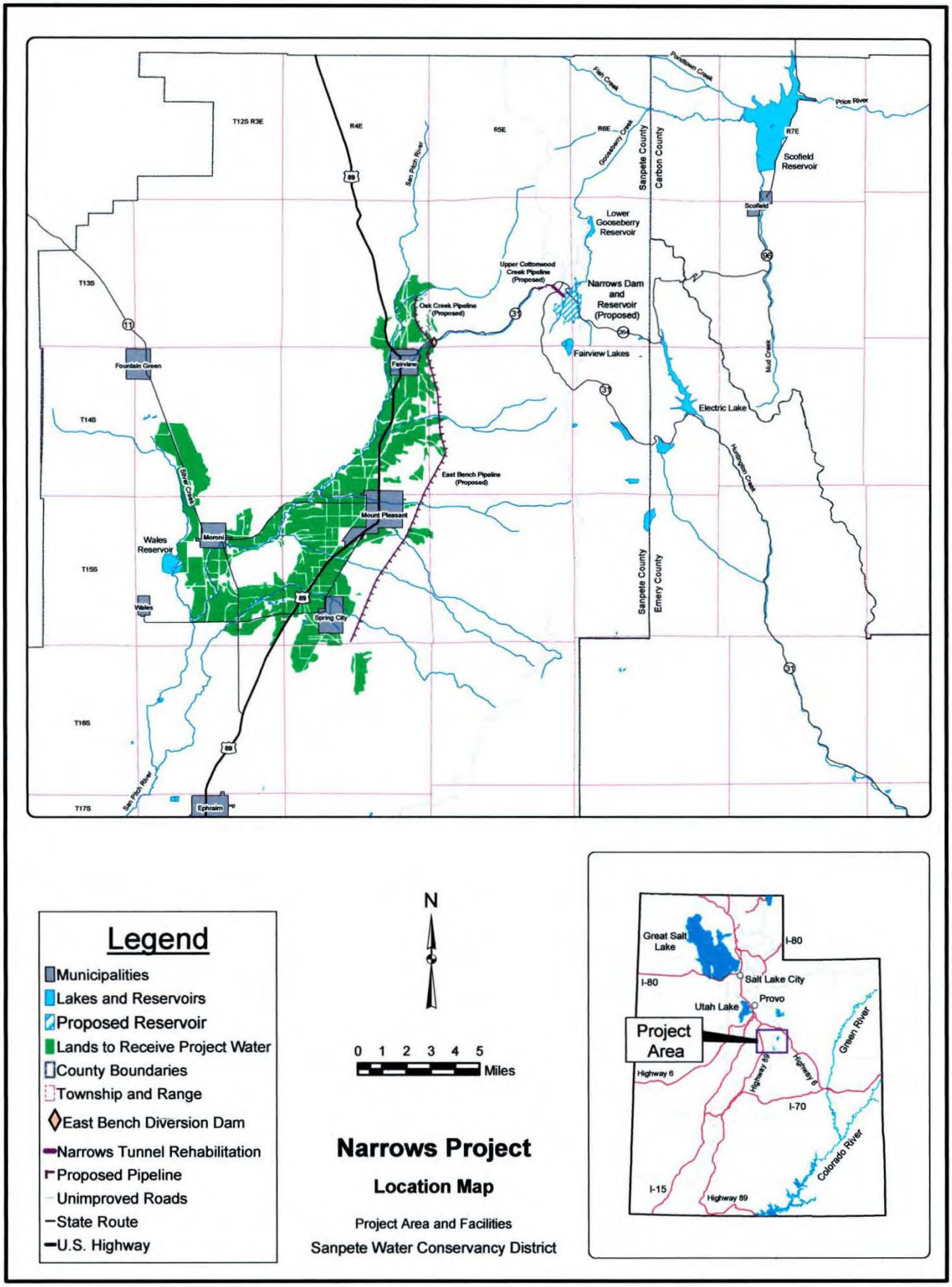
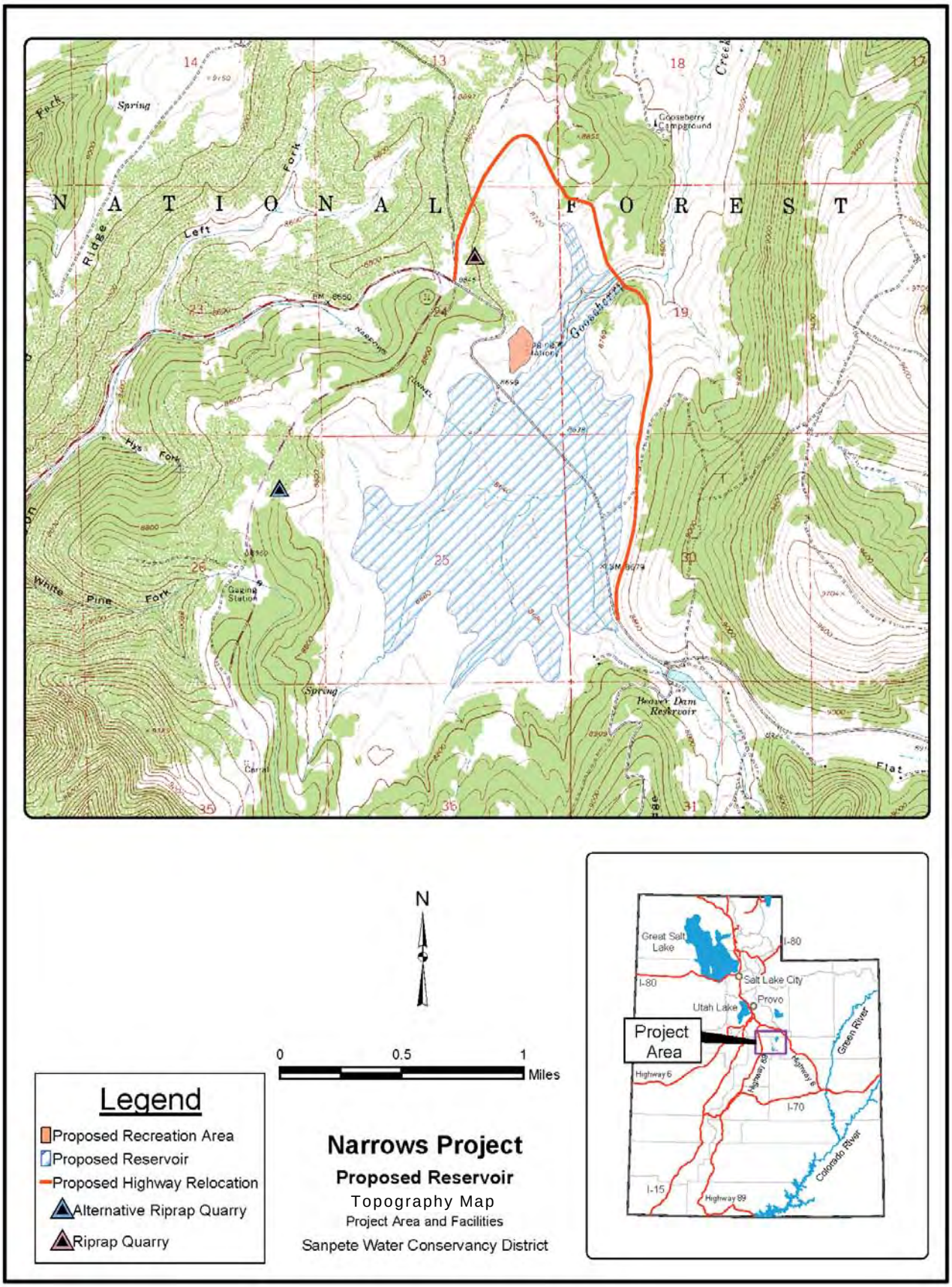
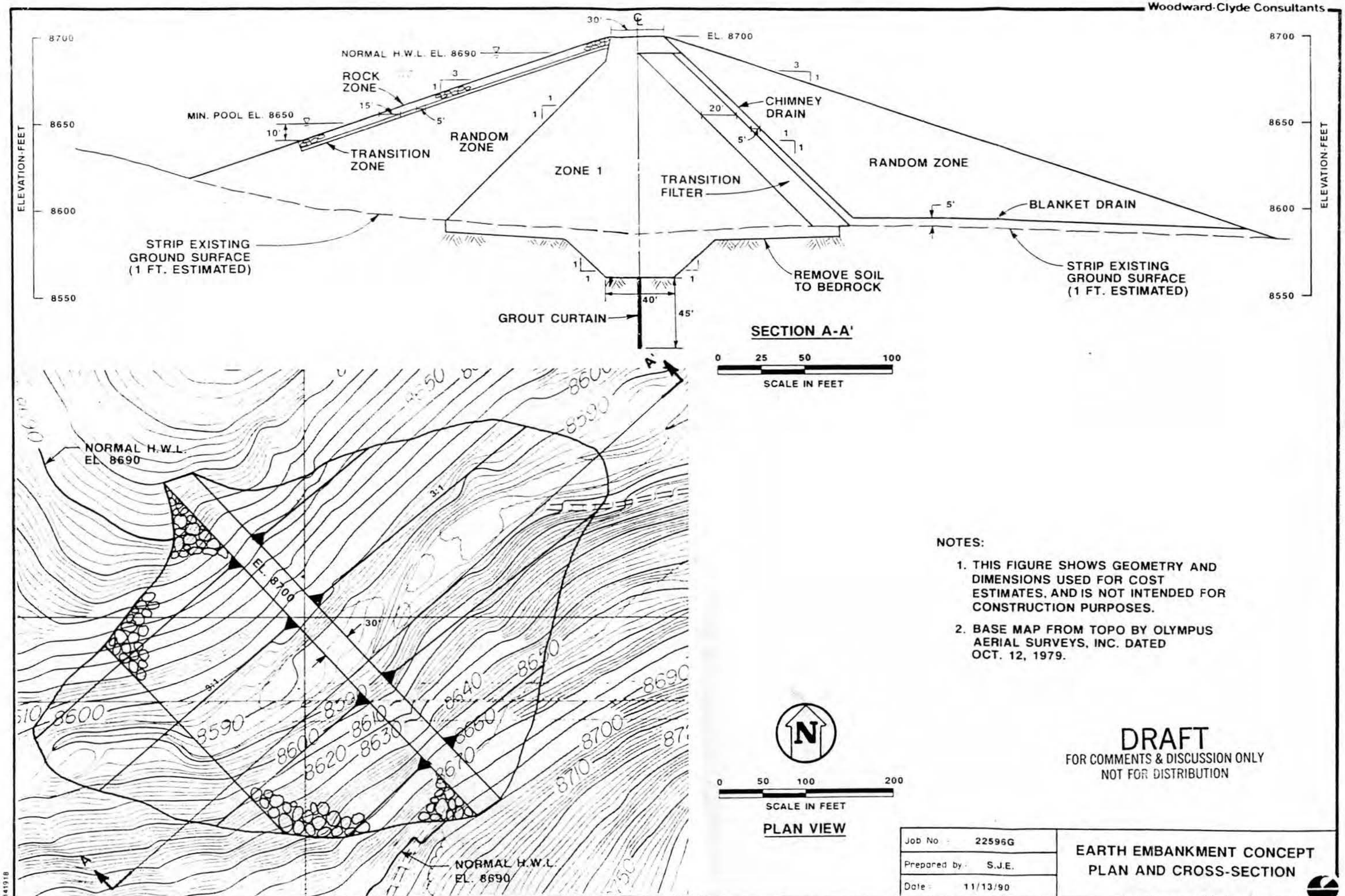

