Lake Powell Pipeline Project
FERC Additional Information Request Schedule B – Item 20

Exhibit E
Recreation Resources

20. In section 5.3.13.3.2.1 of exhibit E and section 5.2 and appendix B of Final Study Report 9, you propose to build two all-terrain vehicle (ATV) trailheads to mitigate the loss of 260 acres of land in the Sand Mountain Special Recreation Management Area (SRMA). However, it is not clear whether your proposal includes replacing the associated trails and other recreation sites permanently lost. Please clarify whether you propose to replace all ATV trails that would be permanently closed to recreation, and if not, provide an explanation of why these trails would not be replaced. Provide specifics on the number and lengths of existing trails, along with any trails, trailheads, kiosks, or other facilities that would be replaced as part of your proposal. Please provide maps showing the location of each existing feature to be removed, any replacement feature proposed to be built, and their relation to project features. You also state that if one of the proposed trailheads has already been developed, then you would expand the ATV trail system. However, you do not offer any specific information on the extent of the trails you would construct in this scenario. Please provide this information.

UBWR Response:

The proposed mitigation for ATV trails (consisting of ATV trails and ATV roads) that would be permanently closed to recreation is to replace all ATV trails on BLM-administered land within the Sand Mountain Special Recreation Management Area (SRMA). The proposed mitigation ATV trails totaling 36,685 feet long would be developed in an area of the Sand Mountain SRMA adjacent to the LPP project area where permanently closed dispersed use, user-defined ATV trails would total 34,041 feet long. The proposed mitigation ATV trails (total length of 36,685 feet) would consist of 15,808 new ATV trails and 20,877 feet of mitigation-improved ATV trails. The mitigation-improved ATV trails would be existing ATV trails improved by grading, graveling, repair, or other improvements as applicable. Additionally, non-motorized trails totaling 10,414 feet long would be developed and improved as part of the mitigation. The proposed mitigation trails within the Sand Mountain SRMA would total 47,099 feet long.

Figure 2-1 shows the ATV trails that would be permanently closed within the proposed FERC project boundary, with land ownership and administration indicated on the map. Figure 2-2 shows the ATV trails that would be permanently closed within the proposed FERC project boundary, with aerial imagery.

Existing dispersed use, user-defined ATV roads and trails within the Sand Mountain SRMA and the proposed FERC project boundary would be permanently closed and removed by the LPP project tailrace channel and afterbay reservoir. The dispersed use, user-defined ATV roads that would be permanently closed total 25,217 feet long (Figures 2-1 and 2-2). The dispersed use, user-defined ATV trails that would be permanently closed total 8,824 feet long (Figures 2-1 and

2-2). There are no BLM-developed parking lots, trailheads, trails, information kiosks, maps or other BLM-developed recreation features that would be closed or removed by the LPP project.

Portions of two public roads constructed and maintained by the BLM St. George Field Office (SGFO) and within the Sand Mountain SRMA would be permanently closed by the LPP project and would be replaced with the following transportation infrastructure as mitigation:

1. Existing S. 1100 W./Arizona Strip Road at proposed tailrace channel crossing: A 660-foot-long bridge would be constructed over the proposed tailrace channel to maintain public access and use of the existing S. 1100 W./Arizona Strip Road (see Figures 2-1 and 2-2).
2. Existing Warner Valley Road beginning at S. 1100 W./Arizona Strip Road: Approximately 1,700 feet of the existing gravel road within the footprint of the proposed afterbay reservoir would be realigned with a new gravel road approximately 1,724 feet long (see Figures 2-1 and 2-2).

