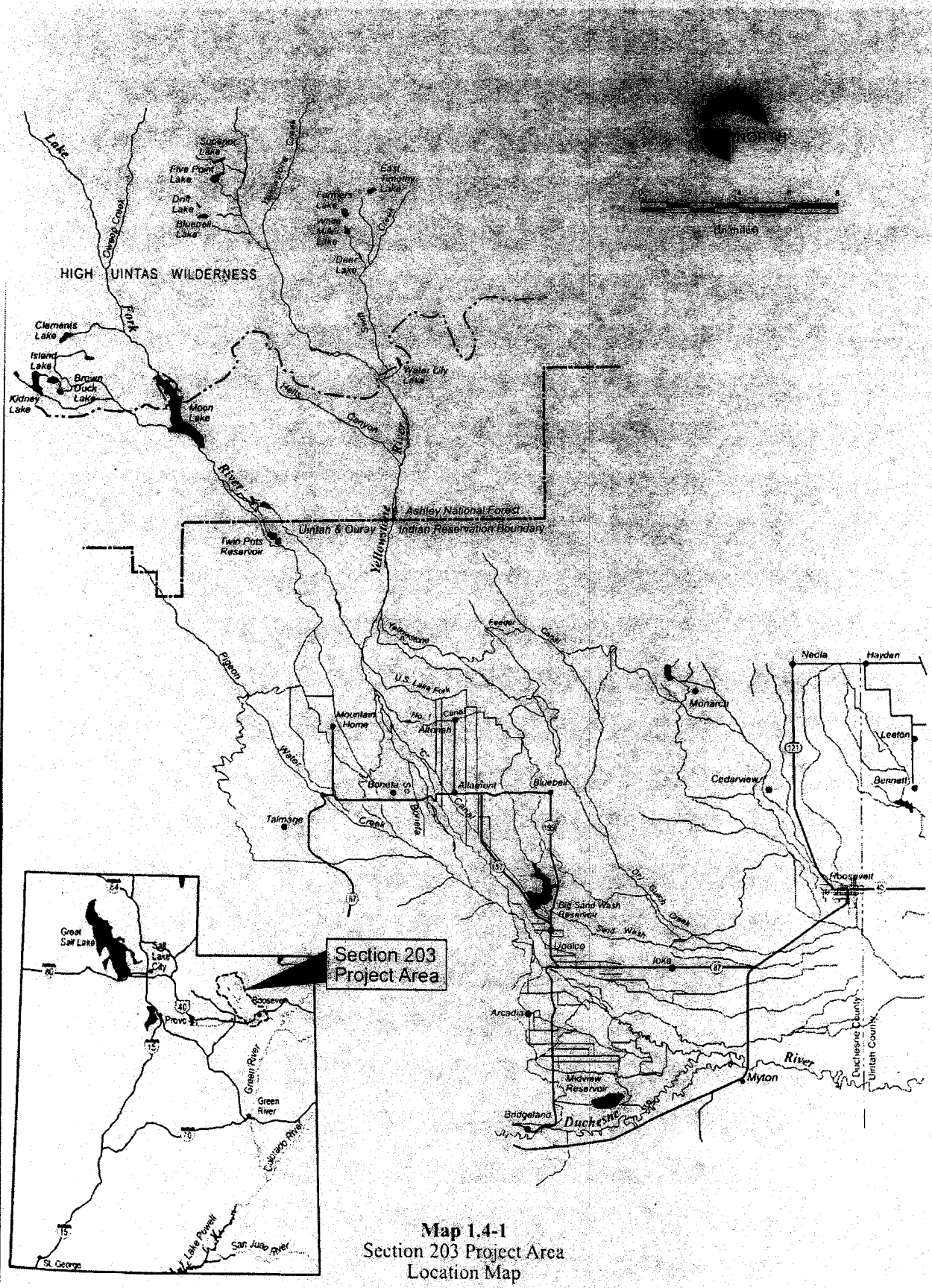

Map 1.4-1
Section 203 Project Area
Location Map

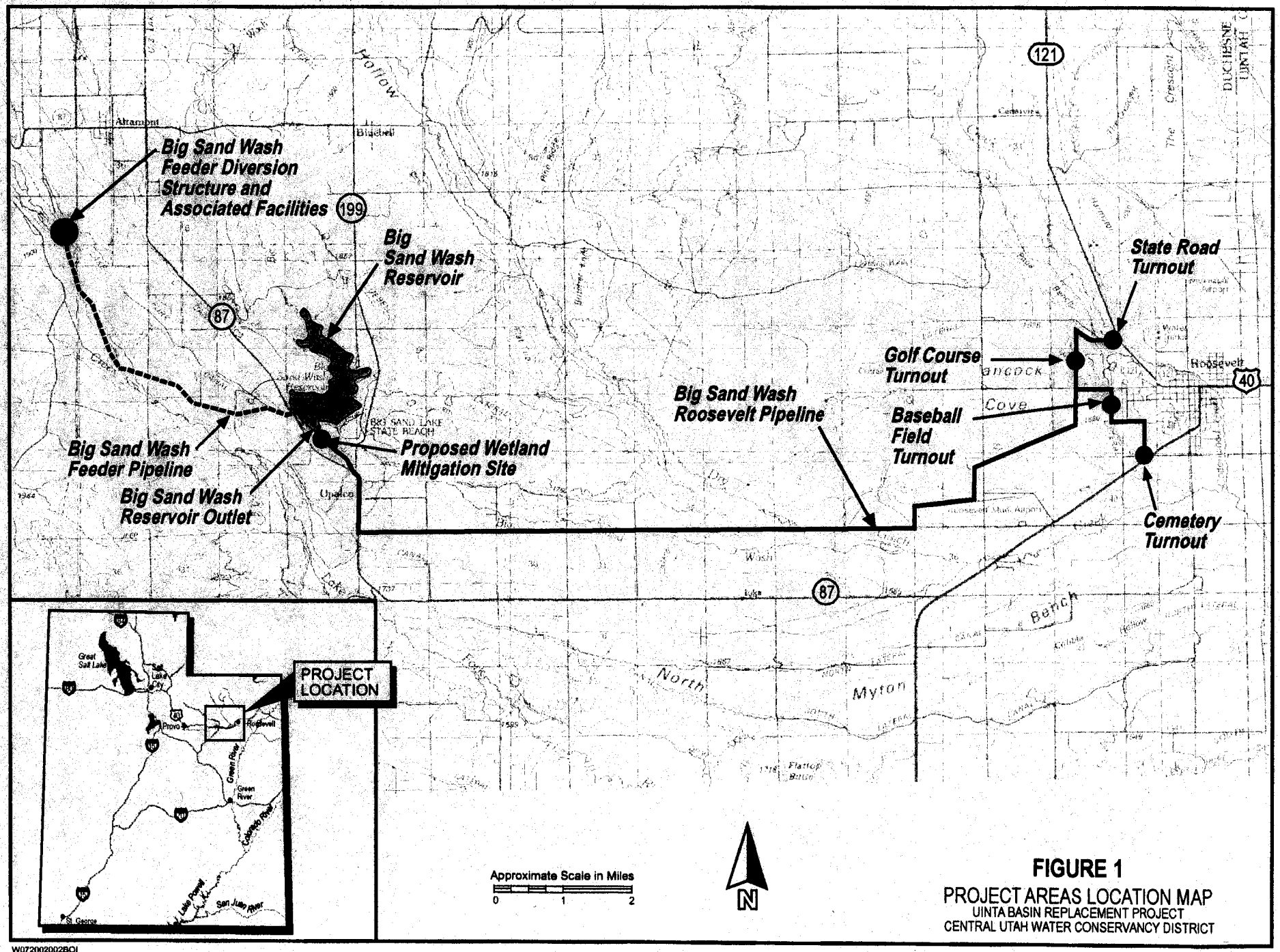

FIGURE 1

PROJECT AREAS LOCATION MAP

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

W072002002BOI

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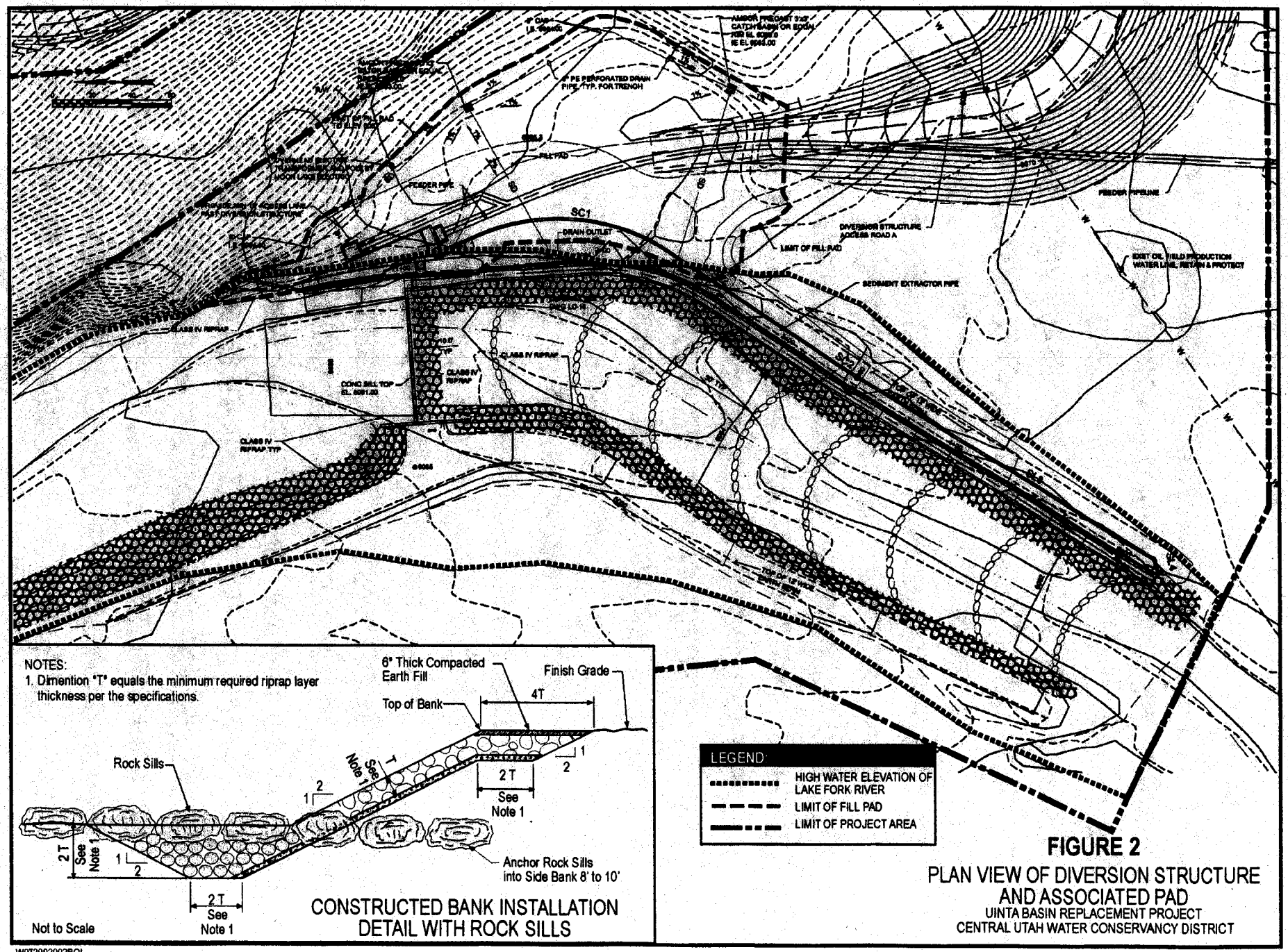

FIGURE 2

PLAN VIEW OF DIVERSION STRUCTURE AND ASSOCIATED PAD

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

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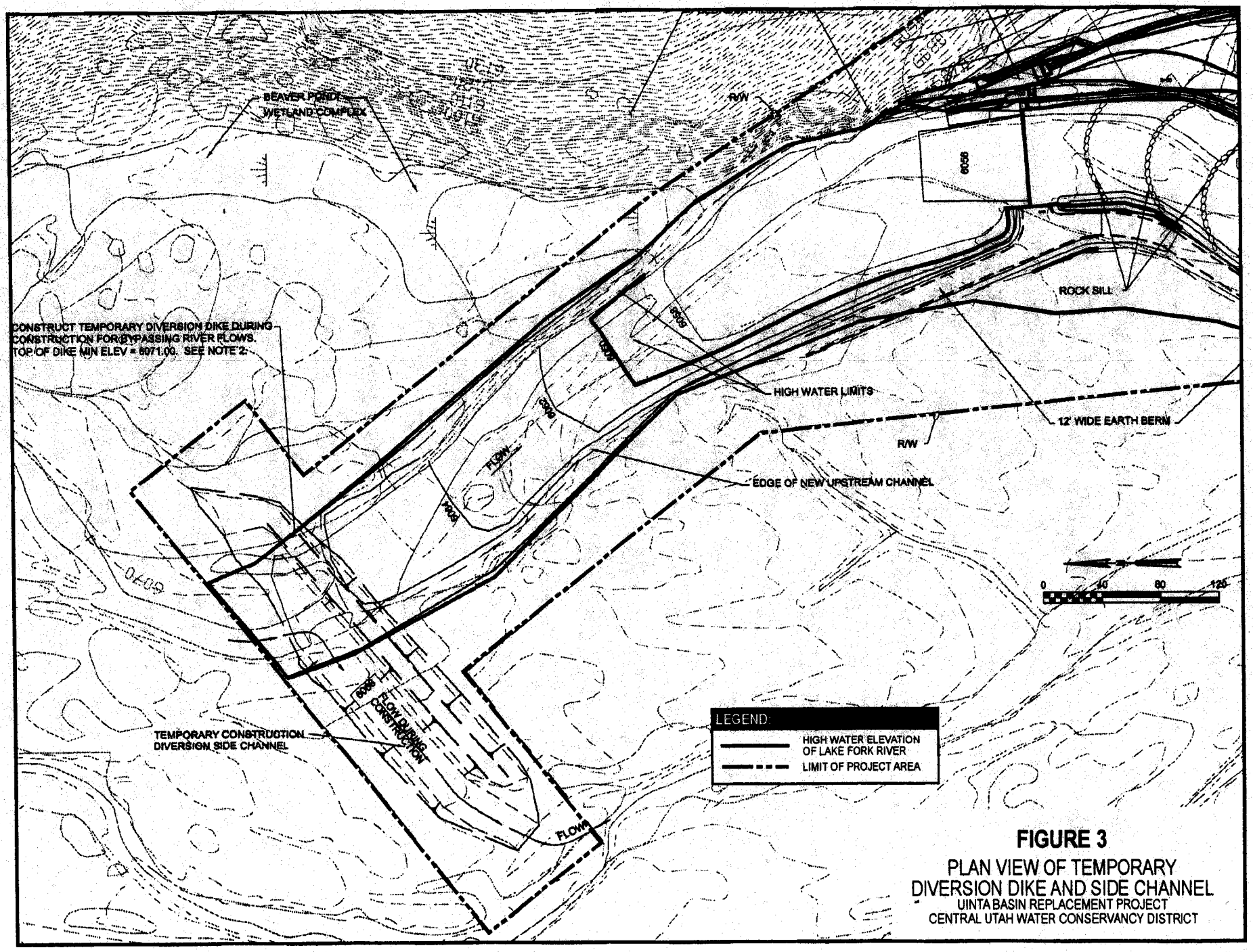

