

UTILITY NOTES

1. ALL SEWER/STORM DRAIN CROSSINGS WATER LINES MUST CONFORM TO SECTION 2.2.2 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
2. EXISTING WATER LATERALS CROSSING AND/OR PARALLEL TO PROPOSED SEWER AND/OR SEWER MANHOLES, RELOCATED OR DAMAGED WITH THIS PROJECT SHALL BE INSTALLED PER UDACS PLATE # 4 AND UDACS SECTIONS 2.17 AND 2.22.03 AND SERVICE RECONNECTION NOTE.

ENGINEER'S NOTES	
1.	CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION.
2.	CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
3.	ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4.	THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNING AGENCIES.

FIRE FLOW CALCULATIONS	
* FIRE FLOW IS BASED ON THE TABLE B 105.1 (FC APPENDIX B)	
* BUILDING HEIGHT, NUMBER OF STORIES, AND TYPE OF CONSTRUCTION ARE ALL DETERMINED BASED ON THE GUIDELINES AND DEFINITION OUTLINE IN IFC APPENDIX B	
* ANY PERMITTED REDUCTIONS IN THE REQUIRED FIRE FLOW ARE OUTLINED IN SNFC B105.2	
* IN DETERMINING THE MINIMUM NUMBER OF HYDRANTS REQUIRED, THE MAXIMUM FLOW FROM EACH HYDRANT SHALL BE 1500GPM. HYDRANT SPACING SHALL BE PER IFC APPENDIX C / SNFC SECTION C105.1	
* DEVELOPMENTS WITH MULTIPLE BUILDINGS: THIS CHART SHALL BE PROVIDED FOR THE LARGEST BUILDING FOR EACH CONSTRUCTION TYPE; AND FOR EACH SPRINKLERED/NONSPRINKLERED BUILDING TYPE IF APPLICABLE.	
FIRE FLOW CALCULATIONS	
FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE ● 20 psi RESIDUAL REQUIRE.	
BASED ON:	
SQUARE FOOTAGE:	N/A SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SF
BUILDING HEIGHT:	N/A FT
NUMBER OF STORIES:	N/A FLOORS
TYPE OF CONSTRUCTION:	N/A
OCCUPANCY:	N/A
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	N/A

**REDUCED PRESSURE PRINCIPLE
ASSEMBLY (RPPA) (1) 1-1/2"**

THE REDUCED PRESSURE PRINCIPLE ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACP FLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LYND. ANY BLOCK VALVE OR OTHER MATERIALS IN MATERIALS ARE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) 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.

**EASEMENT WITH TREES, SHRUBS,
DECORATIVE ROCKS, BLOCK WALL OR FENCE**

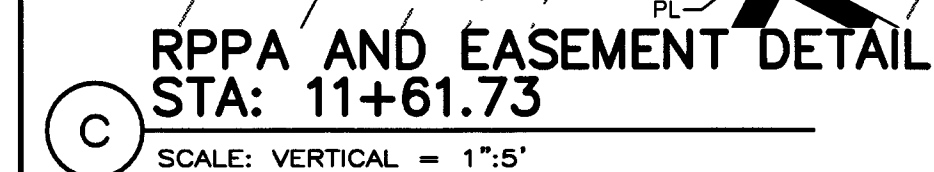
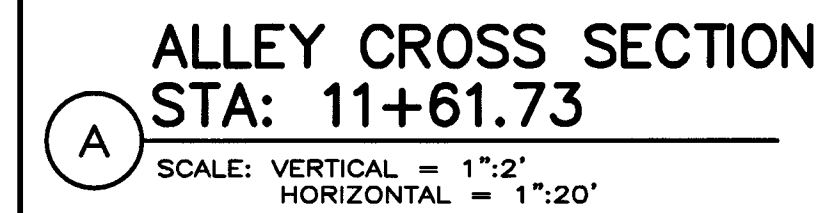
TREES, SHRUBS OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VALVE(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.



CONSTRUCTION NOTES	
1	6FT X 6FT LYNDD EXCLUSIVE UTILITY EASEMENT
2	INSTALL 1-1/2" BRASS WATER LINE
3	INSTALL 1-1/2" RPPA PER UDACS PLATE No. 8 AND NOTE ON THIS SHEET
4	INSTALL BOLLARDS PER UDACS No. 75
5	TRENCH AND BACKFILL AND AC PAVEMENT RESTORATION PER CCAUSD No. 500.3, 500.5 & 503
6	SAWCUT LINE
7	EXISTING 1-1/2" WATER METER TO REMAIN (METER SERIAL # 372555 / ACCT # 3020

ESTIMATE OF PUBLIC QUANTITIES FOR PERMITTING PURPOSES ONLY			
SEWER	PRIVATE	PUBLIC	TOTAL
WATER	PRIVATE	PUBLIC	TOTAL
1-1/2" BRASS WATER LINE	0 LF	6 LF	6 LF
1-1/2" RPPA	0 EA	1 EA	1 EA
BOLLARDS	0 EA	4 EA	4 EA

NOTICE TO CONTRACTORS:
QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS OWN QUANTITY TAKE OFF, AND BID ACCORDINGLY.



LOCATION MAP

US 95

BONANZA

MAIN ST

1ST ST

CASINO CENTER BLVD

STEWART AVE

3RD ST

4TH ST

6TH ST

7TH ST

8TH ST

9TH ST

10TH ST

FREMONT ST

CARSON AVE

BRIDGER AVE

LEWIS AVE

LAS VEGAS BLVD

PROJECT SITE

N



— — — — —	ADJACENT PARCEL/PROPERTY LINE
— — — — —	STREET CENTERLINE
— — — — —	RIGHT-OF-WAY LINE
	EXISTING FIRE HYDRANT
A.P.N.	ASSESSOR PARCEL NUMBER
E	EAST
EA	EACH
EX	EXISTING
FT	FEET
INV	INVERT ELEVATION
G	GAS LINE
LF	LINEAR FEET
N	NORTH
PP	POWER POLE
RIM	RIM ELEVATION
RCB	REINFORCED CONCRETE BOX CULVERT
S	SOUTH
SS	SANITARY SEWER LINE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
W	WATER LINE OR WEST

BENCHMARK	
CITY OF LAS VEGAS BENCHMARK NO. 8LV0134N6	
RIVET AND PLATE IN TOP OF CURB SW CORNER OF LAS VEGAS BOULEVARD AND FREMONT ST.	
ELEVATION = 611.829 METERS (NAVD'88 PUBLISHED)	
2007.31 SURVEY FEET (NAVD'88 CALCULATED)	

BASIS OF BEARING

SOUTH 27°53'29" WEST BEING THE BEARING OF THE CENTERLINE OF SIXTH STREET BETWEEN CARSON AVENUE AND FREMONT STREET, AS SHOWN ON RECORD OF SURVEY FOR CITY OF LAS VEGAS, IN FILE 67, PAGE 79 OF SURVEYS ON FILE IN THE OFFICE OF THE CLARK COUNTY RECORDER, CLARK COUNTY, NEVADA.



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FREEWAY AND ARTERIAL SYSTEM

APPROVED FOR CONSTRUCTION

M. DISHARI R.R. D.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 124295 DATE 6/22/16

LVIWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

107V6629
HANSEN NO.
62838

300 LAS VEGAS BLVD N SUITE 110
LAS VEGAS, NEVADA 89104

ENGINEER: **HAUNTEC, PLLC**
2721 IRONSIDE DRIVE

UTILITY PLAN

120TH 6TH STREET

DESIGNER:
DRAWN BY:



JOB NO.
15-0072
SHEET NO.
C2
4 OF 4