The proposed recreation mitigation measures include new mitigation ATV roads and trails, and mitigation-improved ATV roads and trails, as shown on Figures 2-1 and 2-2, and presented in Table 2-1. One proposed new mitigation ATV road (i), located within the Sand Mountain SRMA, would total 1,200 feet long and would be accessible from the proposed east and west parking areas via proposed mitigation-improved ATV roads. The proposed east parking area would provide vehicle and trailer parking, unloading/loading ramps, three trailheads, a composting-toilet restroom, and an information kiosk with maps for roads and trails and other interpretive information. The east parking area would be approximately 100 feet wide and 300 feet long, connected to the existing S. 1100 W./Arizona Strip Road within the Sand Mountain SRMA via two existing roads. Seven new mitigation ATV trails (m, n, o, p, q, r, s) are proposed to be located within the Sand Mountain SRMA as shown on Figures 2-1 and 2-2 and would total 14,602 feet long, connected to the proposed ATV trailheads and the east and west parking areas via mitigation-improved ATV roads. One proposed new non-motorized mitigation trail (a) totaling 7,426 feet long would start at the east parking area trailhead and connect to a mitigation-improved ATV road accessible from the east and west parking areas. One mitigation-improved non-motorized trail (b) totaling 2,988 feet long would be connected to a mitigation-improved ATV road accessible from the east and west parking areas. Access to non-motorized trailheads would be controlled with non-motorized access gates and placed boulders. Eight mitigation-improved ATV roads (d, e, f, g, h, j, k, l) would total 15,623 feet long, and three mitigation-improved ATV trails (c, t, u) would total 4,870 feet long. Access to ATV trailheads would be controlled with bollards and placed boulders. The proposed west parking area would provide vehicle and trailer parking, unloading/loading ramps and include an ATV trailhead connected to a mitigation-improved ATV road. The west parking area would be approximately 100 feet wide and 200 feet long and would be accessed via an existing dirt road within the Sand Mountain SRMA (Figures 2-1 and 2-2).

The mitigation ATV roads (new plus improved) would total 17,273 feet long. The mitigation ATV trails (new plus improved) would total 19,422 feet long (Table 2-1).

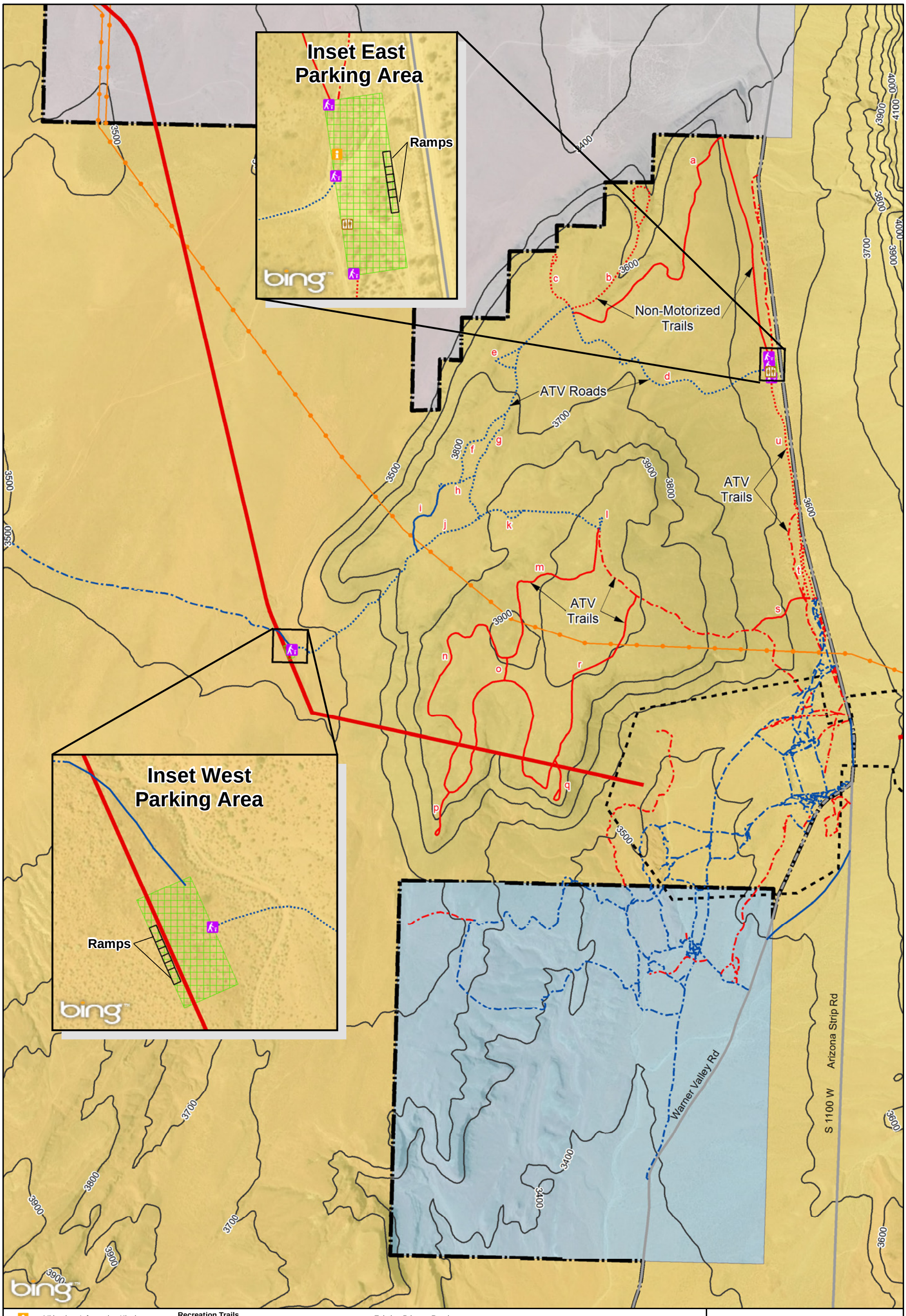
Mitigation non-motorized trails are proposed as an additional mitigation measure, although there are no BLM designated non-motorized trails that would be removed by the LPP project. The mitigation non-motorized trails (new plus improved) would total 10,414 feet long (Table 2-1).