FIGURE 3

PLAN VIEW OF TEMPORARY DIVERSION DIKE AND SIDE CHANNEL

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

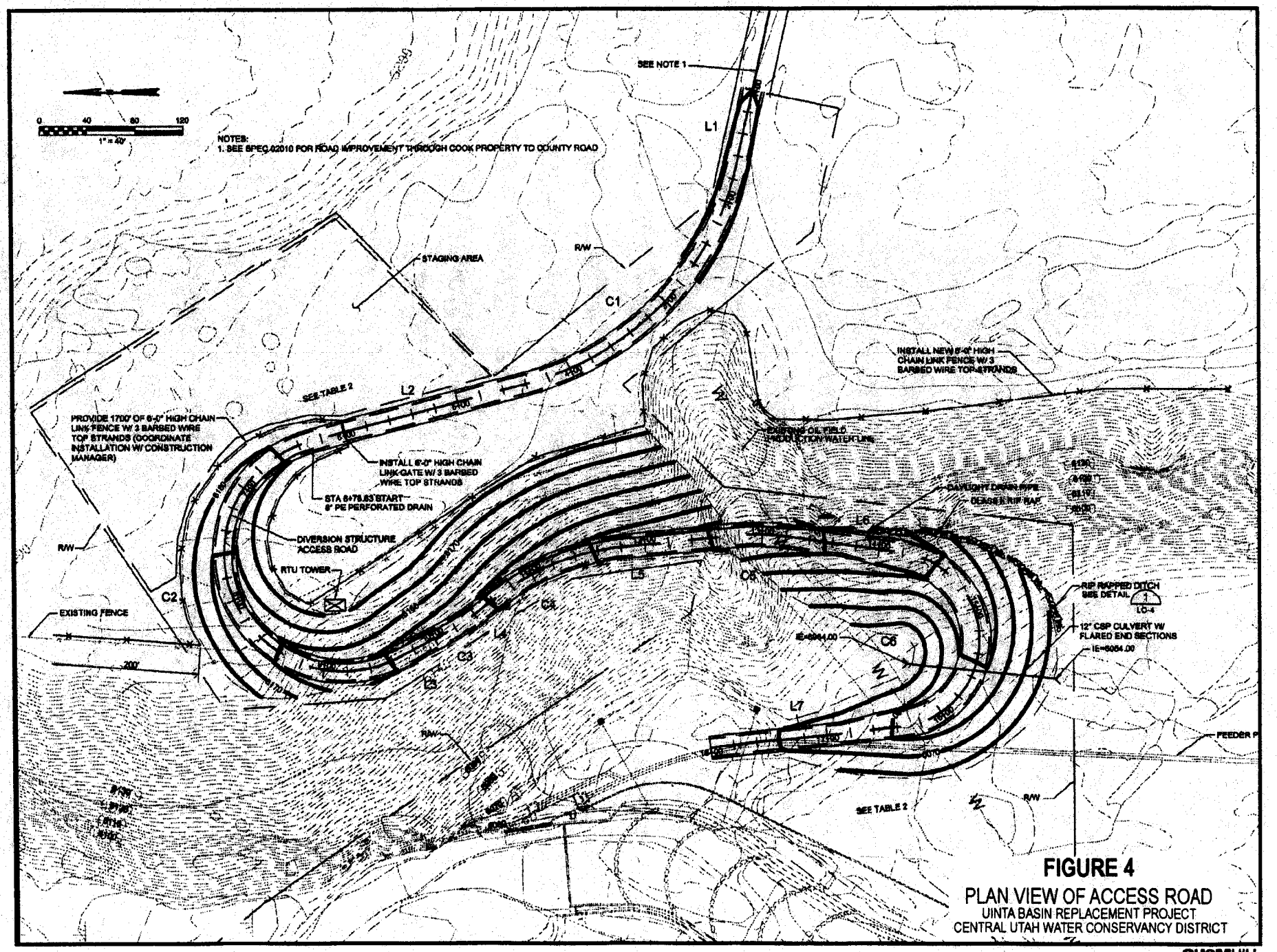

FIGURE 4

PLAN VIEW OF ACCESS ROAD

UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

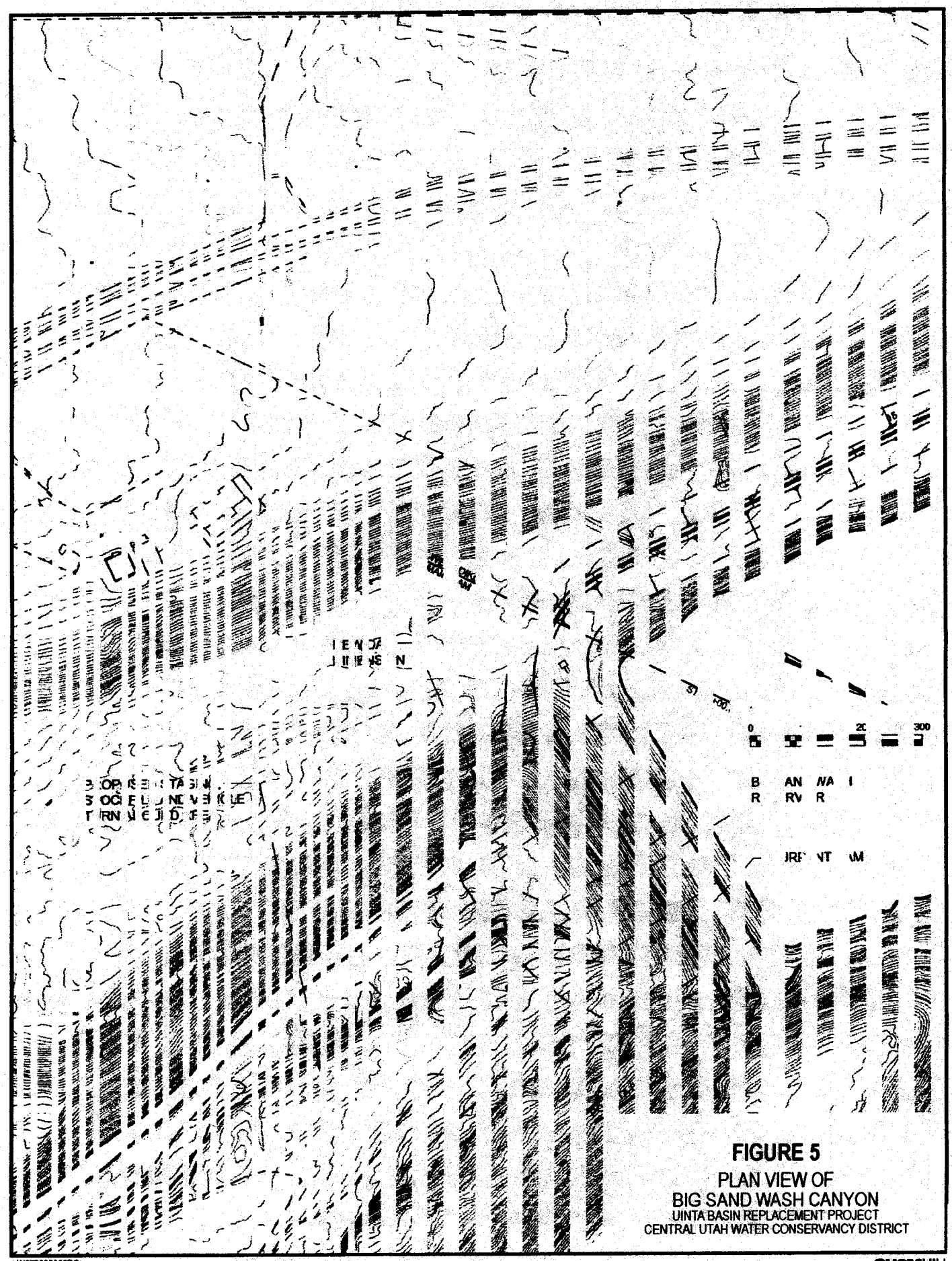

FIGURE 5

PLAN VIEW OF
BIG SAND WASH CANYON
UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

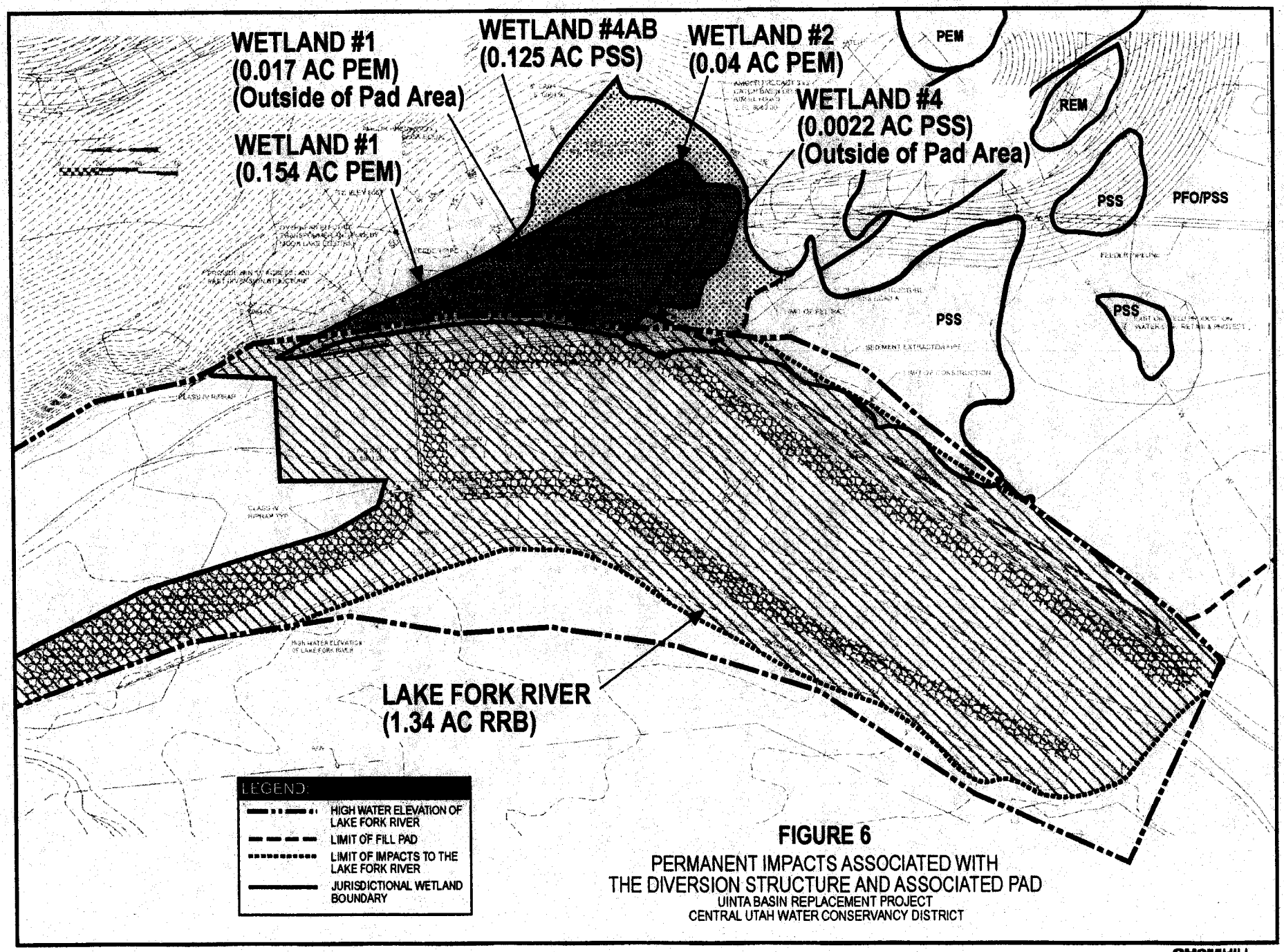

FIGURE 6

PERMANENT IMPACTS ASSOCIATED WITH
THE DIVERSION STRUCTURE AND ASSOCIATED PAD
UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

