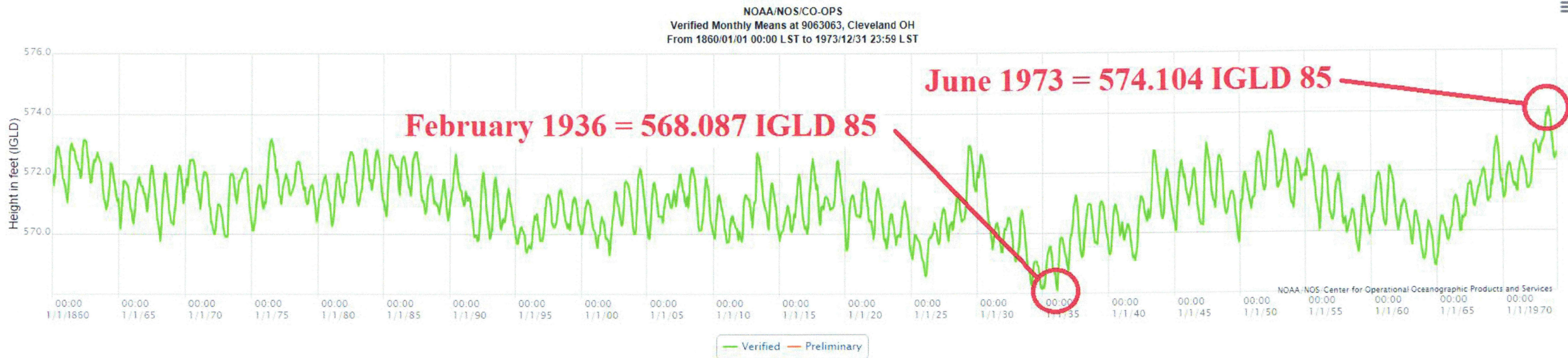
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Lake Erie Water Levels

Figure 2.4-2



MEAN MONTHLY ELEVATIONS FOR LAKE ERIE (IGLD 85 VERTICAL DATUM)

Attribute	IGLD 85	IGLD 85 (Dynamic)	IGLD 55	NAVD 88	NGVD 29	NGVD 29 PLD
Highest Mean Monthly WSE (June 1973)	574.1'	574.1'	573.5'	574.4'	575.1'	575.4'
Lowest Mean Monthly WSE (Feb. 1936)	568.0'	568.1'	567.4'	568.3'	569.1'	569.3'
IGLD 85 Conversion Adjustment (feet)	N/A	+ 0.033 (ft)	-0.597 (ft)	0.262 (ft)	1.014 (ft)	1.224 (ft)

VERTICAL DATUM CONVERSION VALUES

- NOTES:
1. NGVD29 PLD IS THE DATUM REFERENCED FOR BUILDING ELEVATIONS
 2. DATA PRESENTED IN THIS FIGURE SOURCED FROM PNPP CALCULATION 50:74.000
 3. AMBIENT HIGH WATER BASED ON HIGHEST MEAN MONTHLY AVERAGE = 575.4 FT PLD
 4. AMBIENT LOW WATER BASED ON LOWEST MEAN MONTHLY AVERAGE = 569.3 FT PLD
 5. MAXIMUM STILLWATER LAKE LEVEL ELEVATION = 580.5 FT PLD

NOTE (NOT FOR INCORPORATION: FIGURE 2.4-2 REVISED IN ITS ENTIRETY.)

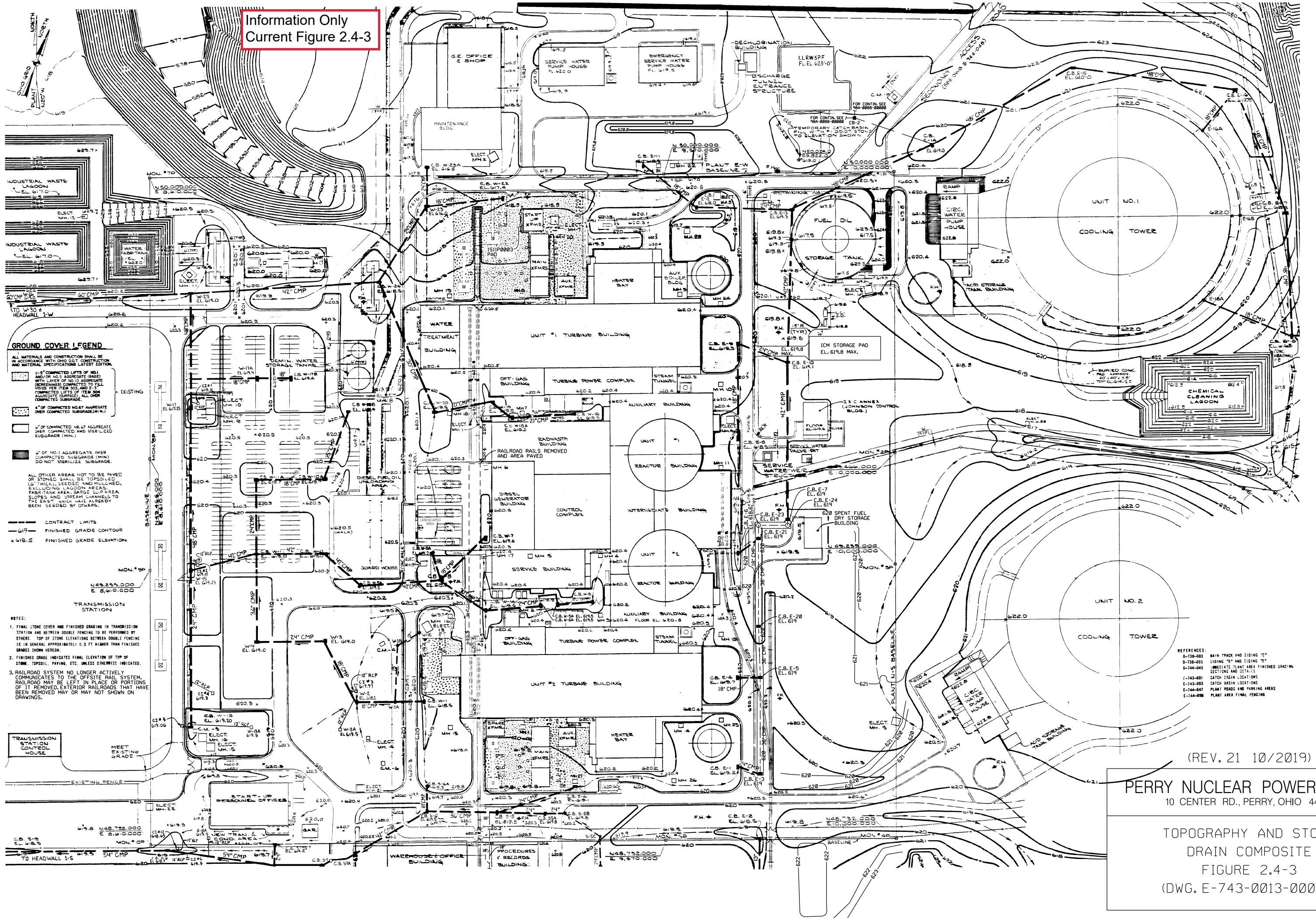
CHANGE TITLE
THIS CN

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

LAKE ERIE WATER LEVELS AND DATUM
CONVERSION VALUES

FIGURE 2.4-2

Information Only
Current Figure 2.4-3



(REV. 21 10/2019)

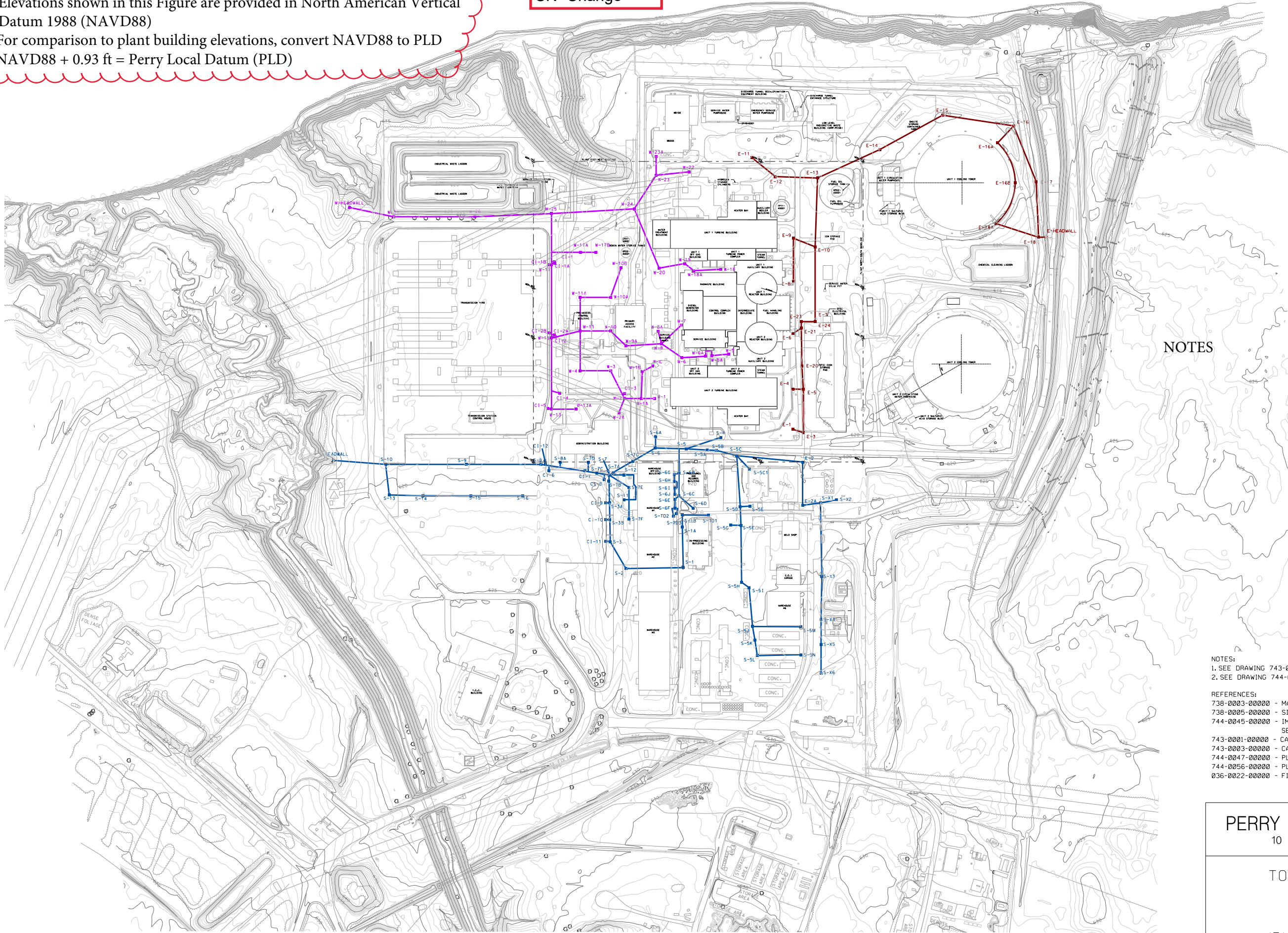
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

TOPOGRAPHY AND STORM
DRAIN COMPOSITE
FIGURE 2.4-3
(DWG. E-743-0013-00000)

NOTES

- 1. Elevations shown in this Figure are provided in North American Vertical Datum 1988 (NAVD88)
- 2. For comparison to plant building elevations, convert NAVD88 to PLD
- 3. NAVD88 + 0.93 ft = Perry Local Datum (PLD)

Information Only
CN=Change



NOTES

NOTE (NOT FOR INCORPORATION):
THIS ENTIRE FIGURE HAS BEEN REVISED.

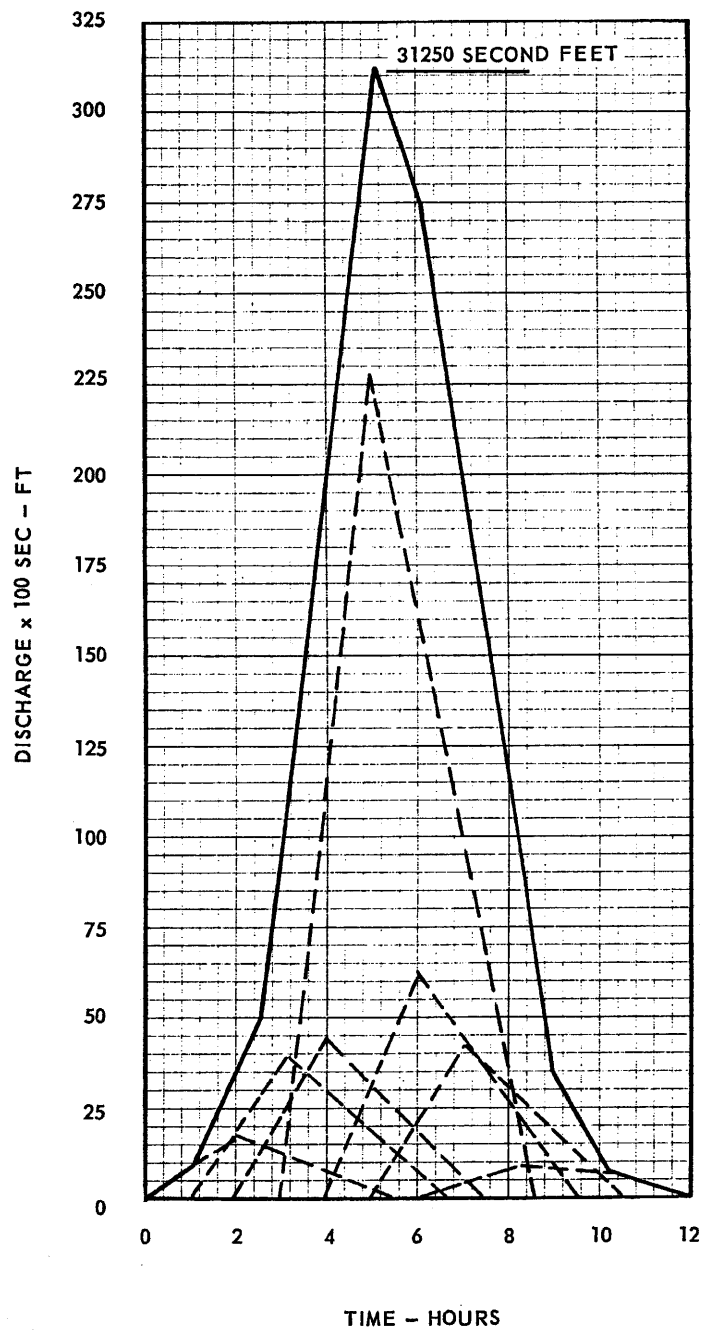
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CN

- NOTES:
- 1. SEE DRAWING 743-0013-00001 FOR CATCH BASIN SCHEDULE.
 - 2. SEE DRAWING 744-0047-00000 FOR GROUND COVER INFORMATION.

- REFERENCES:
- 738-0003-00000 - MAIN TRACK AND SIDING 'C'
 - 738-0005-00000 - SIDING 'B' AND SIDING 'D'
 - 744-0045-00000 - IMMEDIATE PLANT AREA GRADING SECTIONS AND DETAILS
 - 743-0001-00000 - CATCH BASIN LOCATIONS
 - 743-0003-00000 - CATCH BASIN LOCATIONS
 - 744-0047-00000 - PLANT ROADS AND PARKING AREAS
 - 744-0056-00000 - PLANT AREA FINAL FENCING
 - 036-0022-00000 - FINAL PLANT LAYOUT, PLOT PLAN, PLANT AREA

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

TOPOGRAPHY AND STORM
DRAIN COMPOSITE
FIGURE 2.4-3
(DWG. D-743-0013-00000)



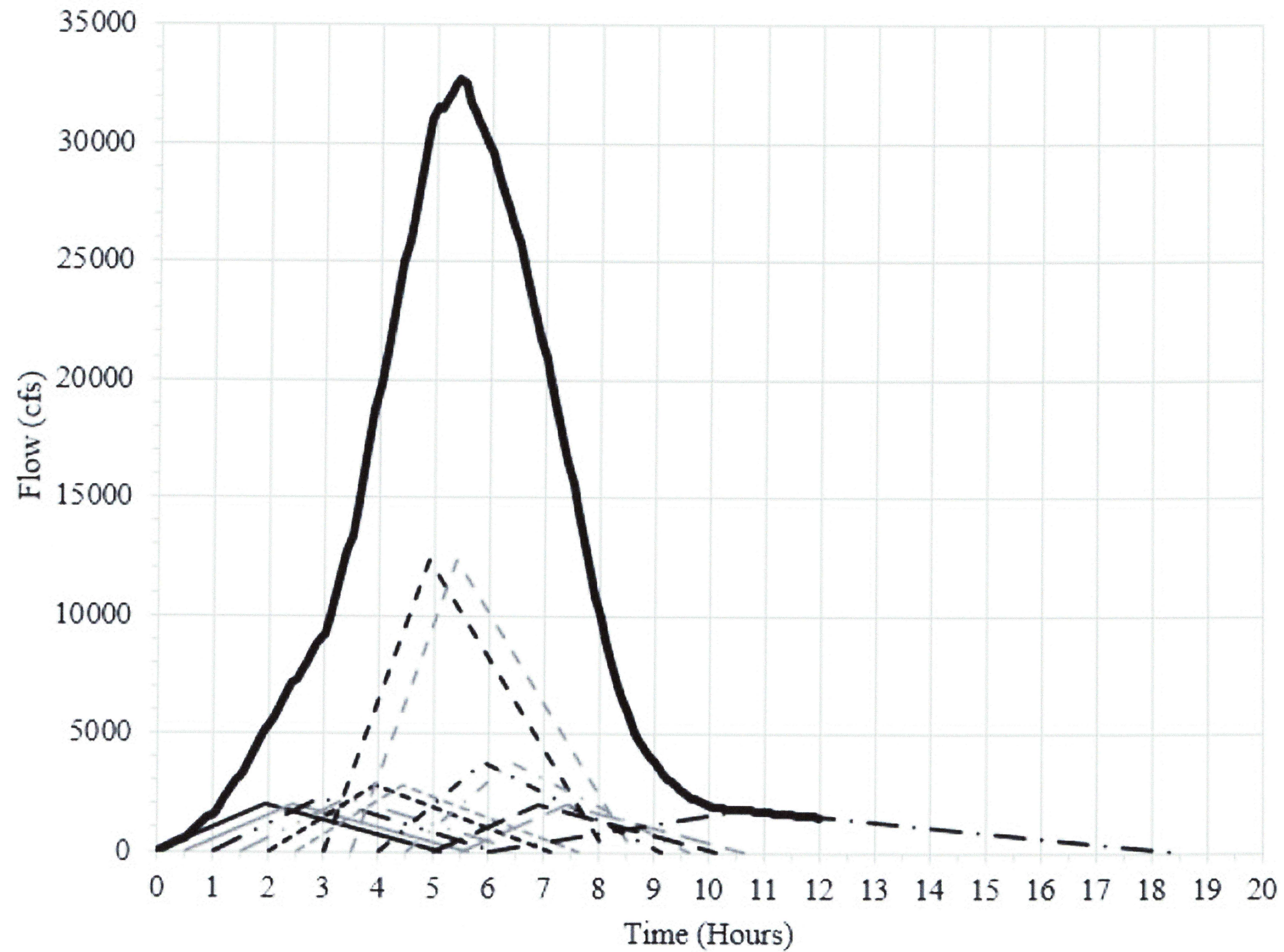
(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Hydrograph of PMF Discharge Into
Lake Erie-Major Stream

Figure 2.4-4



THIS CN

NOTE: (NOT FOR INCORPORATION)
Figure 2.4-4 is revised in its entirety.

