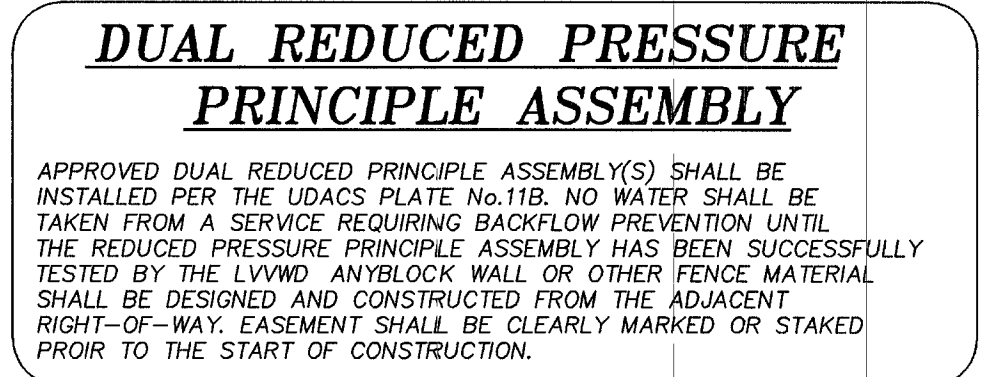
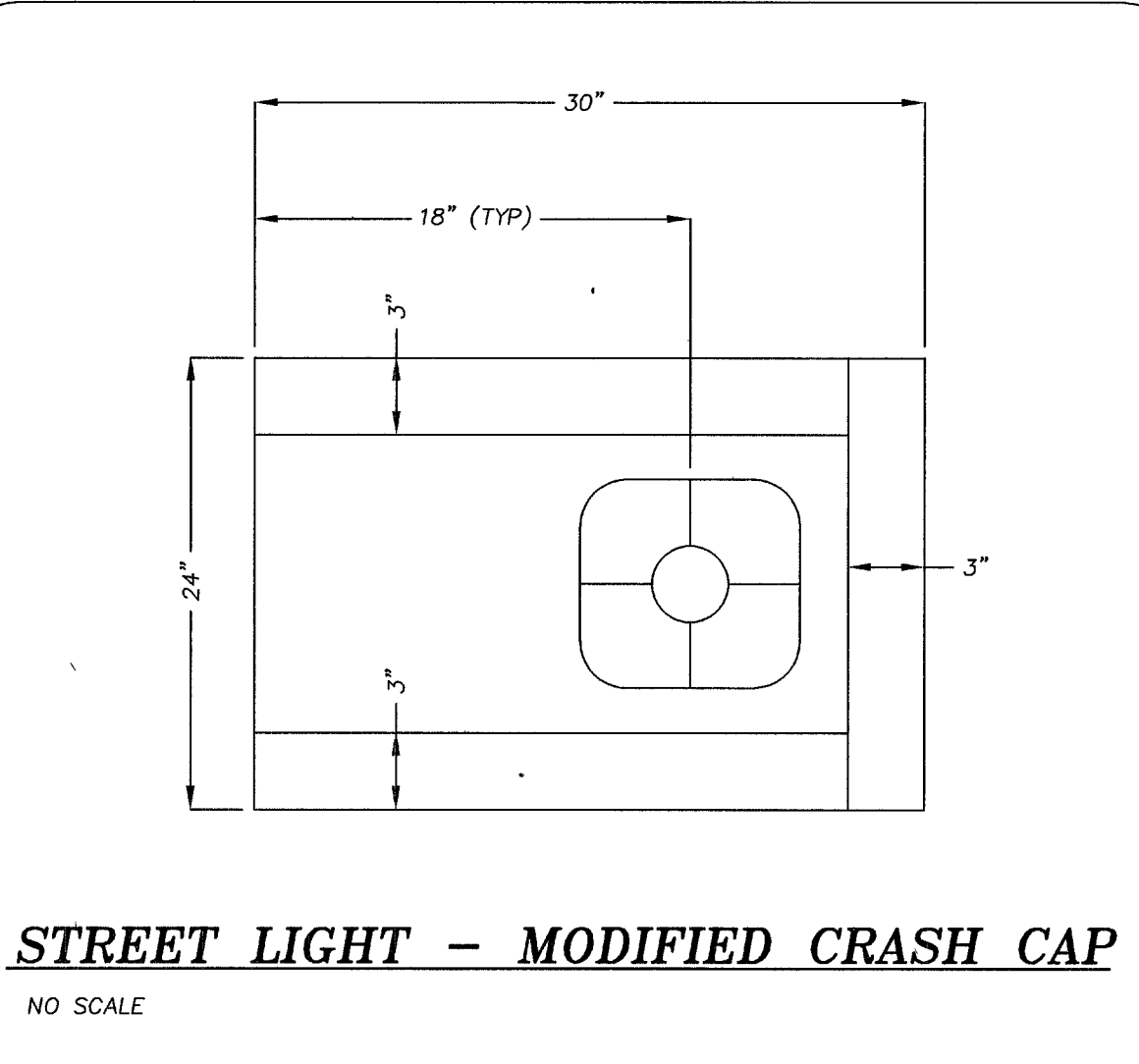
