

ABANDONED VALVE CUT AND CAP
 ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THEN FILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WITHIN 3' OF THE ABANDONED VALVE OR WHERE SHOWN ON THE PLANS AND INSTALL A CAP. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THRUST BLOCK IN ACCORDANCE WITH THE PROVISIONS OF THE UDACS PLATED No. 5 AT ALL CAP OR PLUG LOCATIONS.

WATER CONSTRUCTION NOTES

- 1 INSTALL DUAL 10" DODA PER UDACS PLATE 11D ON 18"x7" SLAB.
- 2 CONNECT TO 12" STUB INSTALLED BY OTHERS, INSTALL 12"x10" REDUCER
- 3 10" WATER FOR FIRE PROTECTION
- 4 INSTALL 11-1/4" ELBOW WITH THRUST BLOCK PER U.D.A.C.S. PLATE 5
- 5 INSTALL 45° ELBOW WITH THRUST BLOCK PER U.D.A.C.S. PLATE 5
- 6 INSTALL 90° ELBOW WITH THRUST BLOCK PER U.D.A.C.S. PLATE 5
- 7 INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 7 (INCLUDING ALL VALVES, TEE, THRUST BLOCKS AND APURTANCES)
- 8 CONNECT TO EXISTING 8" STUB
- 9 INSTALL (1)-2" METER W/ 2" COPPER SERVICE FOR DOMESTIC SUPPLY PER U.D.A.C.S. PLATE 1D
- 10 INSTALL (1)-1-1/2" METER W/ 1-1/2" COPPER SERVICE FOR IRRIGATION PER U.D.A.C.S. PLATE 1D
- 11 INSTALL (1)-1-1/2" RPPA PER UDACS PLATE 11A
- 12 3" PVC WATER FOR DOMESTIC SUPPLY
- 13 3" BENDS AS REQUIRED TO ALIGN WITH FIRE LINE
- 14 SEE MECHANICAL PLANS FOR CONNECTION TO BLDG.
- 15 22-1/2" ELBOW WITH THRUST BLOCK PER U.D.A.C.S. PLATE 5
- 16 INSTALL 8" DODA PER U.D.A.C.S. PLATE 20B ON A 6"x8" SLAB W/ 5' OFFSET
- 17 INSTALL 8 x 10 REDUCER
- 18 INSTALL 10" TEE WITH THRUST BLOCK PER U.D.A.C.S. PLATE 5
- 19 INSTALL (1) 2" RPPA PER UDACS PLATE 11A.
- 20 INSTALL 2" SERVICE SADDLE
- 21 INSTALL 1-1/2" SERVICE SADDLE
- 22 BEWARE AT WATER CROSSINGS, MAINTAIN DEPTH OF COVER OF PROPOSED WATER AT EXISTING WATER LINE.
- 23 REMOVE EXISTING CAP AND BLOW-OFF AND CONNECT TO EXISTING 8" WATER.

SEWER CONSTRUCTION NOTES

- 1 INSTALL STANDARD ECCENTRIC 48" MANHOLE PER C.C. SANITATION DISTRICT STD DWG SD-1
- 2 CONNECT NEW 8" SEWER TO EXISTING STUB
- 3 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 4' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION
- 4 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 6.5' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION AND GREASE INTERCEPTOR INFORMATION
- 5 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 4.5' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION AND GREASE INTERCEPTOR INFORMATION
- 6 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 4.5' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION
- 7 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 7.25' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION
- 8 4" SEWER STUB - CONNECT TO 4" OUTLET FROM BLDG. 7.25' BELOW FF SEE MECHANICAL PLANS FOR CONNECTION

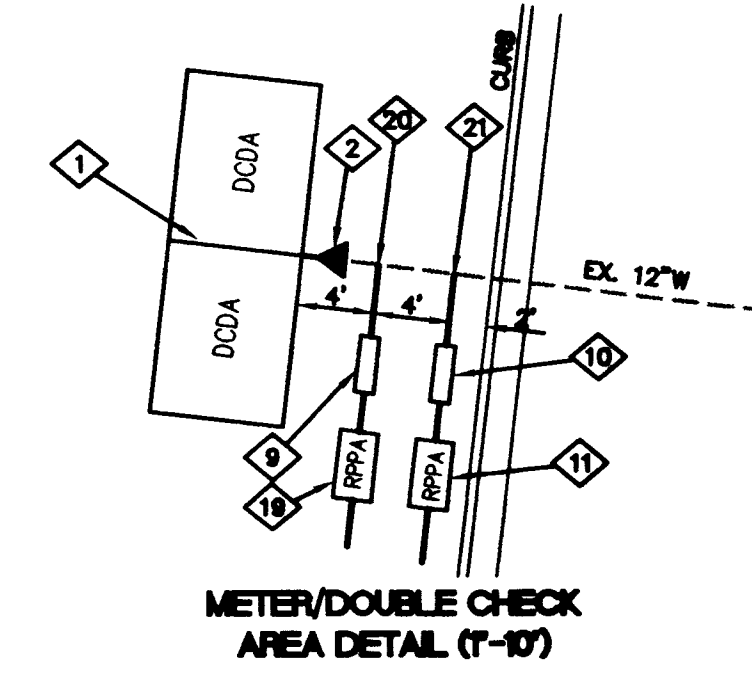
ALL 4" LATERALS SHALL BE INSTALLED AT MIN. SL=2.0%