T12S R3E
R4E
R5E
R6E
R7E
T13S
T14S
T15S
T16S
T17S
Sanpete County
Carbon County
Emery County
Price River
Fish Creek
Pondtown Creek
Gooseberry Creek
San Pitch River
Silver Creek
Huntington Creek
Mud Creek
Scofield Reservoir
Scofield
Lower Gooseberry Reservoir
Upper Cottonwood Creek Pipeline (Proposed)
Narrows Dam and Reservoir (Proposed)
Oak Creek Pipeline (Proposed)
Fairview Lakes
Electric Lake
Fairview
Fountain Green
East Bench Pipeline (Proposed)
Mount Pleasant
Moroni
Wales Reservoir
Wales
Spring City
Ephraim
Legend
Municipalities
Lakes and Reservoirs
Proposed Reservoir
Lands to Receive Project Water
County Boundaries
Township and Range
East Bench Diversion Dam
Narrows Tunnel Rehabilitation
Proposed Pipeline
Unimproved Roads
State Route
U.S. Highway
N
0 1 2 3 4 5
Miles
Narrows Project
Location Map
Project Area and Facilities
Sanpete Water Conservancy District
Great Salt Lake
I-80
Salt Lake City
Provo
Utah Lake
Project Area
Green River
Highway 6
Highway 89
I-70
Colorado River
I-15
Highway 89


N A T I O N A L F O R E S T
Gooseberry Campground
Gooseberry
Beaver Dam Reservoir
Gaging Station
Spring
Left Fork
Hys Fork
White Pine Fork
Ridge
Flat
N
0
0.5
1
Miles
Legend
Proposed Recreation Area
Proposed Reservoir
Proposed Highway Relocation
Alternative Riprap Quarry
Riprap Quarry
Narrows Project
Proposed Reservoir
Topography Map
Project Area and Facilities
Sanpete Water Conservancy District
Great Salt Lake
I-80
Salt Lake City
Provo
Utah Lake
Project Area
Highway 6
Highway 89
I-70
I-15
Green River
Colorado River



