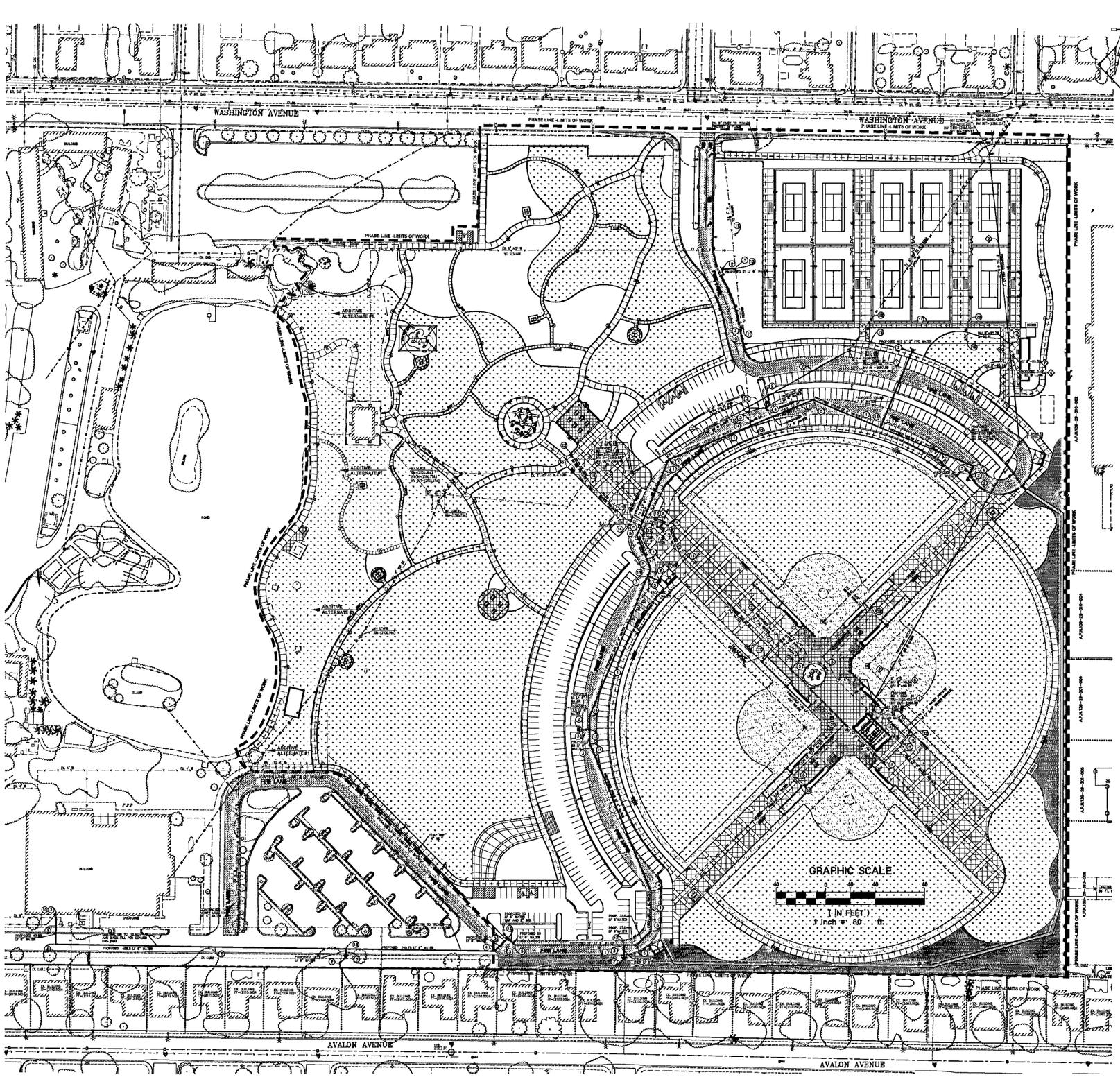
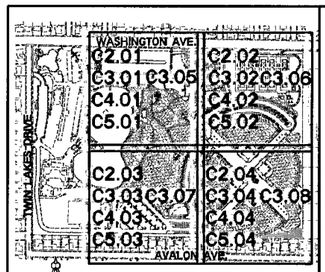
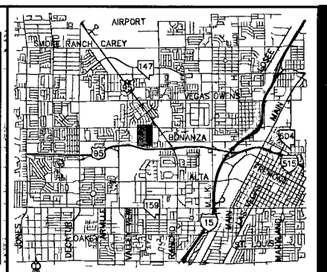




