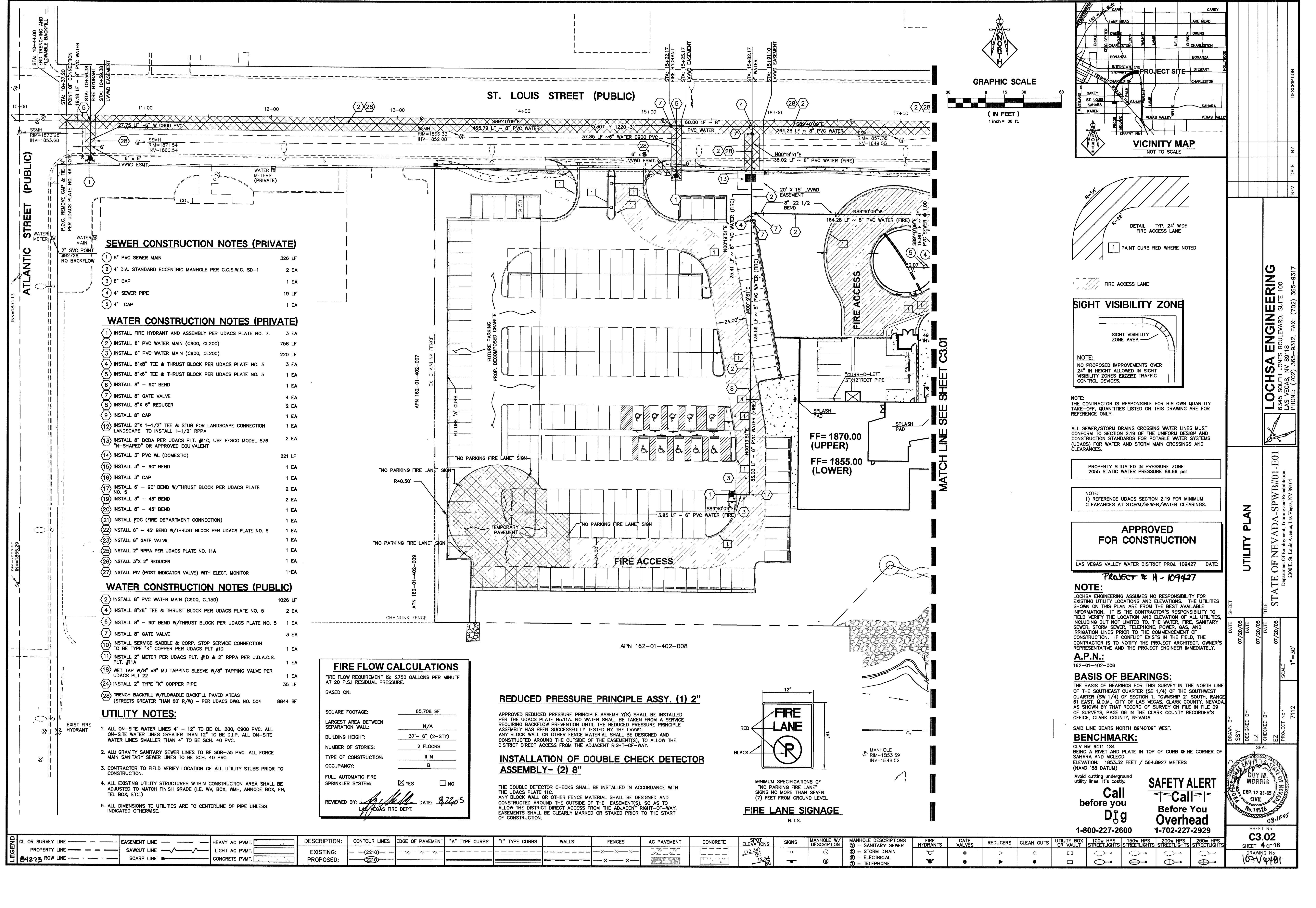




SEWER CONSTRUCTION NOTES (PRIVATE)

