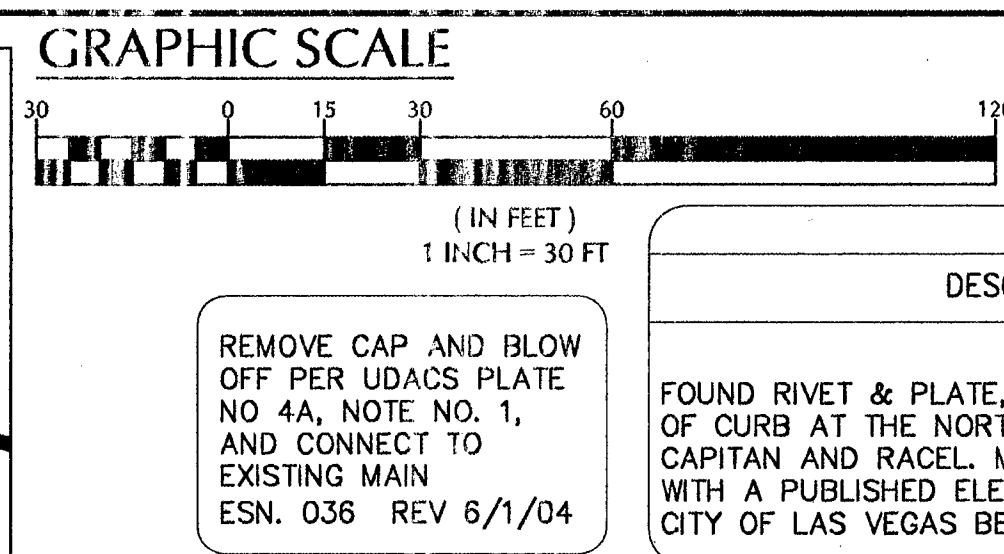
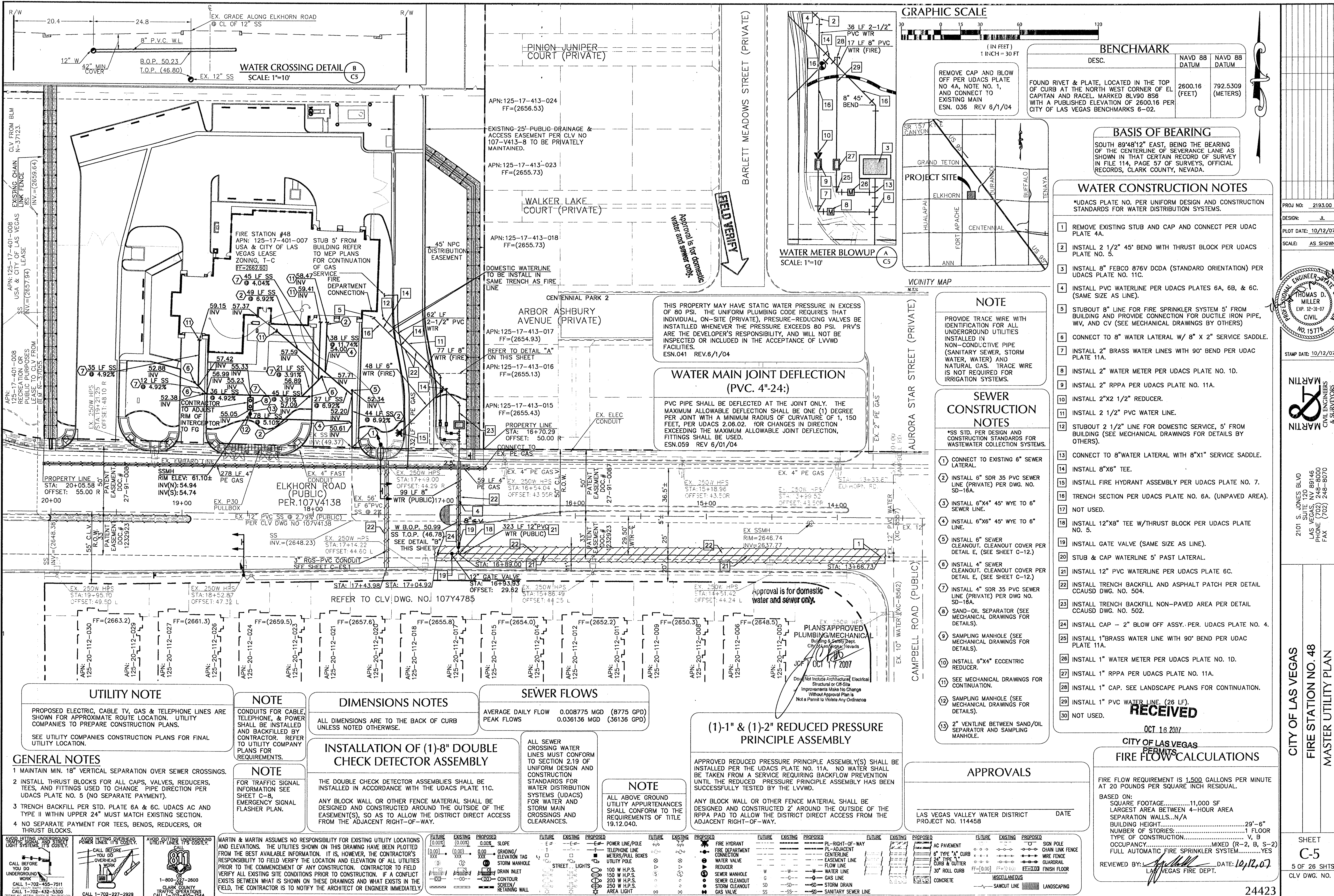




