

SEWER IMPROVEMENTS

- INSTALL 4' DIA SEWER MANHOLE PER STD DWG SD-1
CONSTRUCT 8" DIA SOLID WALL PVC SEWER LINE (SDR - 35)
CONSTRUCT 6" DIA SOLID WALL PVC SEWER SERVICE LATERAL PER STD DWG SD-17 AND SD-18
INSTALL 4" DIA SEWER DROP MANHOLE PER STD DWG SD-8
INSTALL 5 LF 8" PVC STUB @ 2% MIN AND SEWER PLUG

WATER IMPROVEMENTS

- CONSTRUCT 10" PVC WATER LINE (C-900, CLASS 150)
INSTALL 10" 90 ELBOW W/ THRUST BLOCK PER PLATE 5
INSTALL 10" GATE VALVE PER PLATE 8
INSTALL 10 x10" TEE W/ THRUST BLOCK PER PLATE NO. 3
INSTALL 2" RPPA PER PLATE 11A

WATER IMPROVEMENTS

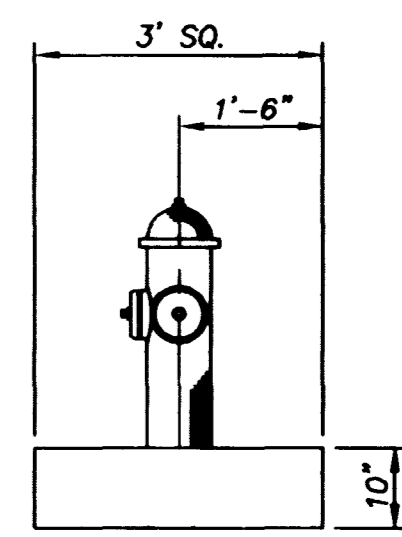
- INSTALL FIRE HYDRANT ASSEMBLY PER PLATE 7
INSTALL 2" WATER SERVICE & METER PER PLATE 10 & 11A
INSTALL 4" PVC WATER LINE (C-900, CLASS 150)
REMOVE 8" PLUG AND CONNECT
INSTALL 6" TEE
INSTALL 2" PVC WATER LINE (C-900, CLASS 150)
INSTALL 1" PVC WATER LINE (C-900, CLASS 150)
INSTALL 1-1/2" PVC WATER LINE (C-900, CLASS 150)
INSTALL 10" DCCA PER PLATE 108 (N TYPE) FEDCO MOL. 876
INSTALL 10" PLUG WITH THRUST BLOCK

WATER IMPROVEMENTS

- INSTALL 4 90BEND
INSTALL 4" PLUG
INSTALL 4-4" BOLLARDS PER PLATE 23
INSTALL 10"x8" REDUCER
INSTALL 8"x8"x6" TEE
INSTALL 4" x 2" REDUCER
INSTALL 6" GATE VALVE PER PLATE NO. 8
INSTALL 10"x6"x10" TEE
INSTALL 10"x8"x10" TEE
INSTALL 6" 90° BEND
INSTALL 6" PVC FIRE SPRINKLER WATER LINE
PAINT YELLOW STRIPING PER FIRE CODE OF CLARK COUNTY