- 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
- 12 INSTALL 2"x 1-1/2" TEE & STUB FOR LANDSCAPE CONNECTION LANDSCAPE TO INSTALL 1-1/2" RPPA 1 EA
- 13 INSTALL 8" DCPA PER UDACS PLT. #11C, USE FESCO MODEL 876 "N-SHAPED" OR APPROVED EQUIVALENT 2 EA
- 14 INSTALL 3" PVC WL. (DOMESTIC) 221 LF
- 15 INSTALL 3" - 90° BEND 1 EA
- 16 INSTALL 3" CAP 1 EA
- 17 INSTALL 6" - 90° BEND W/THRUST BLOCK PER UDACS PLATE NO. 5 2 EA
- 19 INSTALL 3" - 45° BEND 2 EA
- 20 INSTALL 8" - 45° BEND 1 EA
- 21 INSTALL FDC (FIRE DEPARTMENT CONNECTION) 1 EA
- 22 INSTALL 6" - 45° BEND W/THRUST BLOCK PER UDACS PLATE NO. 5 1 EA
- 23 INSTALL 8" GATE VALVE 1 EA
- 25 INSTALL 2" RPPA PER UDACS PLATE NO. 11A 1 EA
- 26 INSTALL 3"x 2" REDUCER 1 EA
- 27 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

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.

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: *[Signature]* DATE: 8/22/05
LAS VEGAS FIRE DEPT.

REDUCED PRESSURE PRINCIPLE ASSY. (1) 2"

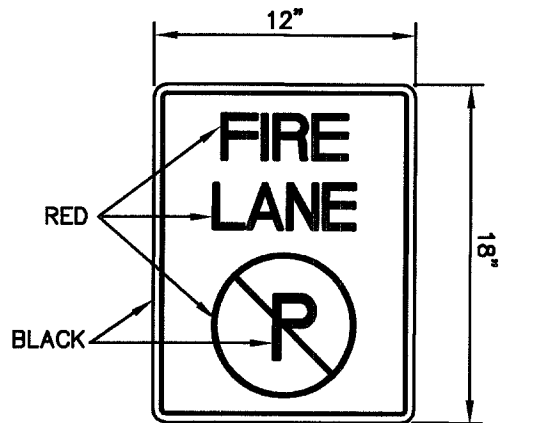
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO.11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

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"