KEY MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

UTILITY NOTES:

EXISTING SITE UTILITIES HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO EXERCISE CAUTION DURING ALL EXCAVATION OPERATIONS TO AVOID IMPACT TO EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE TO ADJUST ALL EXISTING MANHOLES, CLEAN-OUTS, VAULTS, VALVES, BOXES AND ANY RELATED UTILITY IMPROVEMENTS ENCOUNTERED DURING CONSTRUCTION.

ALL WATER, SANITARY SEWER AND STORM DRAIN IMPROVEMENTS SHALL CONFORM TO THE LATEST VERSION OF UDACS, DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND APPLICABLE CITY OF HENDERSON STANDARDS AND GUIDELINES.

1. ALL ON-SITE WATER LINES 4" - 12" TO BE CL 150, C900 PVC. ALL ON-SITE WATER LINES GREATER THAN 12" TO BE D.I.P. ALL ON-SITE WATER LINES SMALLER THAN 4" TO BE COPPER OR POLY.

2. ALL GRAVITY SANITARY SEWER LINES TO BE SDR-35 PVC. ALL FORCE MAIN SANITARY SEWER LINES TO BE SCH. 40 PVC.

3. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITY STUBS PRIOR TO CONSTRUCTION.

4. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANNOGE BOX, FH, TEL BOX, ETC.)

5. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: _____ DATE: _____

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

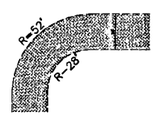
THIS PROPERTY IN WITHIN PRESSURE ZONE 2300 AND MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 psi. THE UNIFORM PLUMBING CODE REQUIRED THAT INDIVIDUAL (PRIVATE), PRESSURE VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 psi. PRV's ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.
ESN.041 REVISED 06/01/04
CONTRACTOR TO VERIFY THE NEED AND PLACEMENT OF PRESSURE VALVES (PRV)

WATER CONSTRUCTION NOTES:

1. INSTALL 8" PVC WATERLINE (C900, CL150)
2. INSTALL FIRE HYDRANT AND VALVE ASSEMBLY PER U.D.A.C.S. PLATE #7 (WHERE FEASIBLE USE EXISTING HYDRANTS REMOVED DURING DEMOLITION)
3. INSTALL GATE VALVE, SAME SIZE AS LINE, PER UDACS PLATE NO. 3
4. INSTALL 90° BEND W/ THRUST BLOCK (SAME SIZE AS MAIN)
5. INSTALL 45° BEND W/ THRUST BLOCK (SAME SIZE AS MAIN)
6. PROVIDE WATER/SEWER CROSSINGS AND CLEARANCES PER U.D.A.C.S. SECTION 2.19
7. CONNECT TO EX. IRRIGATION, COORDINATE WITH LANDSCAPE PLANS.
8. INSTALL 3" GATE VALVE.
9. INSTALL 3" PVC WATERLINE (C900, CL150).
10. INSTALL WET TAP AND TAPPING SLEEVE SAME SIZE AS PIPE PER UDACS PLATE NO. 22.
11. INSTALL 6" CAP AND 2" BLOW OFF PER UDACS PLATE NO. 4A.
12. INSTALL 6"x3" TEE PER UDACS PLATE NO. 5.
13. INSTALL 6"x6" TEE PER UDACS PLATE NO. 5.
14. INSTALL 22 1/2° BEND W/ THRUST BLOCK (SAME SIZE AS MAIN)
15. CONNECT TO EXISTING 6" WATER.
16. INSTALL 11 1/4° BEND W/ THRUST BLOCK (SAME SIZE AS MAIN)
17. EX. WATER TO BE REMOVED.
18. INSTALL CAP. SEE PLUMBING PLANS FOR CONTINUATION.
19. INSTALL 3"x3/4" TEE.
20. INSTALL REDUCER.
21. INSTALL 3/4"x3/4" TEE.
22. INSTALL DRINKING FOUNTAIN PER DETAIL "N" C6.02.
23. INSTALL 6" 45° VERTICAL BEND WITH 6" DIP WATER LINE.

