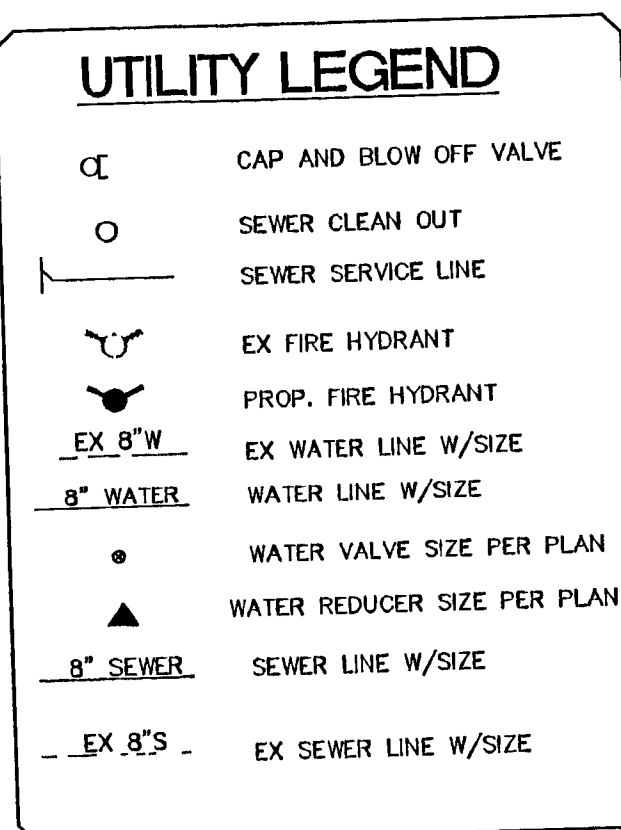
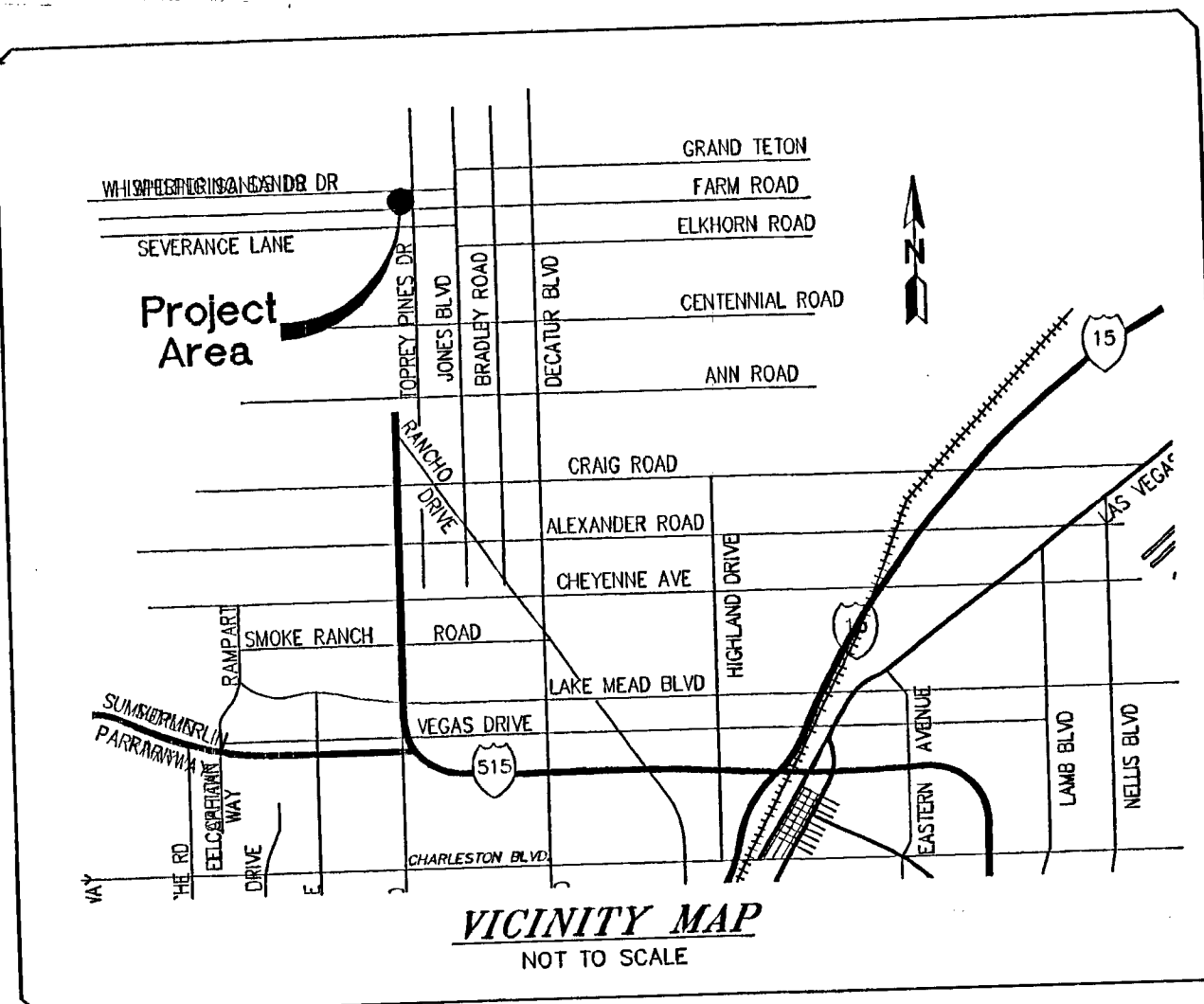