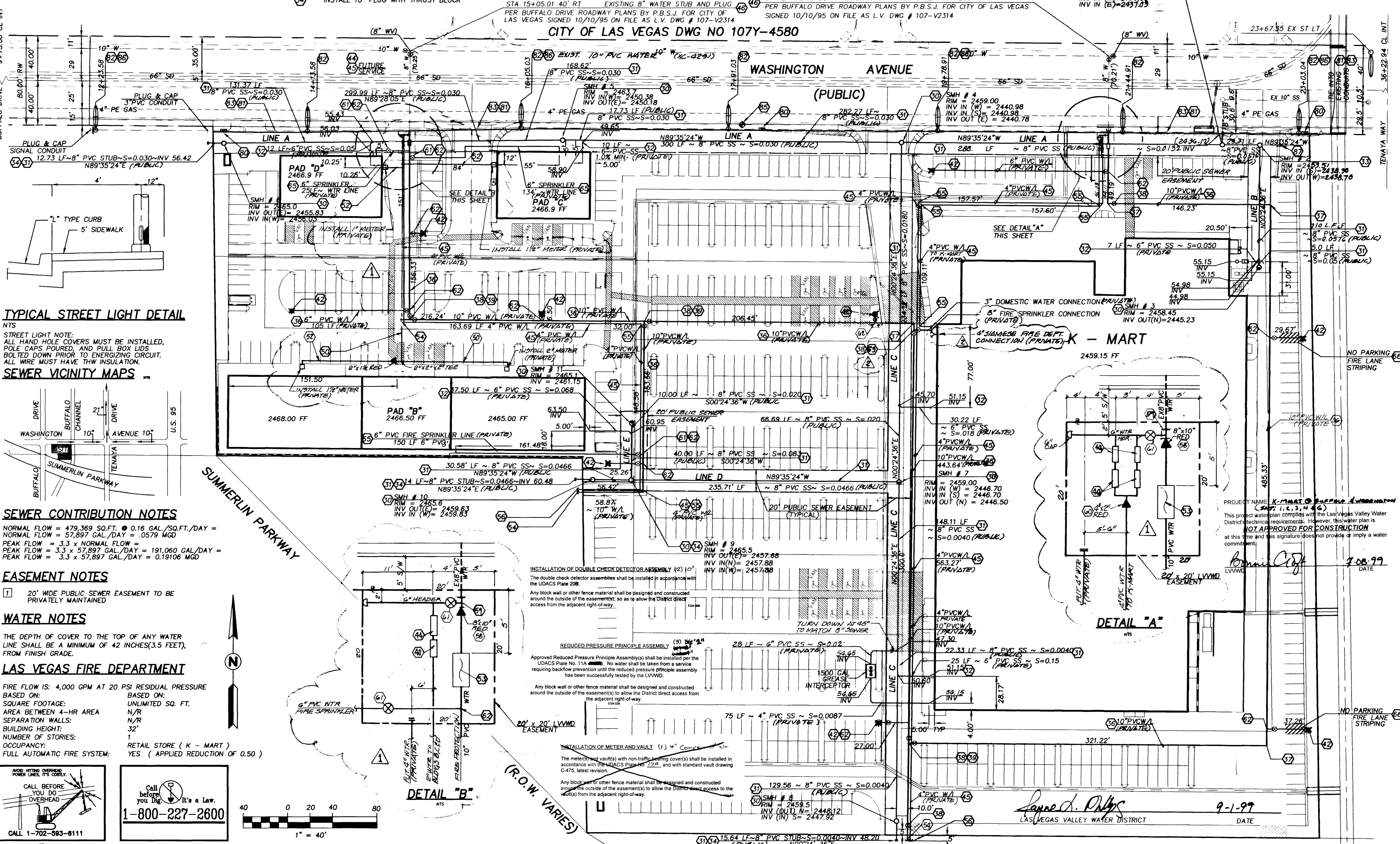
TRAFFIC IMPROVEMENTS

- INSTALL NO 7 PULL BOX PER STD DWG 326
INSTALL 3" PVC CONDUIT (WITH PULLSTRINGS) FOR FUTURE TRAFFIC SIGNAL INTERCONNECT
INSTALL 200W HPS STREET LIGHT PER STD DWG 306 AND 307
INSTALL 1-1/4" STREET LIGHT CONDUIT PER STD DWG 501
INSTALL NO 3-1/2 PULL BOX PER STD DWG 326
INSTALL STREET LIGHT SERVICE POINT PER STD DWG 333
INSTALL R8-3A (NO PARKING)
INSTALL R1-1 (STOP SIGN)



TYPICAL FIRE HYDRANT DETAIL NTS

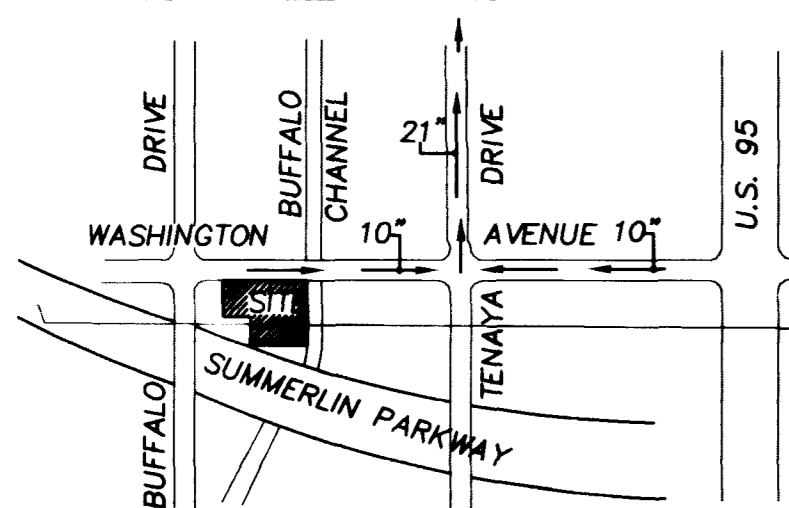
CITY OF LAS VEGAS DWG NO 107Y-4580



TYPICAL STREET LIGHT DETAIL

STREET LIGHT NOTE: ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.

