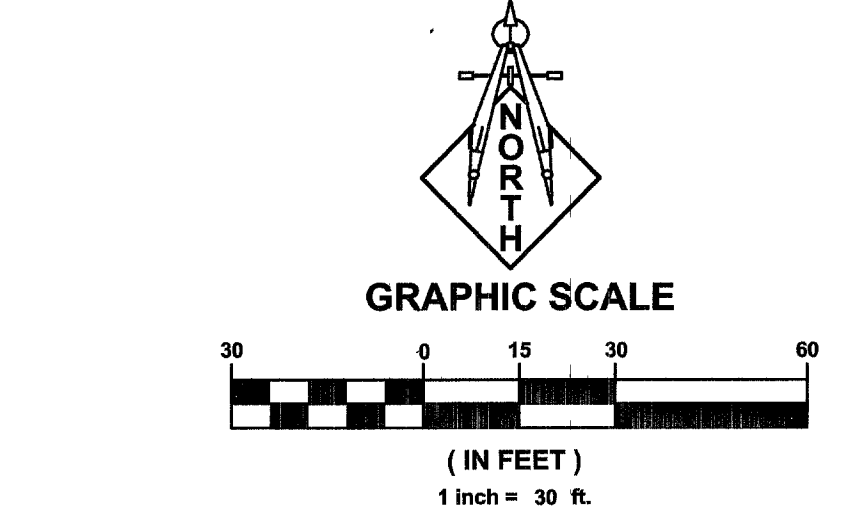
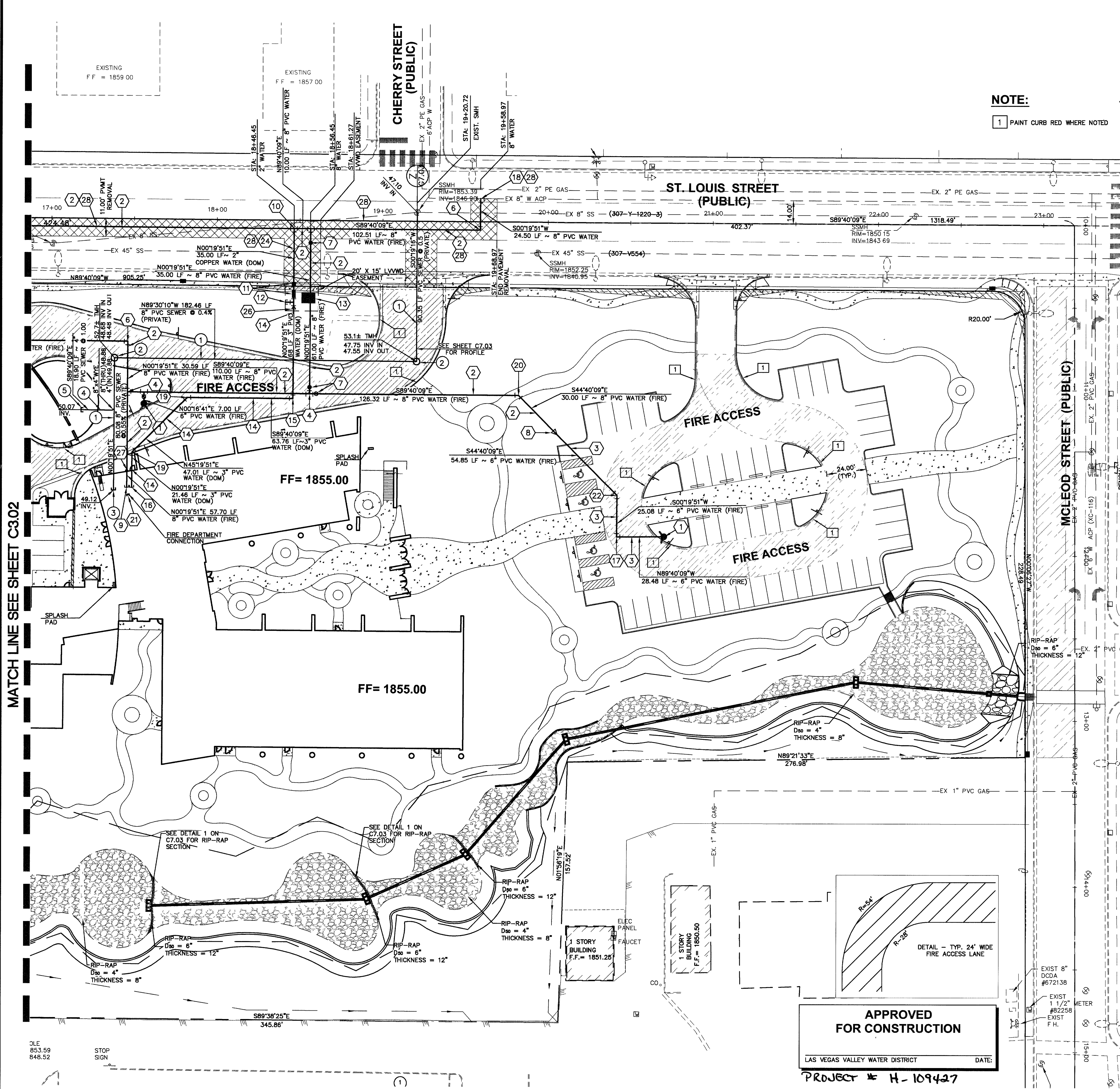