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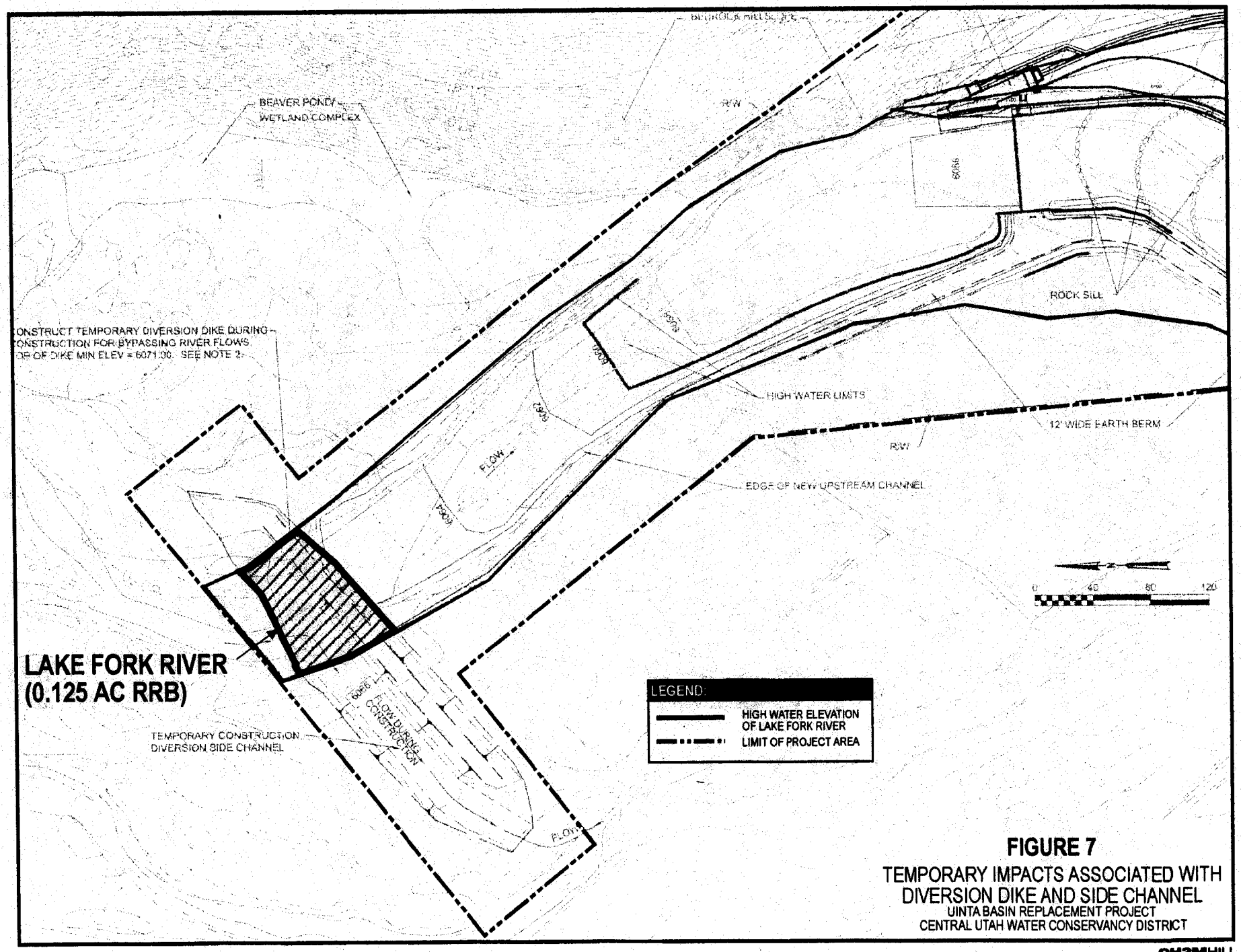

