LDS HEBER VALLEY FAMILY/YOUTH CAMP STREAM AND WETLANDS IMPACTS

Stream/Drainage impacts (Linear feet)

Delineation Report Crossing Number	404 Permit Figure No.	Roadway	Approx Station	Impact Length (ft)	Method of Calculation
1	1	Main	25+50	98	88ft pipe length plus 20ft entrance/exit minus 10ft existing road
–	1	Main	34+75	0	No impact - canal/ditch crossing, not jurisdictional
2	1,2	Main	91+50	99	69ft pipe length and cut/fill limits plus 30ft entrance/exit
3	2	ConstAccess	–	0	No impact - grading of existing road within existing road limits
4	2	ConstAccess	–	0	No impact - grading of existing road within existing road limits
5	3	ConstAccess	–	0	No impact - grading of existing road within existing road limits
6	3	ConstAccess	–	0	No impact - grading of existing road within existing road limits
7	3	ConstAccess	–	0	No impact - grading of existing road within existing road limits
8	4	Potential/Future	–	0	Potential future impact - not part of Phase I permit application
–	4	ConstAccess	–	0	No impact - grading of existing road within existing road limits
–	4	ConstAccess	–	0	No impact - grading of existing road within existing road limits
10	5	Main	198+00	105	60ft pipe plus 35ft pipe plus 30ft entrance/exit minus 20ft existing road
11	5,6	Main	221+80	139	109ft pipe length plus 30ft entrance/exit
12	6	Main	272+70	85	55ft stream length between cut/fill plus 30ft entrance/exit
13	6,7	Main	278+60	140	110ft stream length between cut/fill plus 30ft entrance/exit
14	7	Access	–	81	61ft cut/fill plus 20 entrance/exit
–	7	Access	–	0	Deer Valley Reservoir overflow canal - not jurisdictional
15	7	Access	–	0	No impact - grading of existing road within existing road limits
16	7	Main	301+00	262	cut/fill plus 20 entrance/exit
–	7	Access	–	50	access road to camp 3 - impact estimated at 50ft
–	7	Access	–	20	reconstruct existing crossing for camp access road - impact est at 20ft
17	9	Main	328+00	144	cut/fill plus 20 entrance/exit
18	9	Road 3	–	110	105ft cut/fill minus 15ft exist plus 20ft entrance/exit - estimated
19	9	Road 3	–	85	80ft cut/fill minus 15ft exist plus 20ft entrance/exit - estimated
–	9	waterline	–	15	
20	10	Access	–	0	No impact - grading of existing road within existing road limits
21	10	Access	–	0	No impact - grading of existing road within existing road limits
–	10	Potential/Future	–	0	Potential future impact - not part of Phase I permit application
TOTAL (linear feet)				**1433**	

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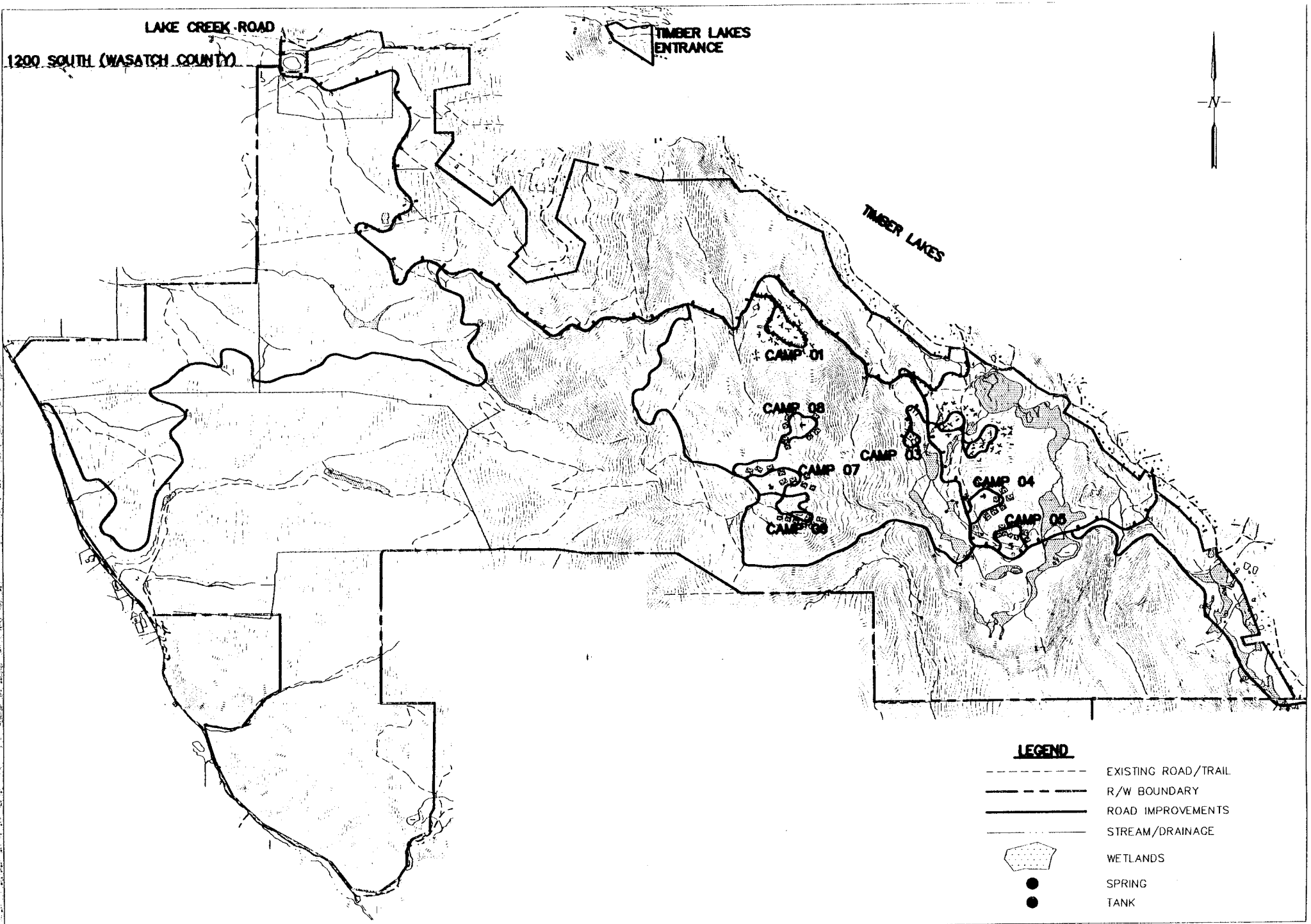
LDS HEBER VALLEY FAMILY/YOUTH CAMP

VICINITY MAP

SCALE : 1" = 10,000'