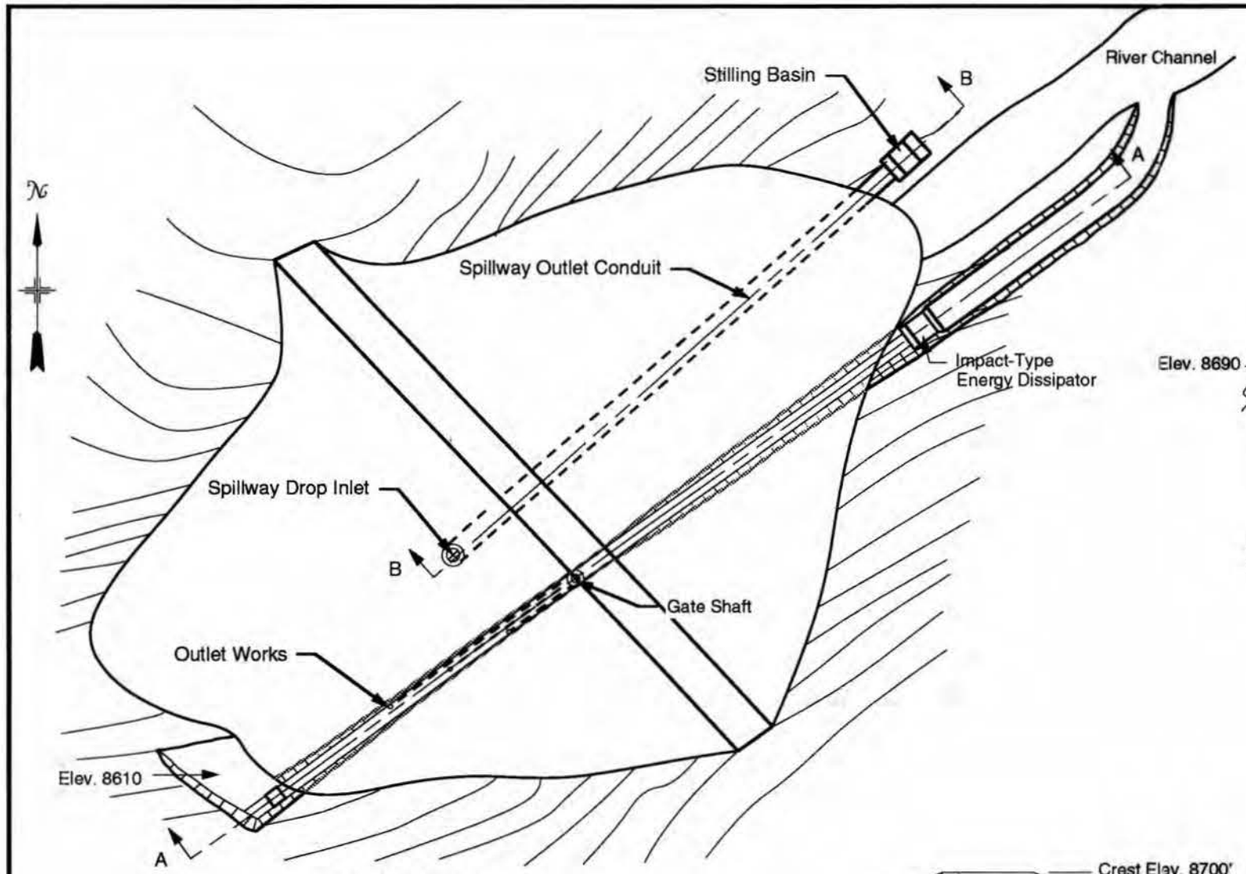
NOTES:

1. THIS FIGURE SHOWS GEOMETRY AND DIMENSIONS USED FOR COST ESTIMATES, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES.
2. BASE MAP FROM TOPO BY OLYMPUS AERIAL SURVEYS, INC. DATED OCT. 12, 1979.

DRAFT
FOR COMMENTS & DISCUSSION ONLY
NOT FOR DISTRIBUTION

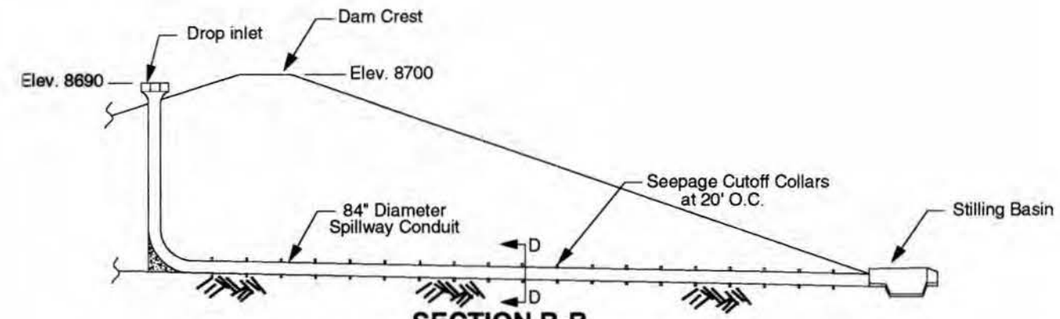
Job No. 22596G	EARTH EMBANKMENT CONCEPT PLAN AND CROSS-SECTION
Prepared by: S.J.E.	
Date: 11/13/90	

Figure D-1



PLAN VIEW

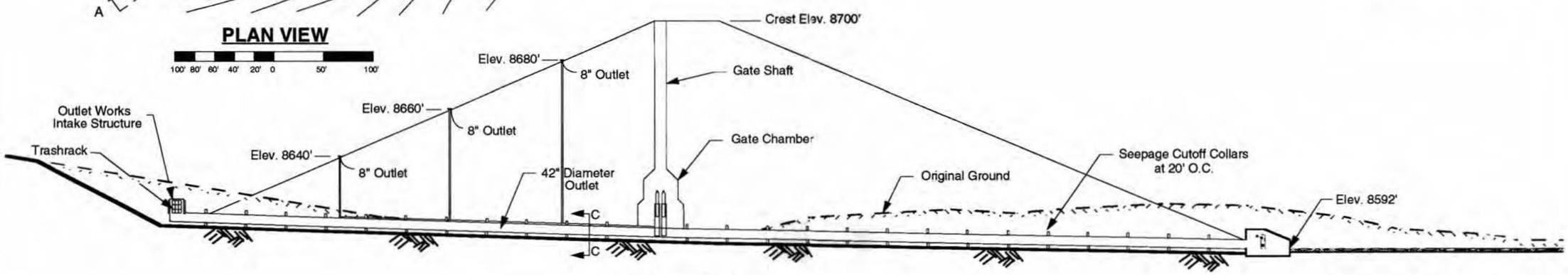
100' 80' 60' 40' 20' 0 50' 100'