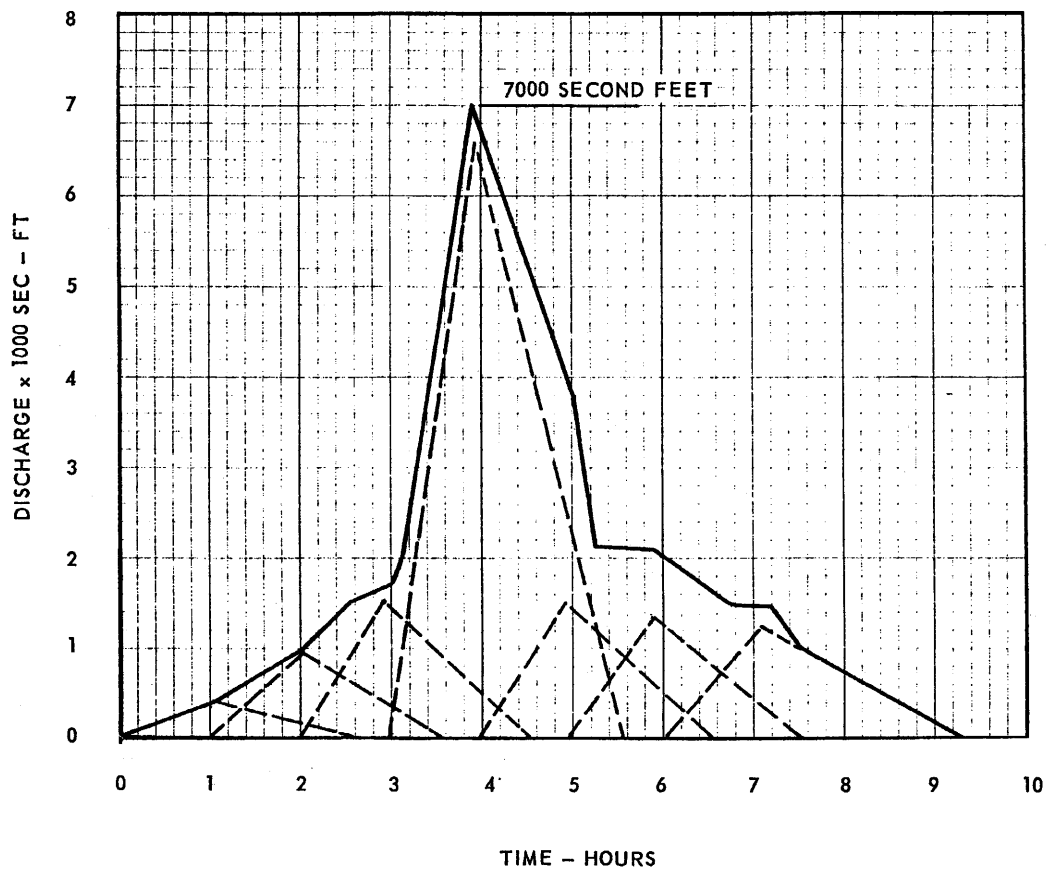
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Hydrograph of PMF Discharge Into
Lake Erie-Major Stream

Figure 2.4-4

Removed in Accordance with RIS 2015–17

Information Only
Current Figure 2.4-5



(Rev. 12 1/03)

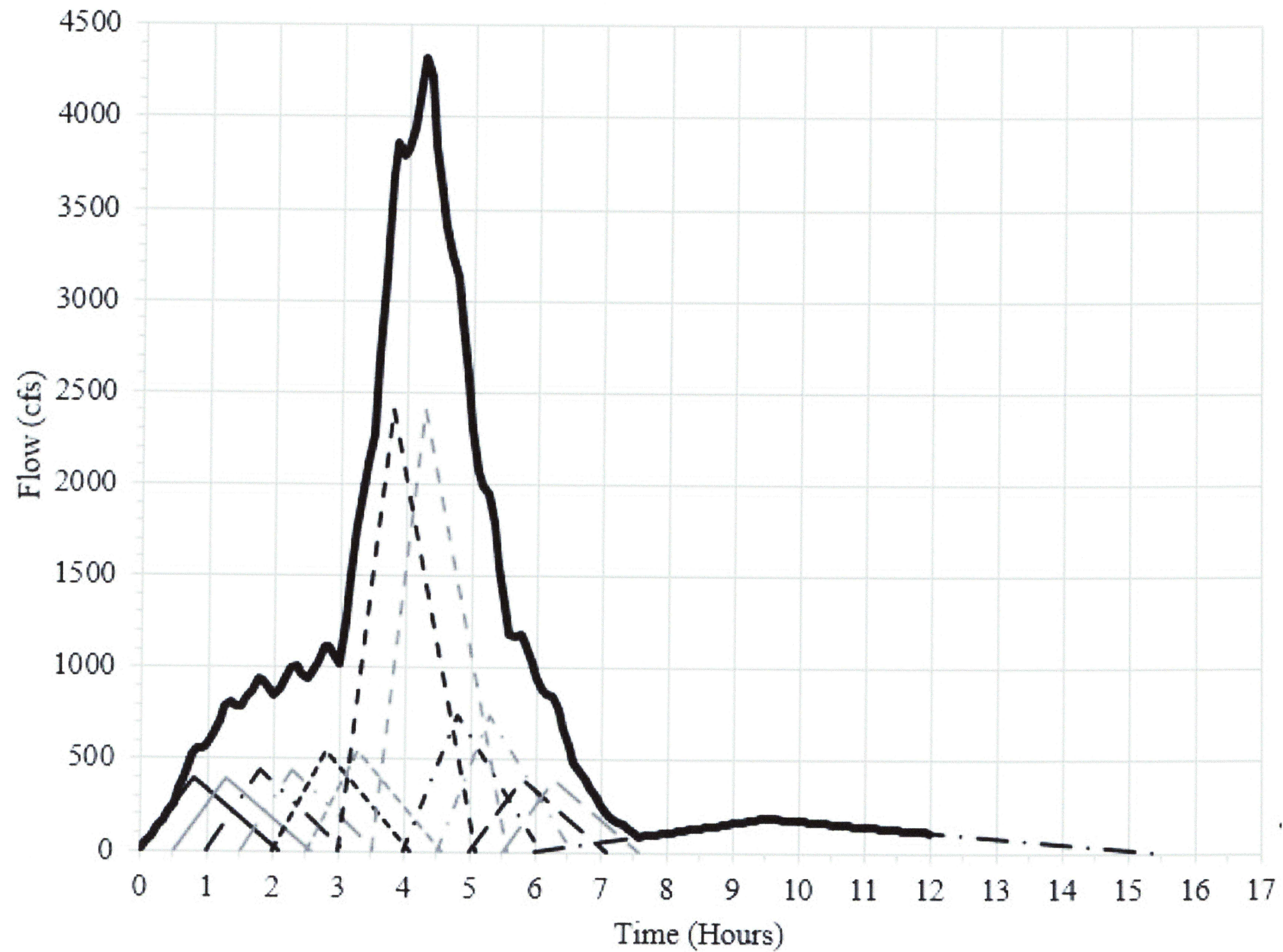


PERRY NUCLEAR POWER PLANT

Hydrograph of PMF Discharge Into
Lake Erie-Minor Stream

Figure 2.4-5

Information Only
CN=Change



NOTE: (NOT FOR INCORPORATION) Figure 2.4-5 is revised in its entirety.

THIS CN

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Hydrograph of PMF Discharge Into
Lake Erie-Diversion Stream

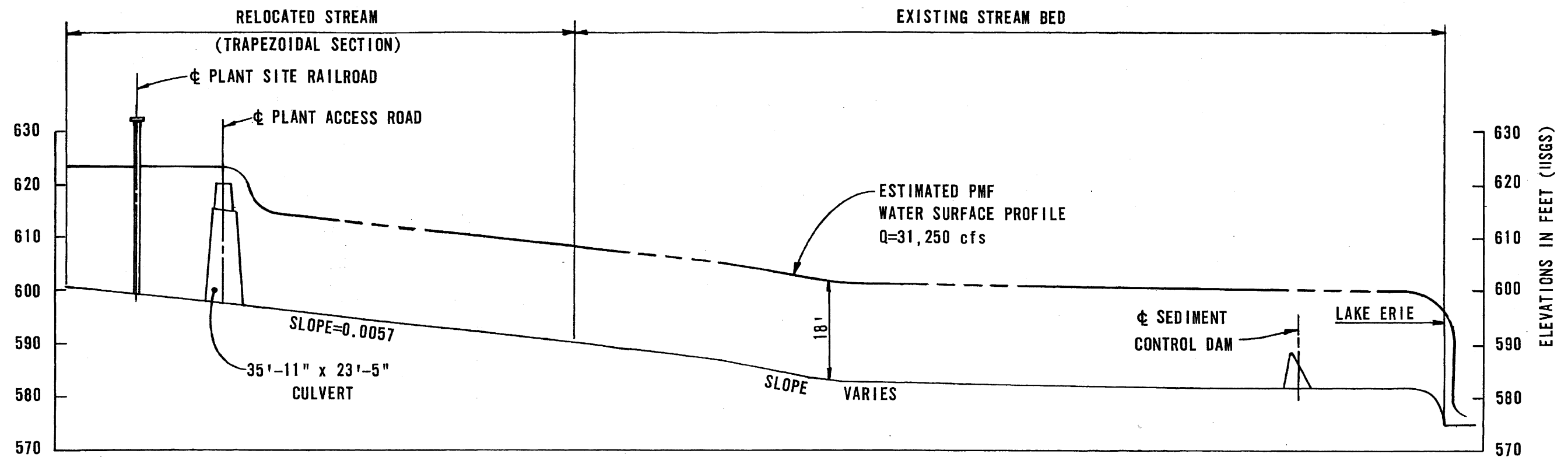
Figure 2.4-5

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Plan - Diversion Stream Inundation Area

Figure 2.4-5a



STREAM PROFILE
SCALE: HORIZ. 1"=400'
VERT. 1"=20'

(Rev. 12-1/03)

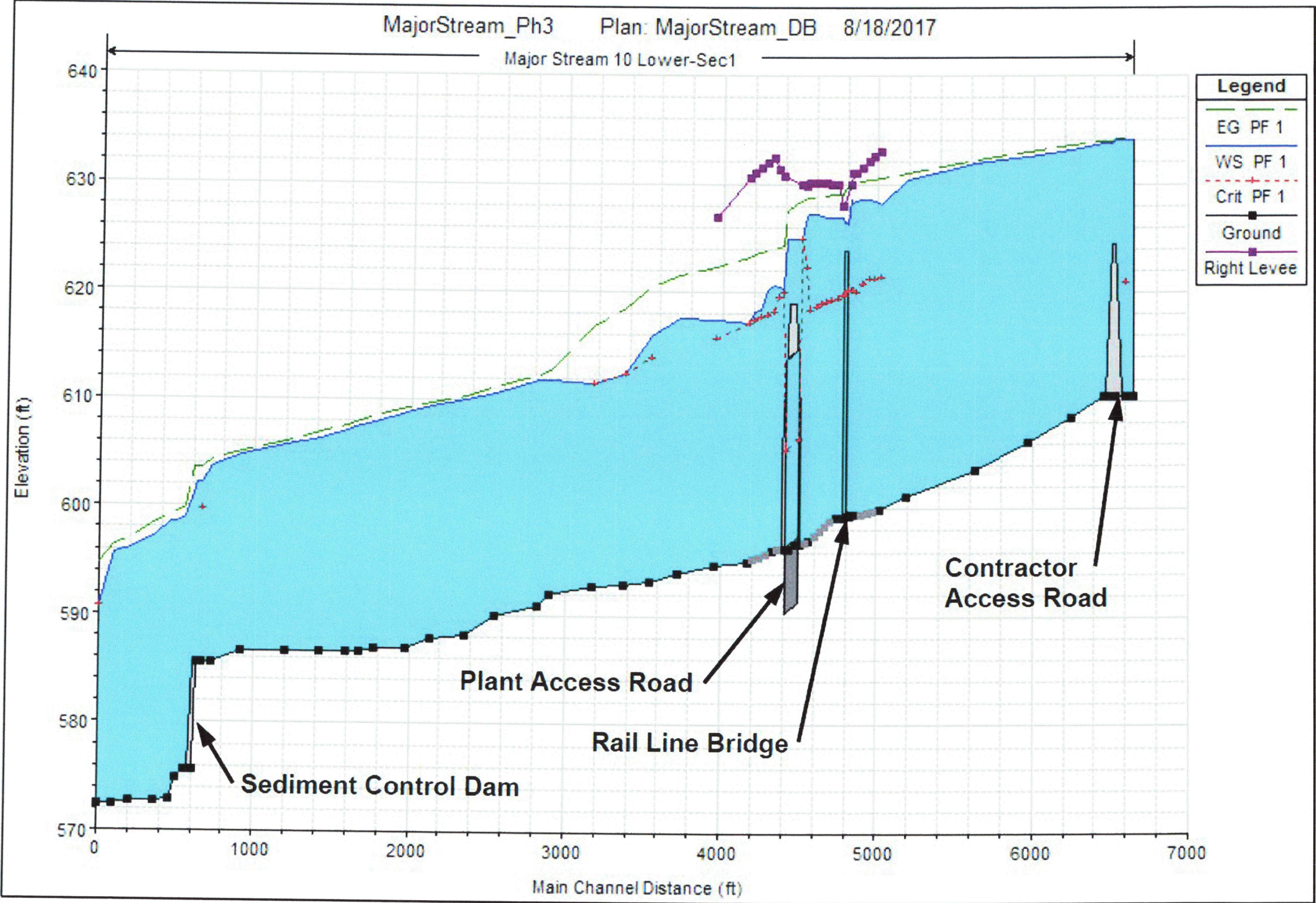


PERRY NUCLEAR POWER PLANT

Probable Maximum Flood Profiles-
Major Stream

Figure 2.4-6

Information Only
CN=Change



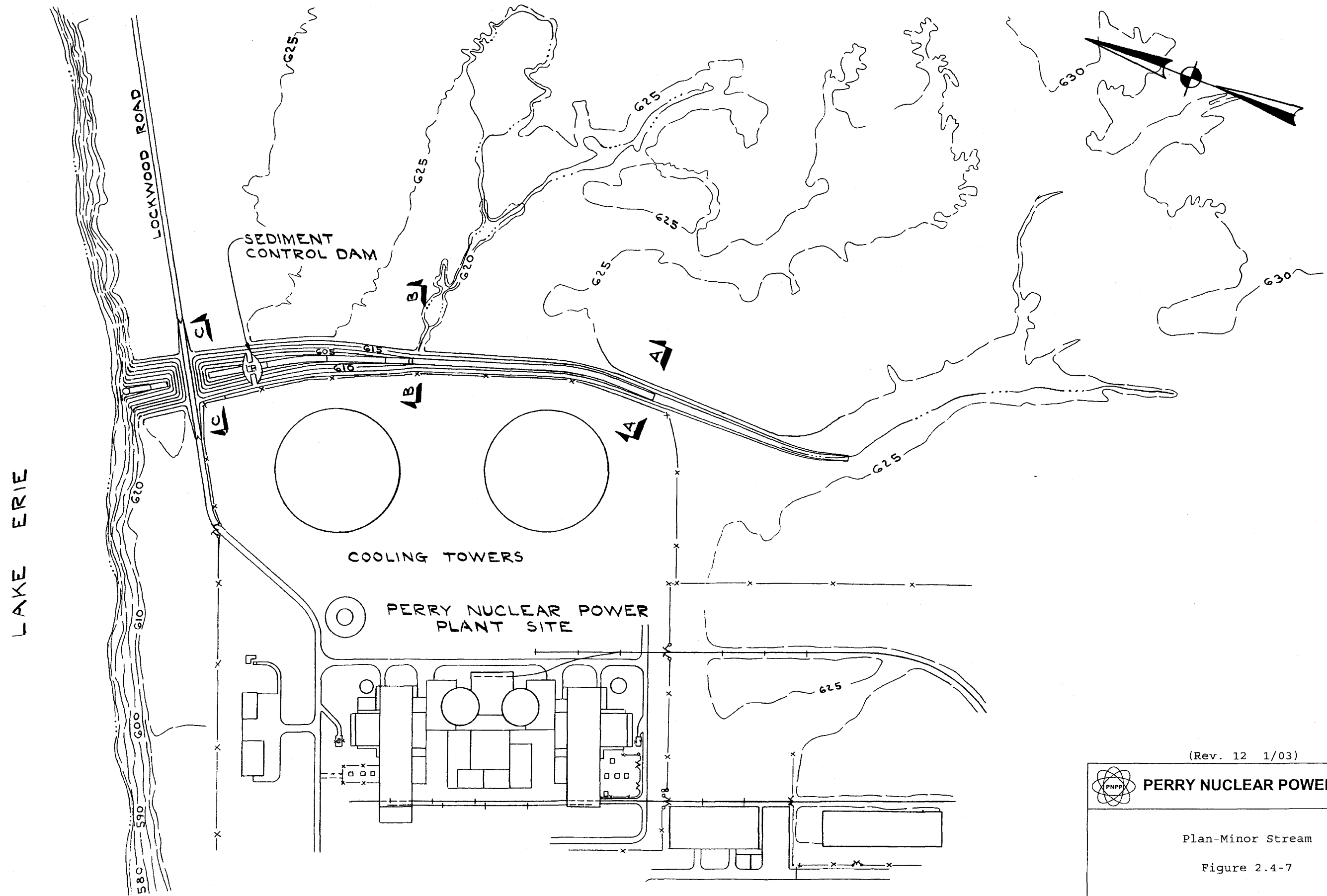
NOTE (NOT FOR
INCORPORATION)
Figure 2.4-6 Revised in
its entirety.