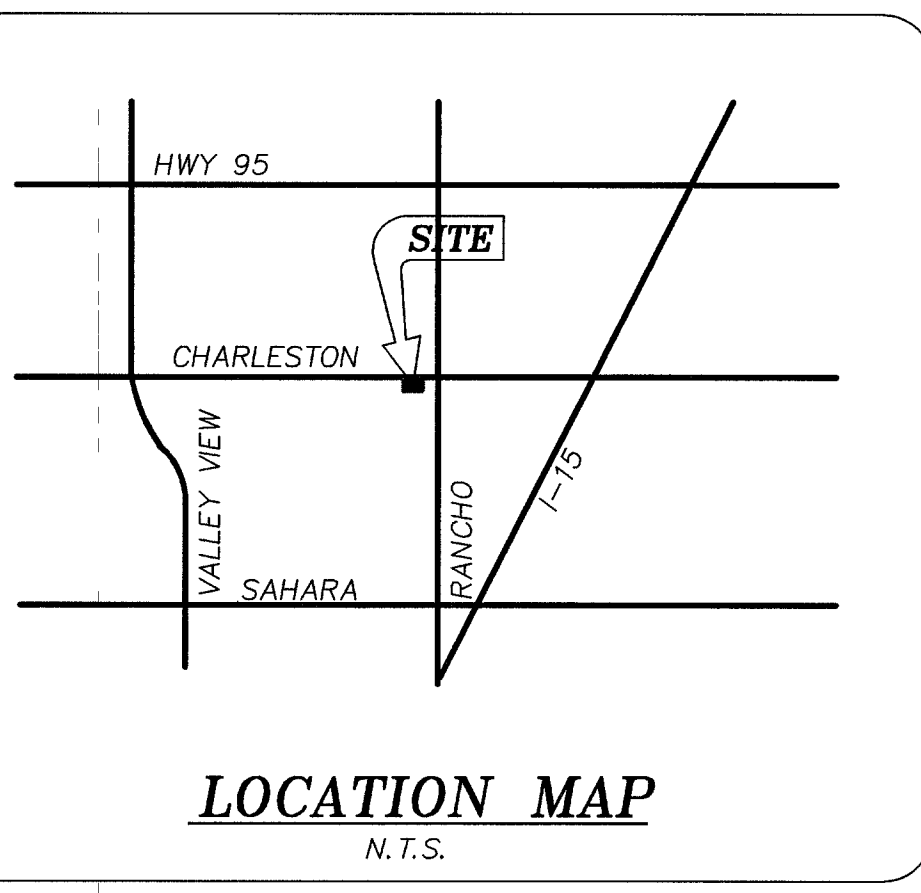