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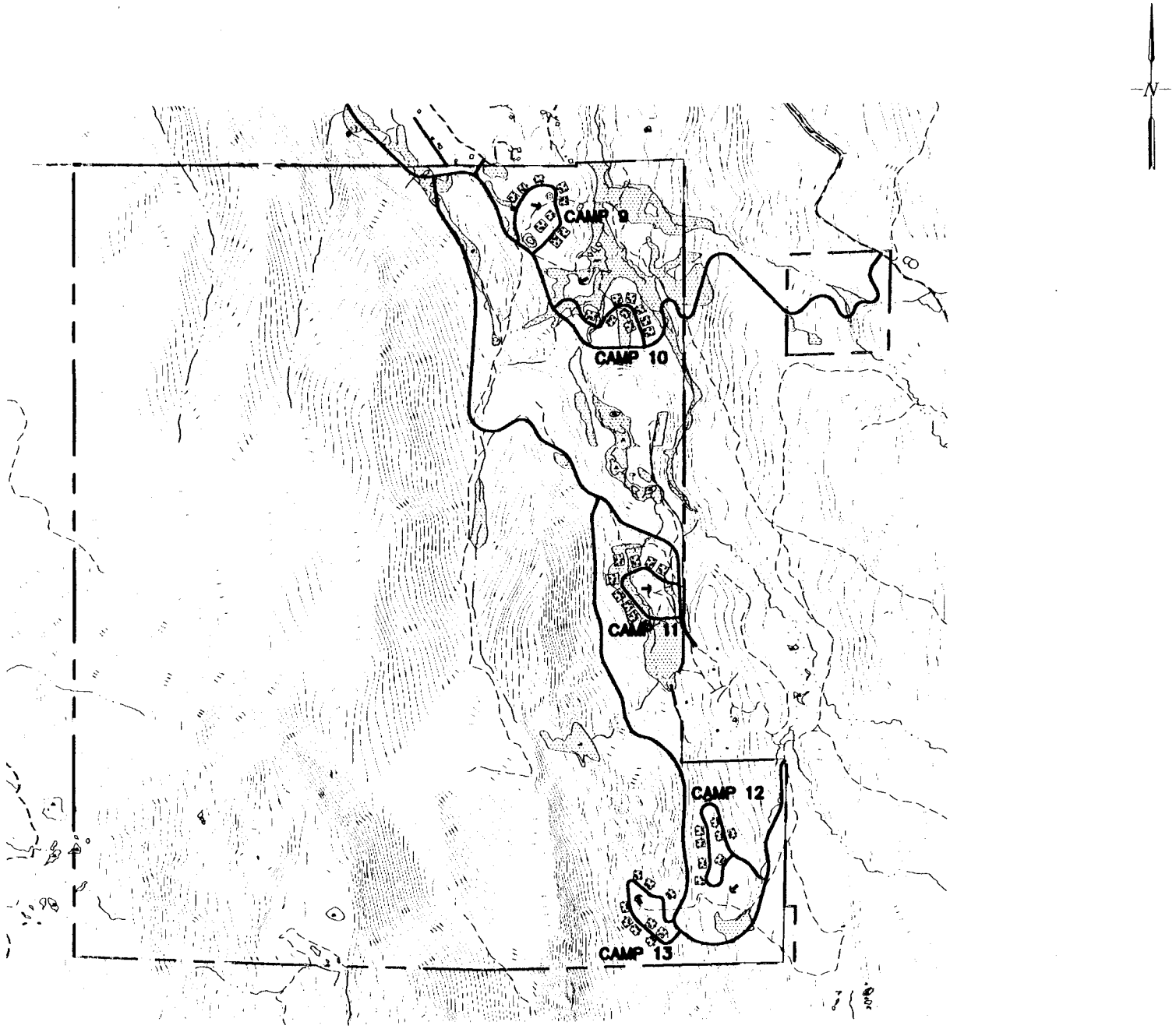
LDS HEBER VALLEY FAMILY/YOUTH CAMP

LOWER WETLANDS

SCALE : 1" = 3000'



NOTE:
UPPER CAMP AREA SHOWS POSSIBLE FUTURE EXPANSION – NOT INCLUDED IN PERMIIT APPLICATION.

LEGEND

- EXISTING ROAD/TRAIL
- R/W BOUNDARY
- ROAD IMPROVEMENTS
- STREAM/DRAINAGE
- WETLANDS
- SPRING
- TANK

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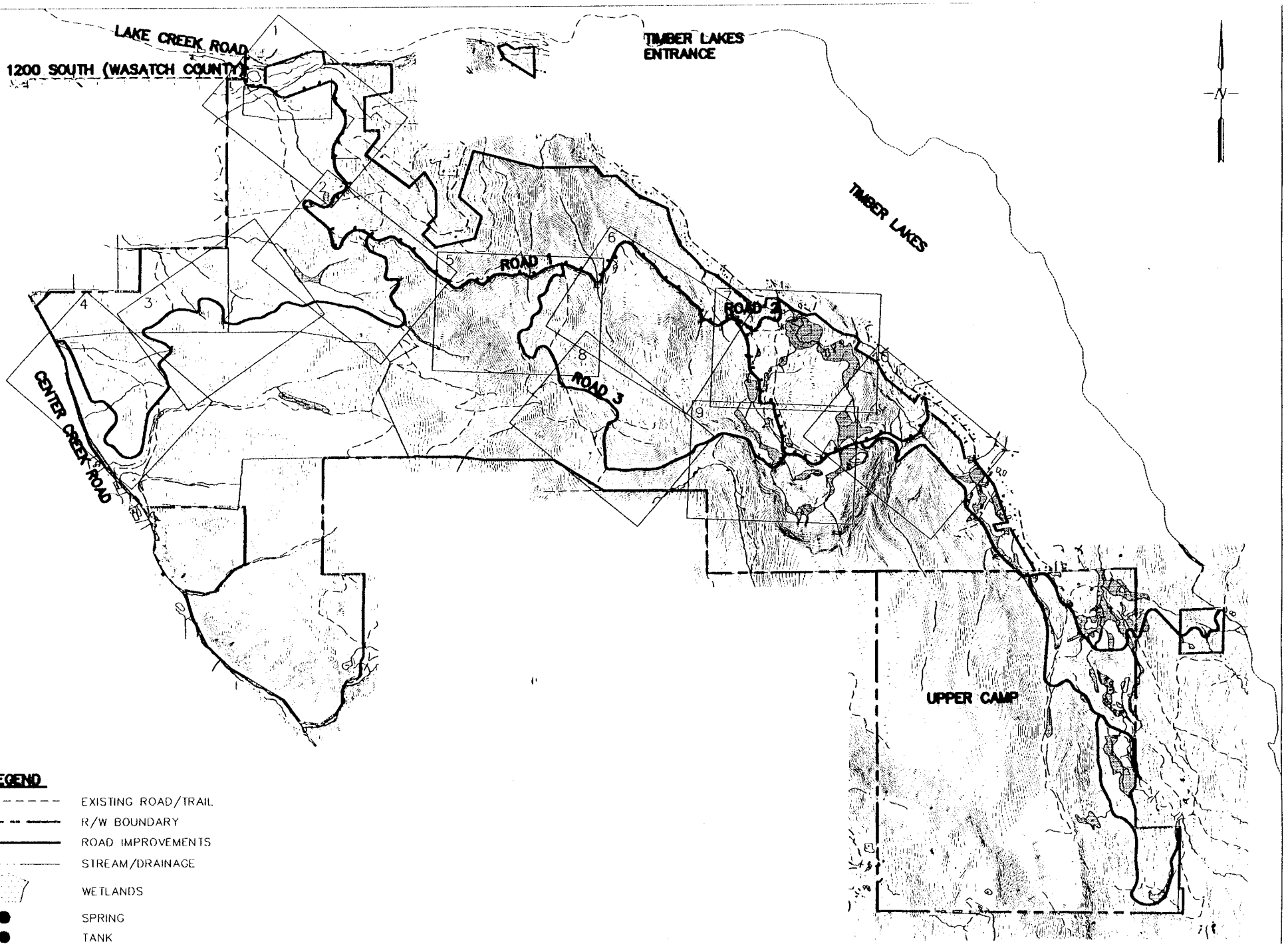
LDS HEBER VALLEY FAMILY/YOUTH CAMP

UPPER CAMP WETLANDS
SCALE : 1" = 2000'