FIGURE 7

TEMPORARY IMPACTS ASSOCIATED WITH DIVERSION DIKE AND SIDE CHANNEL

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

CH2MHILL

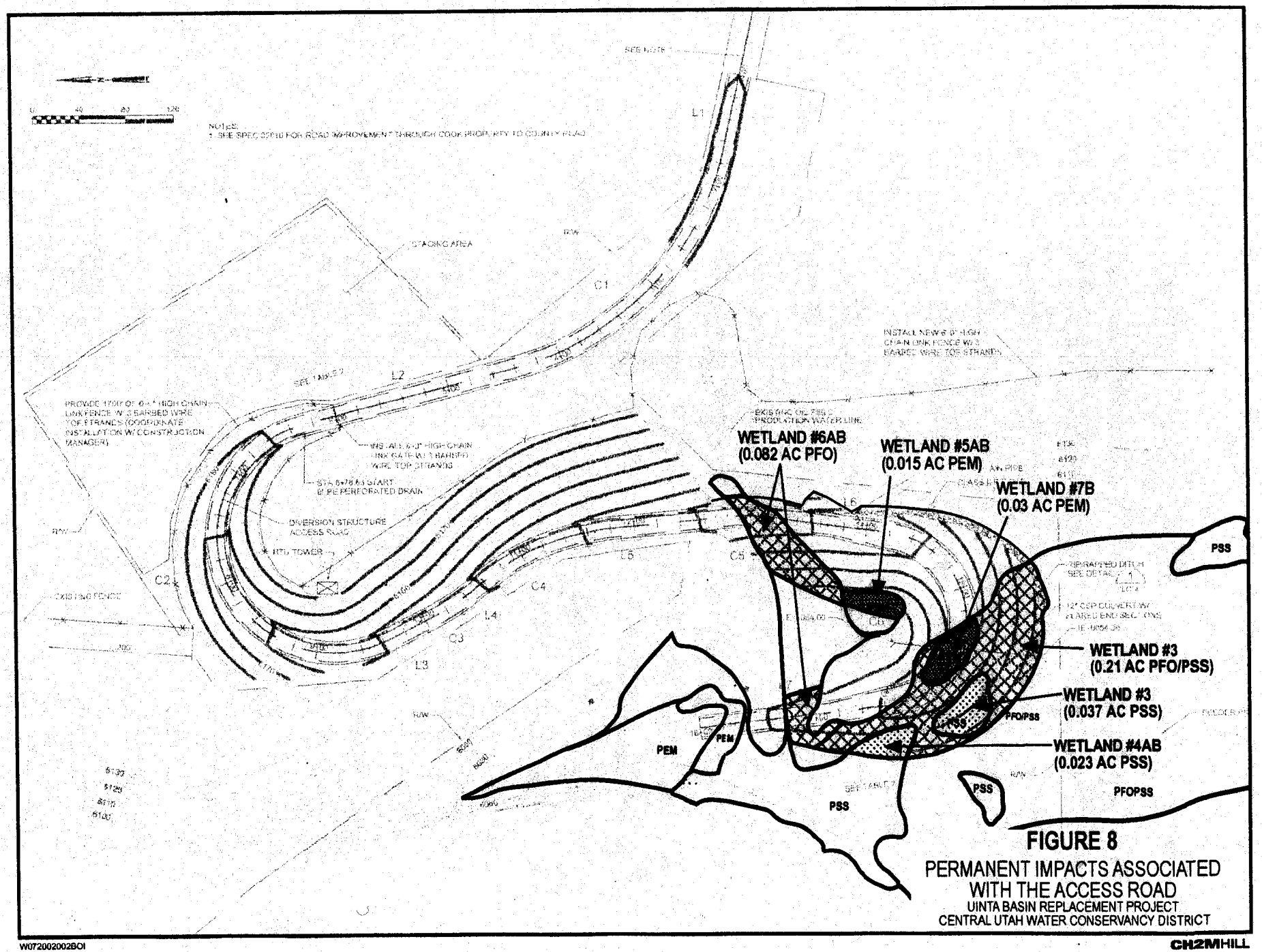

FIGURE 8

PERMANENT IMPACTS ASSOCIATED WITH THE ACCESS ROAD

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

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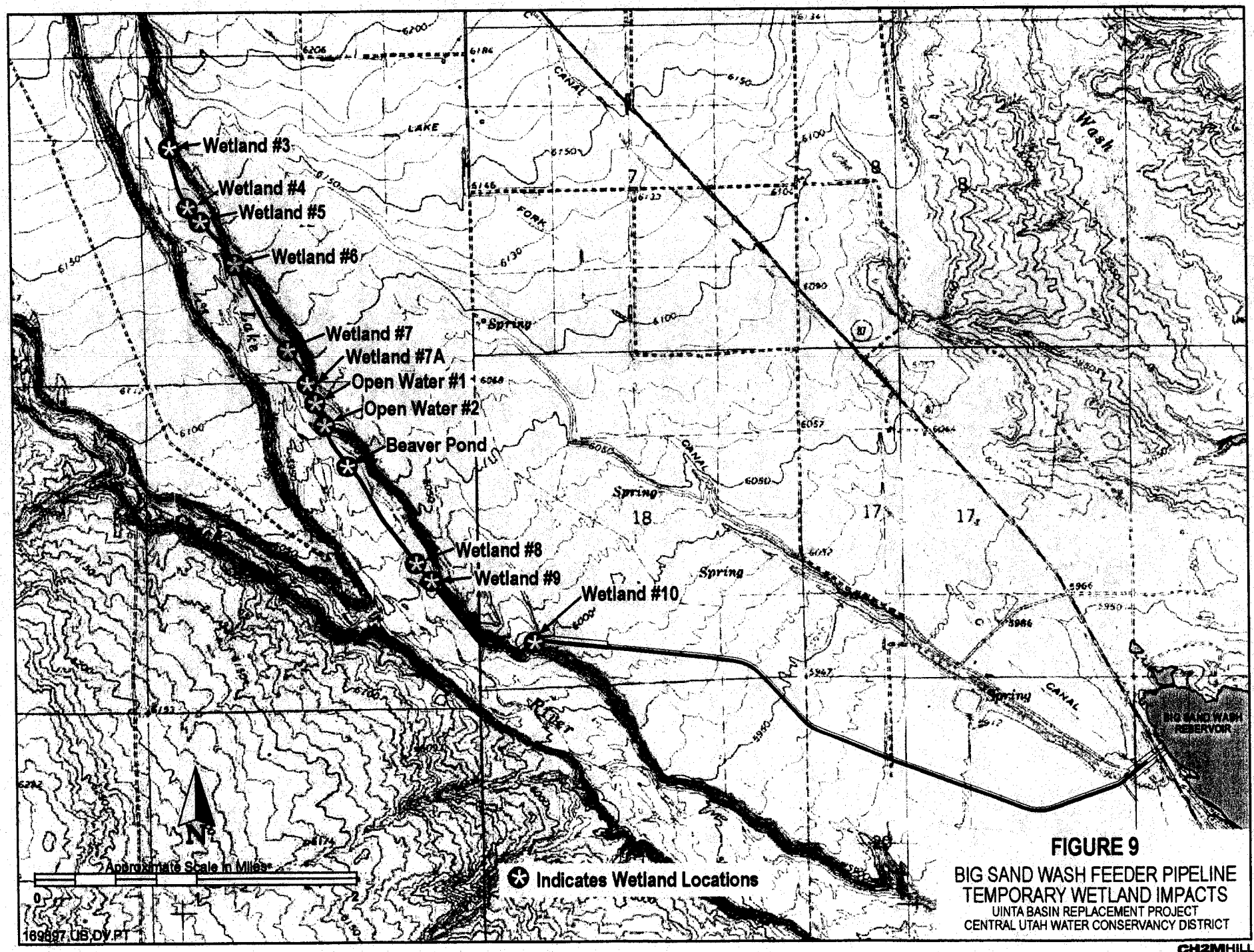

FIGURE 9

BIG SAND WASH FEEDER PIPELINE
TEMPORARY WETLAND IMPACTS
UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