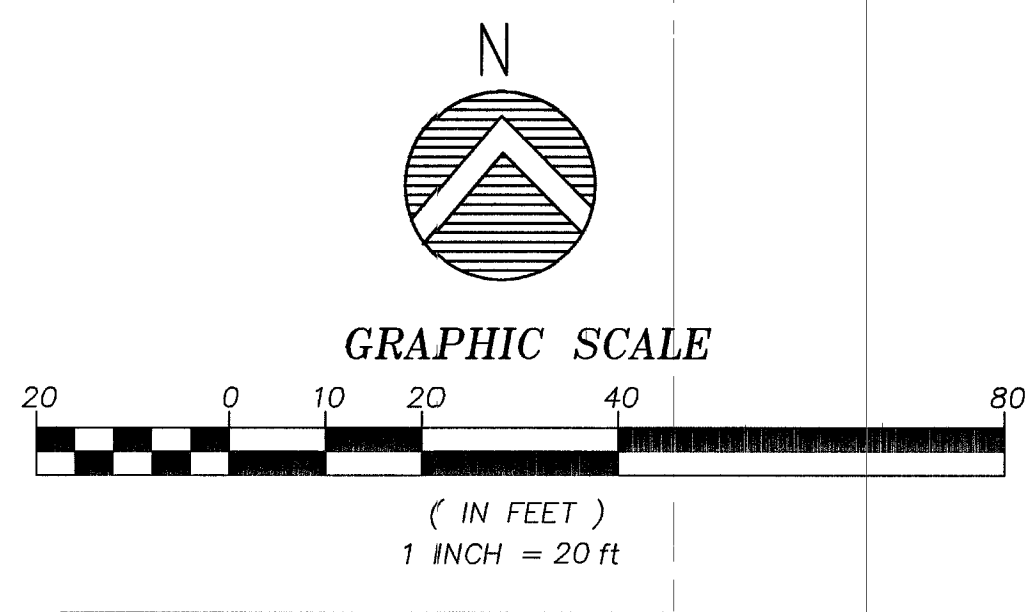
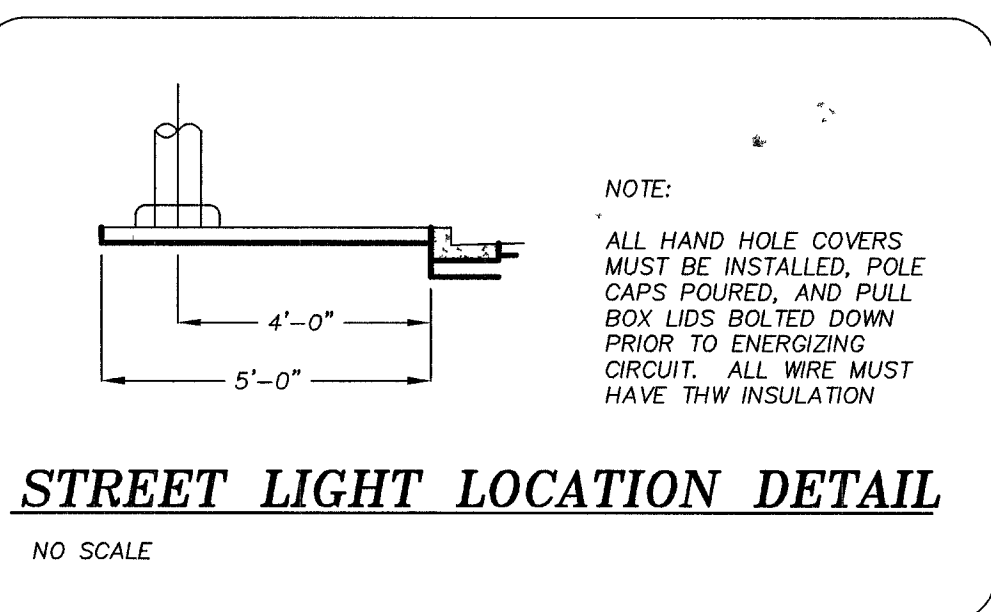