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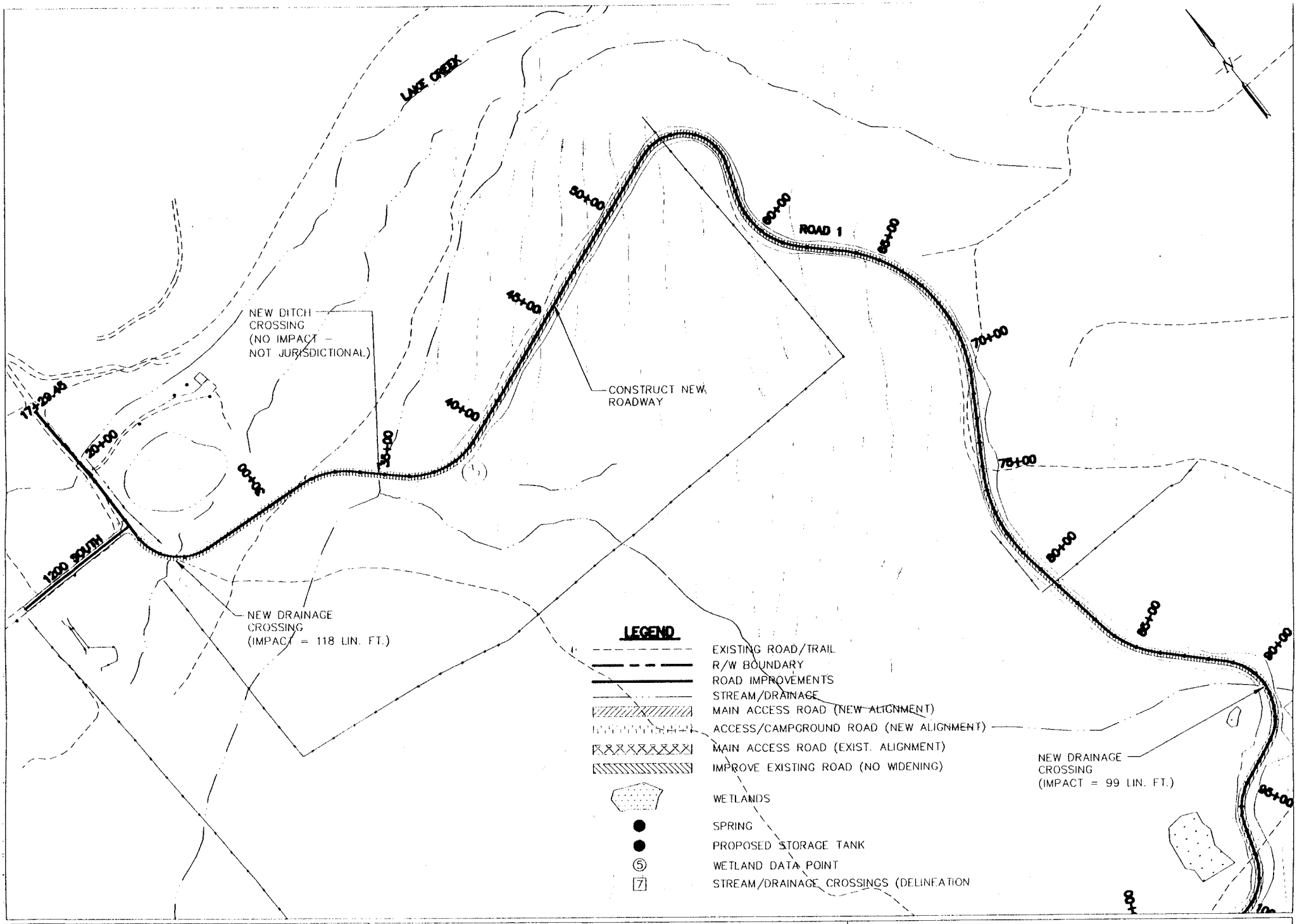
LDS HEBER VALLEY FAMILY/YOUTH CAMP

INDEX MAP

SCALE : 1" = 2000'



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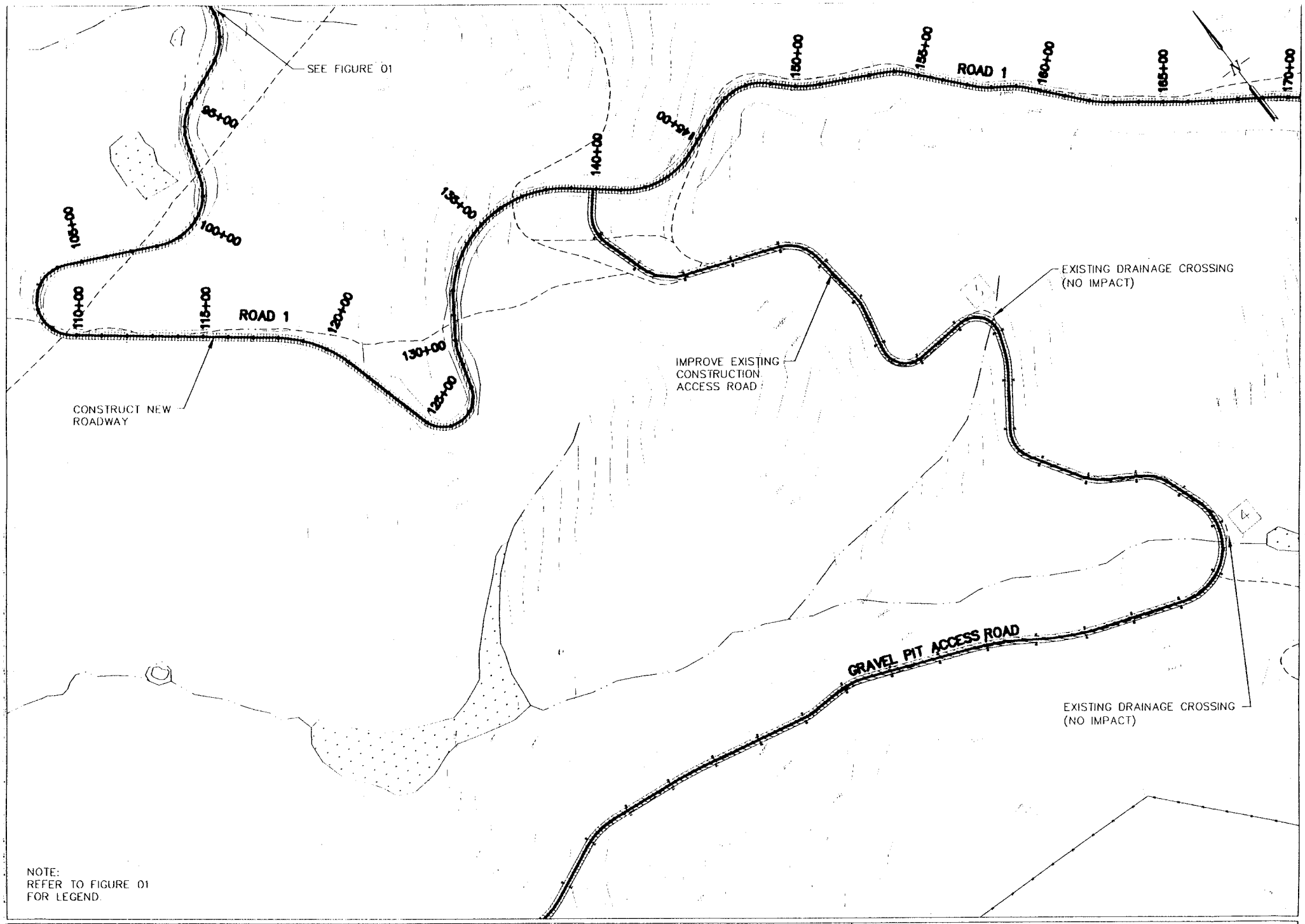
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 01
SCALE : 1" = 500'



NOTE:
REFER TO FIGURE 01
FOR LEGEND.

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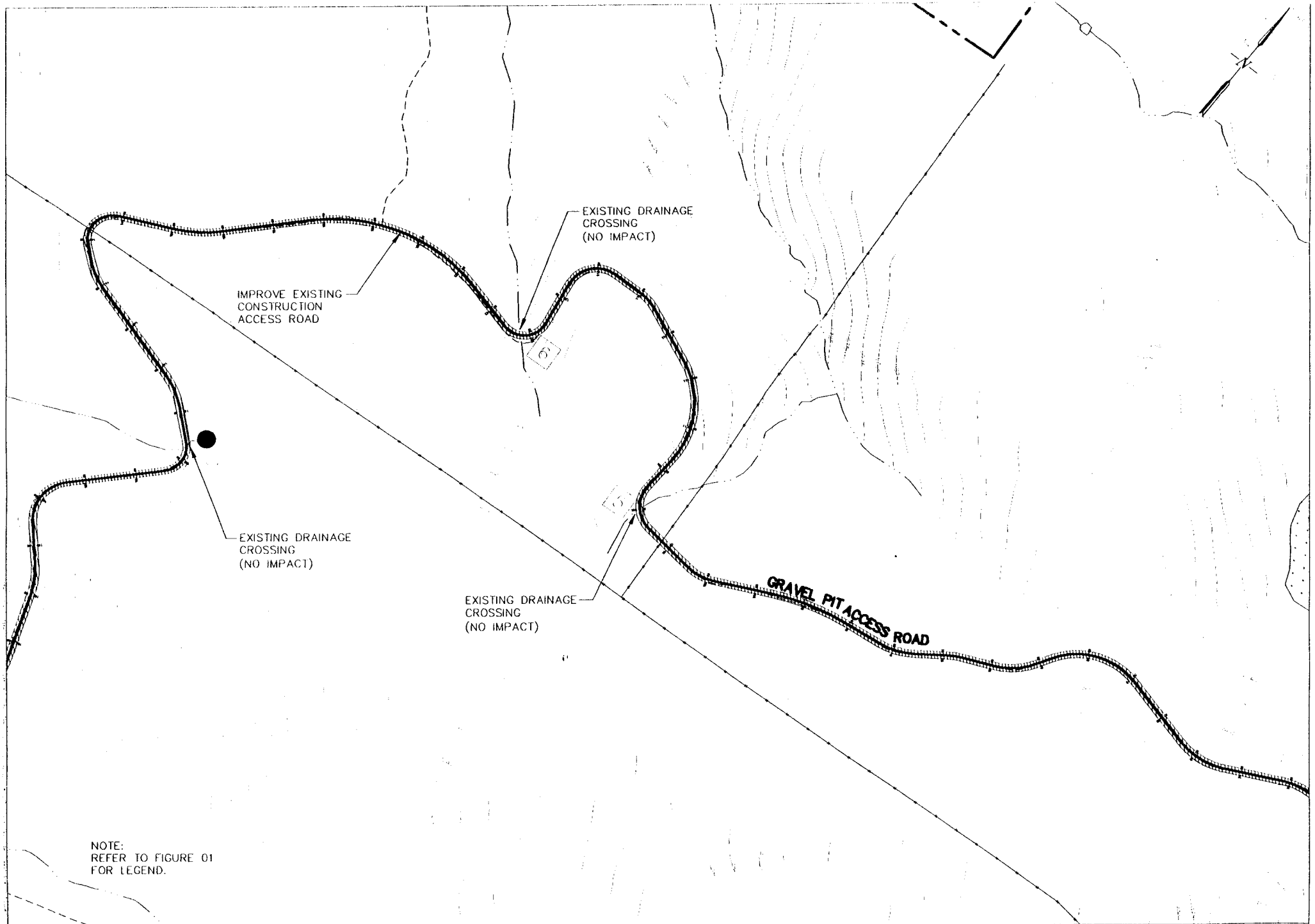
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 02
SCALE : 1" = 500'