- ADD PER THIS CN
- NOTES:
1. Elevations shown in this Figure are provided in North American Vertical Datum 1988 (NAVD88)
 2. For comparison to plant building elevations, convert NAVD88 to PLD
 3. NAVD88 + 0.93 ft = Perry Local Datum (PLD)
 4. Source: PNPP Calculation 50:72.000

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Probable Maximum Flood Profiles -
Major Stream

Figure 2.4-6



(Rev. 12 1/03)



PERRY NUCLEAR POWER PLANT

Plan-Minor Stream

Figure 2.4-7

Information Only
CN=Change



NOTE: (NOT FOR INCORPORATION)
Figure 2.4-7 is revised in its entirety.

THIS CN

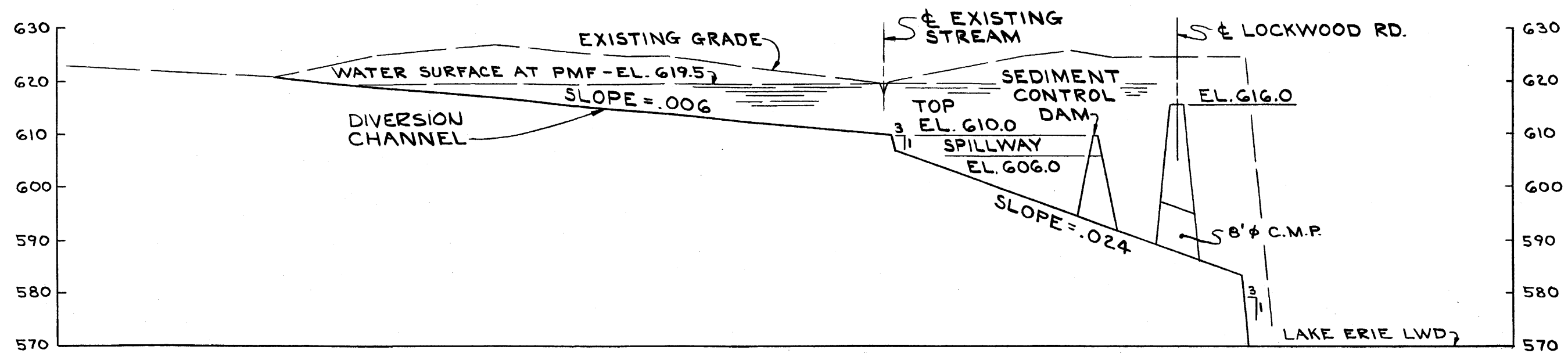
NOTES:
1. Figure adapted from Drawing 744-0177-0002

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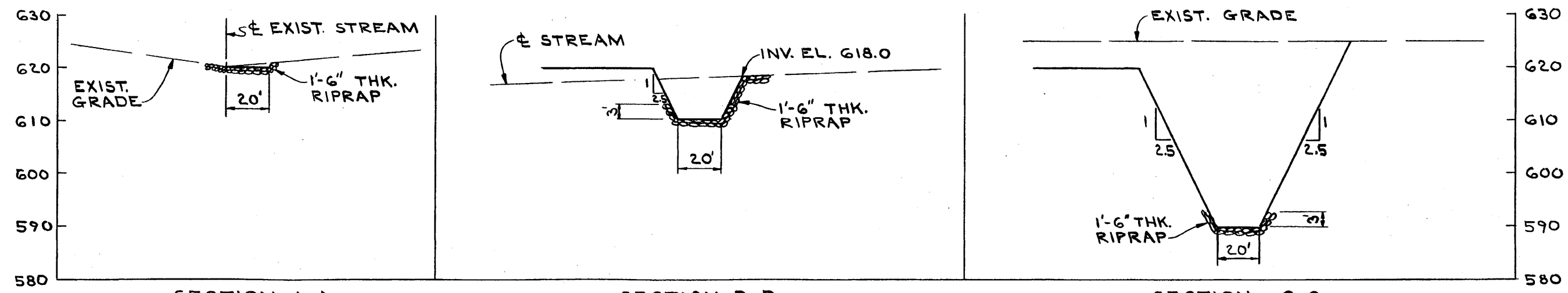
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Plan - Diversion Stream

Figure 2.4-7




PROFILE OF DIVERSION CHANNEL
SCALE: HORIZ. 1" = 300'-0"
VERT. 1" = 20'-0"



SECTION B-B
SCALE: HORIZ. 1" = 50'-0"
VERT. 1" = 20'-0"

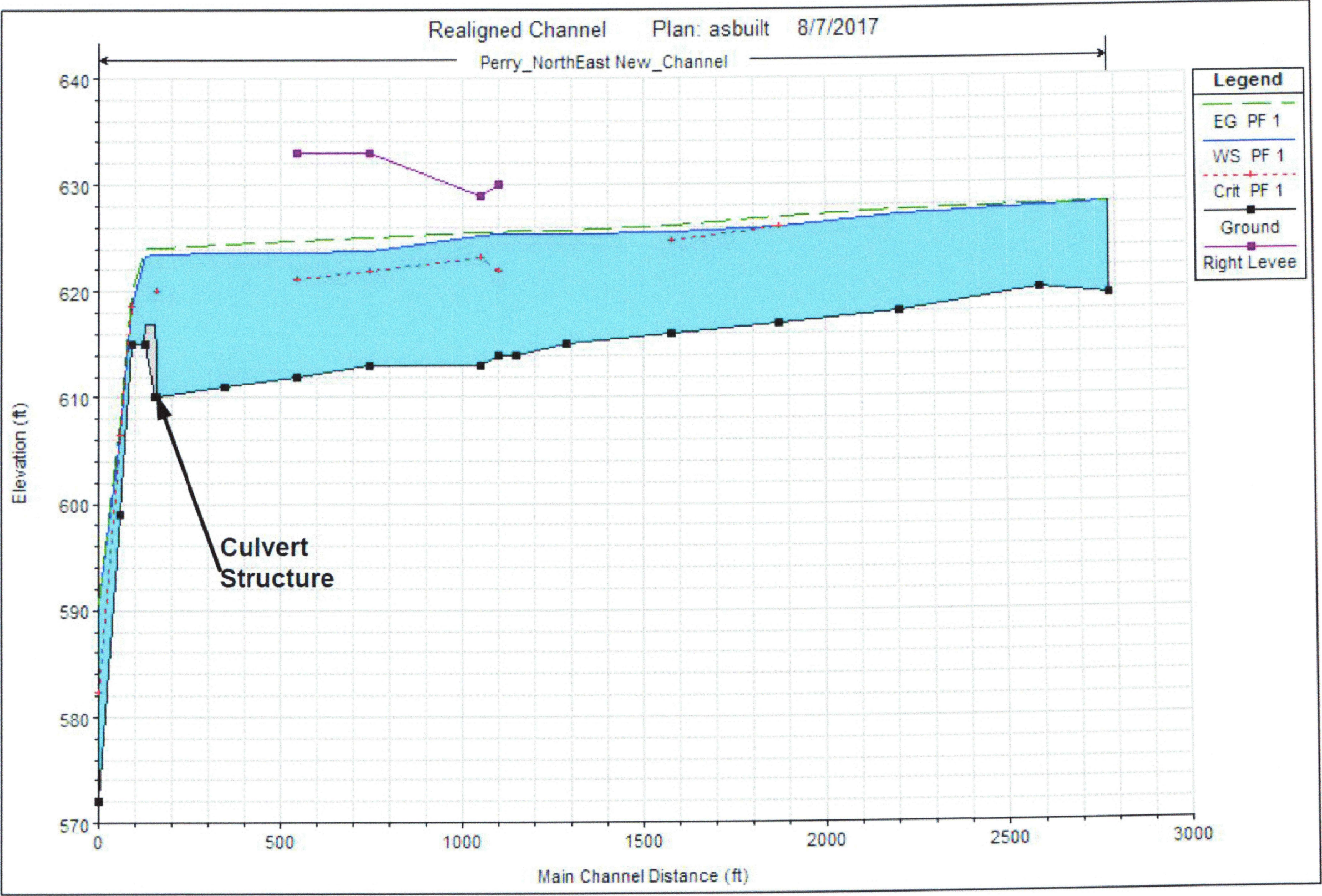
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 **PERRY NUCLEAR POWER PLANT**

Profile and Typical
Cross Sections-Minor Stream

Figure 2.4-8

Information Only
CN=Change



NOTE (NOT FOR
INCORPORATION:
Figure 2.4-8 Revised in
its entirety.

ADD PER THIS CN

- NOTES:
1. Elevations shown in this Figure are provided in North American Vertical Datum 1988 (NAVD88)
 2. For comparison to plant building elevations, convert NAVD88 to PLD
 3. NAVD88 + 0.93 ft = Perry Local Datum (PLD)
 4. Source: PNPP Calculation 50:73.000

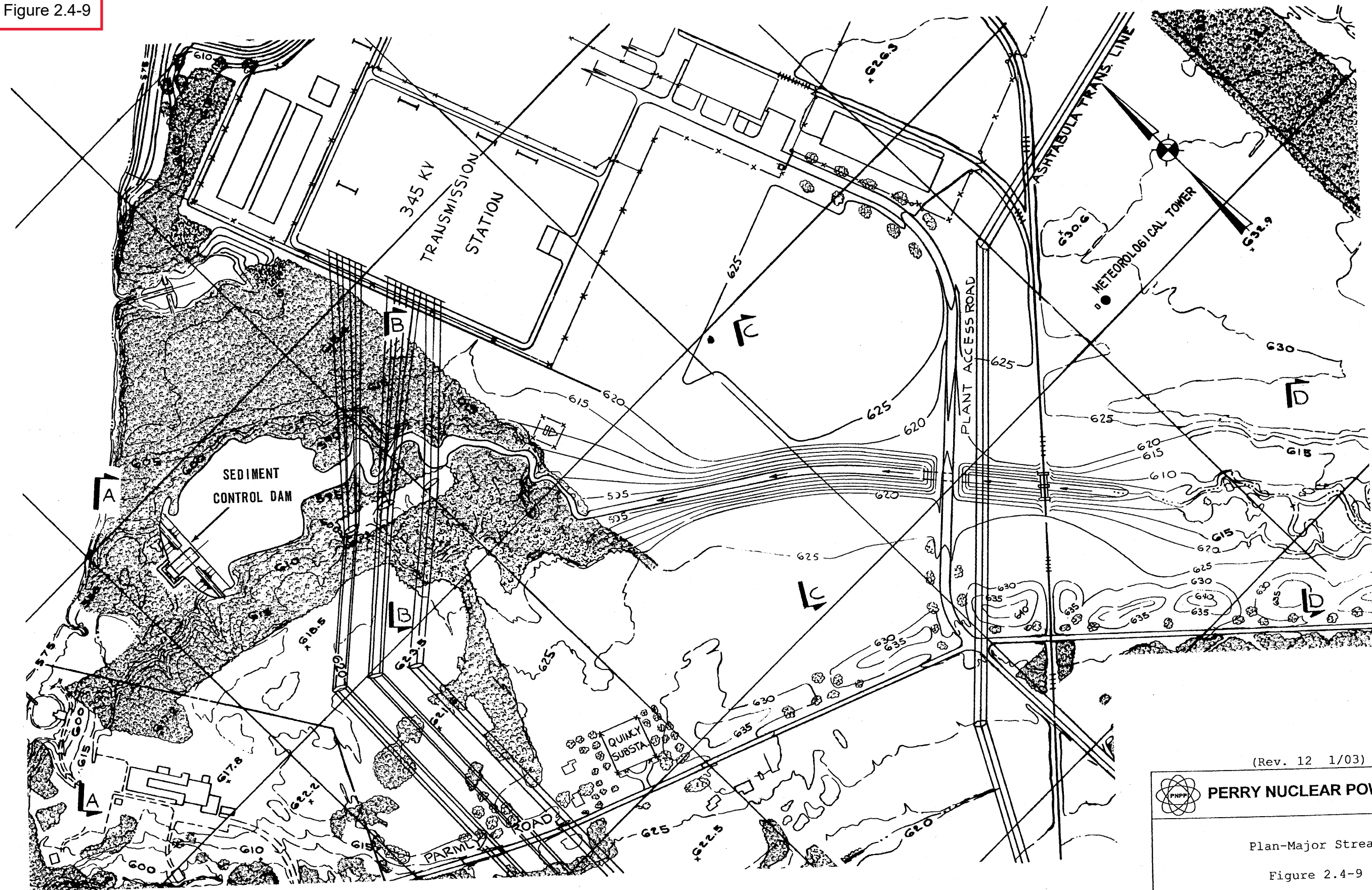
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PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

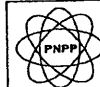
Profile and Typical Cross Sections -
Diversion Stream

Figure 2.4-8

Removed in Accordance with RIS 2015–17



(Rev. 12 1/03)

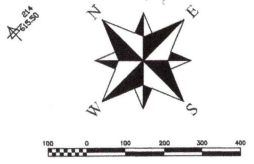
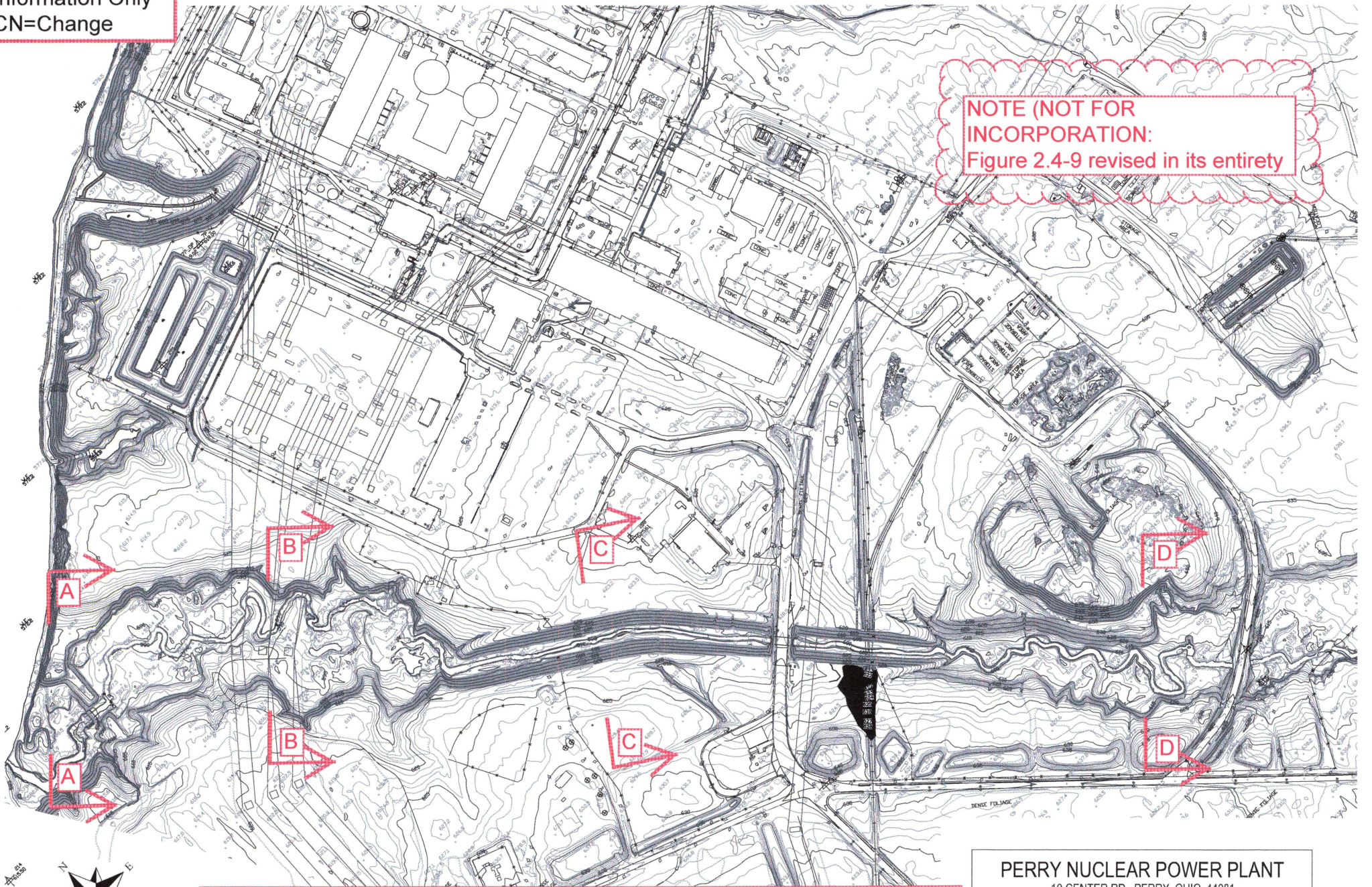
 **PERRY NUCLEAR POWER PLANT**