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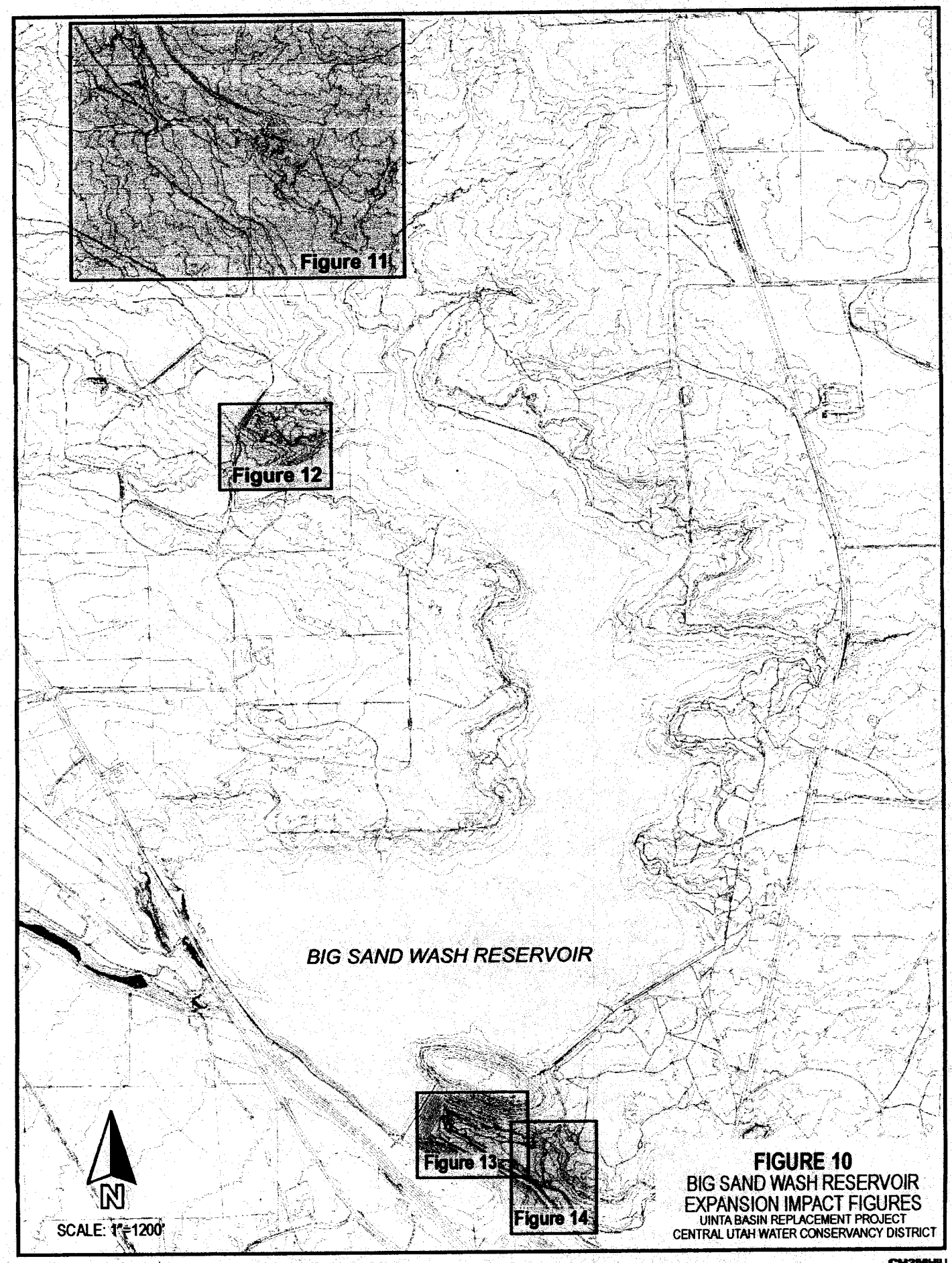
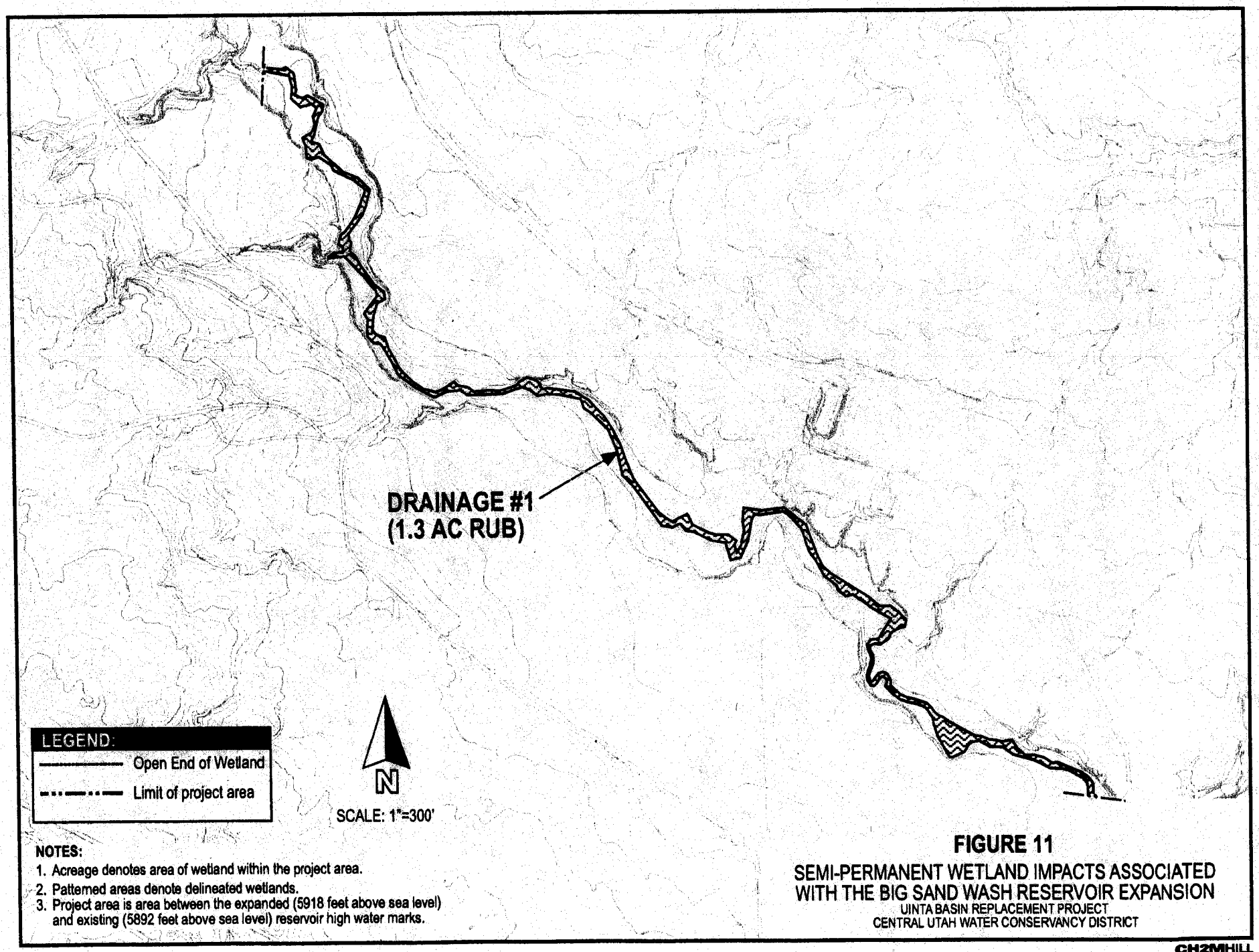


FIGURE 10
BIG SAND WASH RESERVOIR
EXPANSION IMPACT FIGURES
UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT



NOTES:

1. Acreage denotes area of wetland within the project area.
2. Patterned areas denote delineated wetlands.
3. Project area is area between the expanded (5918 feet above sea level) and existing (5892 feet above sea level) reservoir high water marks.