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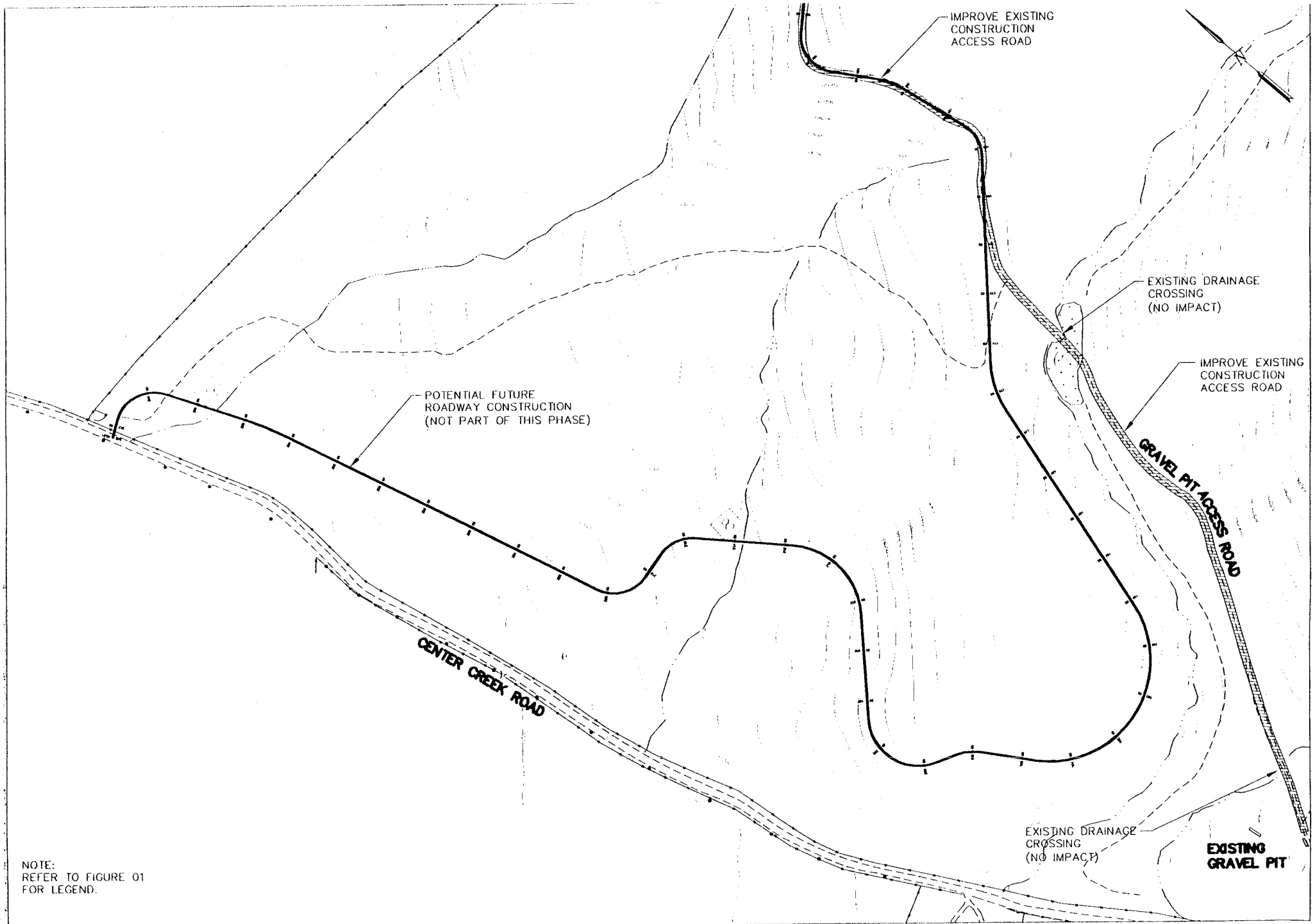
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 03
SCALE : 1" = 500'



NOTE:
REFER TO FIGURE 01
FOR LEGEND.

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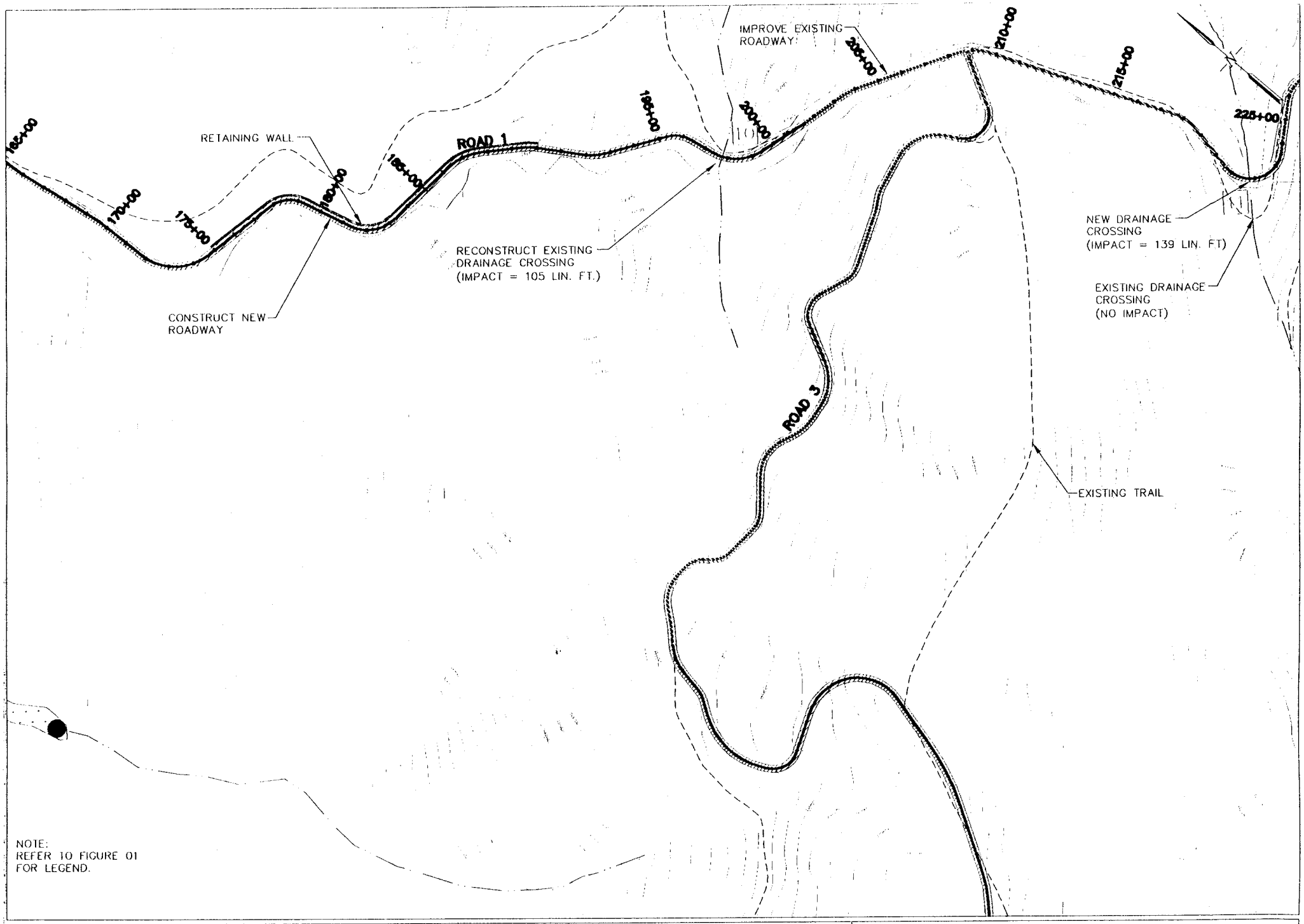
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 04
SCALE : 1" = 500'