SECTION B-B
THROUGH DROP INLET SPILLWAY

50' 40' 30' 20' 10' 0 25' 50'

PRELIMINARY
NOT FOR CONSTRUCTION

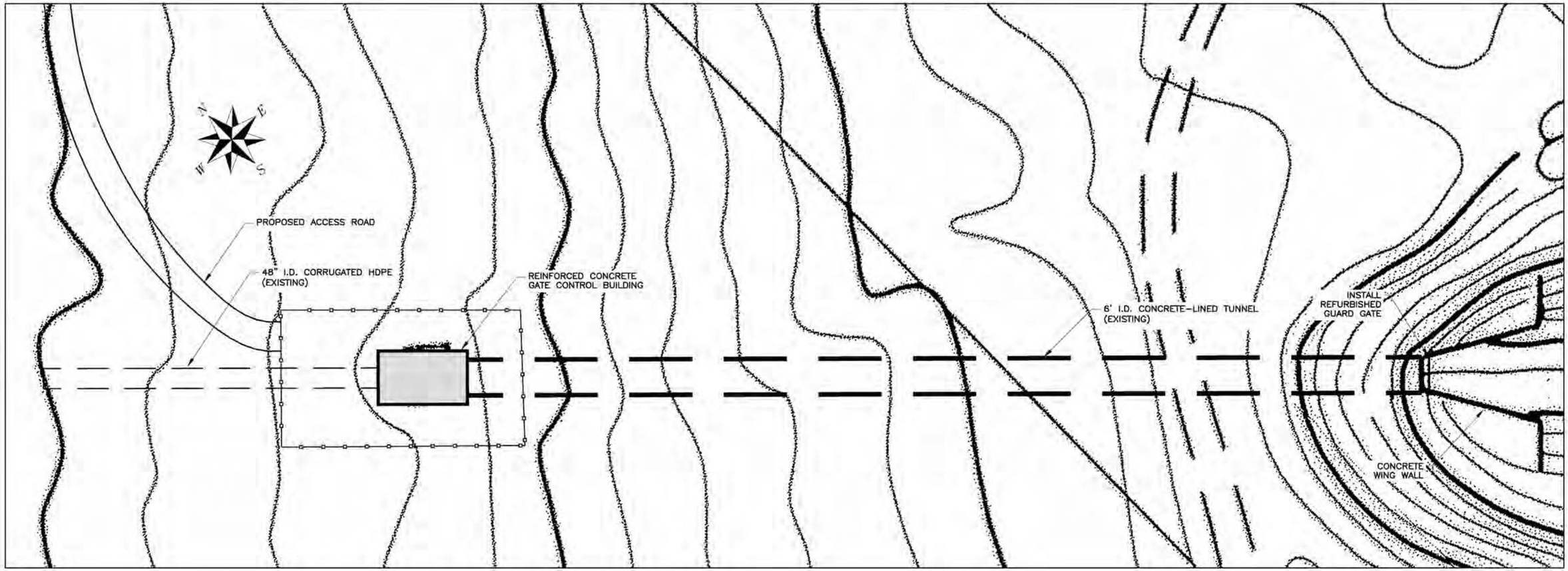


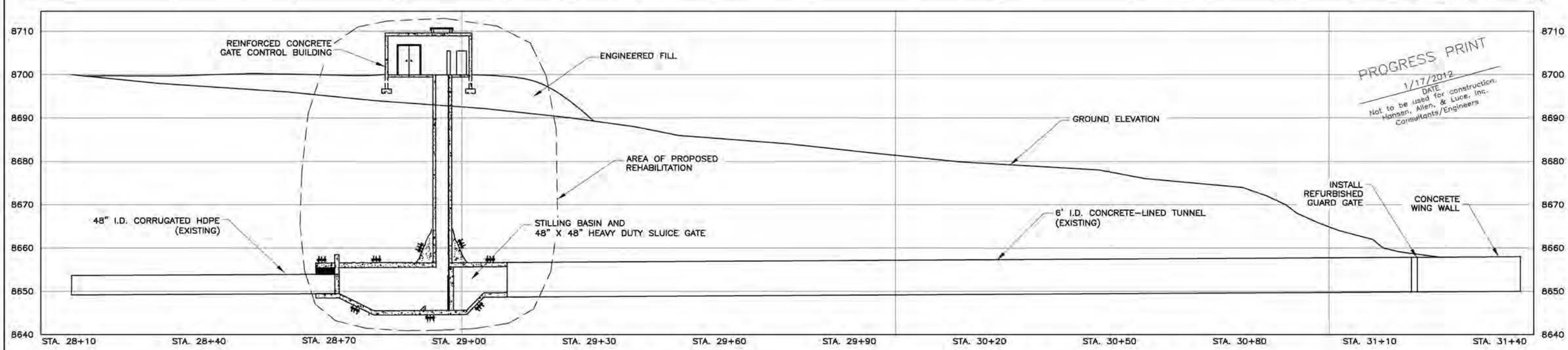
SECTION A-A
SECTION THROUGH OUTLET WORKS

50' 40' 30' 20' 10' 0 25' 50'

Figure D-2

NARROWS DAM RECONNAISSANCE LEVEL **NARROWS SITE - EMBANKMENT ALTERNATIVE OUTLET WORKS AND SPILLWAY**	
PREPARED FOR: **SANPETE WATER CONSERVANCY DISTRICT**	
DRAWING NO: 90-200-007	DECEMBER 19, 1990
DESIGNED BY: R. NOBLE	DRAWN BY: P. WRIGHT

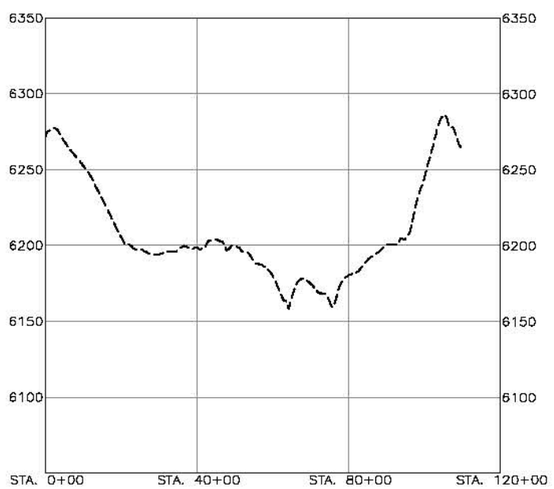




PROGRESS PRINT
1/17/2012
DATE
Not to be used for construction.
Hansen, Allen, & Luce, Inc.
Consultants/Engineers