Plan-Major Stream

Figure 2.4-9

Information Only
CN=Change

NOTE (NOT FOR
INCORPORATION:
Figure 2.4-9 revised in its entirety

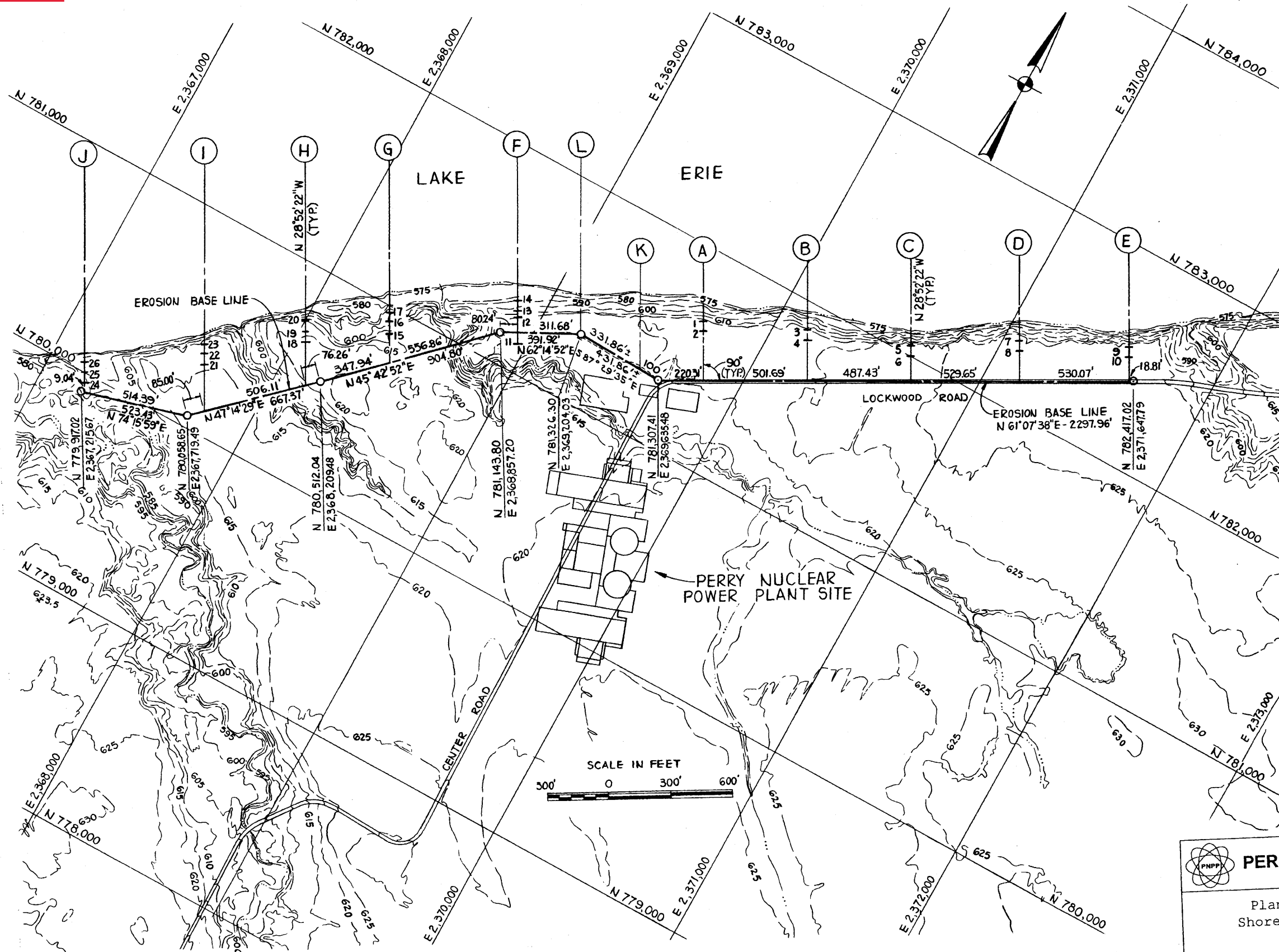


- NOTES:
1. Elevations shown in this Figure are provided in North American Vertical Datum 1988 (NAVD88)
 2. For comparison to plant building elevations, convert NAVD88 to PLD
 3. NAVD88 + 0.93 ft = Perry Local Datum (PLD)

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

Plan - Major Stream

Figure 2.4-9



(Rev. 12 1/03)

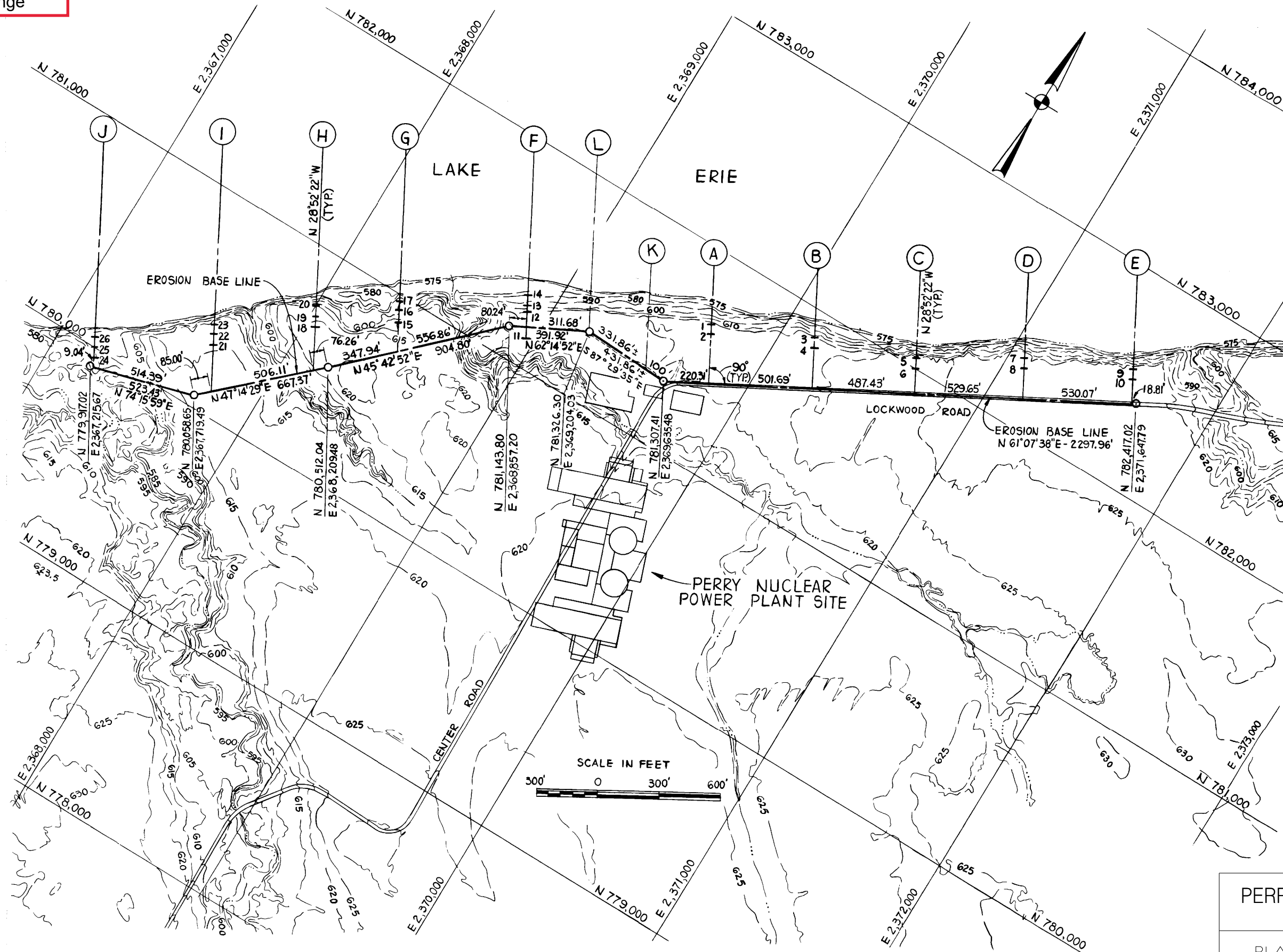


PERRY NUCLEAR POWER PLANT

Plan-Location of Lake Erie
Shoreline and Bluff Recession
Survey Lines

Figure 2.4-32

Information Only
CN=Change

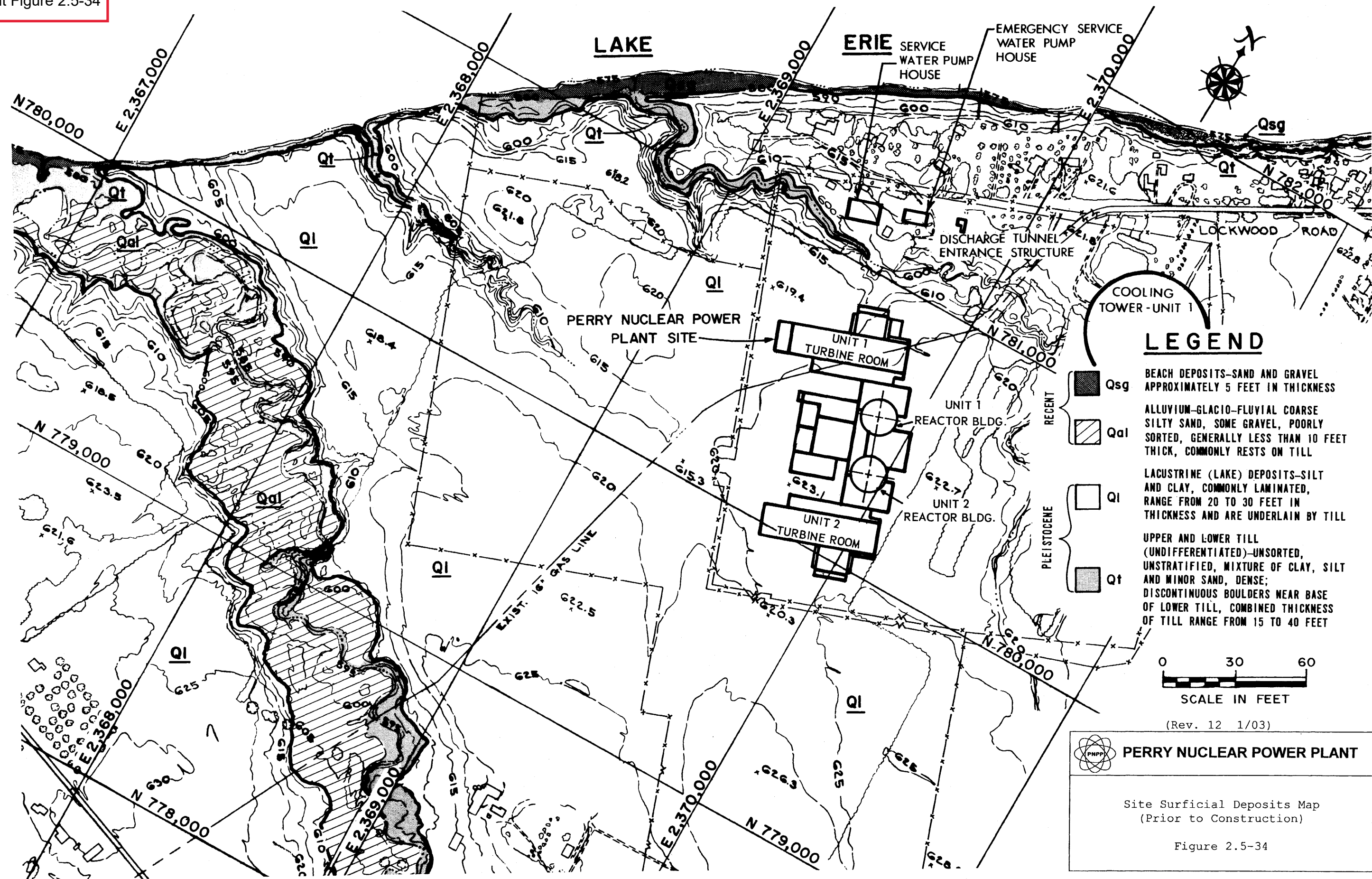


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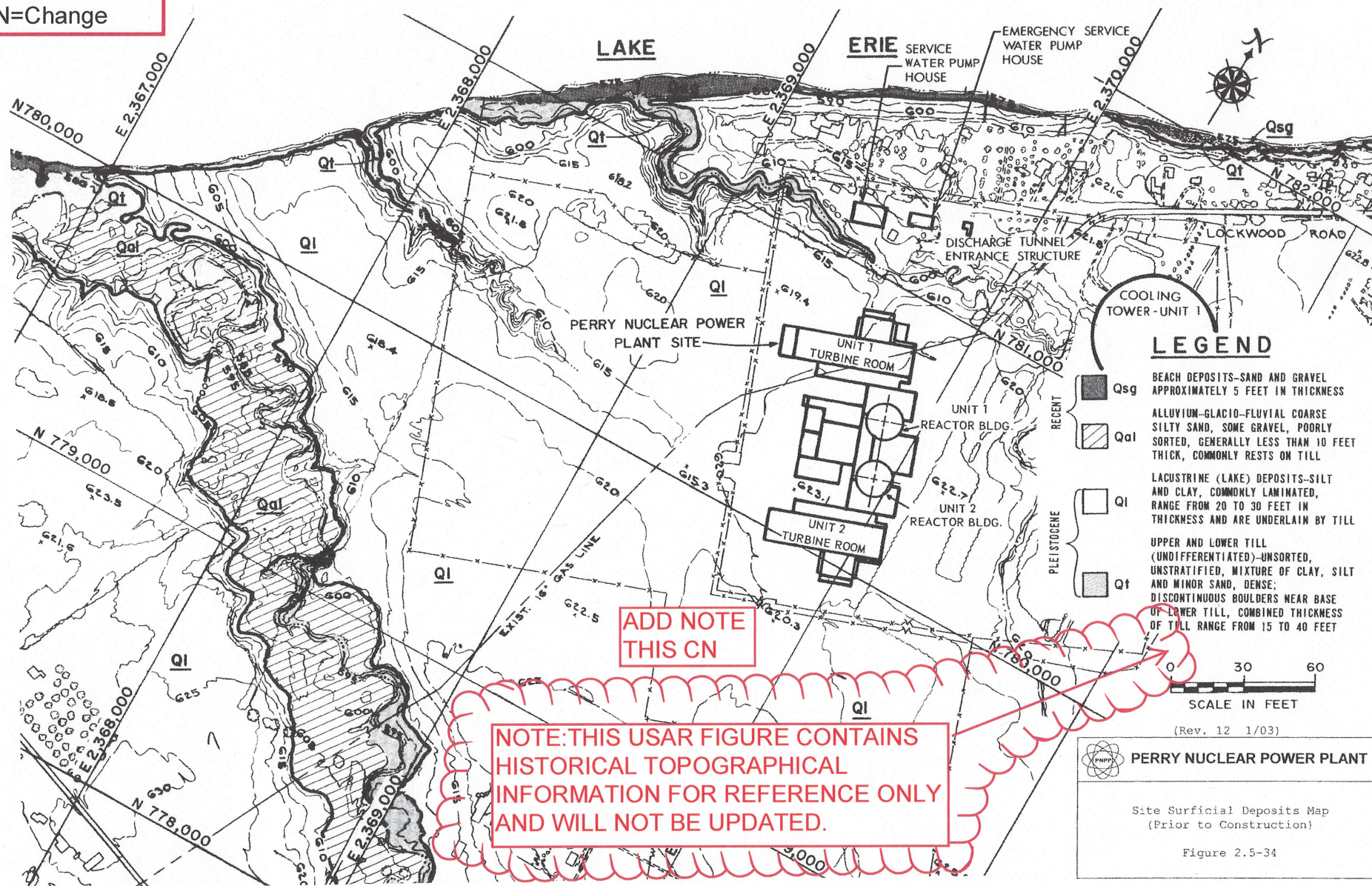
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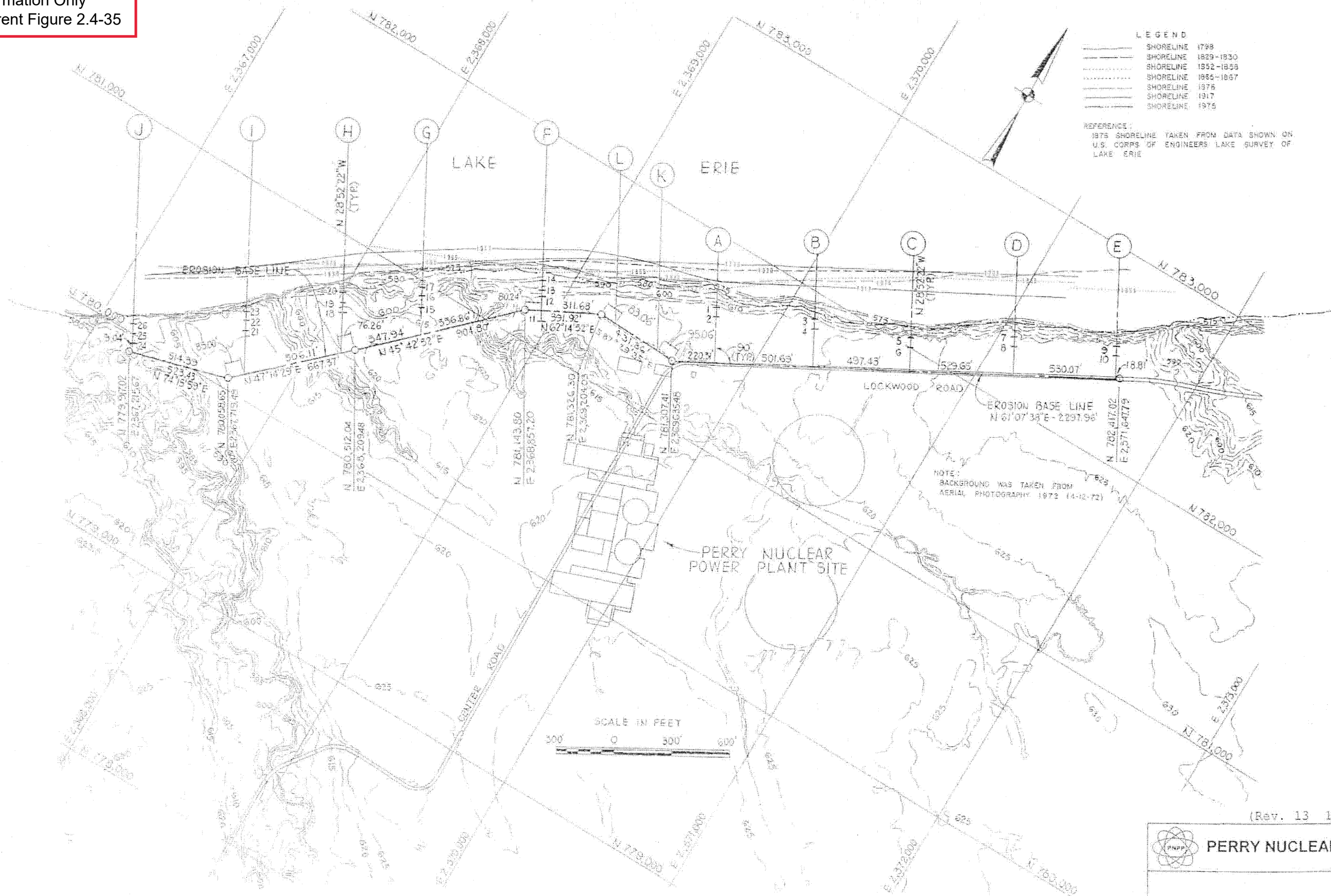
PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