NOTE:
REFER TO FIGURE 01
FOR LEGEND.

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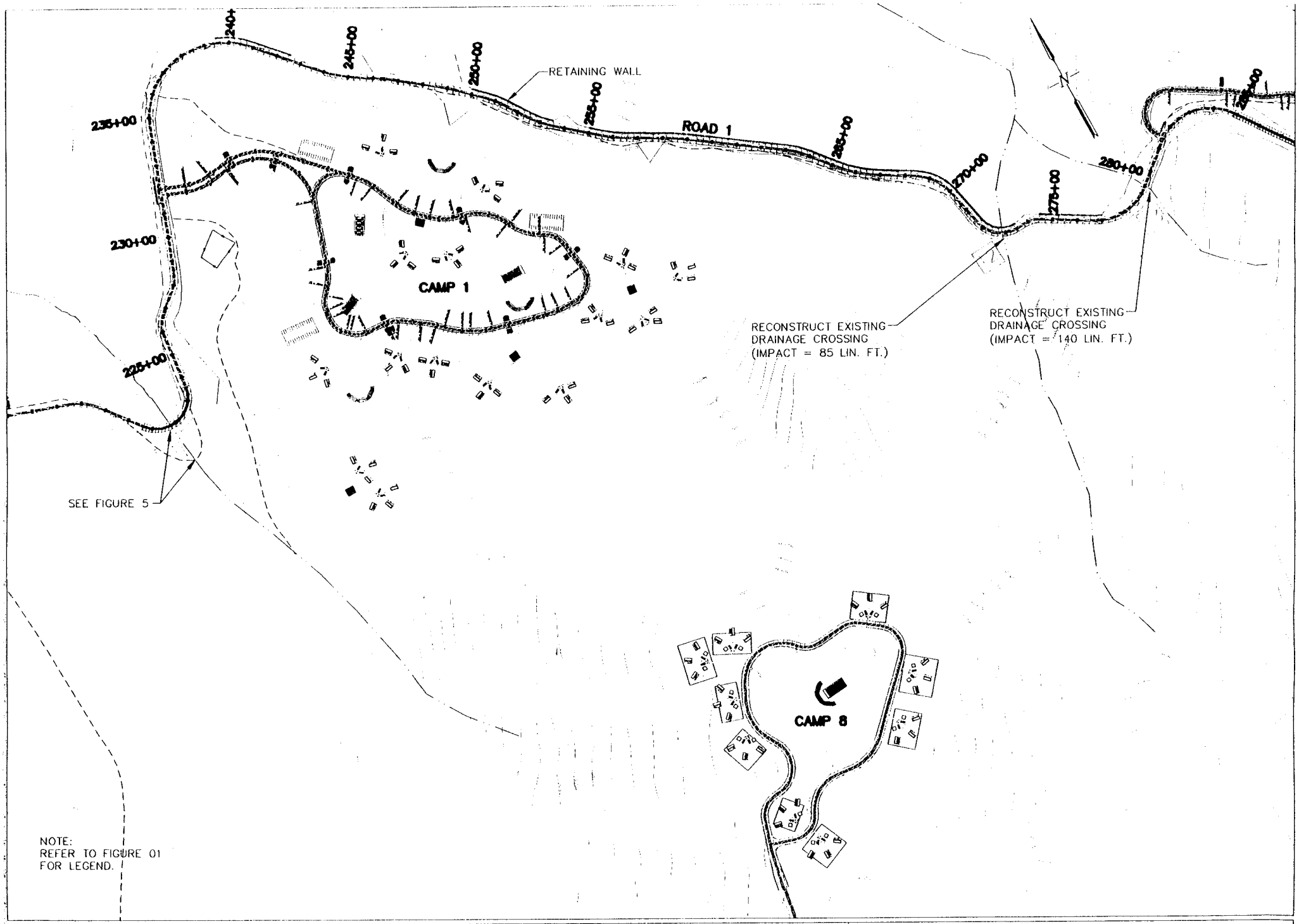
(801) [illegible]

LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 05
SCALE : 1" = 500'



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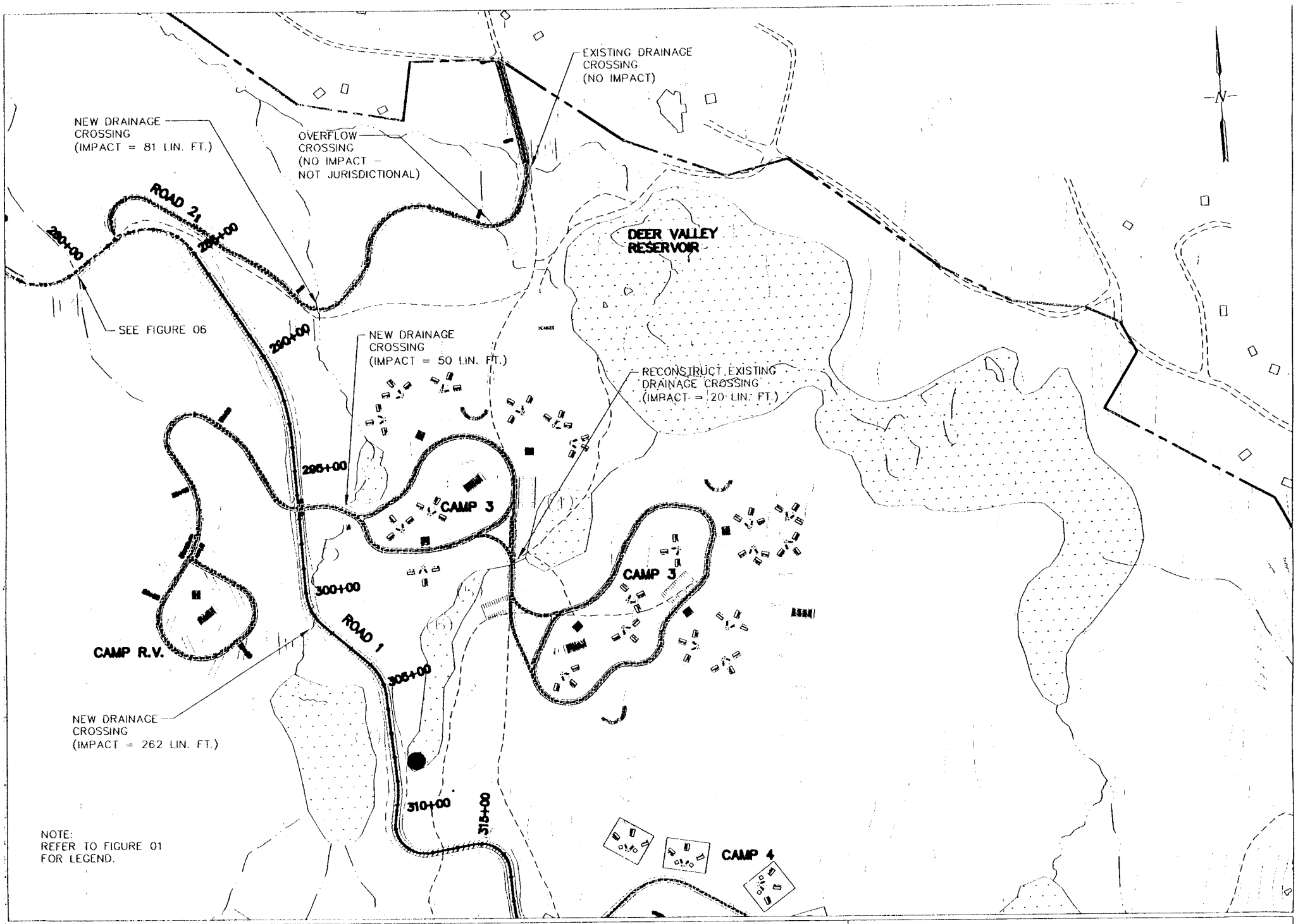
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 06
SCALE : 1" = 500'