FILE NAME:
FILE DATE:

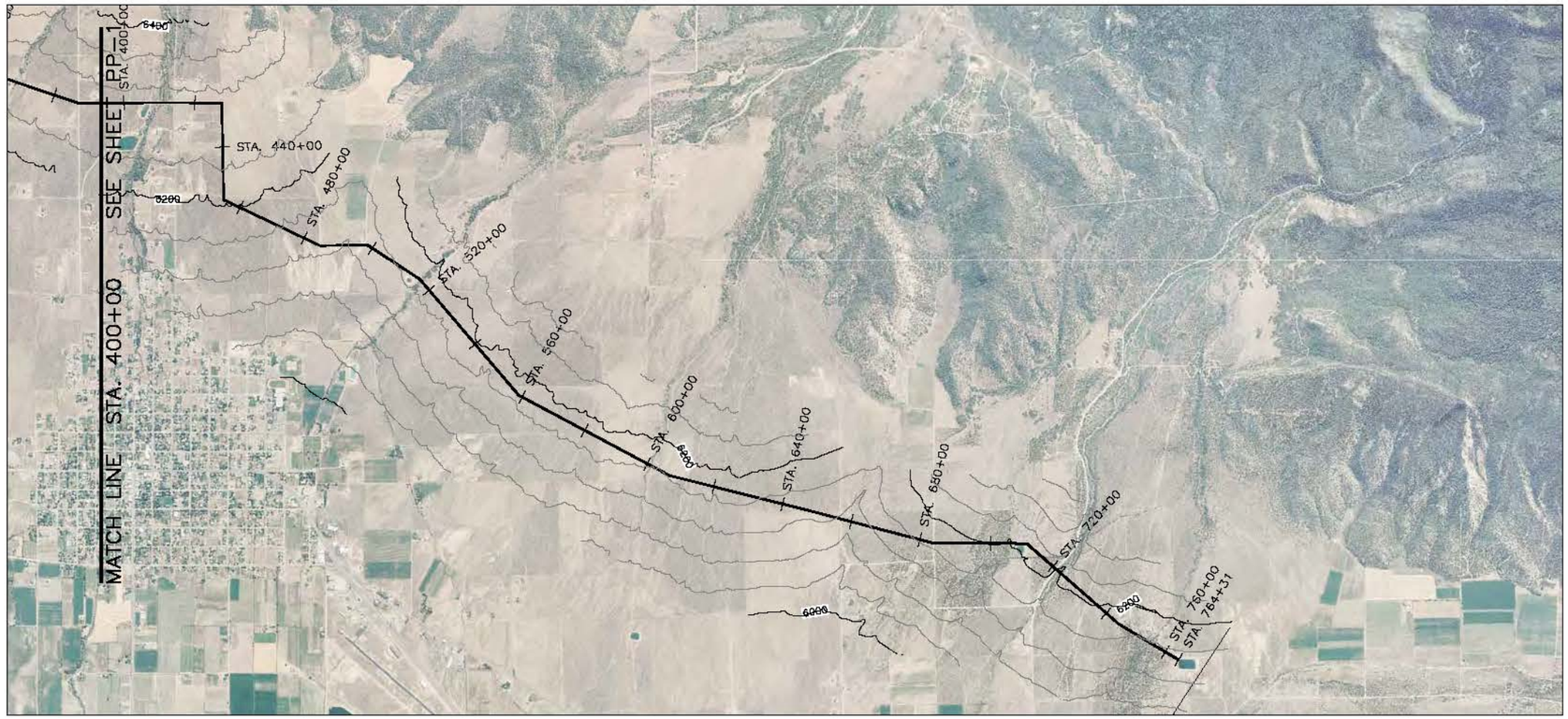
HANSEN ALLEN & LUCE ENGINEERS	PROJECT ENGINEER	DESIGNED RMN	3					SCALE: NTS	SANPETE WATER CONSERVANCY DISTRICT NARROWS PROJECT	NARROWS TUNNEL INLET REHABILITATION CONCEPTUAL DESIGN PLAN AND PROFILE	SHEET D-4
		DRAFTED TBB	2								
		CHECKED	1								
		DATE	NO.	DATE	REVISIONS	BY	APVD.				

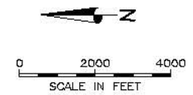


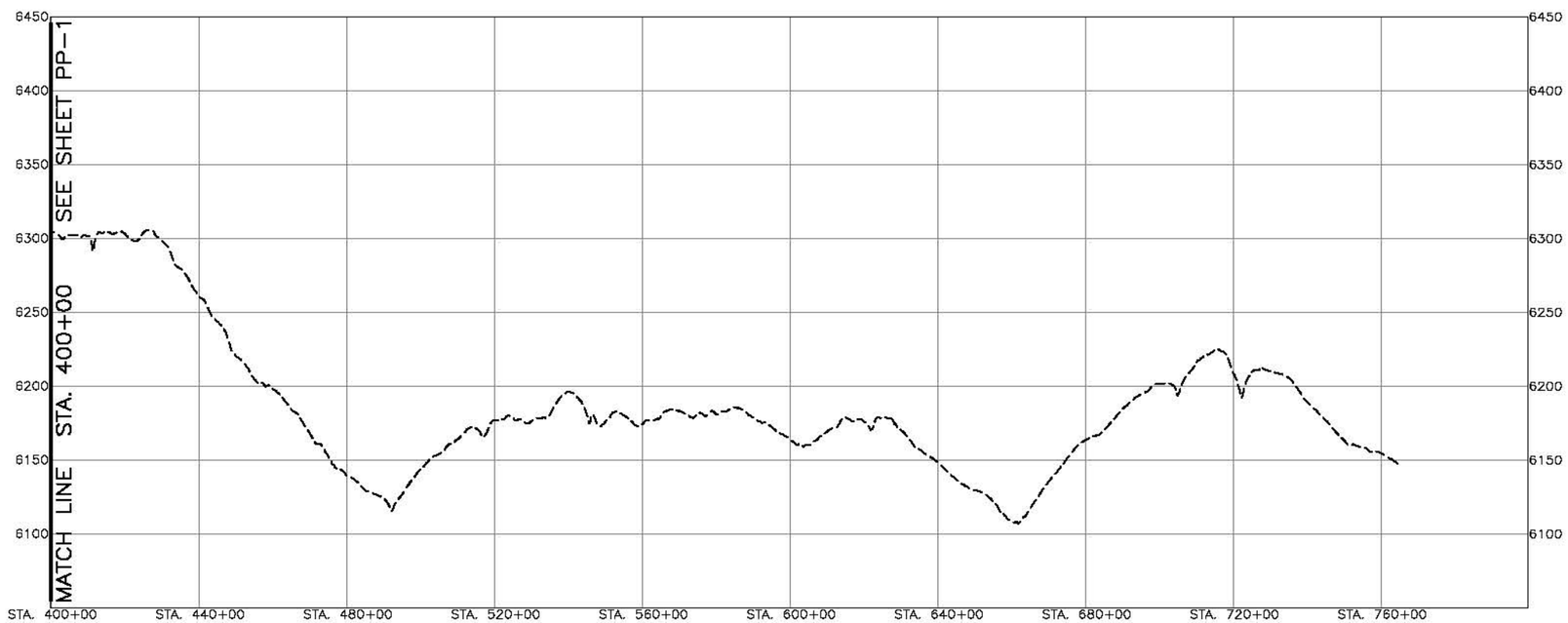
FILE NAME:
FILE DATE:

HANSEN ALLEN & LUCE ENGINEERS	PROJECT ENGINEER	DESIGNED RMN	3					SCALE NTS	SANPETE WATER CONSERVANCY DISTRICT NARROWS PROJECT	EAST BENCH & OAK CREEK PIPELINES	SHEET D-7
		DRAFTED TBB	2								
		CHECKED	1								
		DATE	NO.	DATE	REVISIONS	BY	APVD.				321.10.100

7/04



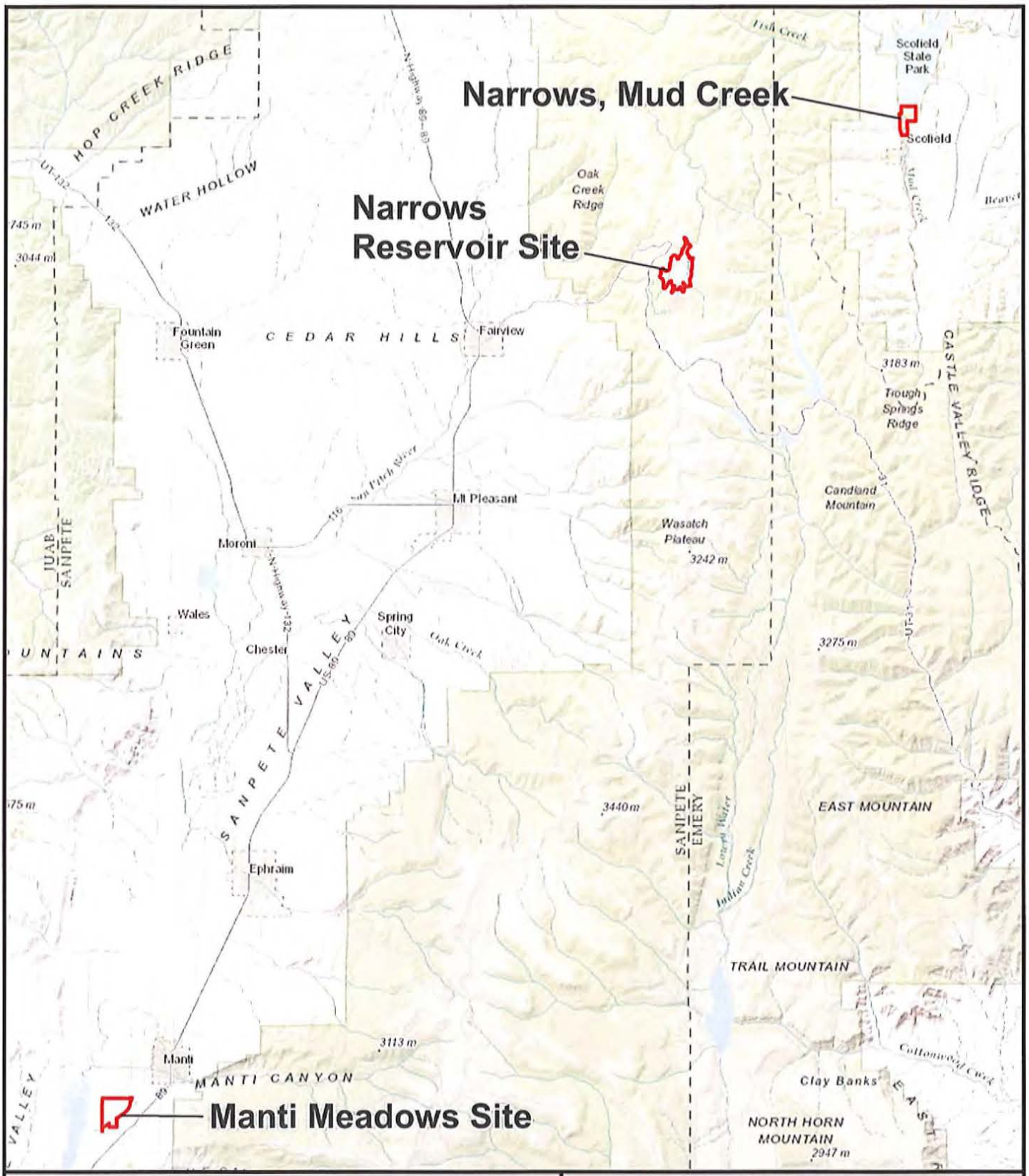




FILE NAME:
FILE DATE:

HANSEN ALLEN & LUCE INC ENGINEERS	PROJECT ENGINEER	DESIGNED RMN	3					SCALE NTS	SANPETE WATER CONSERVANCY DISTRICT NARROWS PROJECT	EAST BENCH & OAK CREEK PIPELINES	SHEET D-8
		DRAFTED TBB	2								
		CHECKED	1								
		DATE	NO.	DATE	REVISIONS	BY	APVD.				321.10.100

