

1. WATER LINES TO HAVE THRUST BLOCKS CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 5. THRUST BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), TEE'S, & FIRE HYDRANTS. ANCHOR BLOCKS TO BE CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 3. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE REDUCERS AND GATE VALVES.
2. WET TAP'S TO BE CONSTRUCTED IN CONFORMANCE WITH U.D.A.C.S. PLATE NO. 22.
3. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED, PER U.D.A.C.S. PLATE NO. 6B.
4. TRENCH BACKFILL FOR STORM DRAIN LINES TO BE CONSTRUCTED, PER D.C.S.W.C.S. DRAWING NO. SD-16B.
5. CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
6. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
8. CONTRACTOR/OWNER TO OBTAIN C.P.W. OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
9. THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING THAT IS REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
10. CONTRACTOR TO VERIFY UTILITY SUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
11. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
12. SEE SHEET C1.00 FOR LEGEND.
13. EXISTING STREET LIGHTS INDICATED ON THIS SHEET ARE DEPICTED FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE.
14. ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE D.C.S.W.C.S. SECTION 2.2.18 (TYP).
15. LATERALS SHALL NOT BE CONNECTED INTO SUBS EXTENDING FROM MANHOLES. SERVICE LATERALS 6" OR SMALLER WILL NOT BE ALLOWED TO CONNECT INTO MANHOLES. PER D.C.S.W.C.S. SECTION 2.2.19 (TYP).
16. WATER AND SEWER SEPARATION OF TRENCHES MUST BE AT LEAST 10" MINIMUM (TYP). SEE D.C.S.W.C.S. SECTION 2.2.21 "A1", D.C.S.A.C.S. SECTION 2.19.01 "A".
17. THE EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY.

1 SEE FIRE SAFETY CONTRACTOR NOTE ON THIS SHEET.

- 1 SEE FIRE SAFETY CONTRACTOR NOTE ON THIS SHEET.
- 2 PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN WATER AND SEWER LINES BEING BELOW WATER LINES.
- 3 INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDE 6" GATE VALVE). PER U.D.A.C.S. PLATE NO. 7 AND 8. PROVIDE A MINIMUM OF 3' CLEARANCE AROUND FIRE HYDRANT.
- 4 INSTALL REMOTE FDC (SIAMASE CONNECTION ON STAND PIPE). REFER TO FDC NOTE ON THIS SHEET.
- 5 INSTALL 8" DOUBLE CHECK DETECTOR FEBCO MODEL NO. 876V ASSEMBLY ABOVE FINISH GRADE. ON A 4"x10"x15" CONCRETE PAD, PER U.D.A.C.S. PLATE NO. 20B VALVES TO BE MONITORED.
- 6 INSTALL 2" METER PER U.D.A.C.S. PLATE NO. 1-D.
- 7 INSTALL 2" RPPA PER U.D.A.C.S. PLATE NO. 11A.
- 8 INSTALL 6" TAPPING VALVE.
- 9 INSTALL 12"x8" REDUCER.
- 10 INSTALL 8"x6" REDUCER.
- 11 INSTALL 6"x2" REDUCER.
- 12 INSTALL 4"x2" REDUCER.
- 13 INSTALL 8"x8" TEE.
- 14 INSTALL 6"x6"x8" MECHANICAL JOINT TAPPING SLEEVE AND 8" TAPPING VALVE.
- 15 INSTALL 2" SADDLE TAP.
- 16 INSTALL 12"x12"x6" TEE.
- 17 INSTALL 8" GATE VALVE.
- 18 INSTALL 6"x6"x6 TEE.
- 19 INSTALL 4"x4"x1.5" TEE.
- 20 INSTALL 1.5", 45 DEGREE BEND.
- 21 INSTALL 12", 90 DEGREE BEND.
- 22 INSTALL 6", 90 DEGREE BEND.
- 23 INSTALL 4", 90 DEGREE BEND.
- 24 INSTALL 2", 90 DEGREE BEND.
- 25 REFER TO LANDSCAPE PLANS FOR CONTINUATION.
- 26 REFER TO MECHANICAL/PLUMBING AND FIRE SPRINKLER CONTRACTOR PLANS FOR ADDITIONAL INFORMATION.
- 27 INSTALL 1" METER PER U.D.A.C.S. PLATE NO. 1-D.
- 28 PROVIDE 1" RPPA PER U.D.A.C.S. PLATE NO. 11A.
- 29 INSTALL 2"x1" REDUCER.
- 30 INSTALL 4" GLOBE FLANGED CLA-VALVE PRESSURE REDUCING VALVE.
- 31 INSTALL 1" SADDLE TAP.
- 32 INSTALL 4"x4"x4" TEE
- 33 INSTALL 1.5", 90 DEGREE BEND.