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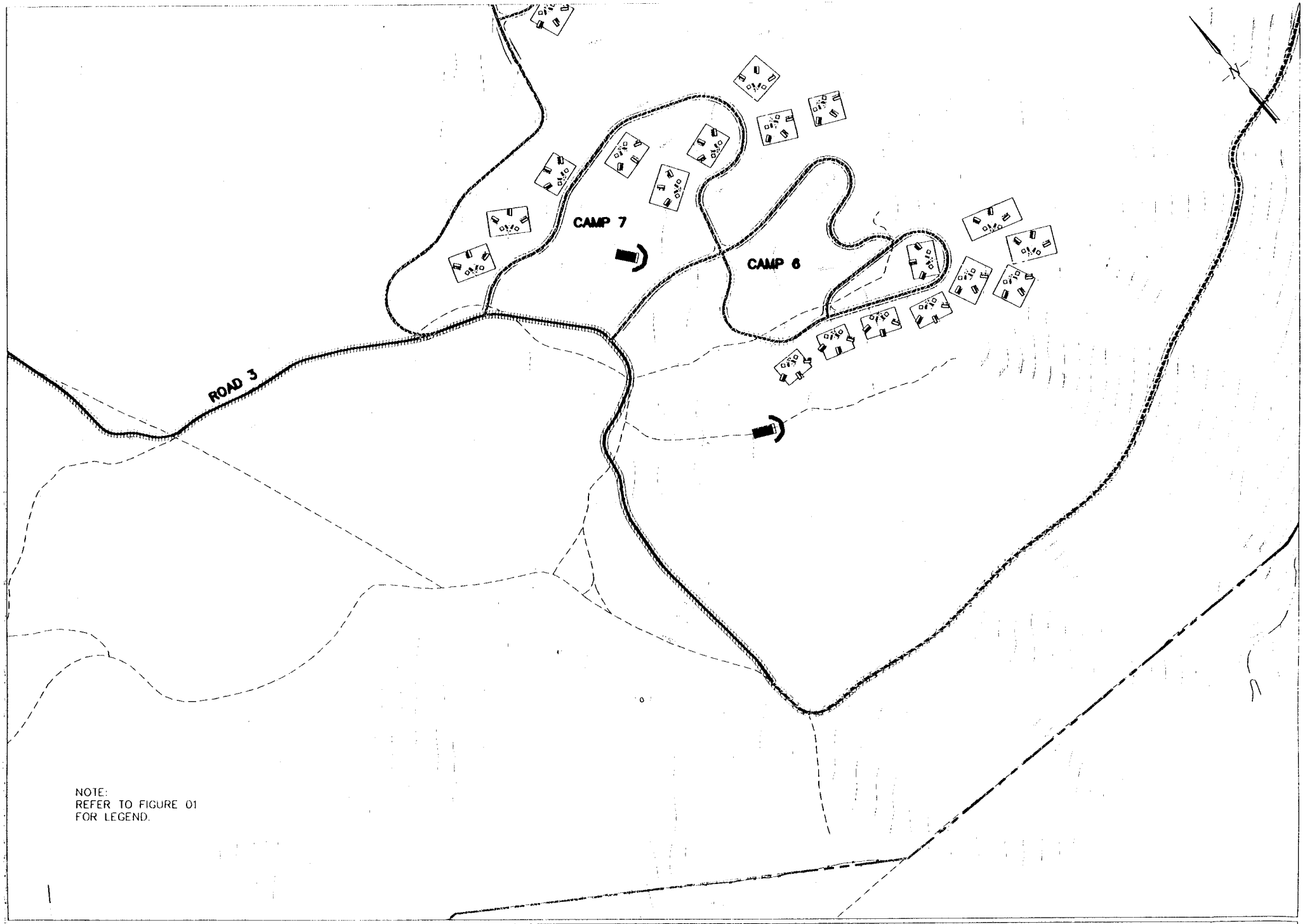
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURES 07

SCALE : 1" = 500'



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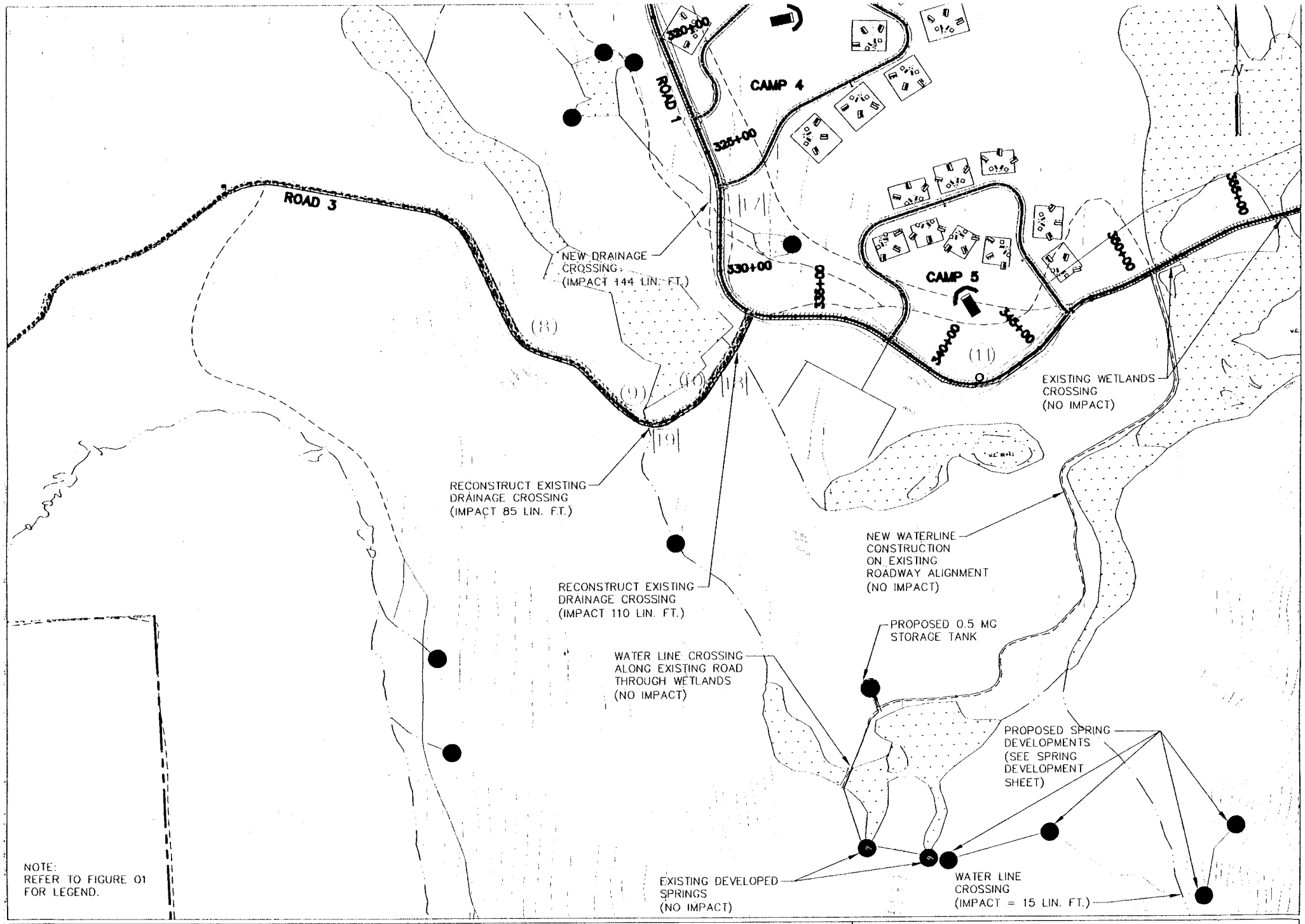
LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURES 08