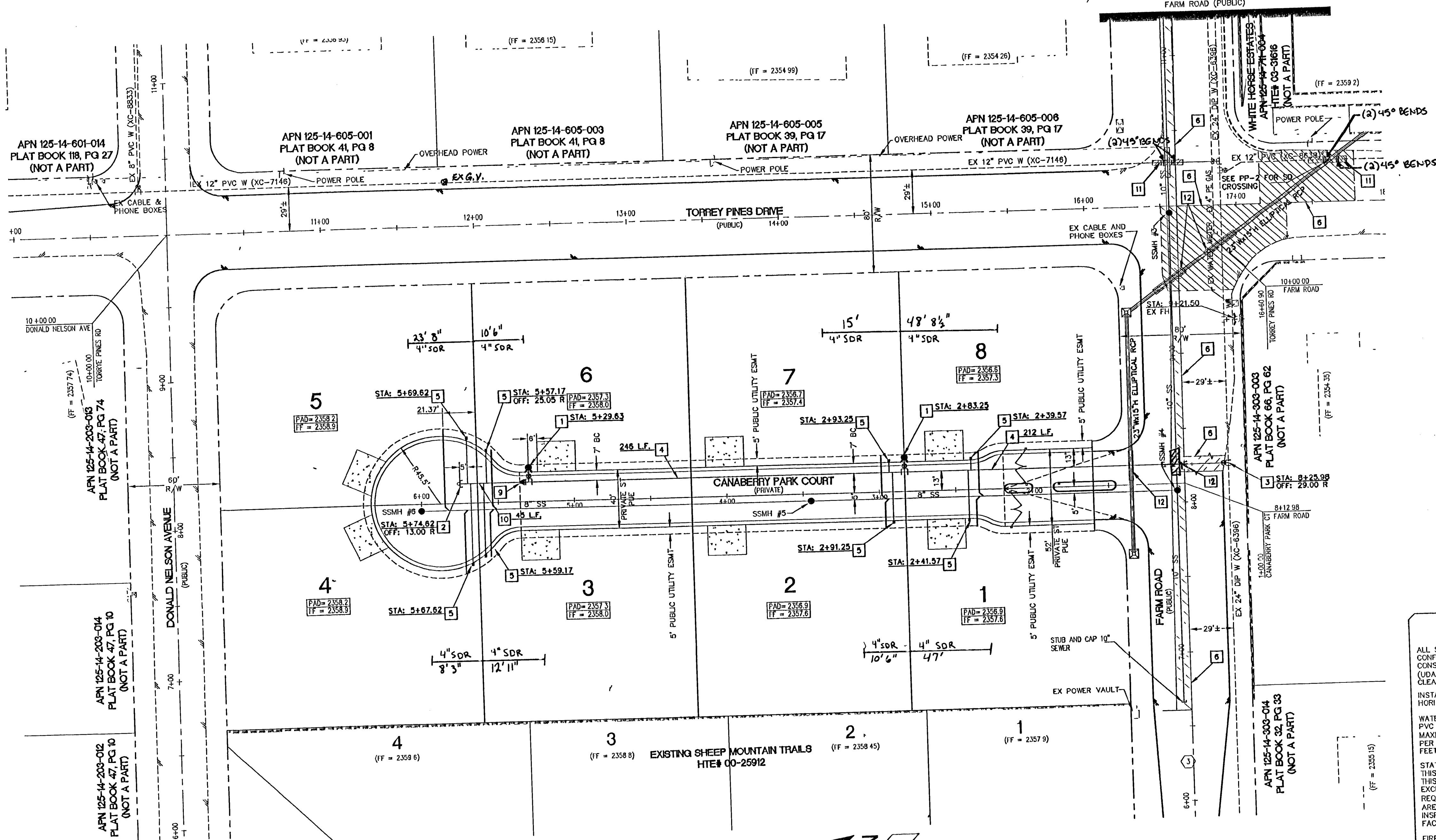