FIGURE 11

SEMI-PERMANENT WETLAND IMPACTS ASSOCIATED WITH THE BIG SAND WASH RESERVOIR EXPANSION

UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

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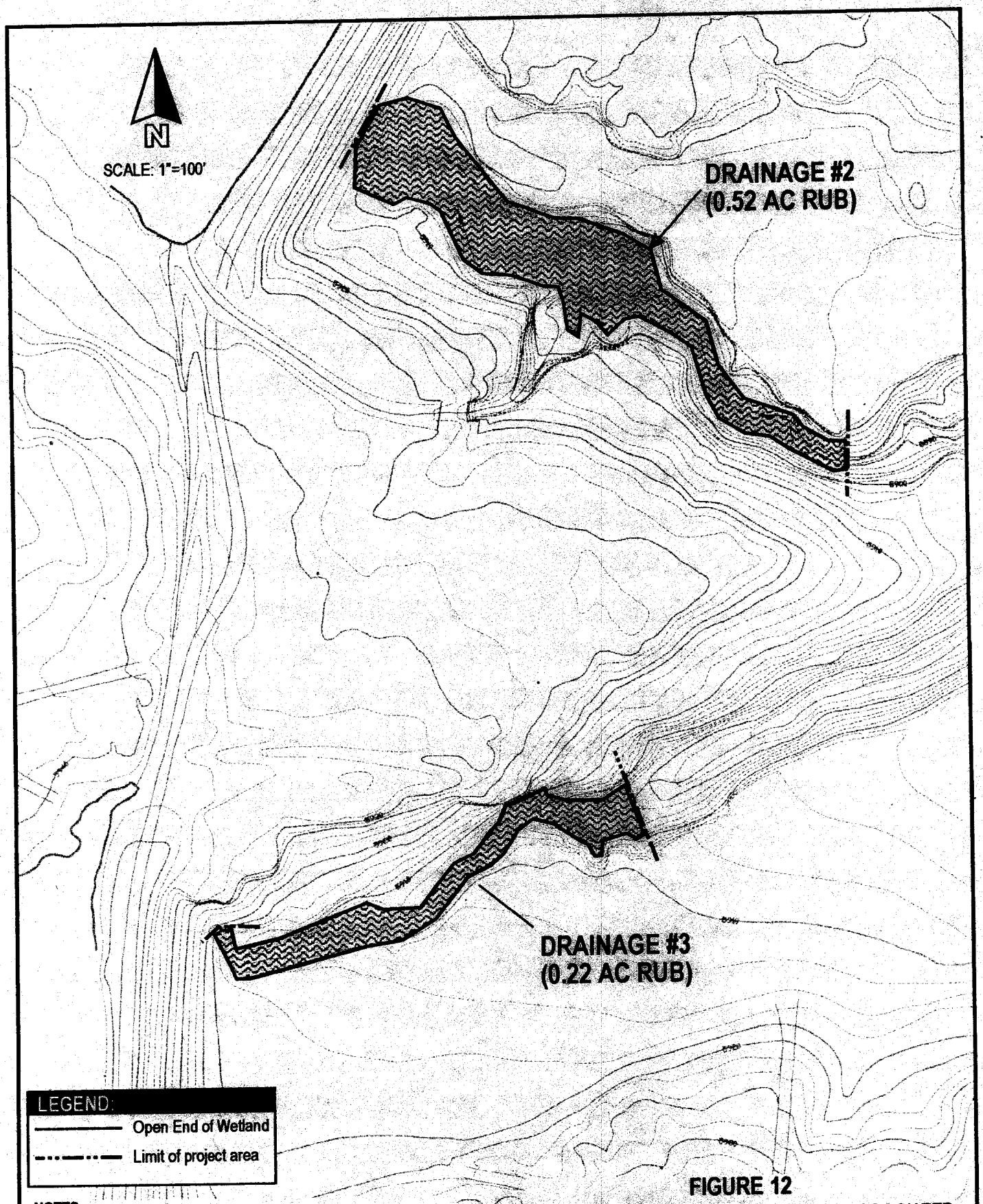

NOTES:

1. Acreage denotes area of wetland within the project area.
2. Patterned areas denote delineated wetlands.
3. Project area is area between the expanded (5918 feet above sea level) and existing (5892 feet above sea level) reservoir high water marks.

FIGURE 12

SEMI-PERMANENT WETLAND IMPACTS ASSOCIATED WITH THE BIG SAND WASH RESERVOIR EXPANSION

UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

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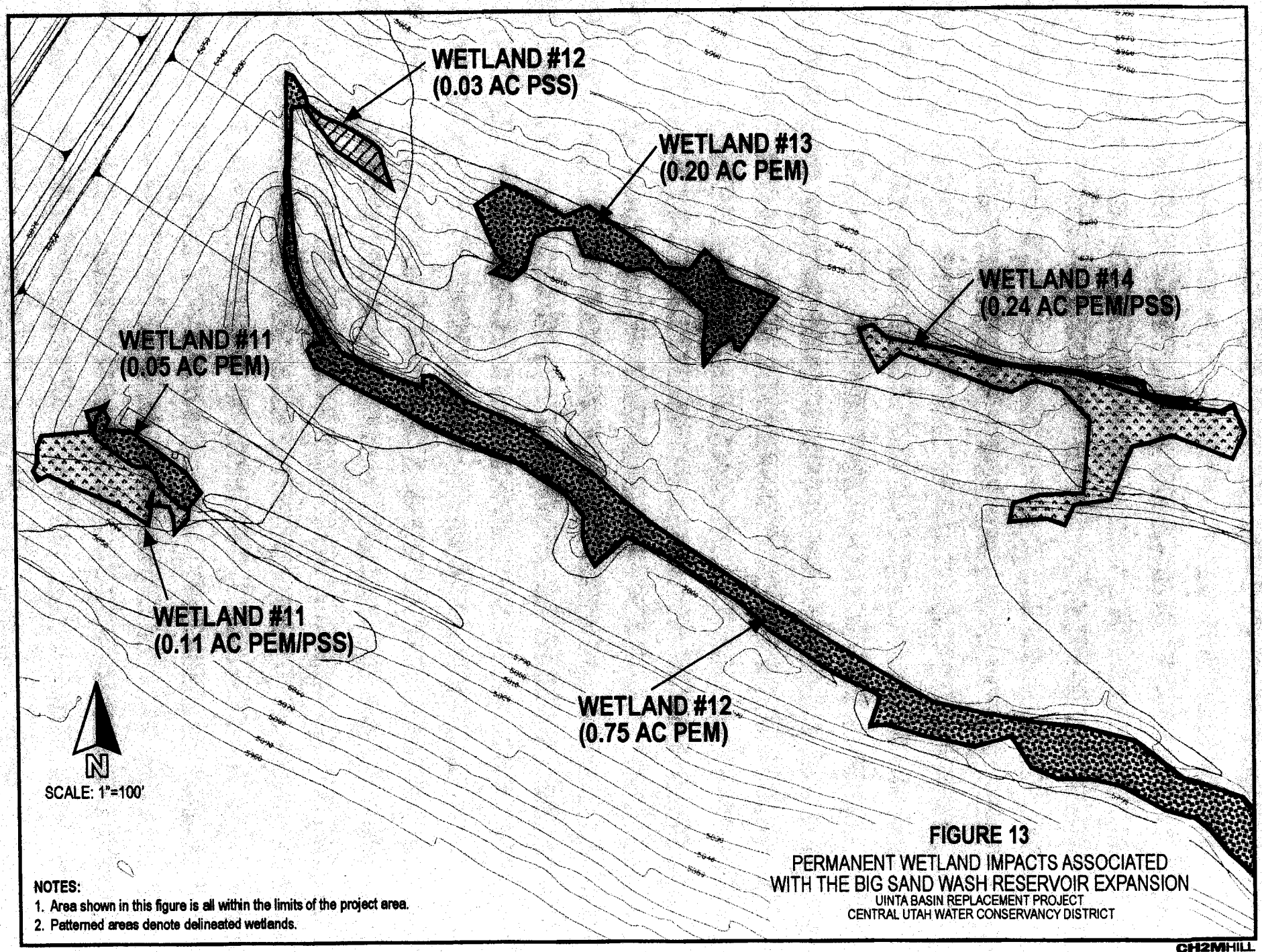

FIGURE 13

PERMANENT WETLAND IMPACTS ASSOCIATED WITH THE BIG SAND WASH RESERVOIR EXPANSION

UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

NOTES:

1. Area shown in this figure is all within the limits of the project area.
2. Patterned areas denote delineated wetlands.