Table 2-1
Proposed Recreation Mitigation Trails and Roads in the Sand Mountain Special Recreation Management Area

Trail[1]	Type	Length (ft.)	Trailhead
a	New non-motorized trail, access-controlled	7,426	Yes
b	Mitigation-improved non-motorized trail, access-controlled	2,988	No
c	Mitigation-improved ATV trail, access-controlled	1,071	No
d	Mitigation-improved ATV road	4,722	Yes
e	Mitigation-improved ATV road	687	No
f	Mitigation-improved ATV road	1,317	No
g	Mitigation-improved ATV road	2,608	No
h	Mitigation-improved ATV road	461	No
i	New ATV road	1,200	No
j	Mitigation-improved ATV road	5,162	Yes
k	Mitigation-improved ATV road	336	No
l	Mitigation-improved ATV road	330	No
m	New ATV trail, access-controlled	2,919	No
n	New ATV trail, access-controlled	5,937	No
o	New ATV trail, access-controlled	322	No
p	New ATV trail, access-controlled	789	No
q	New ATV trail, access-controlled	821	No
r	New ATV trail, access-controlled	2,805	No
s	New ATV trail, access-controlled	1,009	No
t	Mitigation-improved ATV trail, access-controlled	772	No
u	Mitigation-improved ATV trail, access-controlled	3,027	Yes
Subtotal Non-Motorized Trails, Access-Controlled (trails a, b)		**10,414**	
Subtotal ATV Trails, Access-Controlled (trails c, m, n, o, p, q, r, s, t, u)		**19,422**	
Subtotal ATV Roads (trails d, e, f, g, h, i, j, k, l)		**17,273**	
Subtotal Mitigation ATV Trails and Mitigation ATV Roads		**36,695**	
Total Mitigation Trails (ATV trails and roads, and non-motorized trails)		**47,099**	

Note:
[1]Trail represents mitigation and mitigation-improved ATV trails, ATV roads, and non-motorized trails.

The last bullet in Exhibit E, Section 5.3.13.3.2.1, and Section 5.2 and Appendix B of Final Study Report 9, state that mitigation would include "Developing an ATV trailhead at Washington Dam Road unless WCWCD has already developed a trailhead at this location." This stated mitigation measure would be off-site mitigation for LPP project impacts. UBWR proposes to replace the off-site mitigation with the expanded on-site mitigation trails proposed for the Sand Mountain SRMA adjacent to the proposed FERC project boundary.


