

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,875 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:
 SQUARE FOOTAGE: 24,794 SF
 BUILDING HEIGHT: 74 FEET
 NUMBER OF STORIES: 4
 TYPE OF CONSTRUCTION: II-A
 FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

NOTE

(2) 1" RPPA'S AND (1) 1-1/2" RPPA REDUCED PRESSURE PRINCIPLE ASSEMBLY

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 LVVMD. 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.

NOTE

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) (1) 8" DIA. LATERAL, 8" GATE VALVE AND ALL APPURTENANCES WITH THE UDACS PLATE NO. 11C. 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 FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE TO CONTRACTOR

CONTRACTOR TO VERIFY ALL EXISTING SEWER, STORM DRAIN, & WATER SIZES, INVERTS AND LOCATIONS. IF A DISCREPANCY EXISTS, CONTRACTOR TO NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.

STREET LIGHT NOTES

1. ALL WORK ASSOCIATED WITH STREET LIGHTING SHALL BE DONE UNDER DIRECT SUPERVISION OF THE CITY OF LAS VEGAS ELECTRICAL SHOP AND THE CLV OFF-SITE INSPECTOR. ALL SERVICE REQUIREMENTS SHALL BE DETERMINED IN THE FIELD BY CLV REPRESENTATIVE. IF REQUIRED, PER NOTE #6 OF THE STREET LIGHT NOTES(C2) WITHIN THIS PLAN SET. ANY QUESTION PLEASE CALL: ELECTRICAL SHOP @ 228-6331, OFF-SITE INSPECTOR @ 228-6337.
2. ALL STREET LIGHT CONDUITS ARE TO BE INSTALLED UNDER SIDEWALK AREA(TYP.).

LEGEND / QUANTITIES

— FIRE HYDRANT ASSEMBLY— INCLUDES TAPPING SLEEVE, 8" DIA. LATERAL, 8" GATE VALVE AND ALL APPURTENANCES	2 EA.
— COMPACT 8" DCDA PER UDACS PLATE 11C.	1 EA.
— R.P.P.A. PER UDACS PLATE 11A (SIZE PER PLAN)	1 1/2" - 2 EA.
— WATER METER (SIZE PER PLAN)	1 1/2" - 2 EA.
— 6" WATERMAIN	138 LF
— 6" SEWER LATERAL	35 LF
— 1" RPPA	2 EA.
— EXISTING WATER SERVICE AND METER SERVICE TO ABANDONED	4 EA.
— 150 WATT STREET LIGHT(SEE INSTALLATION DETAIL BELOW)	2 EA.
— PULL BOX	3 EA.
— STREET LIGHT END CAP	1 EA.

WATER NOTE:

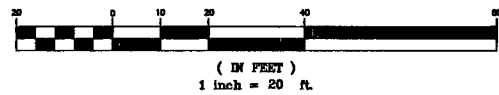
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040.

CONSTRUCTION NOTES:

1. EX. WATER METER TO BE ABANDONED PER NOTE THIS SHIT
2. NOT USED
3. RELOCATED 5/8" WATER METER PER UDACS PLT. 1D
4. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 7 FOR LOCATION SEE DETAIL "A" THIS SHEET.
5. INSTALL 8" WJ OR APPROVED EQUAL TAPPING SLEEVE & 8" TAPPING VALVE PER UDACS PLATE 22
6. ABANDON EXISTING 5/8" SERVICE, CUT AND CAP PER NOTE THIS SHEET
7. NOT USED
8. INSTALL 1" RPPA PER UDACS PLT. #11A
9. INSTALL COMPACT 8" DCDA PER UDACS PLATE 11C.
10. INSTALL 2" CONDUIT W/ 2-#4, 1-#8 THW WIRE
11. INSTALL PULL BOX
12. INSTALL END CAP
13. INSTALL 2" AND 1-1/4" SCH. 40 PVC
14. INSTALL 2" CONDUIT W/ #8 PULL WIRE
15. INSTALL 150 WATT STREET LIGHT PER INSTALLATION DETAIL BELOW.
16. INSTALL 6"x1" SERVICE SADDLE PER UDACS PLT. 1D
17. CONTRACTOR TO VERIFY EXISTING SEWER LINE ELEVATIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER



GRAPHIC SCALE



EIGHTH STREET

BONNEVILLE AVENUE

CLARK AVENUE

NOTE

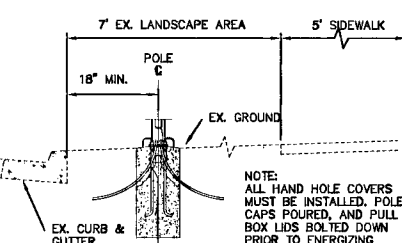
THE LATERAL MUST BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. THE CONTRACTOR SHALL CUT THE EXISTING PIPE WHERE SHOWN ON THE DRAWING, AND INSTALL A CAP COMPLETE WITH THRUST BLOCK, WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION(S). THE INSTALLATION OF A PLUG MAY BE PERMITTED WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CAP OR PLUG LOCATIONS, IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 5.

SEE SEWER PROFILE BELOW

- 4 - SERVICES
 SP#5058 (METER # 322672)
 SP#5070 (METER # 221003)
 SP#5087 (METER # 173768)
 SP#5089 (METER # 288605)

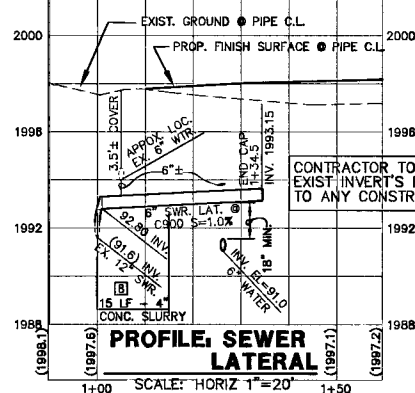
NOTE:

ABANDONMENT OF EXISTING SERVICE(S) - 2" AND SMALLER
 THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVMD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS: EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVMD COMMUNICATION SUPPORT CENTER AT (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

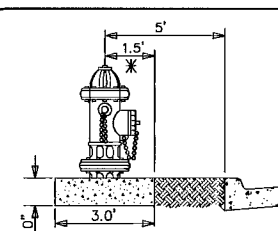


STREET LIGHT INSTALLATION

NOT TO SCALE



PROFILE, SEWER LATERAL



FIRE HYDRANT DETAIL

NOT TO SCALE

BASIS OF BEARINGS

NORTH 27°42'28" EAST, BEING THE BEARING BETWEEN FOUND MONUMENTS ON THE CENTERLINE OF EIGHTH STREET BETWEEN BONNEVILLE AVENUE AND CLARK AVENUE AS SHOWN BY MAP THEREOF IN FILE 67, PAGE 78 OF SURVEYS ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA LYING WITHIN THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA.

BENCHMARK

RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF BONNEVILLE AND 9TH STREET PER CITY OF LAS VEGAS STAMPED "CITY OF LAS VEGAS, 01/01 34568, PLS 5094"

ELEVATION: 1995.97 FEET, 608.3734 METERS, NAVD'88

Call before you Dig.
 1-702-455-7511
 1-702-229-6611

Call before you Dig.
 811 OR 1-800-227-2800
 UNDERGROUND SERVICE (USA)

Call before you Dig.
 1-702-227-2929

APPROVAL

[Signature] 4/29/09
 CITY FIRE MARSHAL DATE

LAS VEGAS VALLEY WATER DISTRICT
 PROJ. # 115564

DATE

PROJECT NO.

388-A279

G.C. WALLACE COMPANIES

ENGINEERS | PLANNERS | SURVEYORS
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146
 T: 702.894.2000 • F: 702.894.2299 • GOWALLACE.COM

LAS VEGAS

SACRAMENTO - MESQUITE
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 Ben Morris

KENNY LAW OFFICE

IMPROVEMENT PLANS

UTILITY + STREET LIGHT PLAN

DRAWING

U1

4 OF 7 SHTS

H#29358

CLV DWG # 10715218

DATE: 4-27-09
 CSW APP
 DATE: 4-27-09
 ASEV APP
 DATE: 4-27-09
 REV
 DATE: 4-27-09
 DESCRIPTION

% COMPLETE