BENCHMARK

DESC.	NAVD 88 DATUM	NAVD 88 DATUM
FOUND RIVET & PLATE, LOCATED IN THE TOP OF CURB AT THE NORTH WEST CORNER OF EL CAPITAN AND RACEL, MARKED 8LV90 856 WITH A PUBLISHED ELEVATION OF 2600.16 PER CITY OF LAS VEGAS BENCHMARKS 6-02.	2600.16 (FEET)	792.5309 (METERS)

BASIS OF BEARING

SOUTH 89°48'12" EAST, BEING THE BEARING OF THE CENTERLINE OF SEVERANCE LANE AS SHOWN IN THAT CERTAIN RECORD OF SURVEY IN FILE 114, PAGE 57 OF SURVEYS, OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

WATER CONSTRUCTION NOTES

*UDACS PLATE NO. PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS.

- 1 REMOVE EXISTING STUB AND CAP AND CONNECT PER UDAC PLATE 4A.
- 2 INSTALL 2 1/2" 45° BEND WITH THRUST BLOCK PER UDACS PLATE NO. 5.
- 3 INSTALL 8" FEBCO 876V DCDA (STANDARD ORIENTATION) PER UDACS PLATE NO. 11C.
- 4 INSTALL PVC WATERLINE PER UDACS PLATES 6A, 6B, & 6C. (SAME SIZE AS LINE).
- 5 STUBOUT 8" LINE FOR FIRE SPRINKLER SYSTEM 5' FROM BUILDING AND PROVIDE CONNECTION FOR DUCTILE IRON PIPE, W/V, AND CV (SEE MECHANICAL DRAWINGS BY OTHERS).
- 6 CONNECT TO 8" WATER LATERAL W/ 8" X 2" SERVICE SADDLE.
- 7 INSTALL 2" BRASS WATER LINES WITH 90° BEND PER UDAC PLATE 11A.
- 8 INSTALL 2" WATER METER PER UDACS PLATE NO. 1D.
- 9 INSTALL 2" RPPA PER UDACS PLATE NO. 11A.
- 10 INSTALL 2"x2 1/2" REDUCER.
- 11 INSTALL 2 1/2" PVC WATER LINE.
- 12 STUBOUT 2 1/2" LINE FOR DOMESTIC SERVICE, 5' FROM BUILDING (SEE MECHANICAL DRAWINGS FOR DETAILS BY OTHERS).
- 13 CONNECT TO 8" WATER LATERAL WITH 8"x1" SERVICE SADDLE.
- 14 INSTALL 8"x6" TEE.
- 15 INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE NO. 7.
- 16 TRENCH SECTION PER UDACS PLATE NO. 6A. (UNPAVED AREA).
- 17 NOT USED.
- 18 INSTALL 12"x8" TEE W/THRUST BLOCK PER UDACS PLATE NO. 5.
- 19 INSTALL GATE VALVE (SAME SIZE AS LINE).
- 20 STUB & CAP WATERLINE 5' PAST LATERAL.
- 21 INSTALL 12" PVC WATERLINE PER UDACS PLATE 6C.
- 22 INSTALL TRENCH BACKFILL AND ASPHALT PATCH PER DETAIL CCAUSD DWG. NO. 504.
- 23 INSTALL TRENCH BACKFILL NON-PAVED AREA PER DETAIL CCAUSD DWG. NO. 502.
- 24 INSTALL CAP - 2" BLOW OFF ASSY. PER UDACS PLATE NO. 4.
- 25 INSTALL 1" BRASS WATER LINE WITH 90° BEND PER UDAC PLATE 11A.
- 26 INSTALL 1" WATER METER PER UDACS PLATE NO. 1D.
- 27 INSTALL 1" RPPA PER UDACS PLATE NO. 11A.
- 28 INSTALL 1" CAP. SEE LANDSCAPE PLANS FOR CONTINUATION.
- 29 INSTALL 1" PVC WATER LINE. (26 LF).
- 30 NOT USED.

NOTE

PROVIDE TRACE WIRE WITH IDENTIFICATION FOR ALL UNDERGROUND UTILITIES INSTALLED IN NON-CONDUCTIVE PIPE (SANITARY SEWER, STORM WATER, WATER) AND NATURAL GAS. TRACE WIRE IS NOT REQUIRED FOR IRRIGATION SYSTEMS.