NOTE:
1 PAINT CURB RED WHERE NOTED

UTILITY NOTES:

1. ALL ON-SITE WATER LINES 4" - 12" TO BE CL. 200, 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 SCH. 40 PVC.
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, ANNODE BOX, FH, TEL. BOX, ETC.).
5. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

REDUCED PRESSURE PRINCIPLE ASSY. (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO.114. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY- (2) 8"

THE DOUBLE DETECTOR CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO.114. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

SEWER CONSTRUCTION NOTES (PRIVATE)

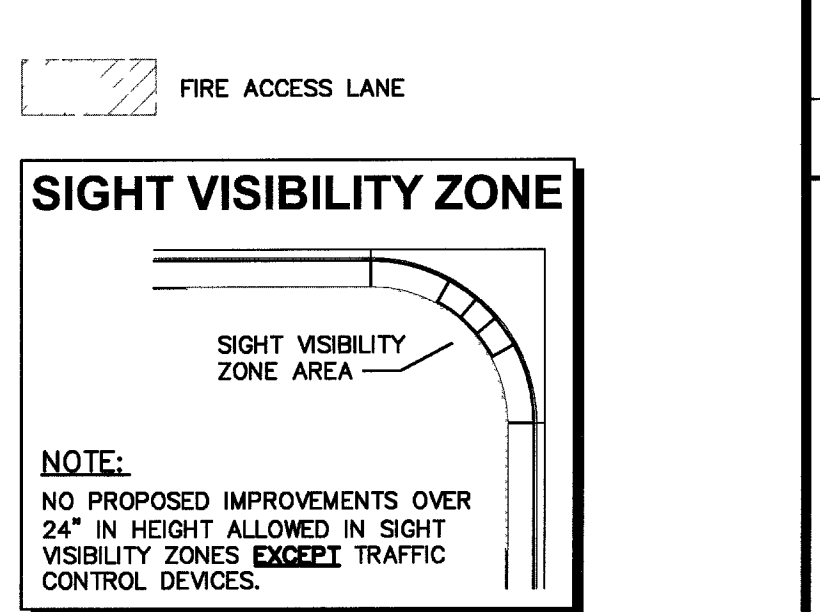
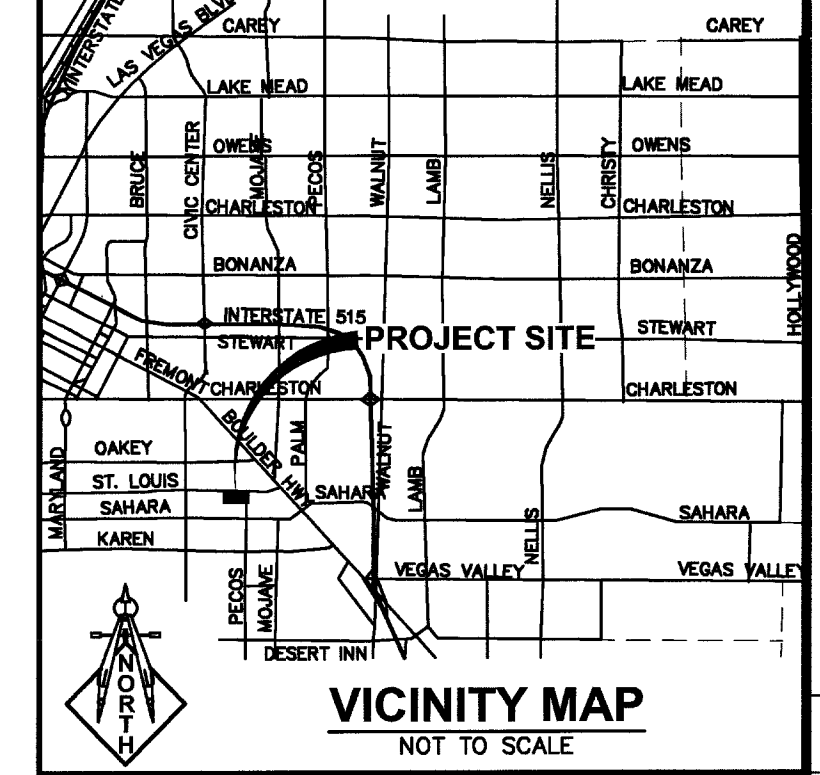
- 1 8" PVC SEWER MAIN 326 LF
- 2 4" DIA. STANDARD ECCENTRIC MANHOLE PER C.C.S.W.C. SD-1 2 EA
- 3 8" CAP 1 EA
- 4 4" SEWER PIPE 19 LF
- 5 4" CAP 1 EA