SCALE : 1" = 500'

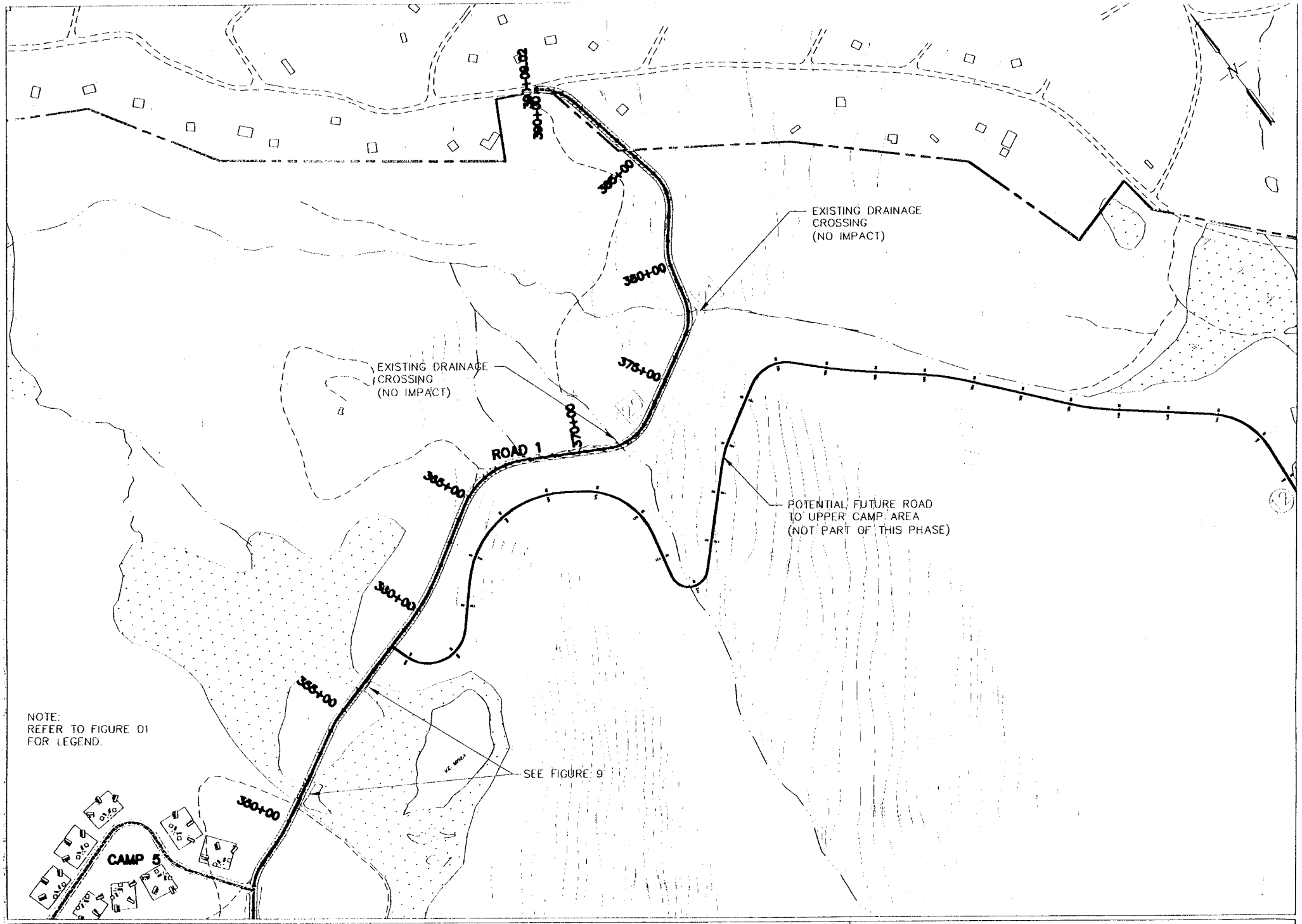


HORROCKS ENGINEERS

LDS HEBER VALLEY FAMILY/YOUTH CAMP

FIGURE 09

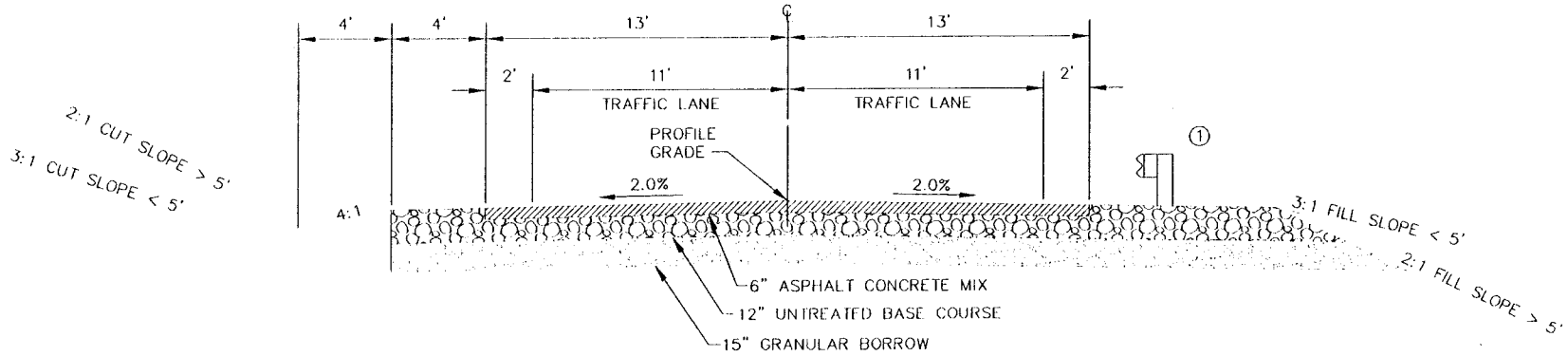
SCALE : 1" = 500'



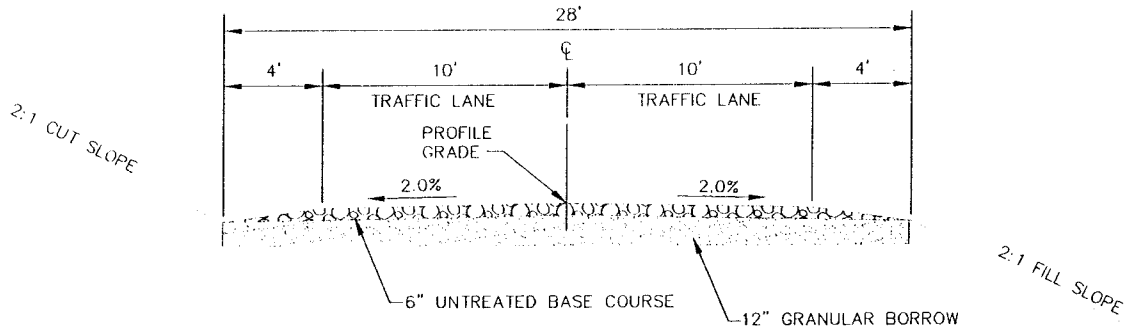
HORROCKS ENGINEERS

LDS HEBER VALLEY FAMILY/YOUTH CAMP

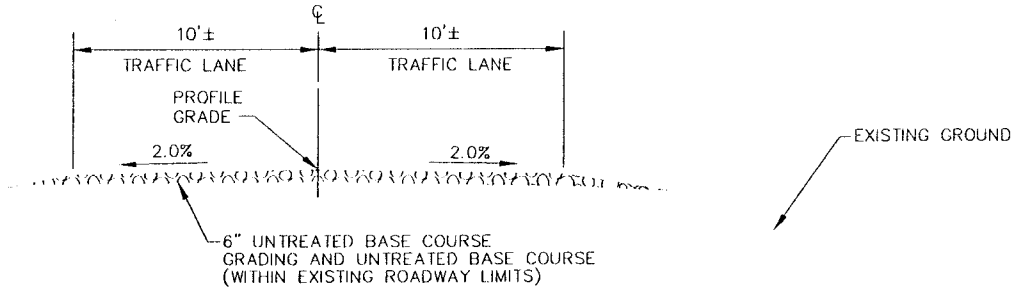
FIGURES 10
SCALE : 1" = 500'



MAIN ACCESS ROAD TYPICAL SECTION



ACCESS AND CAMPGROUND ROAD TYPICAL SECTION (NEW ALIGNMENT)



ACCESS AND CAMPGROUND ROAD TYPICAL SECTION (EXISTING ALIGNMENT)

HORROCKS ENGINEERS	LDS HEBER VALLEY FAMILY/YOUTH CAMP	**TYPICAL SECTIONS** SCALE : 1" = 2'-0"

NOTES:

ALL SEAMS IN LINER TO BE FOLDED OR WELDED TO PREVENT LEAKAGE. LINER COVER TO EXTEND MIN. 15' HORIZONTAL IN ALL DIRECTIONS FROM COLLECTION SYSTEM.