PLAN-LOCATION OF LAKE ERIE
SHORELINE AND BLUFF RECESSION
SURVEY LINES
FIGURE 2.4-32

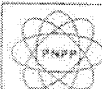


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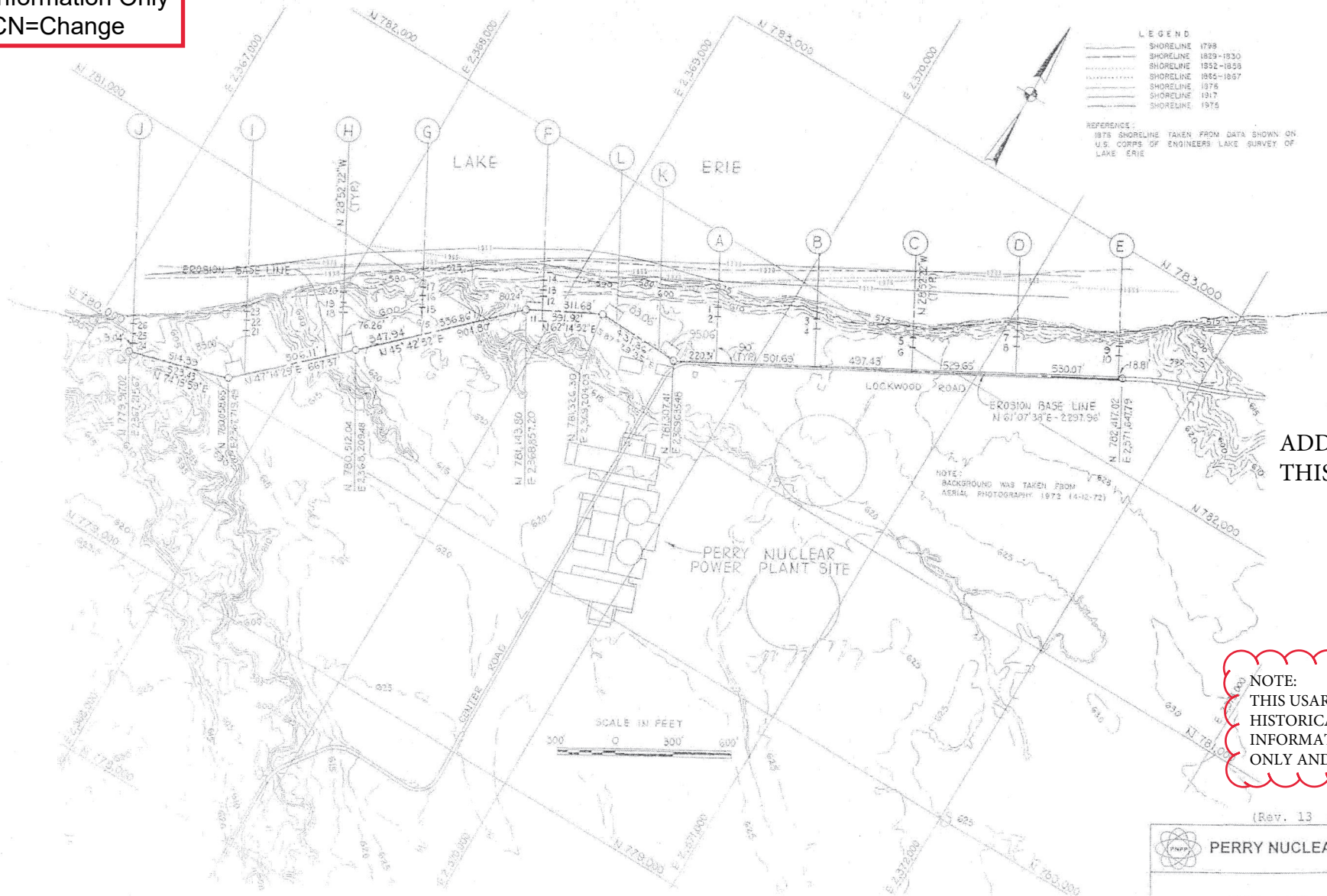


PERRY NUCLEAR POWER PLANT

1937, 1957, 1964, 1972
Top of Bluff Lines

Figure 2.4-35


Information Only
CN=Change



ADD NOTE
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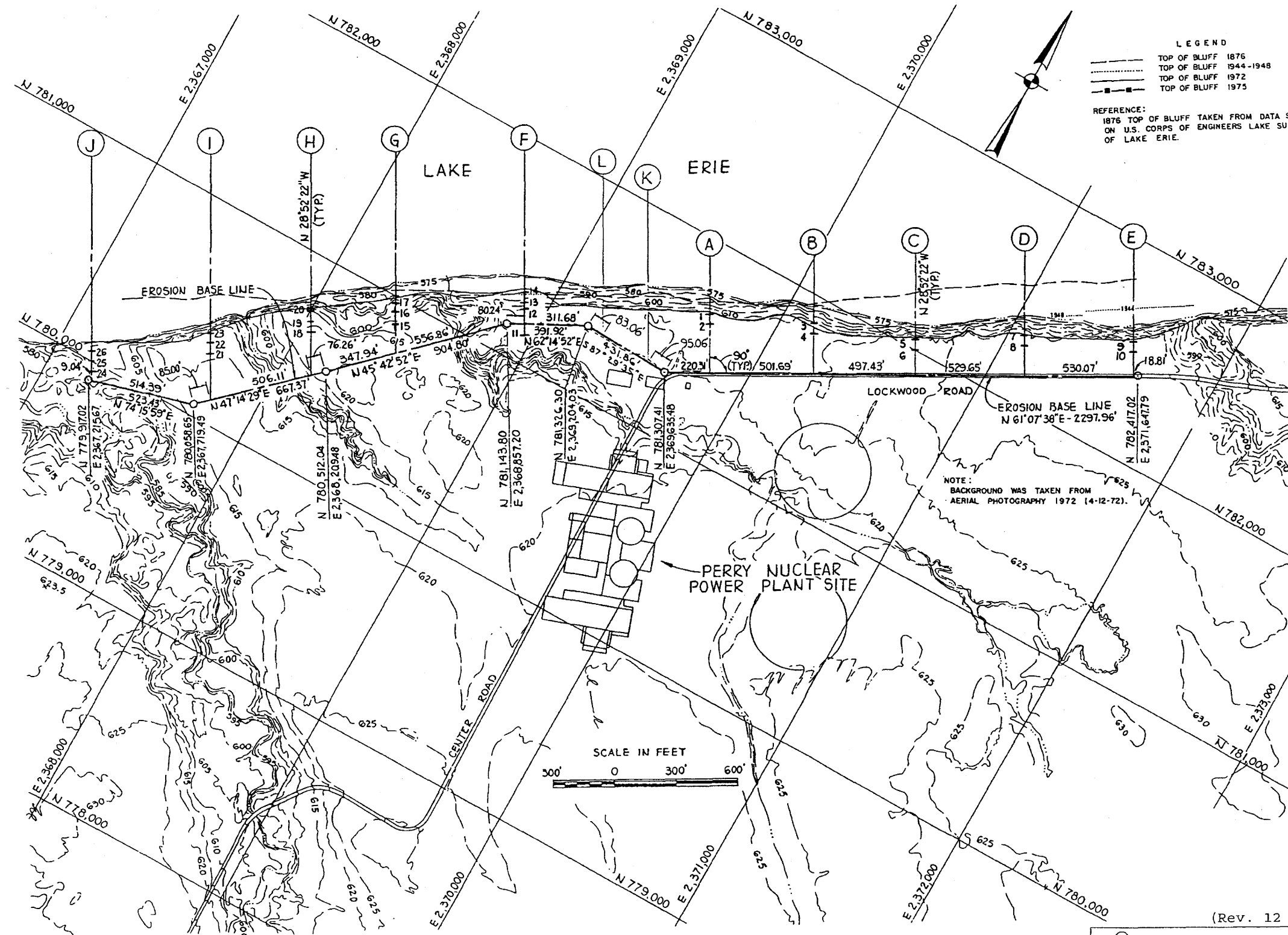
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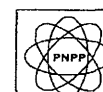
**PERRY NUCLEAR POWER PLANT**

1937, 1957, 1964, 1972
Top of Bluff Lines

Figure 2.4-35



(Rev. 12 1/03)

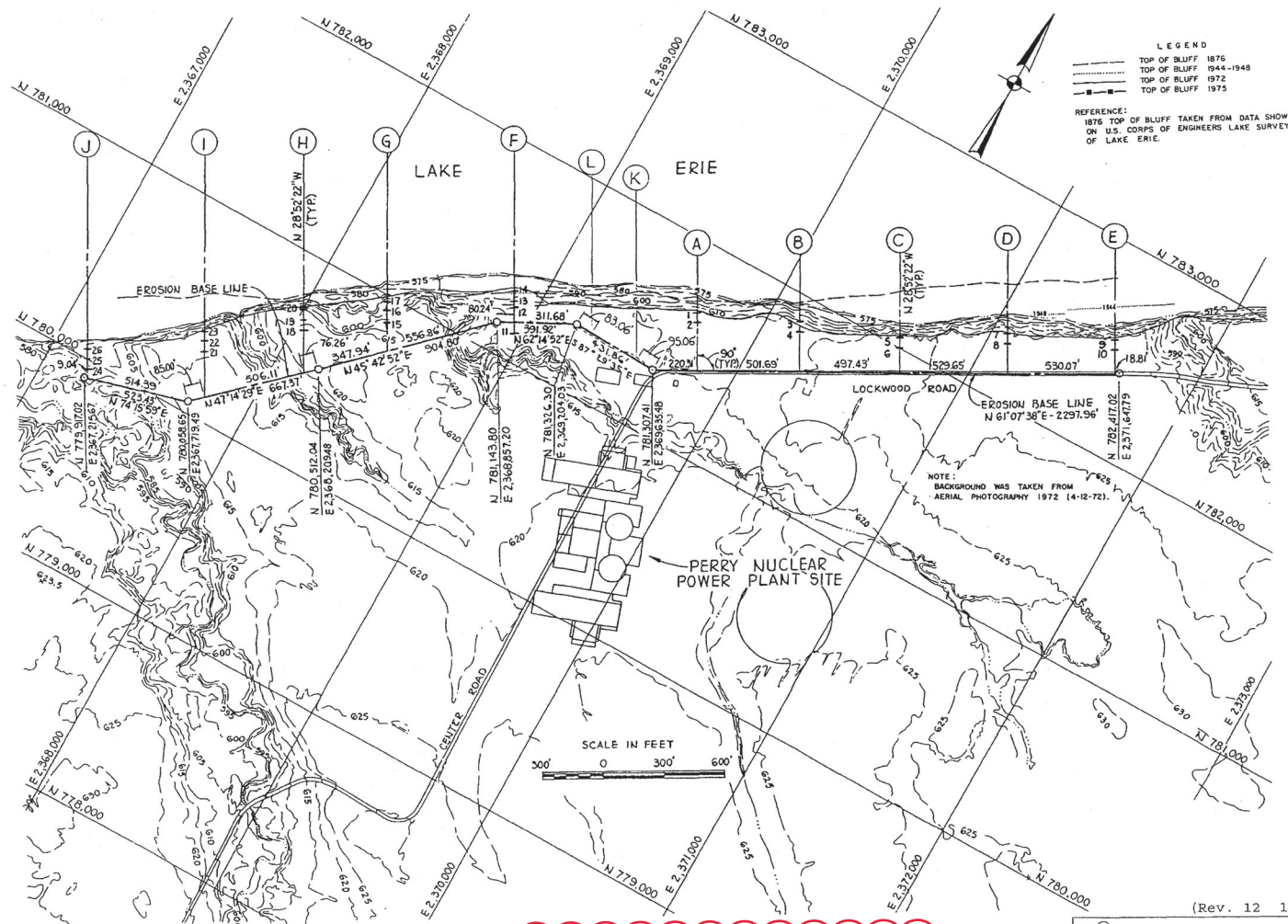


PERRY NUCLEAR POWER PLANT

1876 Top of Bluff

Figure 2.4-36

Information Only
CN=Change



ADD NOTE
THIS CN

NOTE:
THIS USAR FIGURE CONTAINS
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INFORMATION FOR REFERENCE
ONLY AND WILL NOT BE UPDATED.

	PERRY NUCLEAR POWER PLANT
	1876 Top of Bluff
	Figure 2.4-36



(Rev. 13 12/03)