WATER CONSTRUCTION NOTES (PRIVATE)

- 1 INSTALL FIRE HYDRANT AND ASSEMBLY PER UDACS PLATE NO. 7. 3 EA
- 2 INSTALL 8" PVC WATER MAIN (C900, CL200) 758 LF
- 3 INSTALL 6" PVC WATER MAIN (C900, CL200) 220 LF
- 4 INSTALL 8"x8" TEE & THRUST BLOCK PER UDACS PLATE NO. 5 3 EA
- 5 INSTALL 8"x6" TEE & THRUST BLOCK PER UDACS PLATE NO. 5 1 EA
- 6 INSTALL 8" - 90° BEND 1 EA
- 7 INSTALL 8" GATE VALVE 4 EA
- 8 INSTALL 8"x 6" REDUCER 2 EA
- 9 INSTALL 8" CAP 1 EA
- 10 INSTALL 2"x 1-1/2" TEE & STUB FOR LANDSCAPE CONNECTION LANDSCAPE TO INSTALL 1-1/2" RPPA 1 EA
- 11 INSTALL 8" DDOA PER UDACS PLT. #110, USE FESCO MODEL 878 "N-SHAPED" OR APPROVED EQUIVALENT 2 EA
- 12 INSTALL 3" PVC WL. (DOMESTIC) 221 LF
- 13 INSTALL 3" - 90° BEND 1 EA
- 14 INSTALL 3" CAP 1 EA
- 15 INSTALL 6" - 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 5 2 EA
- 16 INSTALL 3" - 45° BEND 1 EA
- 17 INSTALL 8" - 45° BEND 1 EA
- 18 INSTALL 6" - 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 5 1 EA
- 19 INSTALL 6" GATE VALVE 1 EA
- 20 INSTALL 3"x 2" REDUCER 1 EA
- 21 INSTALL PIV (POST INDICATOR VALVE) WITH ELECT. MONITOR 1 EA

WATER CONSTRUCTION NOTES (PUBLIC)