FOR CONTINUATION SEE SHEET PP-3



WATER NOTES

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 MAIN CROSSINGS AND CLEARANCES.

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLANS #27.

WATER MAIN JOINT DEFLECTION (PVC 4" - 24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.08.01 AND 2.08.02.

STATIC WATER PRESSURE:
THIS PROPERTY LIES WITH IN THE 2538 PRESSURE ZONE. THIS PROPERTY DOES NOT HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. PRESSURE REDUCING VALVES WILL BE REQUIRED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

FIRE HYDRANT INSTALLATION:
FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE 7.

ENGINEER'S NOTES

1. EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CALL BEFORE YOU DIG: 1-800-782-5348.

2. SEE MECHANICAL PLANS FOR LOCATIONS, SIZES, AND DEPTHS OF ALL ON-SITE UTILITIES AT THE PROPOSED BUILDINGS

3. SEE ELECTRICAL PLAN FOR ON-SITE LIGHTING AND POWER SUPPLY

4. SEE LANDSCAPE PLANS FOR ON-SITE IRRIGATION

5. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY

FIRE FLOW DATA

FIRE FLOW IS 2000 GPM AT 20 PSI RESIDUAL PRESSURE

BASED ON:	LESS THAN 6,200 SF
SQUARE FOOTAGE:	
AREA BETWEEN 4 HOUR AREA	N/A
SEPARATION WALLS:	
BUILDING HEIGHT:	20'
NUMBER OF STORIES:	2 LEVEL
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY GROUP:	RESIDENTIAL
FULL AUTOMATIC FIRE SYSTEM:	NO

GENERAL NOTES:
CLARK COUNTY FIRE DEPARTMENT'S

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM FIRE CODE, AND THE 1995 EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24.

2. ON ANY BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH THE REQUIRED WATER SUPPLY.

3. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT, MUST BE CONTACTED.

4. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY PER FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION DIVISION.

5. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 5 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.

6. AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROAD MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.

7. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.

8. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [97 UFC SEC 901.4.3].

9. APPROVED FIRE HYDRANTS FOR THIS PROJECT ARE:
1. KENNEDY - GUARDIAN MODELS K81A AND K81D
2. MUELLER - SUPER CENTURION 250 MODEL A-423
3. CLOW - MEDALLION MODEL F-2546LVD
4. TROY VALVE - PATRIOT MODEL PT8100N NEVADA HYDRANT

SANITATION NOTE

SANITARY SEWER SHALL BE PROVIDED BY THE CITY OF LAS VEGAS. OWNER SHALL OBTAIN AN INTERLOCAL AGREEMENT WITH THE CITY OF LAS VEGAS AND SUBMIT PLANS WITH THE CITY PUBLIC WORKS DEPARTMENT.