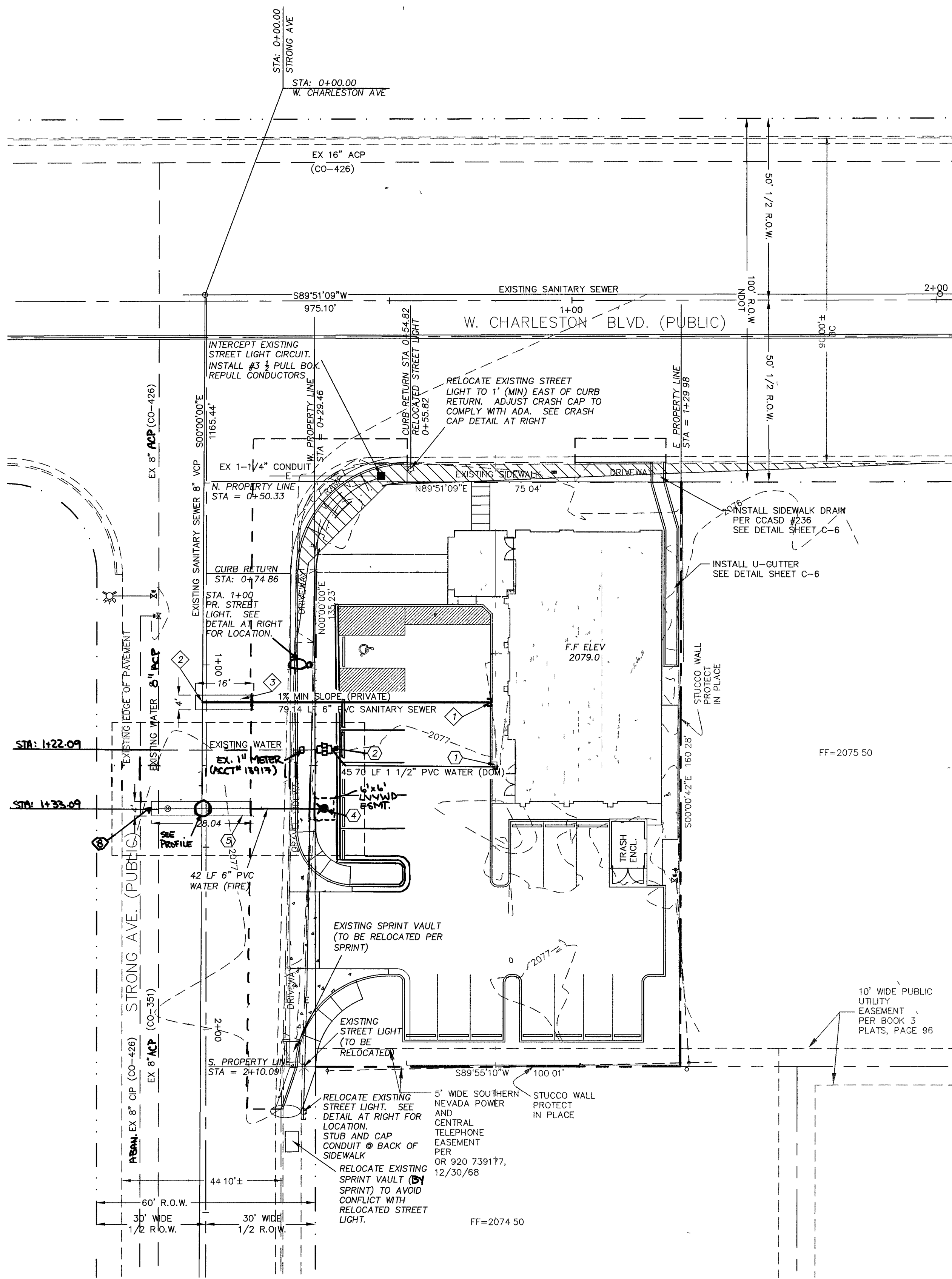