SEWER CONNECTION NOTE

A SEGMENT OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETE AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY HAVE BEEN DEEMED AVAILABLE FOR SERVICE.

DOUBLE CHECK DETECTOR ASSEMBLY DETAIL

REDUCED PRESSURE PRINCIPLE ASSEMBLY - (1) 2" (1) 1-1/2"
 APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE #11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVMO.
 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.
INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY - (1) 2" (2) 10"
 THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH UDACS PLATE 20B.
 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. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



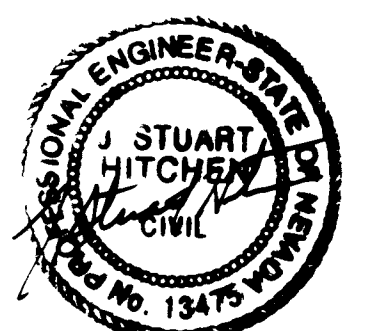
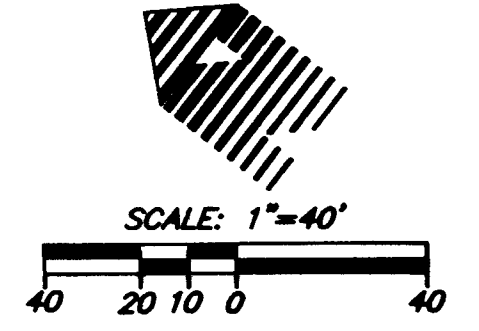
BENCHMARK

CITY OF LAS VEGAS BENCHMARK 0LV09 36SSW6
 NAVD 88 ELEVATION = 919.3496 METERS, 3018.23 FT
 SUMMERLIN DATUM ELEVATION = 3014.08 FT

BASIS OF BEARING

SOUTH 06°05'51" EAST, BEING THE BEARING OF THE EAST LINE OF SECTION 36, TOWNSHIP 20 SOUTH, RANGE 50 EAST, M.D.M., AS SHOWN BY MAP THEREOF ON FILE IN BOOK 74 OF PLATS, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA

NOTE:
 FOR STORM DRAIN CONSTRUCTION SEE STORM PLANS.



Call before you Dig.
 1-800-227-2600

Call before you OVERHEAD.
 1-702-593-6111

REV.	DATE	BY	REVISION
1	2/05/01	J SLATER	DESIGNED
2		J SLATER	ENGINEER
3		J SLATER	CHECKED
4		J SLATER	SCALE

COSTCO WHOLESALE
 999 Lake Drive
 Lasquah, Washington 98027
 (253) 313-8052

W R G

W E B R I N G
 2280 Corporate Center, Ste 330 Henderson, NV 89014
 (702) 990-8300 FAX: 702 990-8305
 PLANNING & ENGINEERING • LANDSCAPE ARCHITECTS & SURVEYORS

UTILITIES PLAN (SOUTH)
COSTCO WHOLESALE AT CANYON PONTE
 CITY OF LAS VEGAS
 PORTION OF SECTION 36 AND 36, TOWNSHIP 20 SOUTH, RANGE 50 EAST
 MDM, CLARK COUNTY, NEVADA

DATE	2/05/01	SCALE	1" = 40' HORIZ
DESIGNED	J SLATER	MRG PROJECT NO.	MJL014
ENGINEER	J SLATER		
CHECKED	J SLATER		
SCALE			

PROFESSIONAL ENGINEER - STATE OF NEVADA
 JERRY SLATER
 No. 14167
 3/6/01

SHEET TITLE
 UTILITIES
 SHEET NUMBER
C5 OF 14
 CLV DRAWING NO.
 107-15367

30353 RS 32291 32468

REPLT