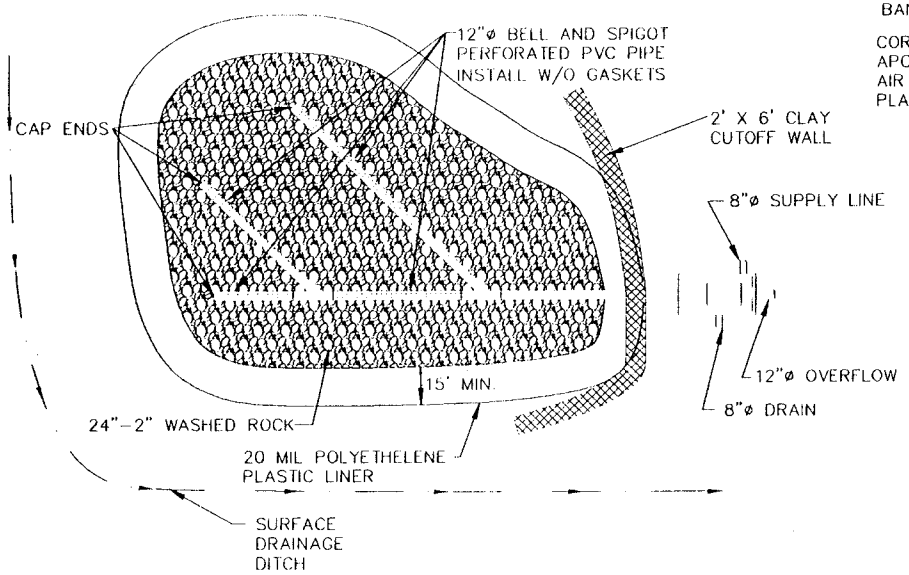
LINER SHALL BE ANSI CERIFIED TO COMPLY WITH ANSI/NSF STANDARD 61.

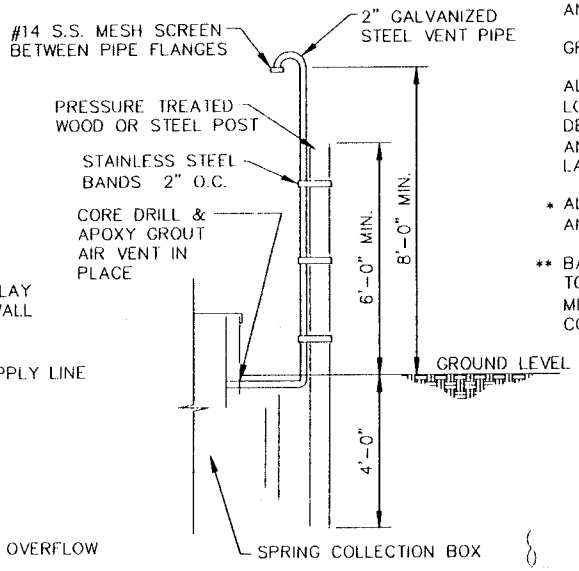
GRADE DRAINAGE AWAY FROM JUNCTION BOX.

ALL VEGETATION WHICH HAS A DEEP ROOT SYSTEM, LOCATED A DISTANCE OF 50' FROM SPRING COLLECTION DEVICES ON LAND AT AN ELEVATION EQUAL TO OR HIGHER, AND A DISTANCE 15' FROM SPRING COLLECTION DEVICES ON LAND AT AN ELEVATION LOWER, SHALL BE REMOVED.

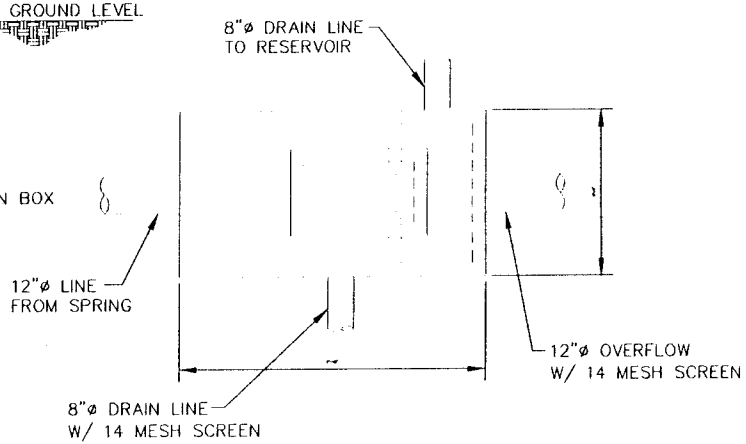
* ALL PVC PIPE MUST COMPLY WITH NSF STANDARD 61 AND BEAR THE LOGO "NSF-pw".

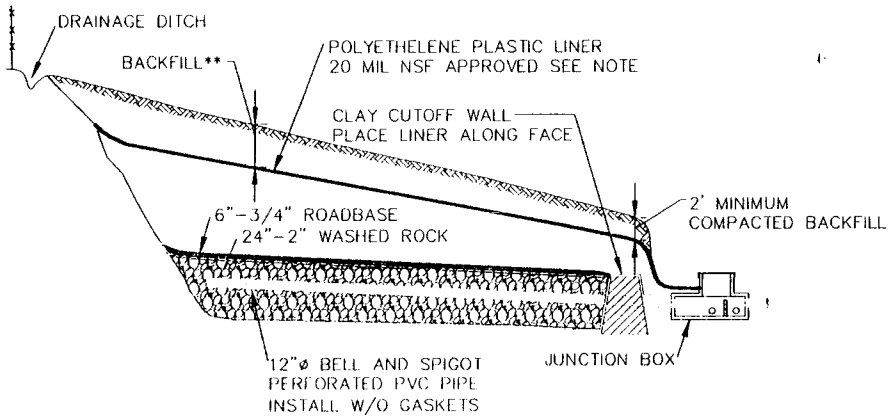
** BACKFILL TO BE SELECT IMPERVIOUS MATERIAL COMPACTED TO 95% OF OPTIMUM DRY DENSITY AND SHALL EXTEND A MINIMUM OF 15' IN ALL HORIZONTAL DIRECTIONS FROM SPRING COLLECTION DEVICES.



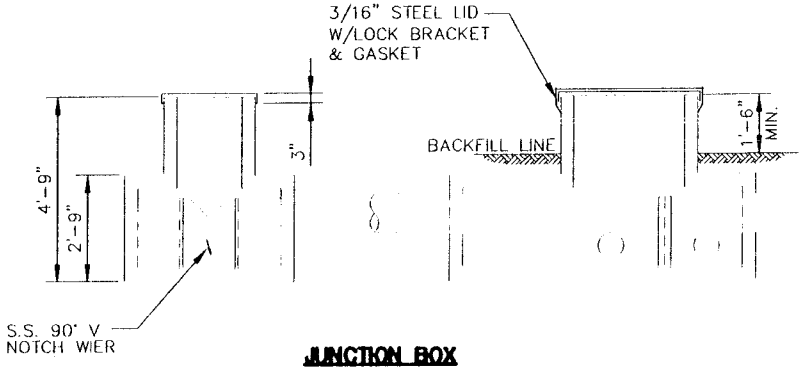


AIR VENT DETAIL





SECTION



JUNCTION BOX

HORROCKS ENGINEERS	**LDS HEBER VALLEY FAMILY/YOUTH CAMP**	**SPRING DEVELOPMENT** SCALE : 1" = XX'