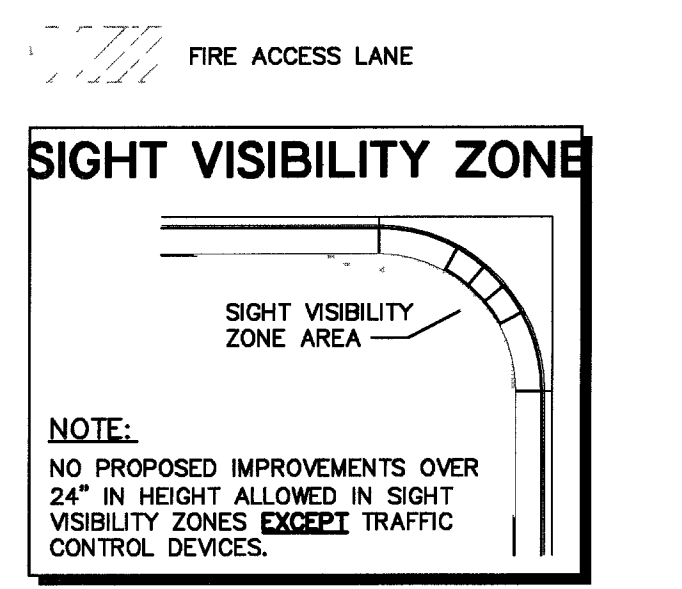
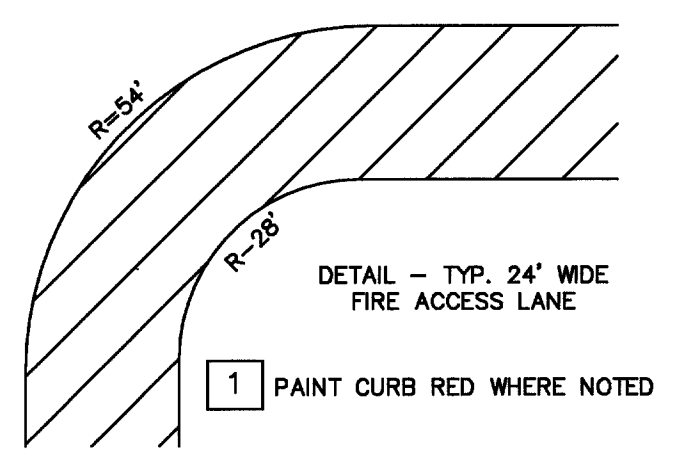
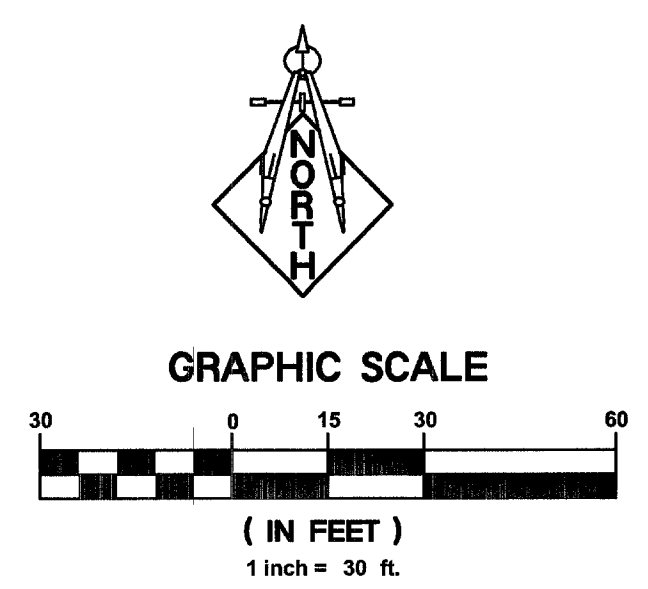
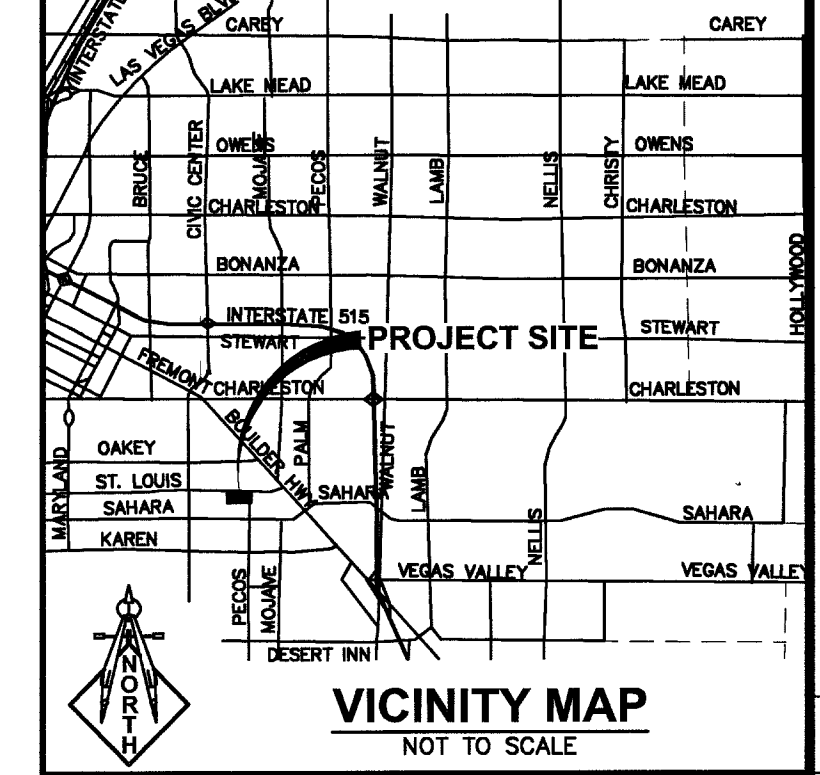
THE DOUBLE DETECTOR CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 11C.

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.



MINIMUM SPECIFICATIONS OF "NO PARKING FIRE LANE" SIGNS NO MORE THAN SEVEN (7) FEET FROM GROUND LEVEL

FIRE LANE SIGNAGE N.T.S.



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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PROJ. 109427 DATE: PROJECT # 11-109427

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.: 162-01-402-008

BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS SURVEY IN THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 81 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY THAT RECORD OF SURVEY ON FILE IN FILE 09 OF SURVEYS, PAGE 06 IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

SAID LINE BEARS NORTH 89°40'09" WEST.

BENCHMARK: CLV BM 6C11 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.

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
DESIGNED BY: EZ
CHECKED BY: EZ
PROJECT NO.: 7112
SCALE: 1"=30'

DATE: 07/20/05
DATE: 07/20/05
DATE: 07/20/05

SHEET No. C3.02
SHEET 4 of 16
DRAWING No. 107V4481