PERRY NUCLEAR POWER PLANT

1798, 1829-30, 1852-1858, 1965-67,
1876, 1917, 1975 Shorelines

Figure 2.4-37


Information Only
CN=Change



ADD NOTE
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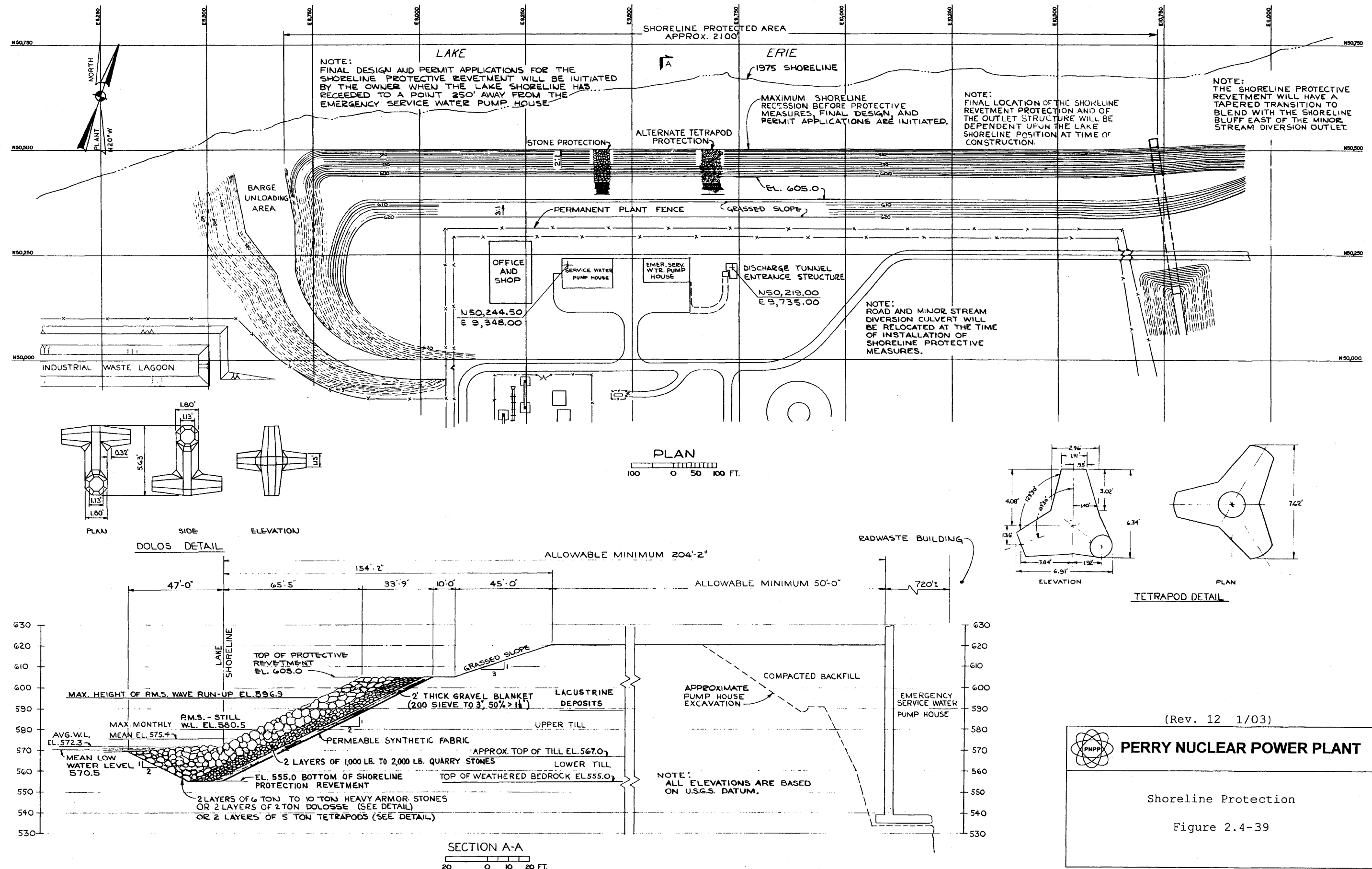
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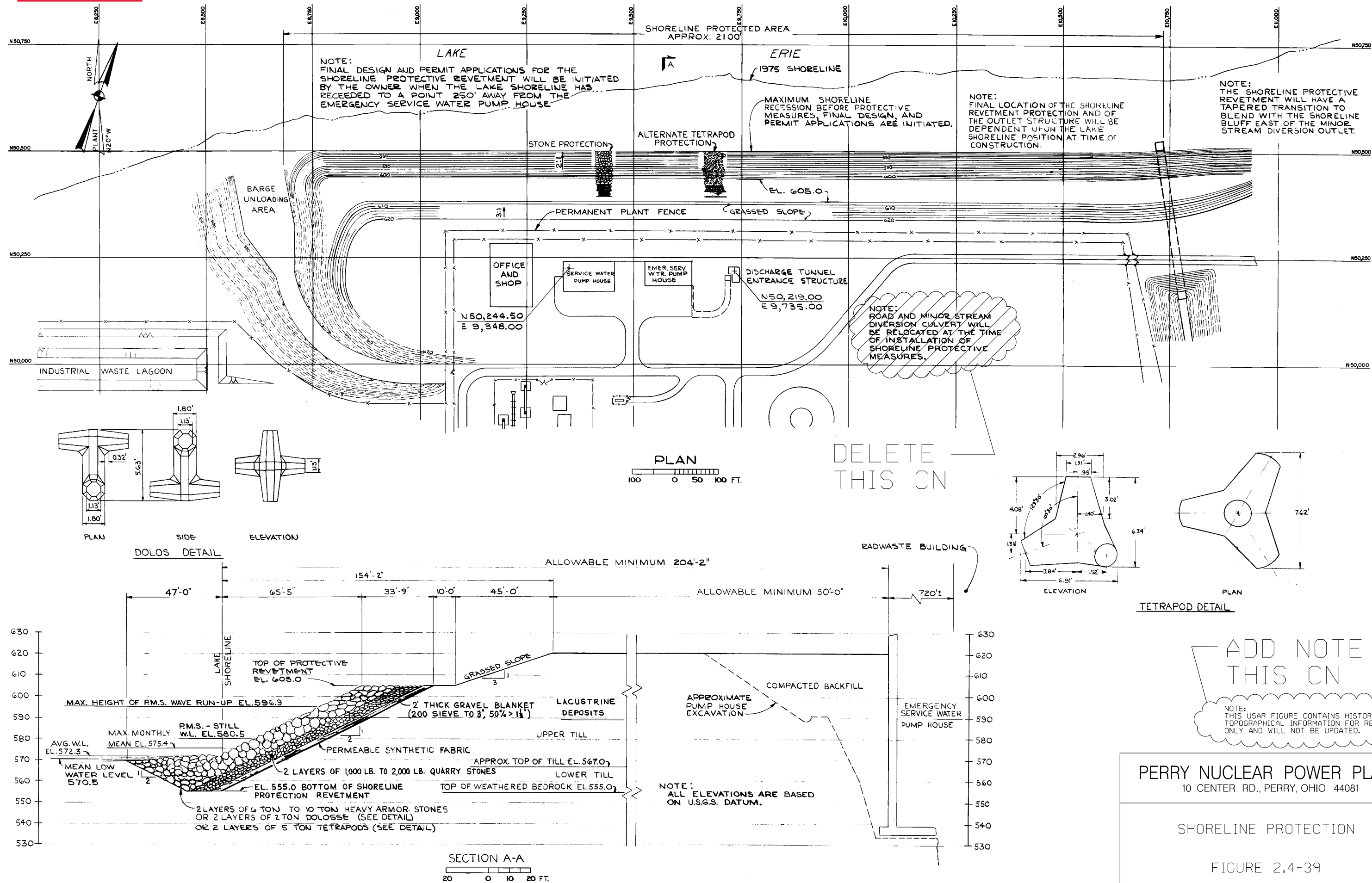
 **PERRY NUCLEAR POWER PLANT**

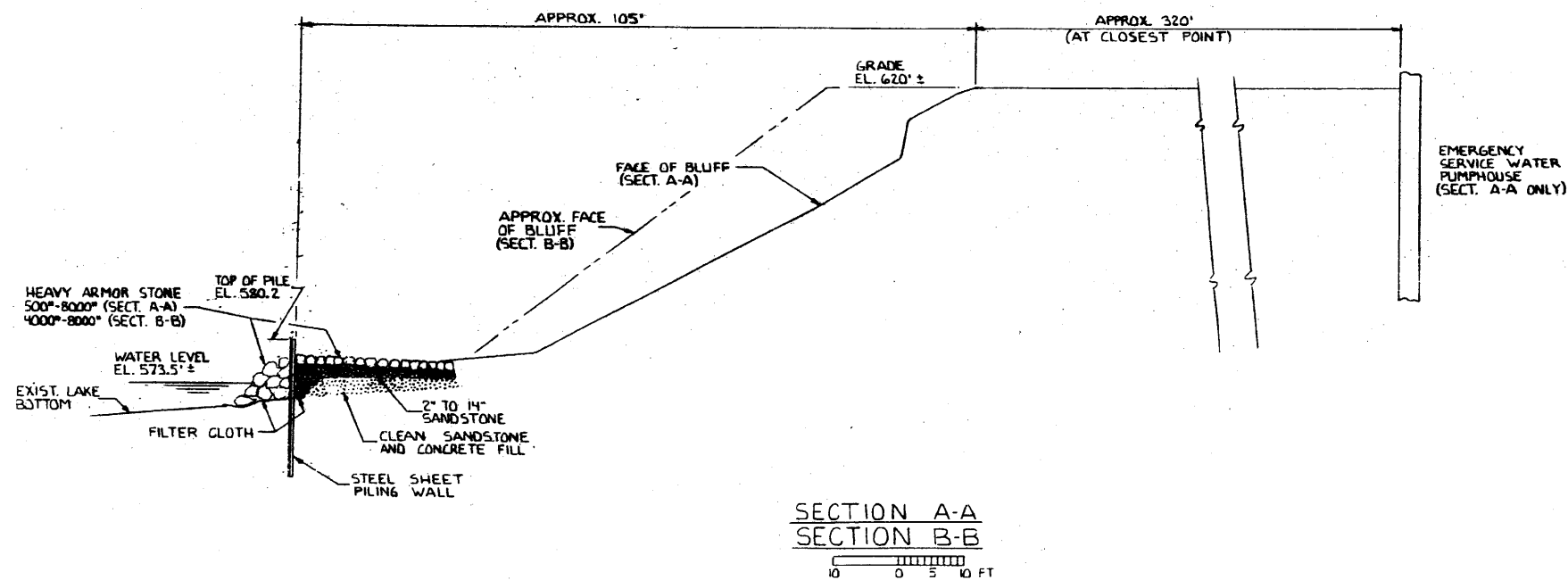
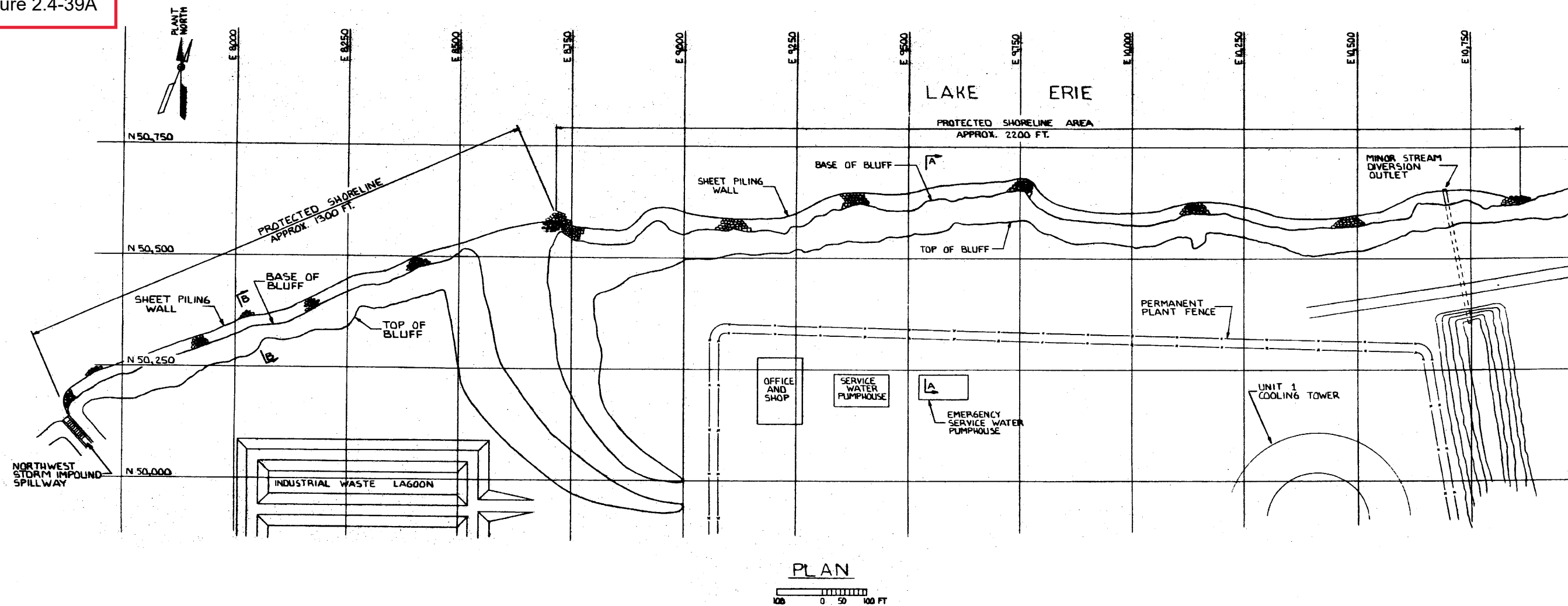
1798, 1829-30, 1852-1858, 1965-67,
1876, 1917, 1975 Shorelines

Figure 2.4-37




Information Only
CN=Change





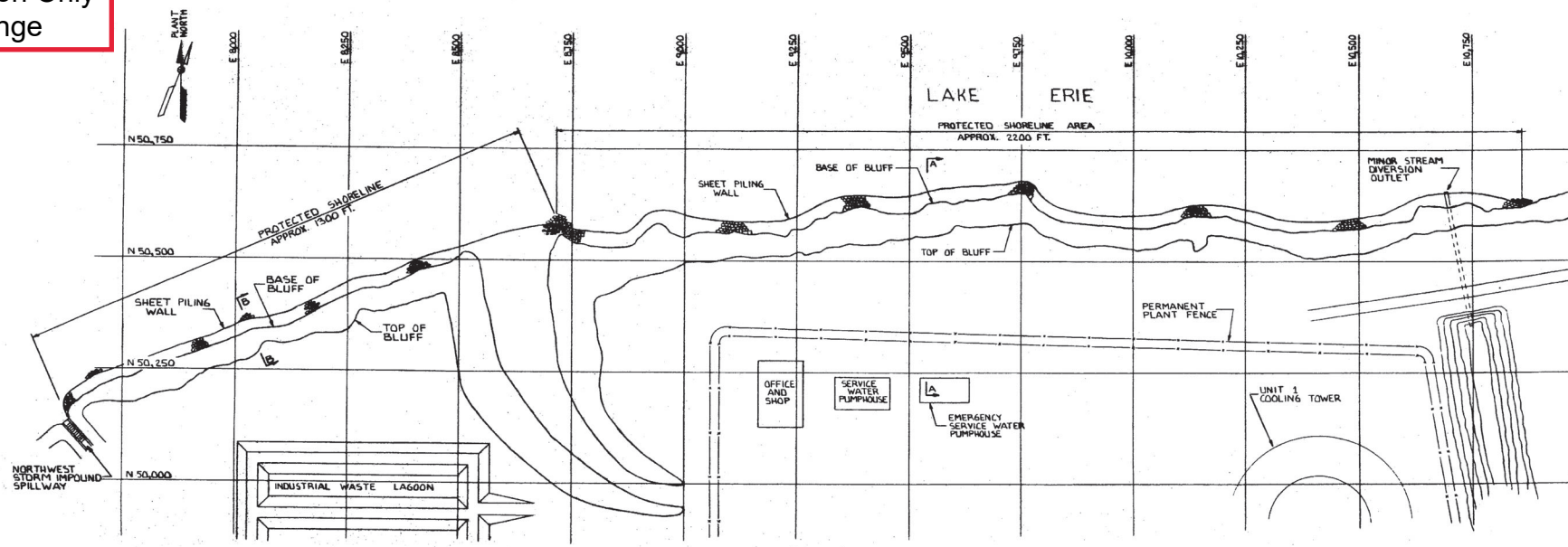
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 **PERRY NUCLEAR POWER PLANT**

Shore Protection Breakwall

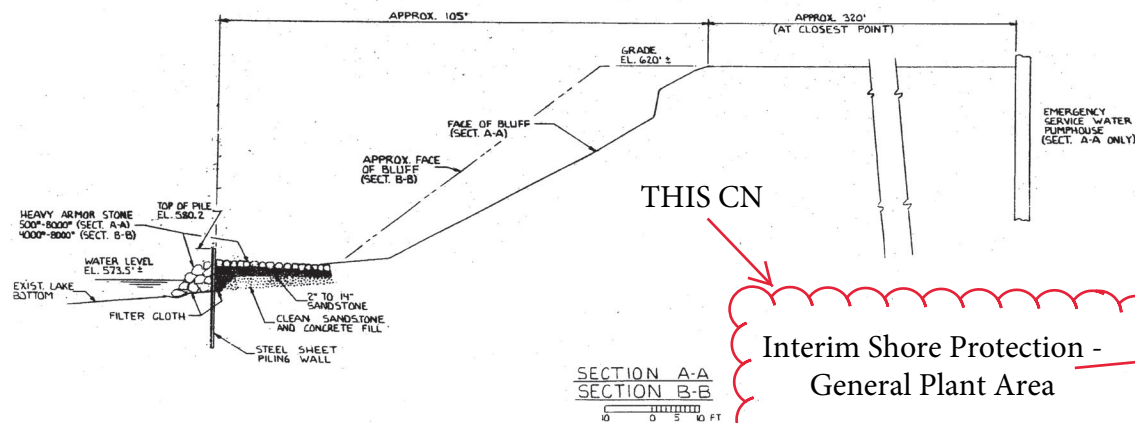
Figure 2.4-39A

Information Only
CN=Change



ADD NOTE
THIS CN

- NOTES:
1. THIS USAR FIGURE CONTAINS HISTORICAL TOPOGRAPHICAL INFORMATION FOR REFERENCE ONLY AND WILL NOT BE UPDATED.
 2. FOR DIVERSION STREAM INTERIM SHORE PROTECTION SEE FIGURE 2.4-39B



Interim Shore Protection -
General Plant Area

(Rev. 12 1/03)

PERRY NUCLEAR POWER PLANT

Shore Protection Breakwall

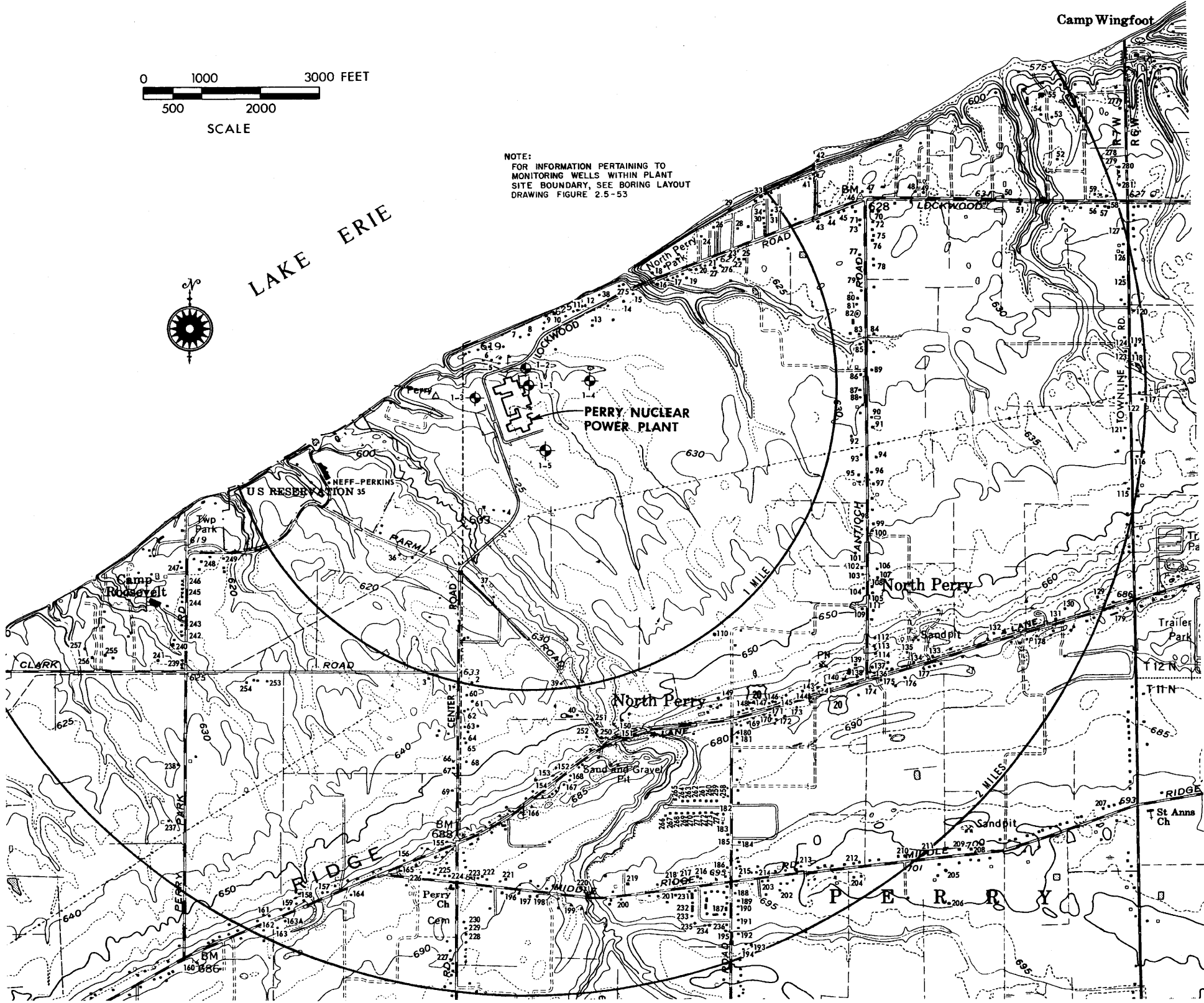
Figure 2.4-39A

Removed in Accordance with RIS 2015–17

PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

INTERIM SHORE PROTECTION -
DIVERSION STREAM OUTFALL

FIGURE 2.4-39B



(Rev. 12 1/03)