SEWER VICINITY MAPS



SEWER CONTRIBUTION NOTES

NORMAL FLOW = 479,369 SQ.FT. @ 0.16 GAL./SQ.FT./DAY = NORMAL FLOW = 57,897 GAL./DAY = .0579 MGD
PEAK FLOW = 3.3 x NORMAL FLOW
PEAK FLOW = 3.3 x 57,897 GAL./DAY = 191,060 GAL./DAY = PEAK FLOW = 3.3 x 57,897 GAL./DAY = 0.19106 MGD

EASEMENT NOTES

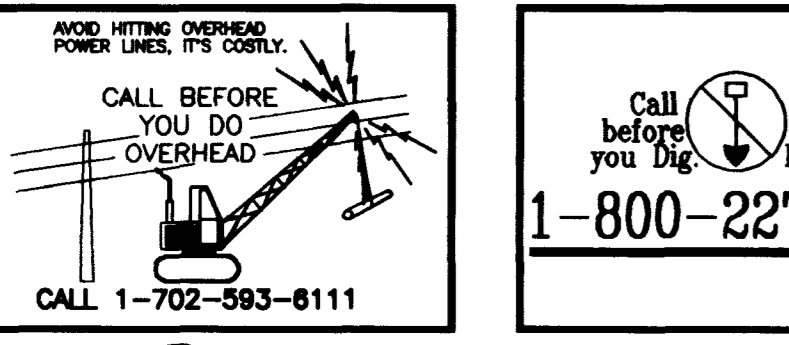
20' WIDE PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED

WATER NOTES

THE DEPTH OF COVER TO THE TOP OF ANY WATER LINE SHALL BE A MINIMUM OF 42 INCHES (3.5 FEET), FROM FINISH GRADE.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS: 4,000 GPM AT 20 PSI RESIDUAL PRESSURE
BASED ON: SQUARE FOOTAGE: UNLIMITED SQ. FT.
SEPARATION WALLS: N/R
BUILDING HEIGHT: 32'
NUMBER OF STORIES: 1
OCCUPANCY: RETAIL STORE (K - MART)
FULL AUTOMATIC FIRE SYSTEM: YES (APPLIED REDUCTION OF 0.50)



INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (2) 10"
The double check detector assemblies shall be installed in accordance with the UDACS Plate 208.

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 to the adjacent right-of-way.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (3) 1 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 LVWWD.

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 to the adjacent right-of-way.

INSTALLATION OF METER AND VAULT (1) 4"
The meter and vault(s) with non-traffic bearing cover(s) shall be installed in accordance with the UDACS Plate No. 124, and with standard vault drawing C-475, latest revision.

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 to the adjacent right-of-way.

Project information including: LAURICH PROPERTIES, INC. (K-MART # 9389), AGR Infrastructure Inc., MASTER UTILITY PLAN, K-MART #9389, 7500 BLOCK OF WASHINGTON AVENUE, 300' EAST OF BUFFALO DRIVE, CITY OF LAS VEGAS, NV. Includes drawing number 107-V3110 and sheet number 6 of 17.

**SEWER IMPROVEMENTS**  
 AREA 1 OF THE SEWER MAINS FOR THE 100' x 100' SECTION OF THE MAIN SHALL BE RECONSTRUCTED TO 18" DIA. (SEE PLAN 100-100)  
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**WATER IMPROVEMENTS**  
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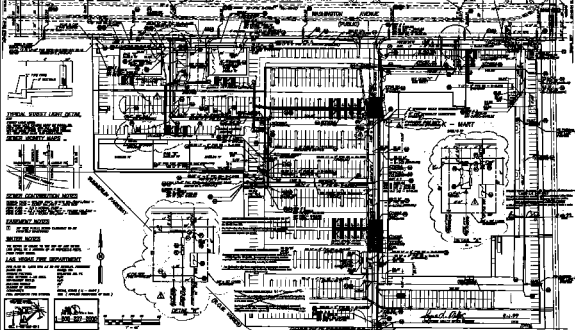
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**CITY OF LAS VEGAS DEED NO 1007-1000**



**SEWER CONSTRUCTION NOTES**  
 1. ALL SEWER MAINS SHALL BE 18" DIA. UNLESS OTHERWISE NOTED.  
 2. ALL SEWER MAINS SHALL BE 40' SPAN UNLESS OTHERWISE NOTED.  
 3. ALL SEWER MAINS SHALL BE 4' COVER UNLESS OTHERWISE NOTED.

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**GENERAL NOTES**  
 1. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LAS VEGAS SPECIFICATIONS.  
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**LAS VEGAS FIRE DEPARTMENT**  
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**SCALE**  
 1" = 10' - 0"

**DATE**  
 10/15/11

**PROJECT NO.**  
 1007-1000

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**AGRA ENGINEERING, INC.**  
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**MASTER UTILITY PLAN**  
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