WATER PRESSURE NOTE

THIS PROPERTY IS SERVED BY WATER FROM THE 2538 PRESSURE ZONE. THIS PROPERTY DOES NOT HAVE A STATIC WATER PRESSURE IN EXCESS OF 80 PSI. PRESSURE REDUCING VALVES WILL NOT BE REQUIRED AT THIS SITE.

CONSTRUCTION NOTES

1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 7

2. INSTALL 2" BLOW OFF ASSEMBLY PER UDACS PLATE No. 4A

3. INSTALL 24" x 8" TAPPING SLEEVE & 8" TAPPING VALVE

4. INSTALL 8" PVC WATER MAIN

5. INSTALL 1" METER PER UDACS PLATE No. 1D

6. SAWCUT AND REPLACE TRENCH PER STD. DWG #504.1

7. NOT USED

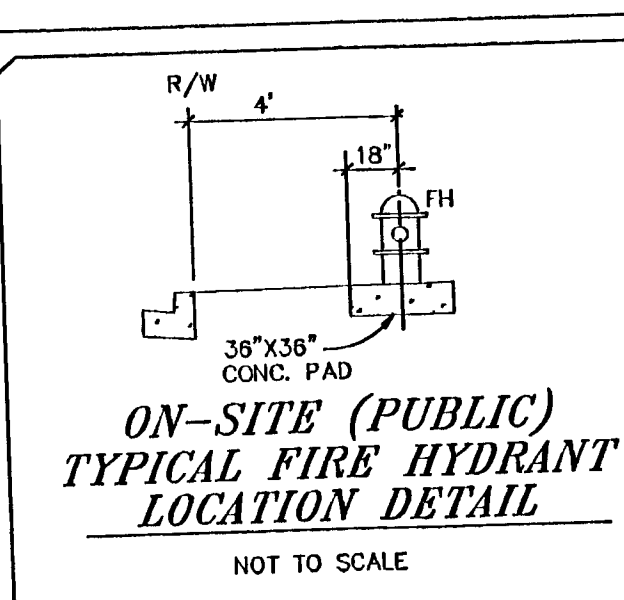
8. NOT USED

9. INSTALL 8"x8" REDUCER PER UDACS PLATE No. 3

10. INSTALL 6" PVC WATER MAIN

11. STEEL ENCASE WATER PER UDACS SECTION 2.19.02 AND STANDARD PLATE No. 15 & 16.

12. CEMENT SLURRY

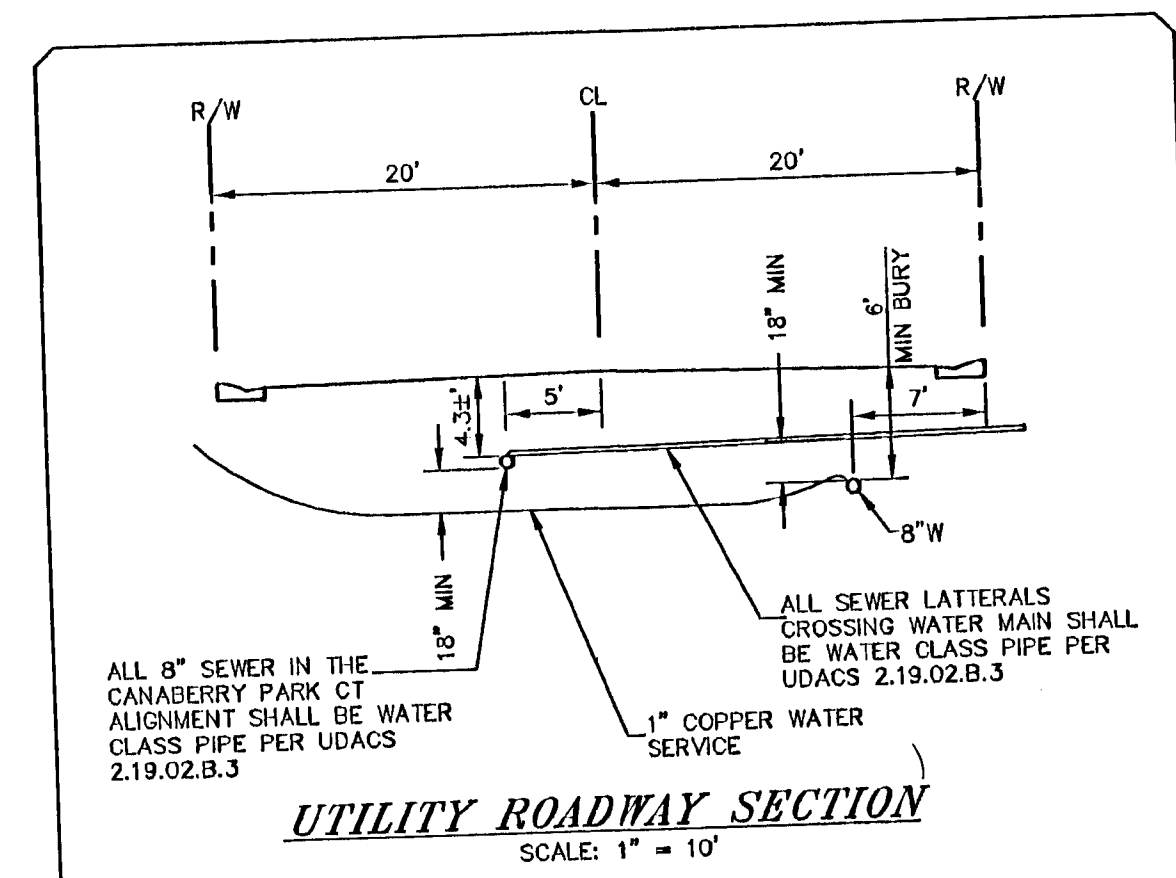


BASIS OF BEARING

RECORDS OF CLARK COUNTY, NEVADA, SOUTH RANGE 60 EAST, W.D.M. AS SHOWN IN BOOK 98 OF PLATS, PAGE 55, OFFICIAL QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 14, TOWNSHIP 19 SOUTH 002816" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST

BENCHMARK

CLARK COUNTY BENCHMARK No. 9L9V0 14C4
SOUTHWEST CORNER OF FARM ROAD AND TORREY PINES DRIVE, CITY OF LAS VEGAS
RIVET AND ROUND PLATE IN CONCRETE PAD.
ELEVATION = 2353.08 FEET NAVD 88
ELEVATION = 717.222 METERS



Call before you dig
1-702-455-7511
1-702-229-6611

Call before you dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

Call before you dig
1-702-227-2929

ENGINEER:
PATRICK A. SMITH, P.E.
521 ARTICOLA STREET
LAS VEGAS, NV 89144
(702) 292-3535 (PHONE)
(702) 240-9264 (FAX)

CLARK COUNTY, NEVADA

HIGH MARK DEVELOPMENT, LLC

CANABERRY PARK

UTILITY PLAN

SECTION 14
TOWNSHIP 19 SOUTH
RANGE 60 EAST, N.D.M.

DATE: 12/24/05

DRAFTER: ALW

DESIGNER: ALW

CHECKED: PAS

PROJECT NO. HMD0501

APPROVAL:
LAS VEGAS VALLEY WATER DISTRICT
PROJECT NO. 111218
DATE: 2-21-06
CLARK COUNTY FIRE DEPARTMENT
DATE: 2/3/06

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 2000 GPM AT 20 PSI RESIDUAL.

UT-1
SHEET 11 OF 13
HTE# 05-36004

CITY OF LAS VEGAS DWG. NO. 307V957