- 2 INSTALL 8" PVC WATER MAIN (C900, CL150) 1026 LF
- 4 INSTALL 8"x8" TEE & THRUST BLOCK PER UDACS PLATE NO. 5 2 EA
- 6 INSTALL 8" - 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 5 1 EA
- 7 INSTALL 8" GATE VALVE 3 EA
- 10 INSTALL SERVICE SADDLE & CORP. STOP SERVICE CONNECTION TO BE TYPE "K" COPPER PER UDACS PLT #10 1 EA
- 11 INSTALL 2" METER PER UDACS PLT. #10 & 2" RPPA PER U.D.A.C.S. PLT. #11A 1 EA
- 18 WET TAP W/8" x8" MJ TAPPING SLEEVE W/8" TAPPING VALVE PER UDACS PLT 22 1 EA
- 24 INSTALL 2" TYPE "K" COPPER PIPE 35 LF
- 28 TRENCH BACKFILL W/FLOWABLE BACKFILL PAVED AREAS (STREETS GREATER THAN 60' R/W) - PER UDACS DWG. NO. 504 8844 SF



NOTE: THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN QUANTITY TAKE-OFF. QUANTITIES LISTED ON THIS DRAWING ARE FOR REFERENCE ONLY.

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

PROPERTY SITUATED IN PRESSURE ZONE
2055 STATIC WATER PRESSURE 86.69 psi

NOTE:
1) REFERENCE UDACS SECTION 2.19 FOR MINIMUM CLEARANCES AT STORM/SEWER/WATER CLEARINGS.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2750 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

BASED ON:	
SQUARE FOOTAGE:	65,706 SF
LARGEST AREA BETWEEN SEPARATION WALL:	N/A
BUILDING HEIGHT:	37'- 6" (2-STY)
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	II N
OCCUPANCY:	B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	☒ YES ☐ NO
REVIEWED BY:	DATE: 8/22/05
LAS VEGAS FIRE DEPT.	

NOTE:
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

A.P.N.:
162-01-402-006

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IN THE NORTH LINE OF THE SOUTHWEST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 81 EAST, N.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY THAT RECORD OF SURVEY ON FILE IN FILE 09 OF SURVEYS, PAGE 08 IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK:
CLV BM 6011 154
BEING A RIVET AND PLATE IN TOP OF CURB NE CORNER OF SAHARA AND MCLEOD
ELEVATION: 1853.32 FEET / 564.8927 METERS
(NAVD '88 DATUM)
Avoid cutting underground utility lines. It's costly.

SAFETY ALERT
Call before you Dig
1-800-227-2600
Call Before You Overhead
1-702-227-2929

LOCHSA ENGINEERING 6345 SOUTH JONES BOULEVARD, SUITE 100 LAS VEGAS, NV 89118 PHONE: (702) 365-9312, FAX: (702) 365-9317	
UTILITY PLAN	STATE OF NEVADA-SPWB#01-E01 Department of Employment, Training and Rehabilitation 2300 E. St. Louis Avenue, Las Vegas, NV 89104
DRAWN BY: SSS	DATE: 07/20/05
DESIGNED BY: EZ	DATE: 07/20/05
CHECKED BY: EZ	DATE: 07/20/05
PROJECT No: 7112	SCALE: 1"=30'
APPROVED FOR CONSTRUCTION LAS VEGAS VALLEY WATER DISTRICT DATE: PROJECT # H-109427	
LEGEND CL OR SURVEY LINE PROPERTY LINE 84272 ROW LINE EASEMENT LINE SAWCUT LINE SCARP LINE HEAVY AC P.W.M. LIGHT AC P.W.M. CONCRETE P.W.M. DESCRIPTION: EXISTING: PROPOSED: CONTOUR LINES EDGE OF PAVEMENT "A" TYPE CURBS "L" TYPE CURBS WALLS FENCES AC PAVEMENT CONCRETE SPOT ELEVATIONS SIGNS MANHOLE W/ DESCRIPTION MANHOLE DESCRIPTIONS ○ = SANITARY SEWER ● = STORM DRAIN ○ = ELECTRICAL ○ = TELEPHONE FIRE HYDRANTS GATE VALVES REDUCERS CLEAN OUTS UTILITY BOX OR VAULT 100W HPS STREETLIGHTS 150W HPS STREETLIGHTS 200W HPS STREETLIGHTS 250W HPS STREETLIGHTS	