- ① INSTALL MANHOLE OF SAME MATERIAL AS PIPE (SEE SPECIFICATIONS FOR MATERIAL).
- ② INSTALL CAST IN PLACE STORM DRAIN PER DETAIL 8 ON SHEET C9.00.
- ③ CONSTRUCT STORM DRAIN OUTLET TRANSITION PER DETAIL 5 ON SHEET C9.00.

- 1 CONSTRUCT STANDARD ECCENTRIC MANHOLE (48") PER D.C.S.W.C.S. DWG. NO. SD-1, INSTALL CONCRETE COLLAR PER D.C.S.W.C.S DWG. NO. SD-2.
- 2 INSTALL WATER QUALITY PIPE PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS, 1997.

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

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) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVYND (702-538-3227) 48 HOURS IN PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING OF THE METER. AFTER THE METER READING IS COMPLETED, THE TEAM THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICES AS FOLLOWS:

- ALL VALVES TO BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE BY THE REMOVING CONTRACTOR.
- ALL EXISTING PIPES TO BE CUT AT THE BOX AND THE MILLING THE REMAINING PORTION OF THE PIPE TO BE 12 INCHES OR LESS.
- CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 PSI.
- ALL EXISTING PIPES SHALL BE CUT WHERE THE EXISTING PIPE IS BEYOND THE ABANDONED VALVE AND INSTALL A NEW 12" WIRE ROPE COUPLING TO THE REMAINING PIPE.
- UNCOVERED AT THE DISTRICT AND CAP LOCATION, THE INSTALLATION OF A PLUG SHALL BE REQUIRED AT THE DISTRICT APPROVAL. THE CONTRACTOR SHALL INSTALL A CONCRETE THURST ROD TO THE PLUG AND THE PLUG SHALL BE THE LIDGAS PLUG.
- BE PLACED ON 5' AT ALL CAP OR PLUG LOCATIONS. THE EXISTING METER(S) SHALL BE REMOVED AND BE BELIEVED TO BE THE DISTRICT. THE CONTRACTOR SHALL THEN REMOVE THE METER AND BACKFILL THE HOLE AND THE DISTRICT SHALL BE THE LIDGAS PLUG.

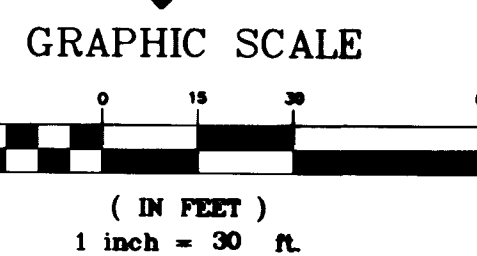
AVERAGE DAILY FLOW = 0.035 MGD
PEAK DAILY FLOW = 0.119 MGD

CLV BM 2LV0136W4: RIVET & PLATE IN TOP OF CURB,
S.E. RETURN, STEWART AVENUE AND EASTERN AVENUE,
ELEVATION: 1846.08' (NAVD88)

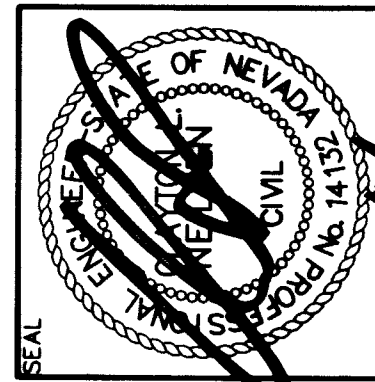
S 44°48'20" E, BEING THE GRID BEARING BETWEEN CLARK COUNTY GIS CONTROL POINTS 816 AND 827, AS SHOWN ON A RECORD OF SURVEY IN FILE 88, PAGE 53 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

Avoid cutting underground utility lines. It's costly

Call
before you
Dig
1-800-227-2600



DO NOT SCALE DRAWINGS



JUMA ARCHITECTURE STUDIOS

0150 COVINGTON CROSS DRIVE LAS VEGAS, NEVADA 89144 (702)781 2033

CLARK COUNTY SCHOOL DISTRICT

LAS VEGAS, NEVADA 89121

SUNRISE ACRES ELEMENTARY SCHOOL

UTILITY PLAN - SHEET 1

SHEET NO.
C4.00
SHEET 10 of 26
DRAWING NUMBER
715-134

RE PLOT