7/04



BIO-WEST
www.bio-west.com
435.752.4202

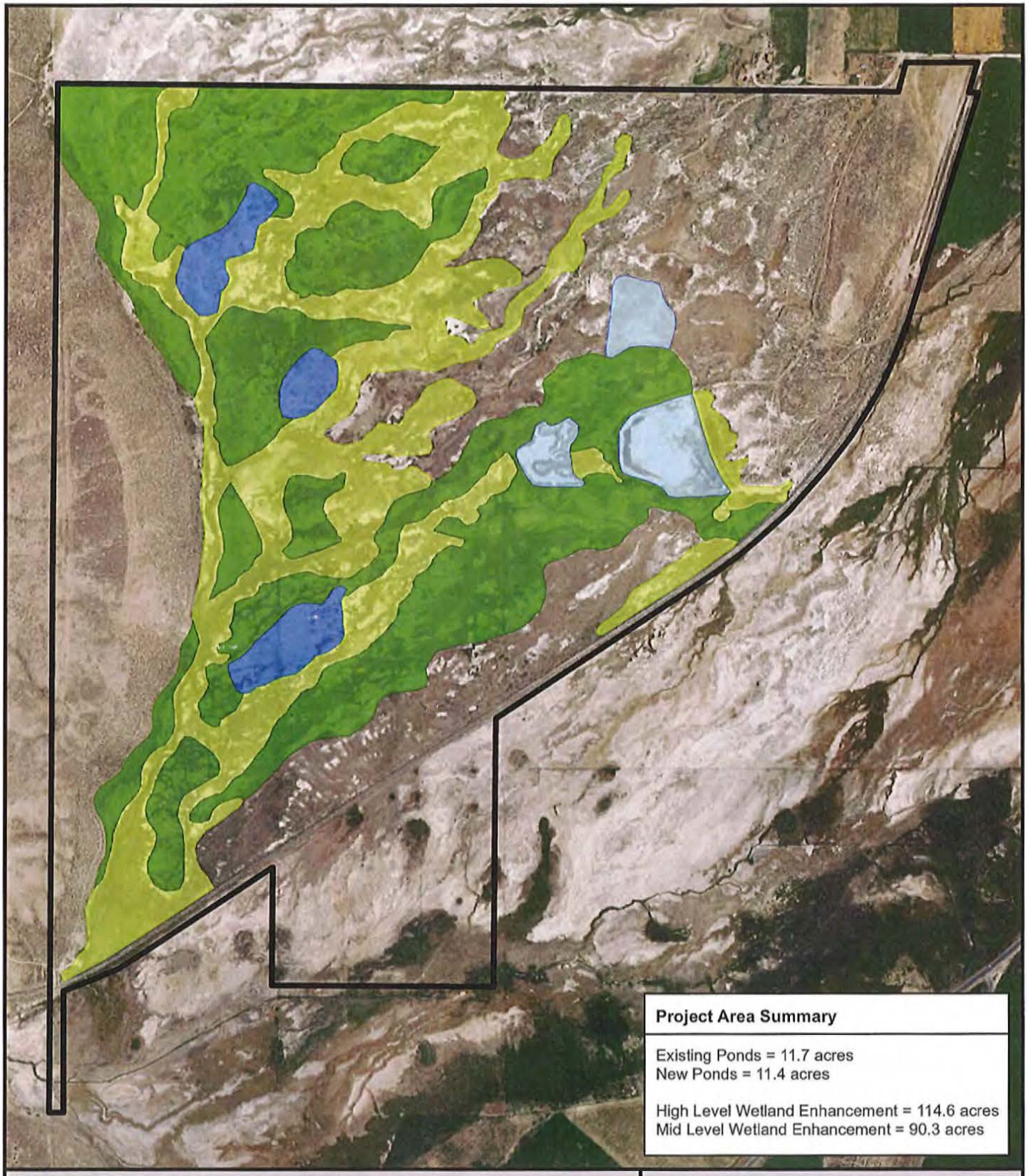
Map Date: 12/16/2015

Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse MercatorDatum: North American 1983
Q:\projects\1583_Narrows\Wetland\Narrows_WetlandMitigation_LocationMap.mxd

Wetland Mitigation Location Map

0 5 10 Miles

North



Project Area Summary

Existing Ponds = 11.7 acres
New Ponds = 11.4 acres

High Level Wetland Enhancement = 114.6 acres
Mid Level Wetland Enhancement = 90.3 acres

BIO-WEST
www.bio-west.com
435.752.4202

Map Date: 11/16/2015

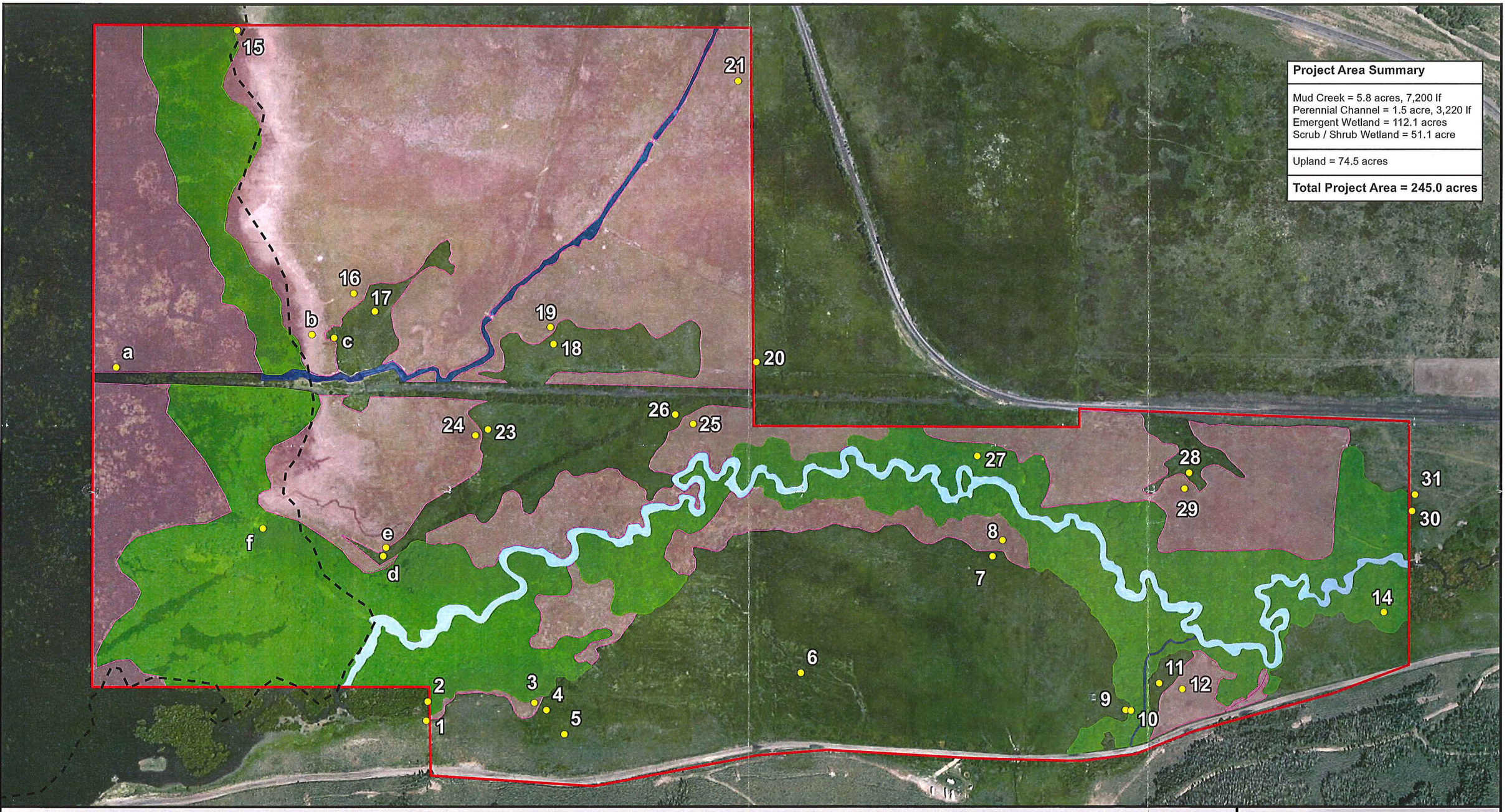
Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse MercatorDatum: North American 1983
Q:\projects\1583_Narrows\Wetland\Manti Meadows\Manti_Meadows.mxd