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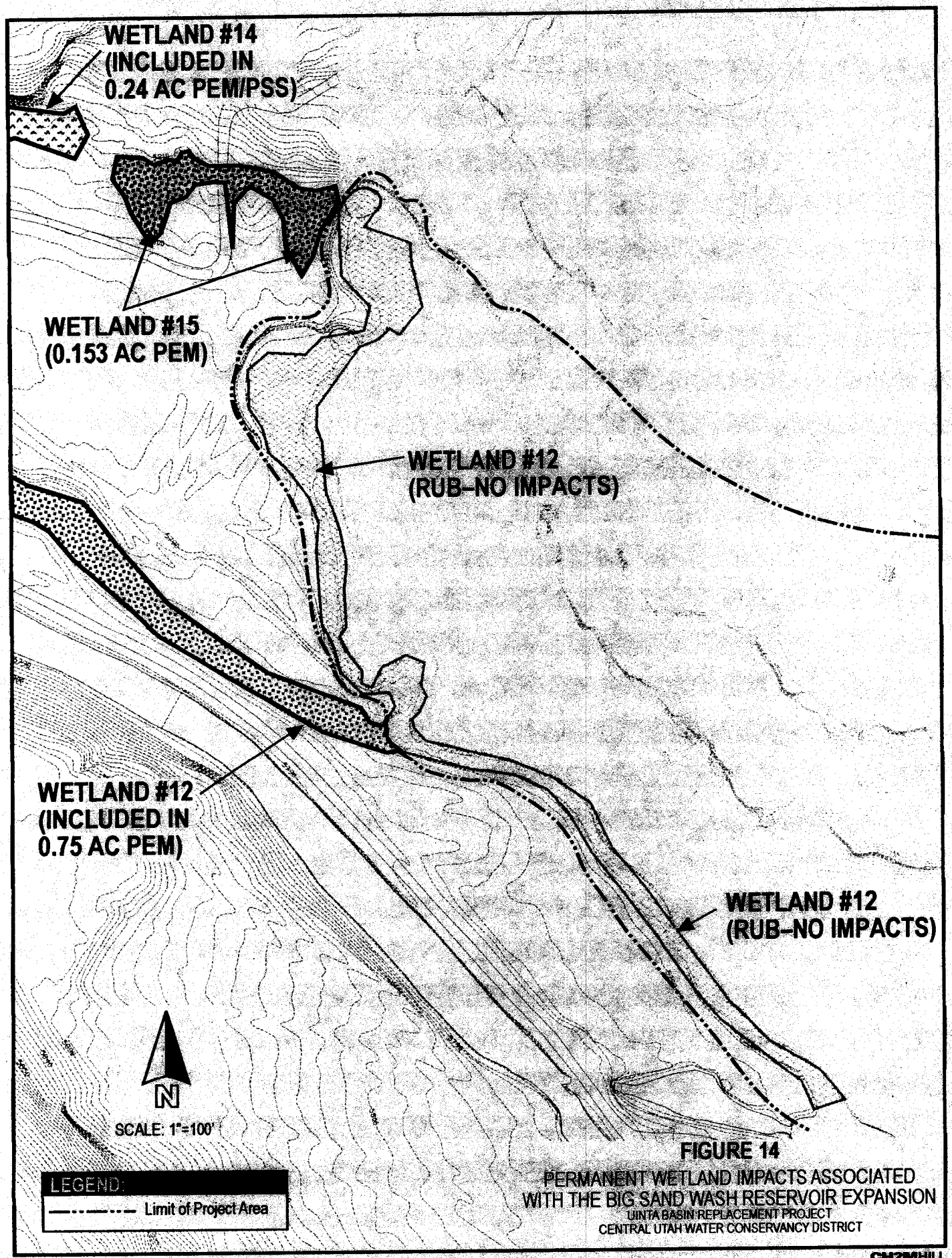

FIGURE 14

PERMANENT WETLAND IMPACTS ASSOCIATED WITH THE BIG SAND WASH RESERVOIR EXPANSION

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

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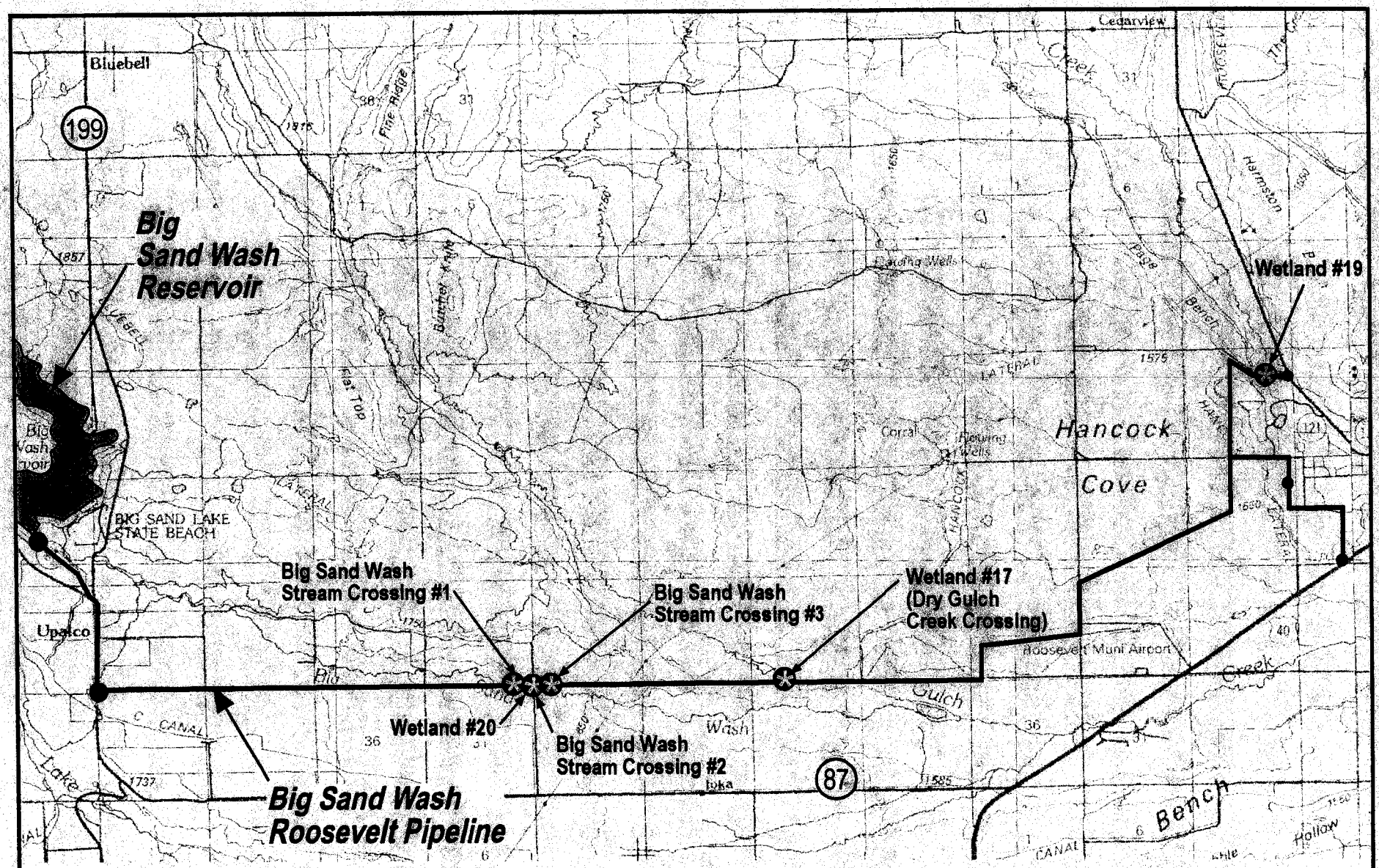

FIGURE 15

BIG SAND WASH ROOSEVELT PIPELINE
TEMPORARY WETLAND IMPACTS
UINTA BASIN REPLACEMENT PROJECT
CENTRAL UTAH WATER CONSERVANCY DISTRICT