SEWER CONSTRUCTION NOTES:

1. INSTALL 48" MANHOLE PER DCSWCS SD-10
2. INSTALL 8" (PRIVATE SS MAIN)
3. EX. SS AND/OR MANHOLE TO BE REMOVED.
4. INSTALL 6" (PRIVATE SS)
5. INSTALL 6" CLEAN OUT PER DETAIL SHT. C5.02
6. INSTALL "Y" TYPE SEWER LATERAL CONNECTION.
7. INSTALL CAP. SEE PLUMBING PLANS FOR CONTINUATION.



FIRE ACCESS LANE
DETAIL – TYP. 24' WIDE

NOTE:
ALL WATER MAINS TO BE MIN. 48" DEEP.

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.

RECORD DRAWINGS
NOT FOR CONSTRUCTION

1. TO ALTER THESE DOCUMENTS FOR ANOTHER PROJECT BY ANYONE OTHER THAN THE ORIGINAL ARCHITECT IS A VIOLATION OF NRS 623.
2. THIS RECORD DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY THE GENERAL CONTRACTOR, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY, AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.
3. INFORMATION THAT MAY BE INCLUDED WOULD BE SIGNIFICANT CHANGES TO PLANTING OR IRRIGATION LAYOUT PLANS AND ASSOCIATED DRAWINGS, MINOR DIMENSION OR CONSTRUCTION DETAIL CHANGES MAY NOT BE INCLUDED.

A.P.N.:
139-29-301-003 contains 59.93Ac.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE NORTH LINE OF THE NE 1/4, SECTION 2, T.21 S., R.60 E., M.D.M., AS SHOWN IN FILE 67, PAGE 37, OF RECORDED PARCEL MAPS, CLARK COUNTY, NEVADA, RECORDS.
SAID LINE BEARS N89°40'47"E.

BENCHMARK:
2LV01 29W4 BEING A RIVET & PLATE IN TOP OF CURB, SOUTHEAST CORNER OF WASHINGTON AND TWIN LAKES DRIVE. ELEVATION= 2127.56 NVDD '88, METERS = 648.4803

SAFETY ALERT
Avoid cutting underground utility lines. It's costly.
Call Before You Overhead 1-702-455-7511
Call before you UnderGround 1-702-432-5300
CLARK COUNTY DIRECT OVERHEAD LINE
LVS KING AREA COMPUTERED DATE 2008
Call before you Dig 1-702-227-2929 1-800-227-2600

LEGEND			
CL OR SURVEY LINE	EASEMENT LINE	HEAVY AC PVMT.	
PROPERTY LINE	SAWCUT LINE	LIGHT AC PVMT.	
ROW LINE	SCARP LINE	CONCRETE PVMT.	

DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION
EXISTING:	(2210)								12.34 BC		S
PROPOSED:	2210								12.34 BC		S

MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
S = SANITARY SEWER									
D = STORM DRAIN									
E = ELECTRICAL									
T = TELEPHONE									

REVISIONS	
07-10-09	Record Drawing

CONSULTANT

LOCHSA ENGINEERING
6345 S. JONES BLVD., SUITE 100
LAS VEGAS, NV 89118
PHONE: (702) 365-9317

Lorenzi Park Renovations
Phase 1
MASTER UTILITY PLAN

STAMP

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-6535
FAX: (702) 384-8646
TDD: (702) 386-9108

DRAWN	B.T.
FILE	061192
DATE	JULY 2009
SCALE	1"=80'
BID NO	07.153.14.01
CLV DWG NO	650.19-47
SHT NO	C5.00

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