- Project Boundary
- Existing Ponds
- New Ponds
- High Level Wetland Enhancement
- Mid Level Wetland Enhancement

Manti Meadows Wetland Mitigation Map

0 400 800 Feet

North



Project Area Summary

Mud Creek = 5.8 acres, 7,200 lf
Perennial Channel = 1.5 acre, 3,220 lf
Emergent Wetland = 112.1 acres
Scrub / Shrub Wetland = 51.1 acre

Upland = 74.5 acres

Total Project Area = 245.0 acres

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Map Date: 11/5/2014

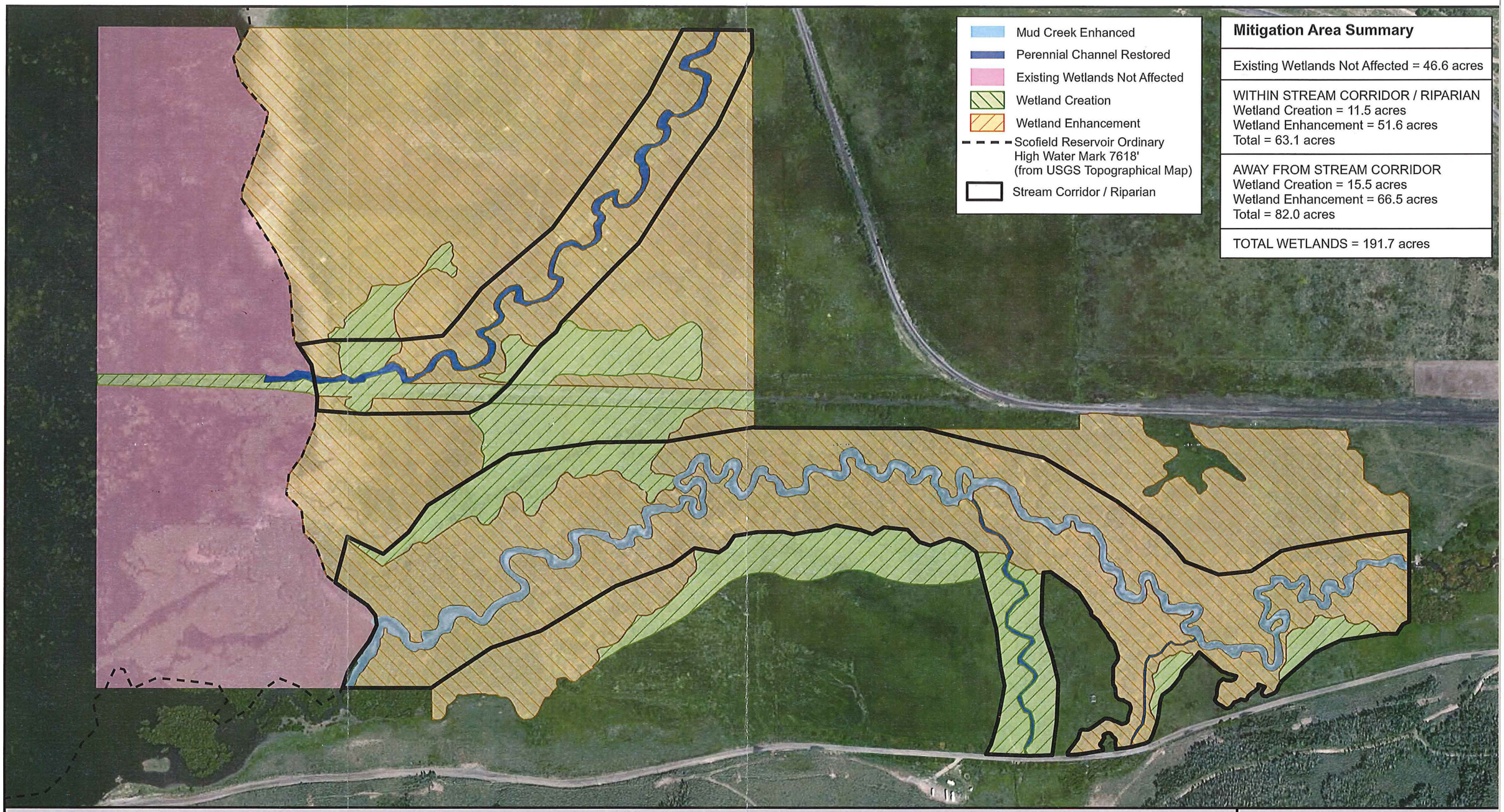
Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse MercatorDatum: North American 1983
G:\Narrows\Wetland_Assessment\Delineation\Narrows GPS 05_29_2014\Narrows_MudCreek_Site01.mxd

- Sample Point
- Project Boundary
- Mud Creek
- Perennial Channel
- Emergent Wetland
- Scrub / Shrub Wetland
- Scofield Reservoir Ordinary High Water Mark 7618' (from USGS Topographical Map)

Narrows, Mud Creek Site 1 Wetland Delineation Overview Map

0 250 500 Feet

North



Mitigation Area Summary

Existing Wetlands Not Affected = 46.6 acres

WITHIN STREAM CORRIDOR / RIPARIAN
Wetland Creation = 11.5 acres
Wetland Enhancement = 51.6 acres
Total = 63.1 acres

AWAY FROM STREAM CORRIDOR
Wetland Creation = 15.5 acres
Wetland Enhancement = 66.5 acres
Total = 82.0 acres

TOTAL WETLANDS = 191.7 acres

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Map Date: 4/15/2015

Coordinate System: NAD 1983 UTM Zone 12N
Projection: Transverse MercatorDatum: North American 1983
Q:\projects\1583_Narrows\Wetland\Narrows_Mitigation_Site01.mxd

Narrows, Mud Creek Site 1 Wetland Mitigation Map

0 250 500 Feet

North