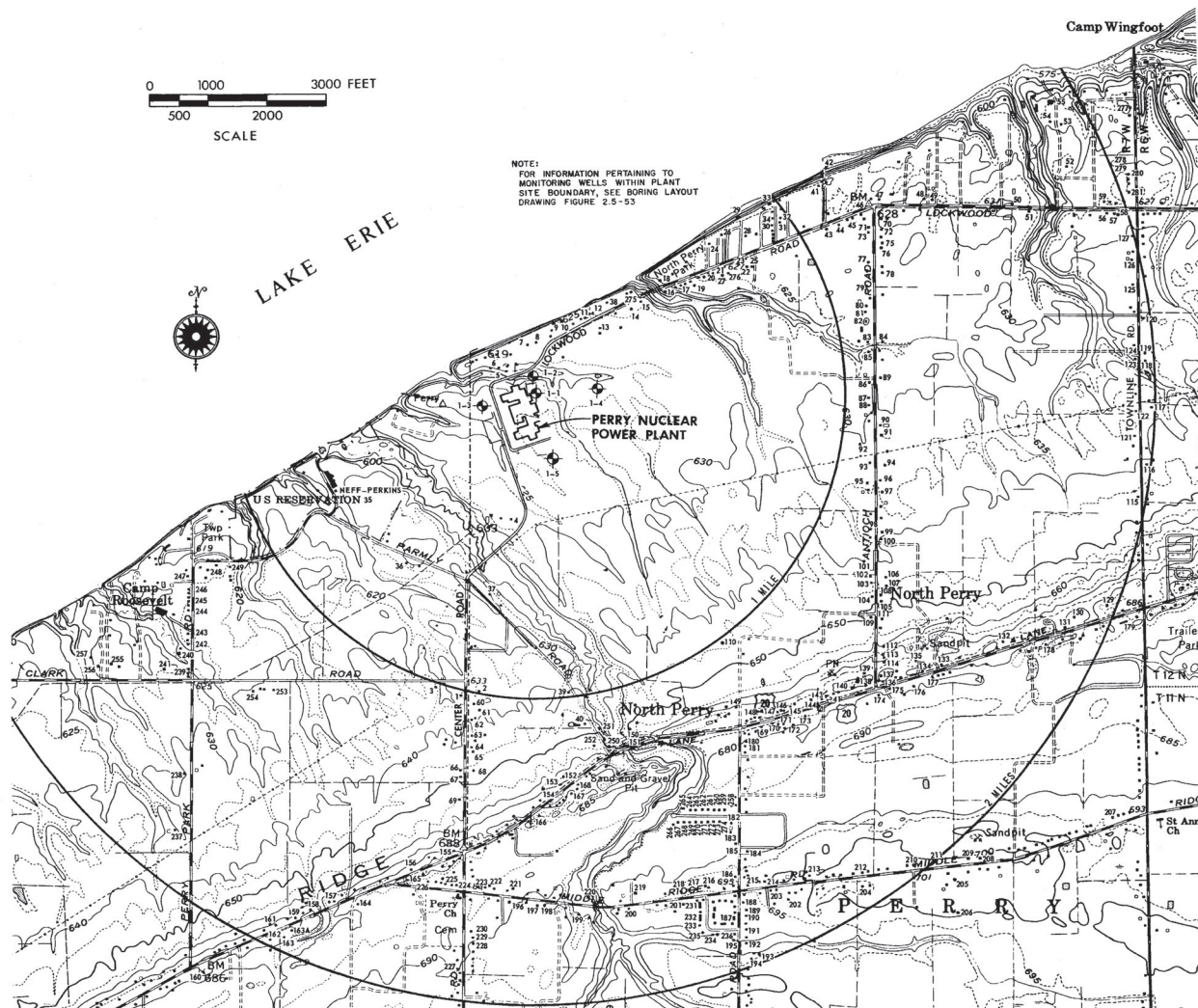


PERRY NUCLEAR POWER PLANT

Well Location Map

Figure 2.4-66


Information Only
CN=Change

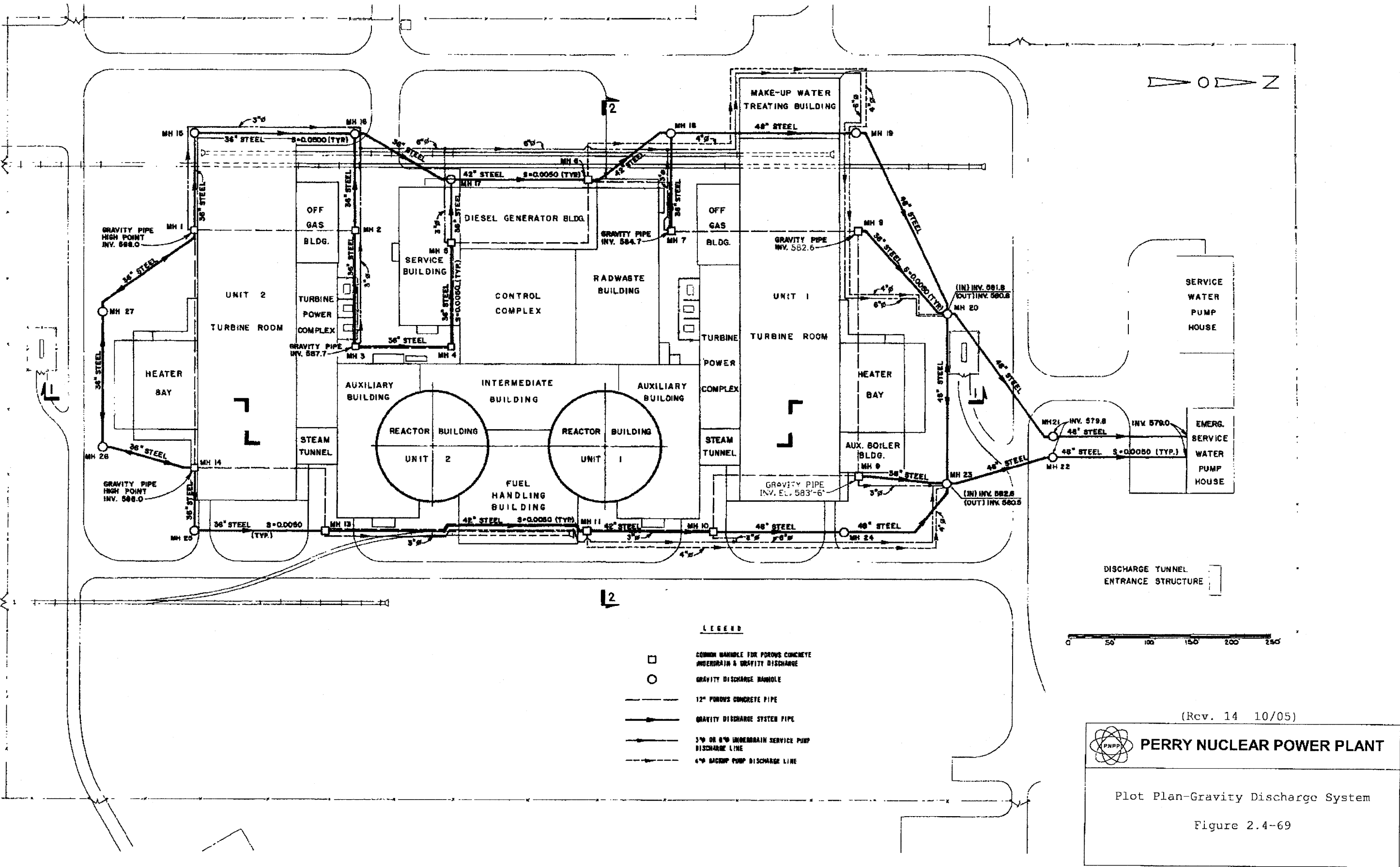


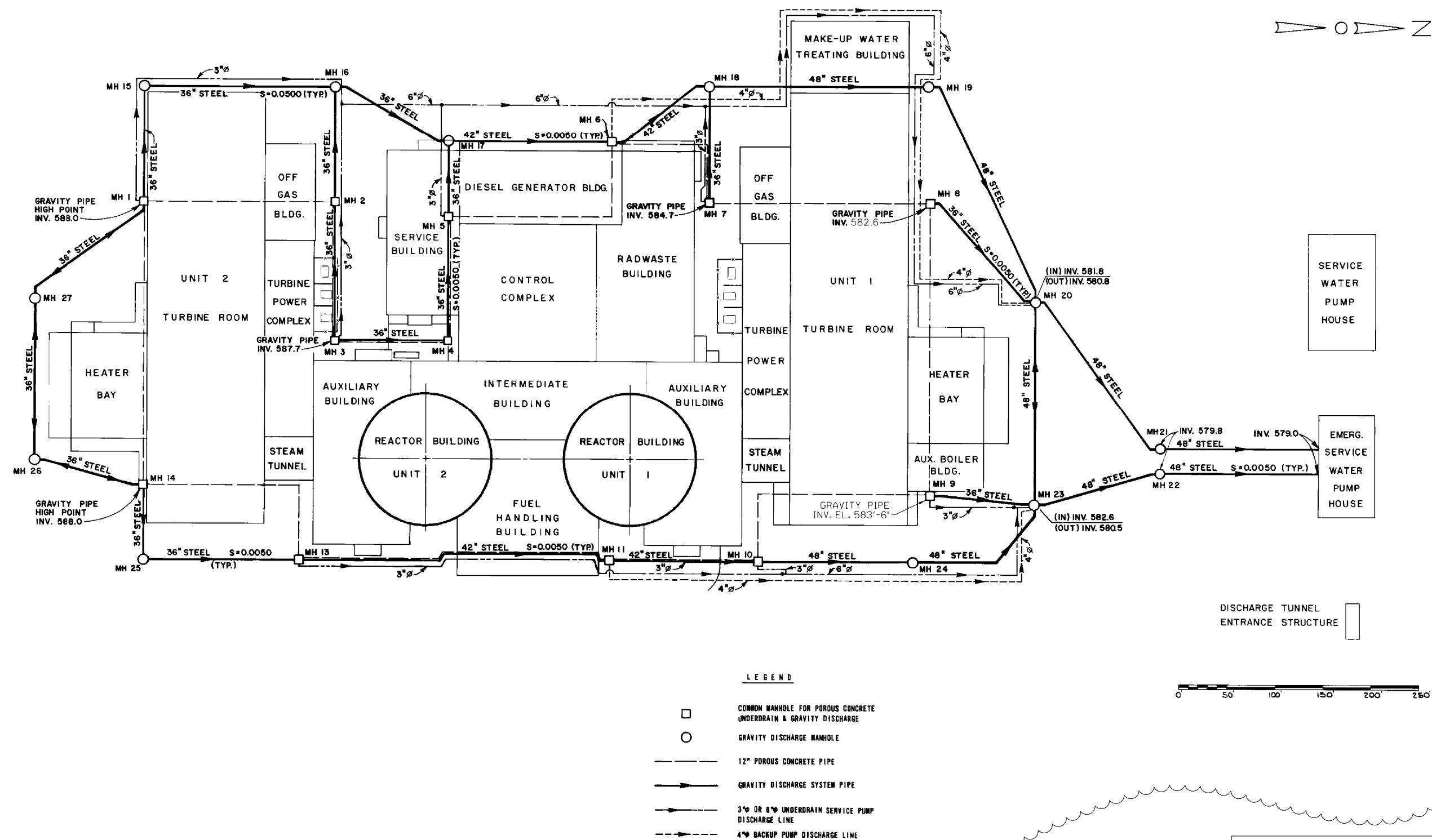
ADD NOTE
THIS CN

NOTE:
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	PERRY NUCLEAR POWER PLANT
Well Location Map	
Figure 2.4-66	





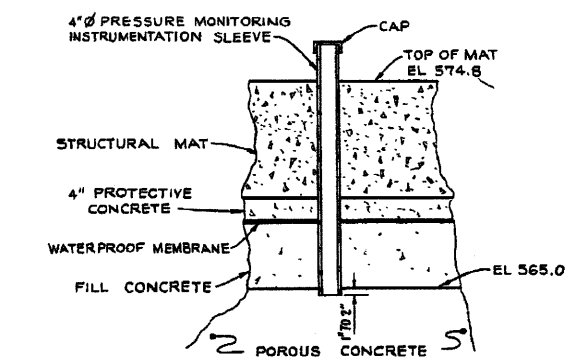
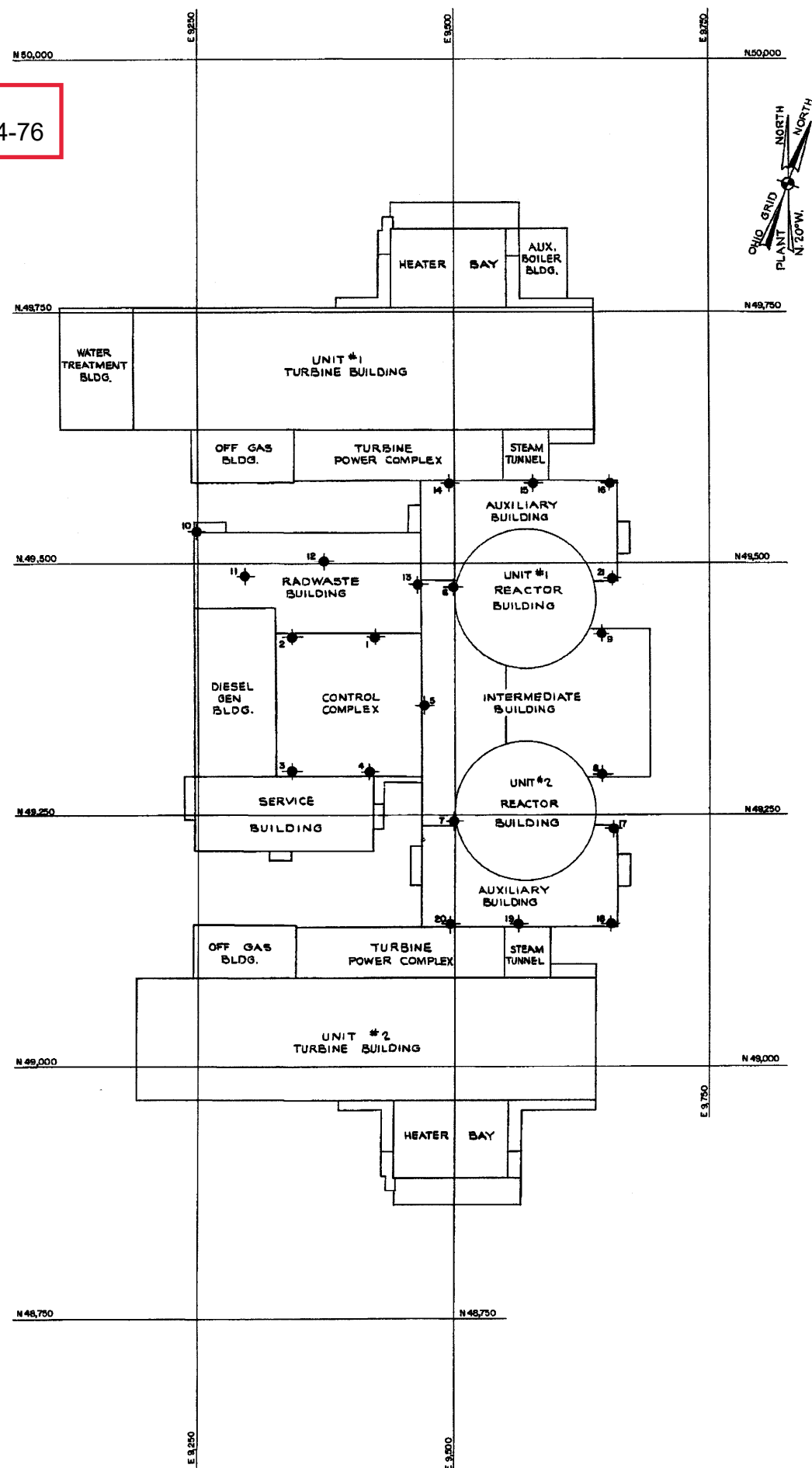
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PERRY NUCLEAR POWER PLANT
10 CENTER RD., PERRY, OHIO 44081