SEWER CONSTRUCTION NOTES

*SS STD. PER DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS.

- 1 CONNECT TO EXISTING 6" SEWER LATERAL.
- 2 INSTALL 6" SDR 35 PVC SEWER LINE (PRIVATE) PER DWG. NO. SD-16A.
- 3 INSTALL 6"x4" 45° WYE TO 6" SEWER LINE.
- 4 INSTALL 6"x6" 45° WYE TO 6" LINE.
- 5 INSTALL 6" SEWER CLEANOUT. CLEANOUT COVER PER DETAIL E, (SEE SHEET C-12).
- 6 INSTALL 4" SEWER CLEANOUT. CLEANOUT COVER PER DETAIL E, (SEE SHEET C-12).
- 7 INSTALL 4" SDR 35 PVC SEWER LINE (PRIVATE) PER DWG. NO. SD-16A.
- 8 SAND-OIL SEPARATOR (SEE MECHANICAL DRAWINGS FOR DETAILS).
- 9 SAMPLING MANHOLE (SEE MECHANICAL DRAWINGS FOR DETAILS).
- 10 INSTALL 6"x4" ECCENTRIC REDUCER.
- 11 SEE MECHANICAL DRAWINGS FOR CONTINUATION.
- 12 SAMPLING MANHOLE (SEE MECHANICAL DRAWINGS FOR DETAILS).
- 13 2" VENTLINE BETWEEN SAND/OIL SEPARATOR AND SAMPLING MANHOLE.

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT
PROJECT NO. 114458

RECEIVED

OCT 16 2007

CITY OF LAS VEGAS

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON:

- SQUARE FOOTAGE.....11,000 SF
- LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS.....N/A
- BUILDING HEIGHT.....29'-6"
- NUMBER OF STORIES.....1 FLOOR
- TYPE OF CONSTRUCTION.....V, B
- OCCUPANCY.....MIXED (R-2, B, S-2)
- FULL AUTOMATIC FIRE SPRINKLER SYSTEM.....YES

REVIEWED BY: *[Signature]* DATE: 10/12/07

LAS VEGAS FIRE DEPT.

UTILITY NOTE

PROPOSED ELECTRIC, CABLE TV, GAS & TELEPHONE LINES ARE SHOWN FOR APPROXIMATE ROUTE LOCATION. UTILITY COMPANIES TO PREPARE CONSTRUCTION PLANS.

SEE UTILITY COMPANIES CONSTRUCTION PLANS FOR FINAL UTILITY LOCATION.

GENERAL NOTES

- 1 MAINTAIN MIN. 18" VERTICAL SEPARATION OVER SEWER CROSSINGS.
- 2 INSTALL THRUST BLOCKS FOR ALL CAPS, VALVES, REDUCERS, TEES, AND FITTINGS USED TO CHANGE PIPE DIRECTION PER UDACS PLATE NO. 5 (NO SEPARATE PAYMENT).
- 3 TRENCH BACKFILL PER STD. PLATE 6A & 6C. UDACS AC AND TYPE II WITHIN UPPER 24" MUST MATCH EXISTING SECTION.
- 4 NO SEPARATE PAYMENT FOR TEES, BENDS, REDUCERS, OR THRUST BLOCKS.

NOTE

CONDUITS FOR CABLE, TELEPHONE, & POWER SHALL BE INSTALLED AND BACKFILLED BY CONTRACTOR. REFER TO UTILITY COMPANY PLANS FOR REQUIREMENTS.

NOTE

FOR TRAFFIC SIGNAL INFORMATION SEE SHEET C-8, EMERGENCY SIGNAL FLASHER PLAN.

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NOTE

FOR TRAFFIC SIGNAL INFORMATION SEE SHEET C-8, EMERGENCY SIGNAL FLASHER PLAN.

DIMENSIONS NOTES

ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.

INSTALLATION OF (1)-8" DOUBLE CHECK DETECTOR ASSEMBLY

THE DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 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.

NOTE

MARTIN & MARTIN ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

SEWER FLOWS

AVERAGE DAILY FLOW 0.008775 MGD (8775 GPD)
PEAK FLOWS 0.036136 MGD (36136 GPD)

NOTE

ALL SEWER CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE

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

(1)-1" & (1)-2" 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 LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED 2' AROUND THE OUTSIDE OF THE RPPA PAD TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT
PROJECT NO. 114458

DATE

CITY OF LAS VEGAS

FIRE STATION NO. 48

MASTER UTILITY PLAN

SHEET

C-5

5 OF 26 SHOTS
CLV DWG. NO.

24423

STAMP

PROJ NO: 2193.00
DESIGN: JL
PLOT DATE: 10/12/07
SCALE: AS SHOWN
STAMP DATE: 10/12/07

ENGINEER

THOMAS D. MILLER
EXP. 12-31-07
CIVIL
NO. 15716

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FAX (702) 248-8070