Inset East Parking Area
Ramps
Inset West Parking Area
Ramps
Non-Motorized Trails
ATV Roads
ATV Trails
ATV Trails
ATV Trails
Warner Valley Rd
S 1100 W Arizona Strip Rd
3500
3600
3700
3800
3900
4000
4100
3400
a
b
c
d
e
f
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h
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o
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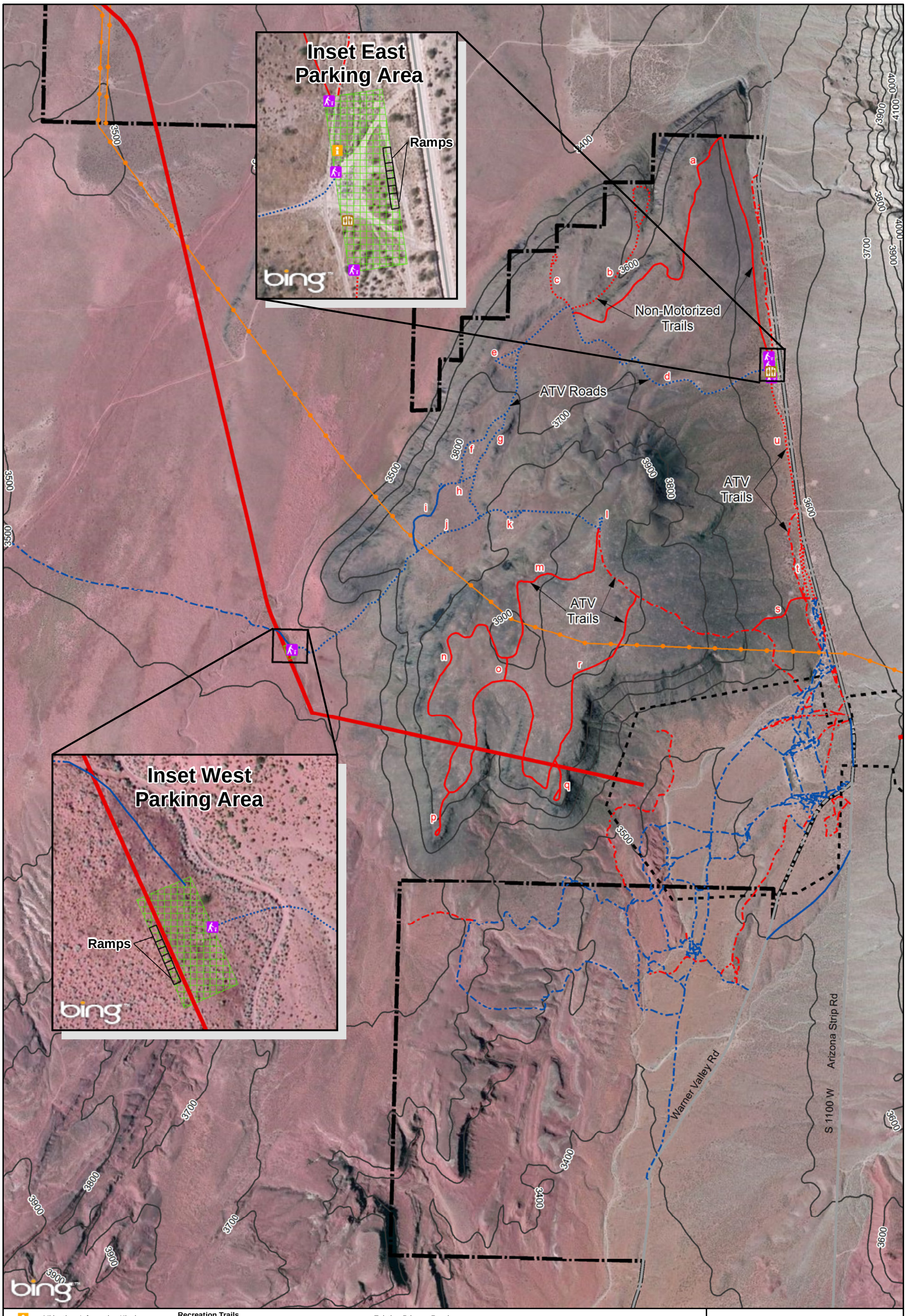
q
r
s
t
u
bing
Mitigation, Information Kiosk
Mitigation, Restroom
Mitigation, Trail Head Sign
Mitigation Parking Lot
Proposed FERC Project Boundary
Hydro System - Proposed Action (Penstock Segment)
Sand Mountain SRMA Boundary
Recreation Trails
Dispersed Use, User-Defined Trail
Dispersed Use, User-Defined Road
Mitigation Trail
Mitigation Road
Mitigation - Improved Trail
Mitigation - Improved ATV Road
Existing Primary Road
Existing Primary Road (Inside Proposed FERC Project Boundary)
Project Transmission Lines
Contours 100 ft
BLM
State
Private
FERC Project Number: 12966-001
BLM Serial Numbers: AZA-34941 UTU-85472
N
0
0.25
0.5
Miles
Lake Powell Pipeline Project
Spatial Reference: UTM Zone 12N, NAD-83
UDWRe Figure 2-1 MWH
Hurricane Cliffs Area Recreation Impacts and Mitigation Measures


Inset East Parking Area
Ramps
Inset West Parking Area
Ramps
Non-Motorized Trails
ATV Roads
ATV Trails
ATV Trails
ATV Trails
Warner Valley Rd
S 1100 W Arizona Strip Rd
a
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4000
4100
bing
Mitigation, Information Kiosk
Mitigation, Restroom
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0.25
0.5
Miles
Lake Powell Pipeline Project
Spatial Reference: UTM Zone 12N, NAD-83
UDWRe Figure 2-2 MWH
Hurricane Cliffs Area Recreation Impacts and Mitigation Measures Aerial Imagery Map