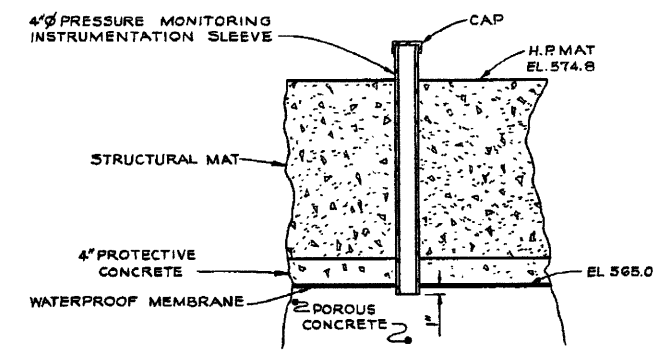
PLOT PLAN-GRAVITY DISCHARGE
SYSTEM

FIGURE 2.4-69

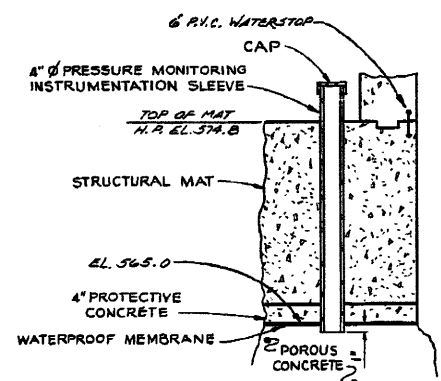
Information Only
Current Figure 2.4-76



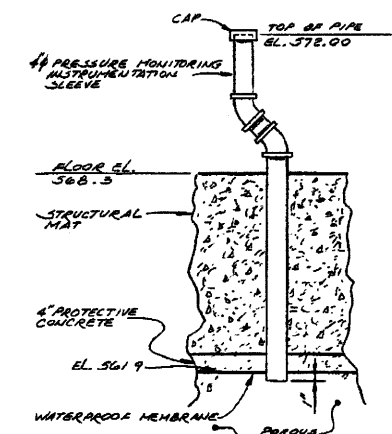
TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVES-1, 2, 3, 4, 11, 12 & 13
NO SCALE



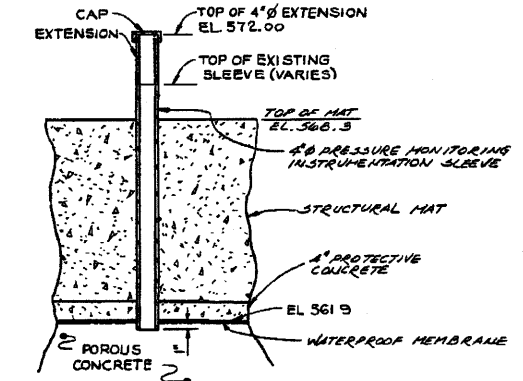
TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVES-5, 8 & 9
NO SCALE



TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVES-6 & 7
NO SCALE



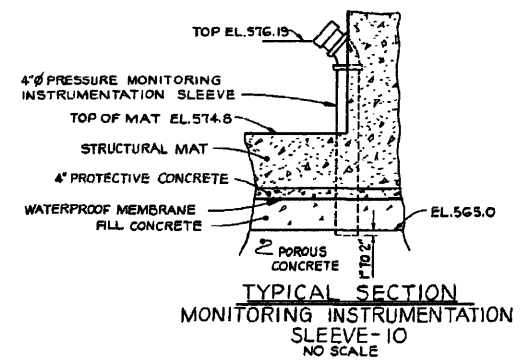
TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVE-15
NO SCALE



TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVES-14, 16, 17, 18, 19, 20 & 21
NO SCALE

PIEZOMETER NUMBER	LENGTH OF SLEEVE	TOP ELEV. OF EXIST. SLEEVE	TOP BASEMENT FLOOR ELEV.	NORTH COORDINATE	EAST COORDINATE	BUILDING
1	11'-0"	575.87	574.8	90427.88	9432.8	CONTROL COMPLEX
2	11'-0"	575.88	574.8	90427.98	9411.5	CONTROL COMPLEX
3	11'-0"	576.91	574.8	90593.06	9411.4	CONTROL COMPLEX
4	11'-0"	576.87	574.8	90592.94	9410.3	CONTROL COMPLEX
5	11'-0"	575.86	574.8	90659.4	9471.0	INTERMEDIATE BUILDING
6	11'-0"	575.86	574.8	90476.7	9469.8	INTERMEDIATE BUILDING
7	11'-0"	575.85	574.8	90269.2	9469.6	INTERMEDIATE BUILDING
8	11'-0"	575.88	574.8	90290.5	9444.4	INTERMEDIATE BUILDING
9	11'-0"	575.90	574.8	90830.5	9444.2	INTERMEDIATE BUILDING
10	11'-0"	576.19 *	574.8	90831.7	9239.5	RADWASTE BUILDING
11	11'-0"	575.80	574.8	90487.3	9236.8	RADWASTE BUILDING
12	11'-0"	575.87	574.8	90602.4	9279.3	RADWASTE BUILDING
13	11'-0"	575.87	574.8	90479.7	9444.8	RADWASTE BUILDING
14	11'-0"	572.02	568.3	90679.4	9405.8	AUXILIARY BLDG. #1
15	11'-0"	571.95	568.3	90679.5	9477.7	AUXILIARY BLDG. #1
16	11'-0"	571.98	568.3	90579.4	9452.9	AUXILIARY BLDG. #1
17	11'-0"	572.02	568.3	90296.0	9466.0	AUXILIARY BLDG. #2
18	11'-0"	572.00	568.3	90141.5	9465.2	AUXILIARY BLDG. #2
19	11'-0"	572.00	568.3	90141.5	9462.2	AUXILIARY BLDG. #2
20	11'-0"	572.13	568.3	90141.5	9465.8	AUXILIARY BLDG. #2
21	11'-0"	572.05	568.3	90465.2	9465.8	AUXILIARY BLDG. #1

- NOTES
- ELEVATION FOR THE TOP OF SLEEVES ARE TO THE TOP OF SLEEVE WITHOUT THE CAP.
 - THE STANDPIPE AT PIEZOMETER NO. 10 WAS CONSTRUCTED INSIDE THE RADWASTE BUILDING WALL AND PENETRATED THE WALL WITH A SLIGHT FLUSH. THE ELEVATION GIVEN IS THE LOWER LIP OF THE SLANTING SLEEVE OPENING.
 - ALL TOP OF SLEEVE ELEVATIONS AND COORDINATE LOCATIONS WERE RECEIVED FROM THE FIELD AS CONSTRUCTED.
 - ABANDONED, RETIRED-IN-PLACE.



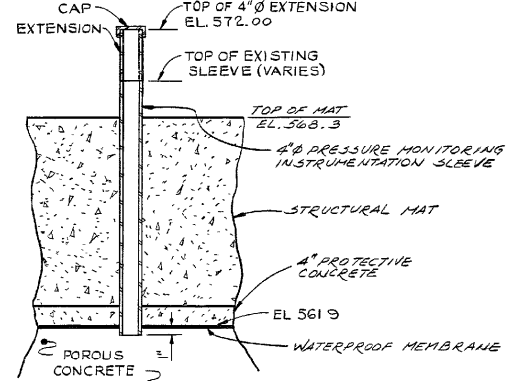
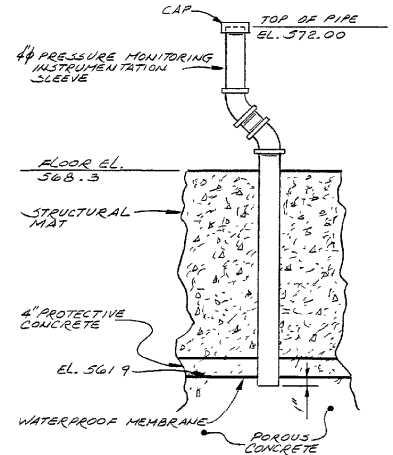
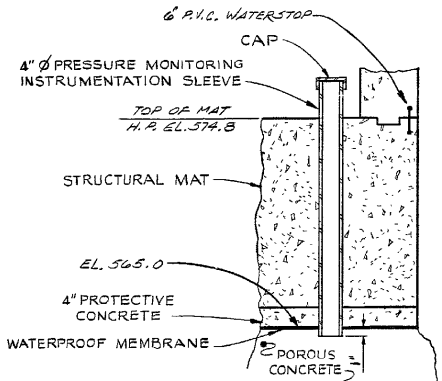
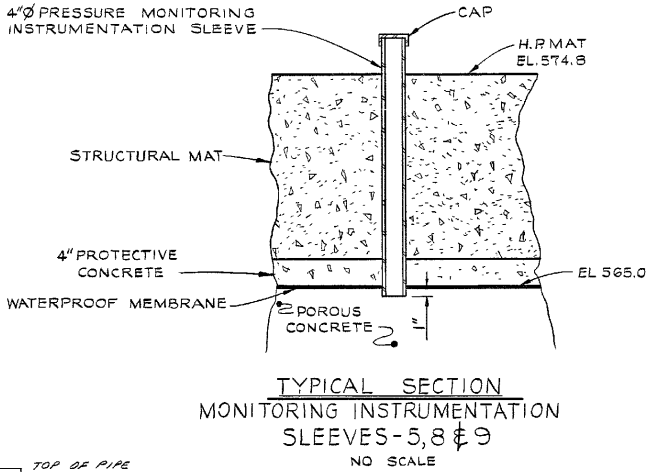
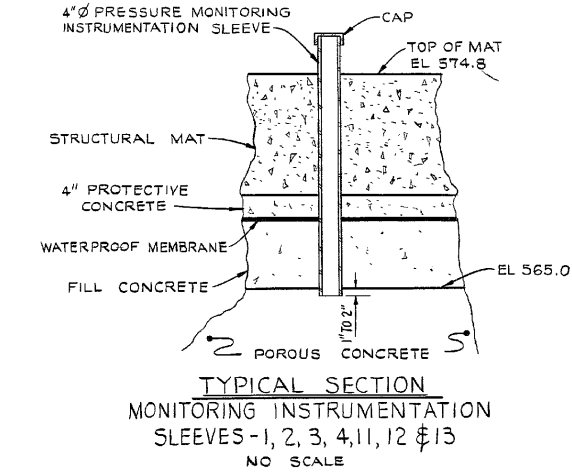
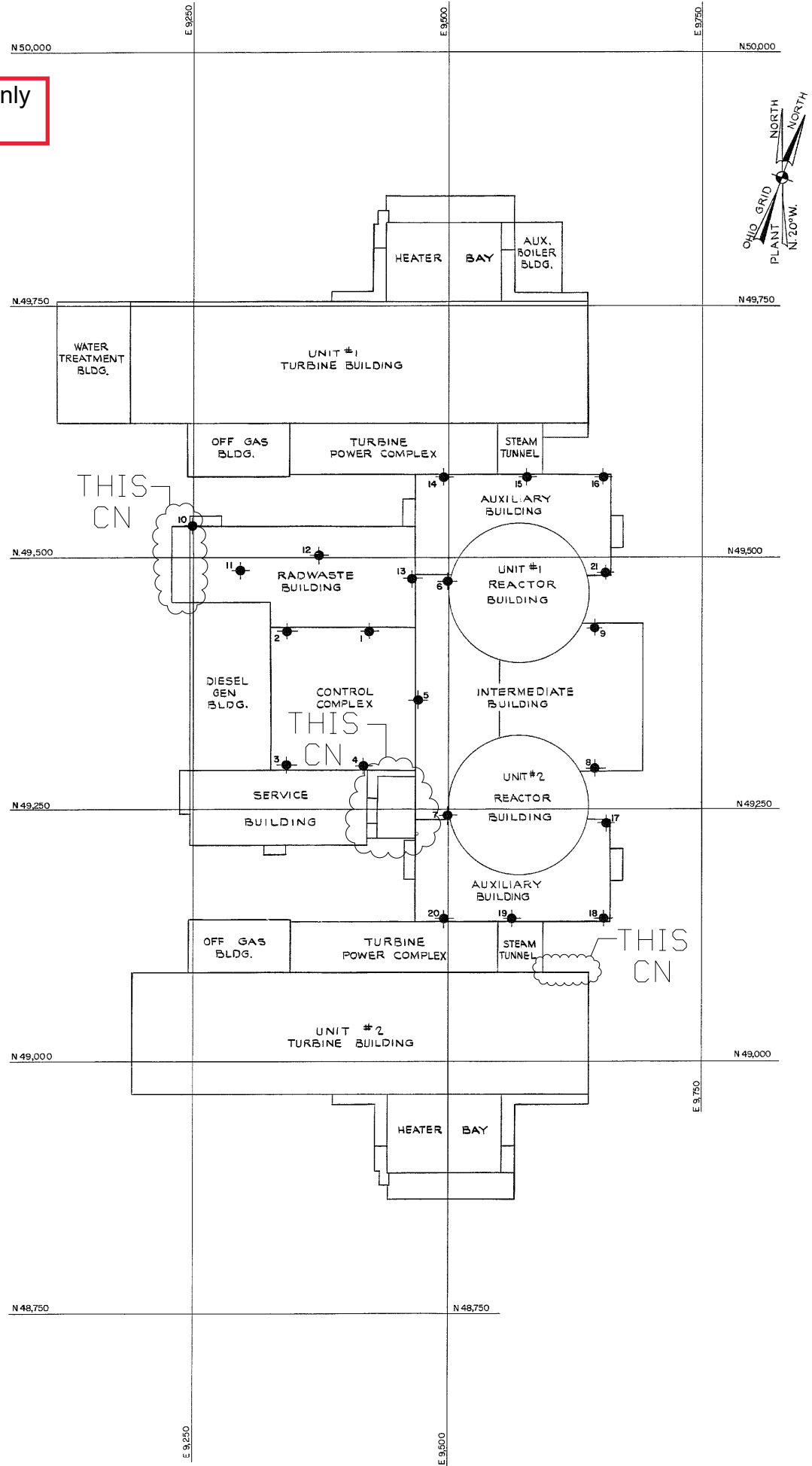
TYPICAL SECTION
MONITORING INSTRUMENTATION
SLEEVE-10
NO SCALE

(REV. 19 10/2015)

PERRY NUCLEAR POWER PLANT
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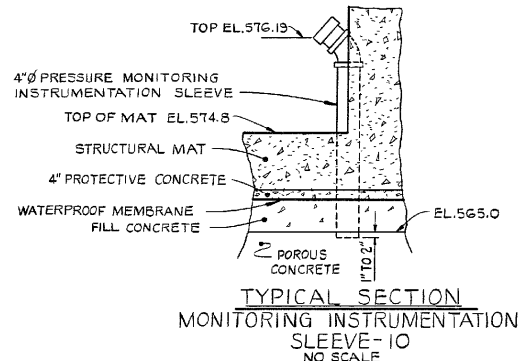
PLANT UNDERDRAIN SYSTEM
NUCLEAR ISLAND PIEZOMETER LOCATIONS
FIGURE 2.4-76
(DWG. D-746-0009-00000)

Information Only
CN=Change



PIEZOMETER NUMBER	LENGTH 4" SLEEVE	TOP ELEV OF EXIST SLEEVE	TOP BASEMENT FLOOR ELEV.	NORTH COORDINATE	EAST COORDINATE	BUILDING
1	11'-0"	575.87	574.8	49427.98	9422.3	CONTROL COMPLEX
2	11'-0"	575.89	574.8	49427.98	9341.5	CONTROL COMPLEX
3	11'-0"	575.91	574.8	49293.06	9341.4	CONTROL COMPLEX
4	11'-0"	575.87	574.8	49292.94	9416.3	CONTROL COMPLEX
5	11'-0"	575.95	574.8	49358.4	9471.0	INTERMEDIATE BUILDING
6	11'-0"	575.96	574.8	49476.7	9499.8	INTERMEDIATE BUILDING
7	11'-0"	575.95	574.8	49243.2	9499.6	INTERMEDIATE BUILDING
8	11'-0"	575.88	574.8	49290.5	9604.4	INTERMEDIATE BUILDING
9	11'-0"	575.90	574.8	49430.5	9604.2	INTERMEDIATE BUILDING
10	11'-0"	576.19 *	574.8	49531.7	9249.5	RADWASTE BUILDING
11	11'-0"	575.80	574.8	49487.3	9296.3	RADWASTE BUILDING
12	11'-0"	575.87	574.8	49502.4	9373.3	RADWASTE BUILDING
13	11'-0"	575.87	574.8	49479.7	9468.3	RADWASTE BUILDING
14	11'-0"	572.02	568.3	49579.6	9495.8	AUXILIARY BLDG. #1
15	11'-0"	571.95	568.3	49579.5	9577.7	AUXILIARY BLDG. #1
16	11'-0"	571.98	568.3	49579.4	9552.9	AUXILIARY BLDG. #1
** 17	11'-0"	572.02	568.3	49236.0	9655.0	AUXILIARY BLDG. #2
** 18	11'-0"	572.00	568.3	49141.5	9653.2	AUXILIARY BLDG. #2
** 19	11'-0"	572.00	568.3	49141.5	9652.2	AUXILIARY BLDG. #2
** 20	11'-0"	572.13	568.3	49141.5	9495.8	AUXILIARY BLDG. #2
21	11'-0"	572.05	568.3	49485.2	9655.8	AUXILIARY BLDG. #1

- NOTES
- ELEVATION FOR THE TOP OF SLEEVES ARE TO THE TOP OF SLEEVE WITHOUT THE CAP.
 - THE STRAPPIRE AT PIEZOMETER NO 10 WAS CONSTRUCTED INSIDE THE RADWASTE BUILDING WALL AND PENETRATES THE WALL WITH A SLIGHT ELBOW. THE ELEVATION GIVEN IS THE LOWER LIP OF THE SLANTING SLEEVE OPENING. THE ELEVATION GIVEN IS THE LOWER LIP OF THE SLANTING SLEEVE OPENING.
 - ALL TOP OF SLEEVE ELEVATIONS AND COORDINATE LOCATIONS WERE RECEIVED FROM THE FIELD AS CONSTRUCTED.
 - ** 4. ABANDONED, RETIRED-IN-PLACE.



PERRY NUCLEAR POWER PLANT
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PLANT UNDERDRAIN SYSTEM
NUCLEAR ISLAND PIEZOMETER LOCATIONS
FIGURE 2.4-76
(DWG. D-746-0009-00000)

Removed in Accordance with RIS 2015–17

Removed in Accordance with RIS 2015–17

Removed in Accordance with RIS 2015–17

Removed in Accordance with RIS 2015–17

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EXTERIOR FLOOD PROTECTION -
DOOR BARRIERS - MULTISPAN
TYPICAL DETAILS
FIGURE 2.4-80

Removed in Accordance with RIS 2015–17



NEW FIGURE

- NOTES:
1. THIS FIGURE OBTAINED FROM PNPP CALCULATION 50:64.000
 2. MAJOR STREAM PMF FOR REFERENCE ONLY (SEE FIGURE 2.4-4A)

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LOCAL INTENSE PRECIPITATION
COMPUTATIONAL DOMAIN

FIGURE 2.4-82