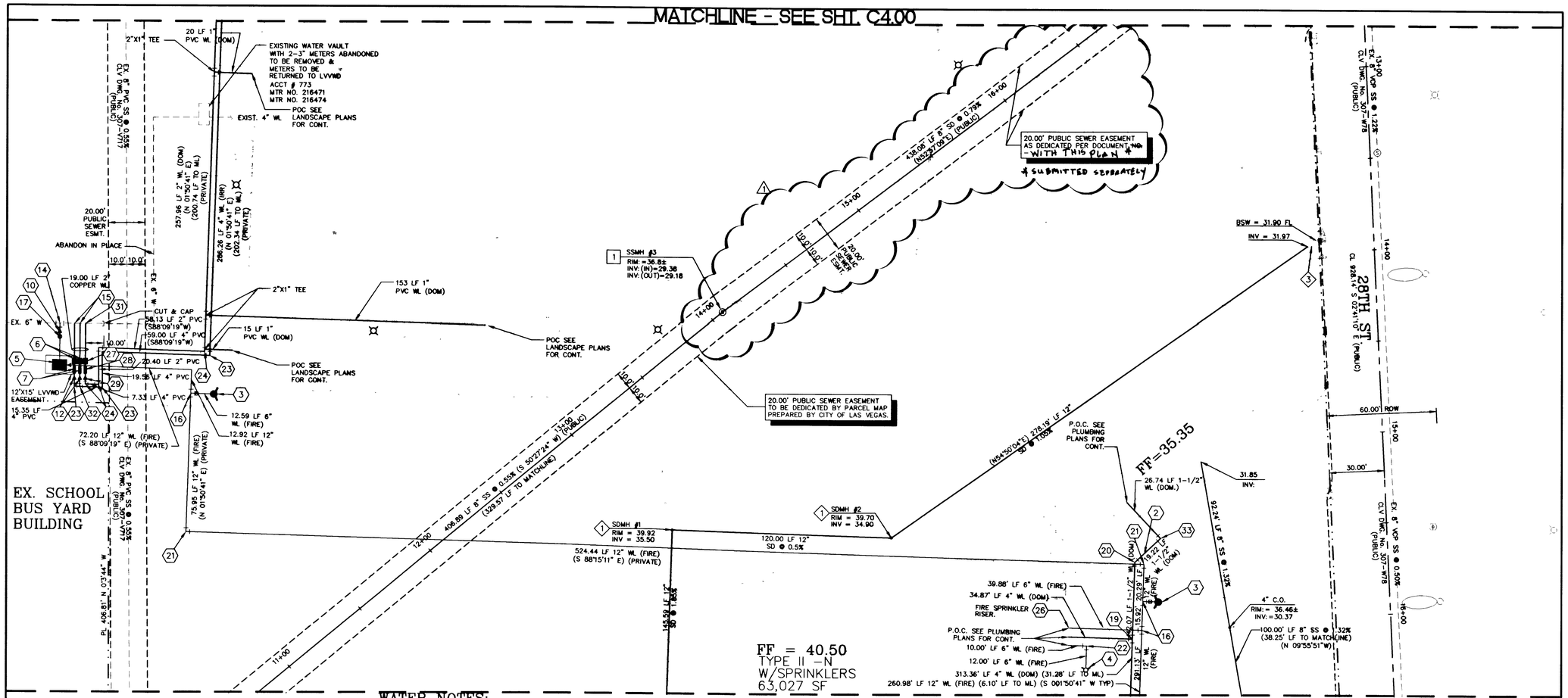

NOTES:

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-168.
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.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 STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
11. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISER.
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 STUBS 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", U.D.A.C.S. SECTION 2.19.01 "A".
17. THE EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY.

33016

WATER NOTES:

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 (SIAMESE 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.

SANITARY SEWER NOTES:

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.

STORM DRAIN NOTES:

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.

REDUCED PRESSURE PRINCIPLE ASSEMBLY - 4-2": 1-1"

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 LVVWD.

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.

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY - 2-8":

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE 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 TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

ABANDONMENT OF EXISTING SERVICE(S)- LARGER THAN 2" (2) 3" WM ACCOUNT NO. 773

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS IN PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING OF THE METER. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICES AS FOLLOWS:
ALL VALVES TO BE ABANDONDED IN THE CLOSED POSITION, UNLESSS SHOWN OTHERWISE, BY REMOVING A MINIUM OF THE TOP 12 INCHES OF THE VALVE BOX AND THE NFILLING THE REMAINING PORTION OF THE VALVE BOX WITH CONCRETE HAVING A COMPRESSIVE STRENGHT OF AT LEAST 2,000 PSI.
THE CONTRACTOR SHALL CUT THE EXISTING PIPE 3' + BEYOND THE ABANDONED VALVE 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 PLATE NO. 5 AT ALL CAP OR PLUG LOCATIONS. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL THEN REMOVE AND /OR BACKFILL THE ABANDONED VAULTS.

TRENCH BACKFILL:
TRENCH BACKFILL SHALL COMFORM TO APPLICABLE C.C.A.U.S.D. DWG. NO. 502, 503, AND 504.

NOTE:
FDC SHALL BE CONNECTED TO ALL BUILDING SPRINKLER SYSTEMS.

NOTE:
ALL UTILITIES, SANITARY SEWER AND STORM DRAIN ONSITE ARE PRIVATE, UNLESS OTHERWISE NOTED.

NOTE:
FOR FIRE FLOW AND APPROVAL SEE FIRE CONTROL SHEET C8.00.

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

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

SEWER CONTRIBUTION:

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

APPROVALS
FIRST APPROVAL 4/13/01
L.V.V.W.D. 6/25/01 DATE
CLV DWG DEPARTMENT 6/25/01 DATE

BENCHMARK

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

BASIS OF BEARING

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.

SAFETY ALERT
Call Before You Overhead
1-702-593-6111

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600

REPLOT

REVISIONS

REV	DESCRIPTION	DATE	BY
1	REVISED SEWER LOCATION 6/26/01	6/11/01	CLN

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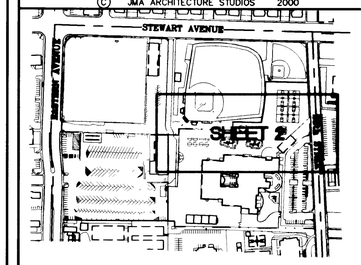

KEY MAP
N.T.S.

DO NOT SCALE DRAWINGS

SEAL

CCSD PROJECT NO.
CCSD REVIEW
APPROVED BY:
DATE:
DATE: 10/31/00
DRAWN BY: DWW-MW-LB-D.Z.
CHECKED BY: CLN
CLN
BID DOCUMENT
A/E PROJECT NO. 00046

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CONSTRUCTION MANAGEMENT
4828 PEARL ST.
LAS VEGAS, NEVADA 89121

SUNRISE ACRES ELEMENTARY SCHOOL

UTILITY PLAN - SHEET 2

SHEET NO. C4.01
SHEET 11 of 26
DRAWING NUMBER 715-134