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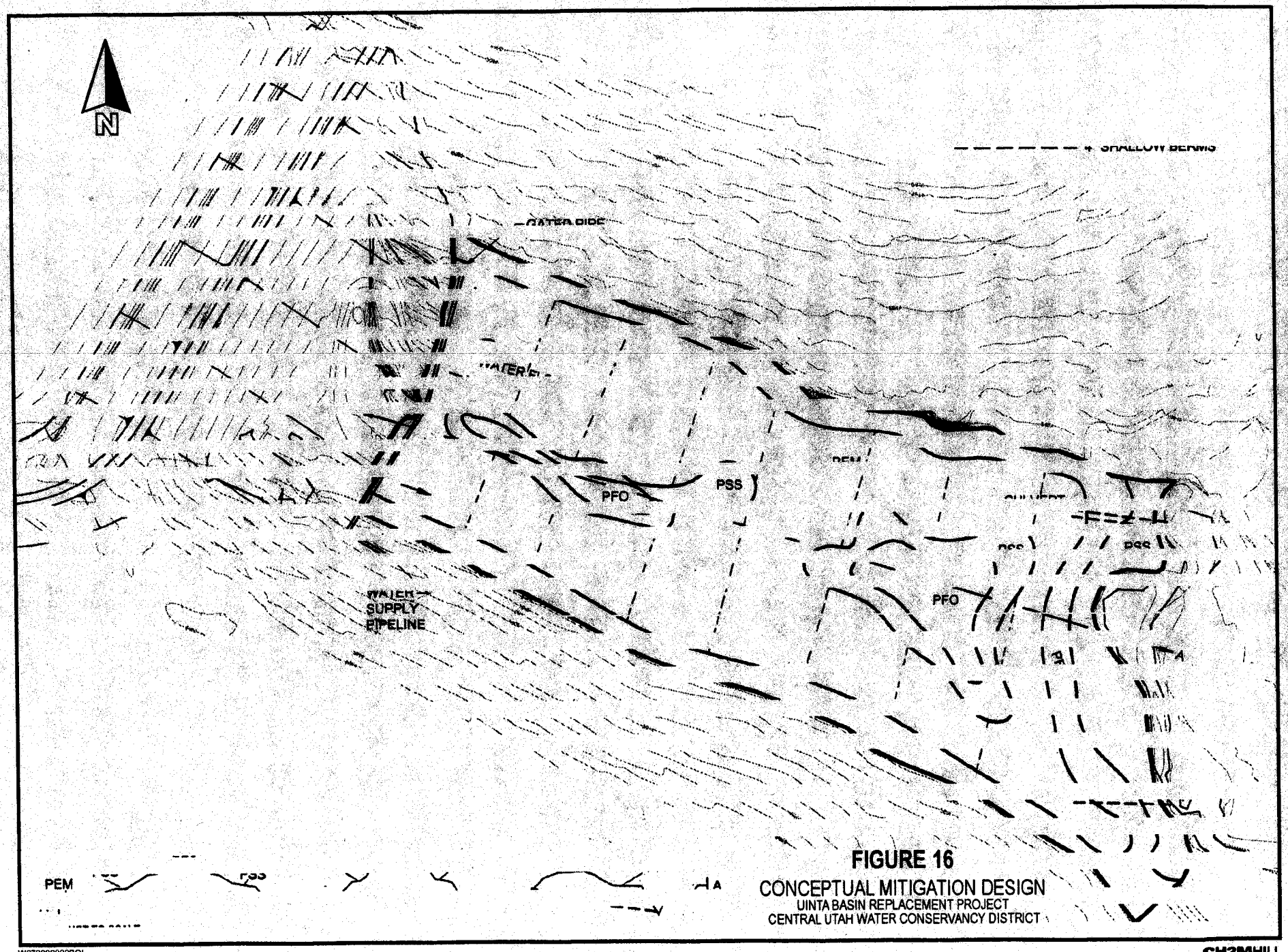

FIGURE 16

CONCEPTUAL MITIGATION DESIGN

UINTA BASIN REPLACEMENT PROJECT

CENTRAL UTAH WATER CONSERVANCY DISTRICT

W072002002BOI

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Table 1: Wetland Areas into which Material will be Permanently Placed

Wetland Identifier	Wetland Type*	Wetland Area	Fill Type
Diversion Structure and Associated Facilities			
Earthen Dikes	RRB	0.64 acres	Channel Dredgings and Riprap
Bank Protection	RRB	0.38 acres	Riprap
Rock Sills	RRB	0.2 acres	Rock and Channel Dredgings
Diversion Dam	RRB	0.1 acres	Concrete
Below Gate Concrete Channel	RRB	0.06 acres	Concrete
Wetland #1	PEM	0.017 acres	Earth Fill
Wetland #4AB	PSS	0.0022 acres	Earth Fill
	Subtotal	**1.399 acres**	**5,795.5 cubic yards**
Dredging of Upstream Channel			
Dredging	RRB	2.3 acres	3,300 yd cubed
	Subtotal	**2.3 acres****	**3,300 cubic yards**
Diversion Dam Pad			
Wetland #1	PEM	0.154 acres	Gravel and Sub-base
Wetland #2	PEM	0.04 acres	Gravel and Sub-base
Wetland #4AB	PSS	0.125 acres	Gravel and Sub-base
	Subtotal	**0.319 acres**	**3,345 cubic yards**
Access Road			
Wetland #3	PSS	0.037 acres	Native Soil and Rock from Cuts
Wetland #3	PFO/PSS	0.21 acres	Native Soil and Rock from Cuts
Wetland #4AB	PSS	0.023 acres	Native Soil and Rock from Cuts
Wetland #5AB	PEM	0.015 acres	Native Soil and Rock from Cuts
Wetland #6AB	PFO	0.082 acres	Native Soil and Rock from Cuts
Wetland #7AB	PEM	0.03 acres	Native Soil and Rock from Cuts
	Subtotal	**0.397 acres**	**6,970.9 cubic yards**
Big Sand Wash Reservoir			
Drainage #1	RUB	1.3 acres	N/A***
Drainage #2	RUB	0.52 acres	N/A***
Drainage #3	RUB	0.22 acres	N/A***
Wetland #11	PEM/PSS	0.11 acres	Dam Fill
Wetland #11	PEM	0.05 acres	Dam Fill
Wetland #12	PSS	0.03 acres	Dam Fill
Wetland #12	PEM	0.75 acres	Dam Fill
Wetland #13	PEM	0.2 acres	Construction Staging Area
Wetland #14	PEM/PSS	0.24 acres	Construction Staging Area
Wetland #15	PEM	0.153 acres	Construction Staging Area
	Subtotal	**3.573 acres**	**23,575 cubic yards**
Permanent Fill Total		**5.69 acres**	**39,687 cubic yards**

* The referenced wetland classifications are defined as follows:
RRB - Riverine Rock Bottom
RUB - Riverine Unconsolidated Bottom
PEM - Palustrine Emergent Marsh
PSS - Palustrine Scrub-Shrub
PFO - Palustrine Forested
PAB - Palustrine Aquatic Bottom

** This represents the area to be dredged. Wetland area filled with this material is included in totals elsewhere

*** Although these wetlands will be impacted by flooding, there will be no fill placed within these wetlands

Note: Wetland identification numbers correspond with the wetland numbers defined in the November 2002 Delineation Report

Table 2: Wetland Areas into which Material will be Temporarily Placed

Wetland Identifier	Wetland Type*	Wetland Area	Fill Type
Diversion Structure and Associated Facilities			
Temporary Diversion Dam	RRB	0.125 acres	Native Soil Excavated from Side Channel Outside of the High Water Mark
	Subtotal	**0.125 acres**	**150 cubic yards**
Feeder Pipeline			
Wetland #3	PFO/PSS	0.928 acres	Pipeline/Native Soil and Rock
Wetland #4	PEM/PFO	0.038 acres	Pipeline/Native Soil and Rock
Wetland #5	PEM/PSS	0.137 acres	Pipeline/Native Soil and Rock
Wetland #6	PSS/PEM	0.554 acres	Pipeline/Native Soil and Rock
Wetland #7	Pem	1.08 acres	Pipeline/Native Soil and Rock
Wetland #7A	PSS/PEM	0.90 acres	Pipeline/Native Soil and Rock
Open Water #1	PAB	0.026 acres	Pipeline/Native Soil and Rock
Open Water #2	PAB	0.065 acres	Pipeline/Native Soil and Rock
Beaver Pond	PAB	0.05 acres	Pipeline/Native Soil and Rock
Wetland #8	PEM	0.062 acres	Pipeline/Native Soil and Rock
Wetland #9	PEM	0.08 acres	Pipeline/Native Soil and Rock
Wetland #10	PEM	0.29 acres	Pipeline/Native Soil and Rock
	Subtotal	**4.21 acres**	**8,496.7 cubic yards**
Big Sand Wash Roosevelt Pipeline			
Big Sand Wash Stream Crossing #1 (West of 8000 West)	RUB	0.03 acres	Pipeline/Native Soil and Rock
Big Sand Wash Stream Crossing #2 (West of 80000 West; near barn)	RUB	0.056 acres	Pipeline/Native Soil and Rock
Wetland #20	PEM	0.009 acres	Pipeline/Native Soil and Rock
Big Sand Wash Stream Crossing #3 (East of 8000 West)	RUB	0.034 acres	Pipeline/Native Soil and Rock
Wetland #17 (Dry Gulch Creek Crossing)	RUB	0.033 acres	Pipeline/Native Soil and Rock
Wetland #19	PEM	0.002 acres	Pipeline/Native Soil and Rock
	Subtotal	**0.164 acres**	**611.1 cubic yards**
Temporary Fill Total		**4.50 acres**	**9,257.8 cubic yards**

* The referenced wetland classifications are defined as follows:
RRB - Riverine Rock Bottom
RUB - Riverine Unconsolidated Bottom
PEM - Palustrine Emergent Marsh
PSS - Palustrine Scrub-Shrub
PFO - Palustrine Forested
PAB - Palustrine Aquatic Bottom

** This represents the area to be dredged. Wetland area filled with this material is included in totals elsewhere.

*** Although these wetlands will be impacted by flooding, there will be no fill placed within these wetlands.

Note: Wetland identification numbers correspond with the wetland numbers defined in the November 2002 Wetland Delineation Report