- WATER CONSTRUCTION NOTES**
- STUB AND CAP WATER, FOR CONTINUATION REFERENCE PLUMBING PLANS.
 - INSTALL DUAL 1" RPPA PER UDACS PL. #11B
 - NONE
 - PROVIDE & INSTALL FIRE HYDRANT PER UDACS PL. #7
 - TRENCH, BACKFILL, & REPAIR PER UDACS PL. #6C
 - NONE
 - NONE
 - INSTALL 8"x6" MECHANICAL JOINT TAPPING SLEEVE W/6" TAPPING VALVE

NOTE:
CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND VERIFY UTILITY CONNECTION LOCATIONS ANY DISCREPANCIES SHALL BE COORDINATED WITH THE OWNER, ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.

ESTIMATE OF QUANTITIES

PUBLIC	
1" WATER METER - EXISTING	1 EA
1" COPPER WATER	3 LF
FIRE HYDRANT	1 EA
6" PVC WATER	42 LF
PRIVATE	
1" RPPA	2 + EA (DUAL)
1 1/2" PVC WATER	49 LF
6" PVC SANITARY SEWER	80 LF

BENCHMARK
CITY OF LAS VEGAS BM # 1LV11 5NEE6
RIVET AND PLATE IN TOP OF CURB
AT THE SOUTHWEST CORNER OF RANCHO AND MASON
ELEV. = 2068.68 (FT)
ELEV. (METERS) = 630.5369 (CM)

BASIS OF BEARING
BEARINGS ARE BASED ON THE FOUND AND HELD MONUMENTS MARKING THE CENTERLINE OF STRONG AVENUE PER BOOK 3 OF PLATS, PAGE 96, OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, AS NORTH 00°00'00" WEST.

FIRE FLOW CALCULATIONS
FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE: 3,050 SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQUARE FEET
BUILDING HEIGHT: 24' FEET
NUMBER OF STORIES: 1 FLOORS
TYPE OF CONSTRUCTION: II-B
OCCUPANCY: BUSINESS GROUP B
FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
REVIEWED BY: [Signature] DATE: 11/29/06

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT DATE 11/11/06

SEWER CONTRIBUTION
AVERAGE DAILY FLOW 0.0008 MGD
PEAK HOURLY FLOW 132.32 GPH

NOTE
CIVILWORKS, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND/OR ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES AND SITE ELEVATIONS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

WATER & SEWER CROSSING NOTE
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.
THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
A. MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
A. POTABLE WATER SUPPLY QUALITY MATERIAL.
B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MIN.)
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.

EXISTING SERVICES
IF ANY OF THE EXISTING SERVICES ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON, THE DEVELOPER SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE UDACS STANDARDS, AND AT THE DEVELOPER'S EXPENSE.

- SEWER CONSTRUCTION NOTES**
- STUB AND CAP SEWER, FOR CONTINUATION REFERENCE PLUMBING PLANS.
 - CONNECT TO 8" SS W/STANDARD HOUSE CONNECTION PER DCSWCS #50-17.
 - TRENCH & REPAIR PER CCAUSD STD 503.

ALL LOTS/LOTS:
THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRED THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PVR'S ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LLWD FACILITIES.

NOTICE: POINT OF CONNECTION
CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES AND CONSTRUCTION OF SANITARY SEWER AND SEWER LATERALS OF ALL INVERT ELEVATIONS. ONCE INVERT INFORMATION IS RECEIVED, THE SLOPE AND INVERTS WILL BE REVISED ACCORDINGLY. IF THE CONTRACTOR DOES NOT PROVIDE THE INFORMATION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE SANITARY SEWER DESIGN.

Call before you Dig
1-800-227-2600
1-702-593-6111
EXISTING UTILITY LOCATIONS SHOWN HEREON 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 LIABILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

CIVILWORKS, INC.
Engineering with "sensible" solutions tailored to your "specific" needs.
7625 S. Industrial Rd., Suite #101 • Las Vegas, NV • 89139
Office #: (702) 876-3474 • Facsimile #: (702) 876-1323

DR. GAERLAN OFFICE
@ CHARLESTON & STRONG
OWNER/DEVELOPER: MARIA STELLA GAERLAN-BARIA, M.D.
1101 STRONG DRIVE, STE# 110 & 150
LAS VEGAS, NV 89102
PH: (702) 877-9511 FAX: (702) 877-6711

UTILITY PLAN
SHEET # C-5
CLV # 7636
10744616

PROFESSIONAL ENGINEER'S SEAL
BRANDON A. POTTS
Exp: 12/31/07
CIVIL
No. 13121