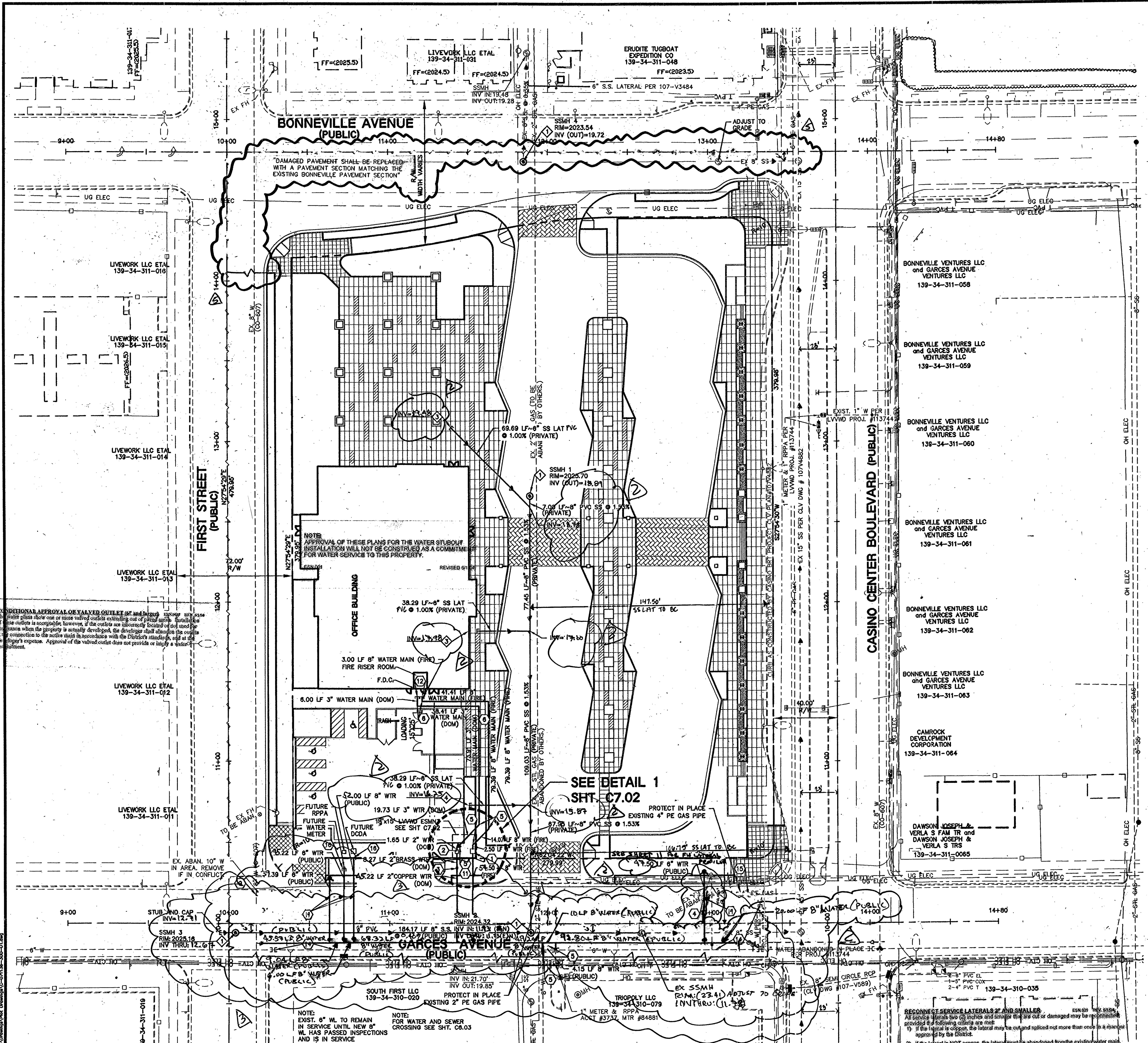

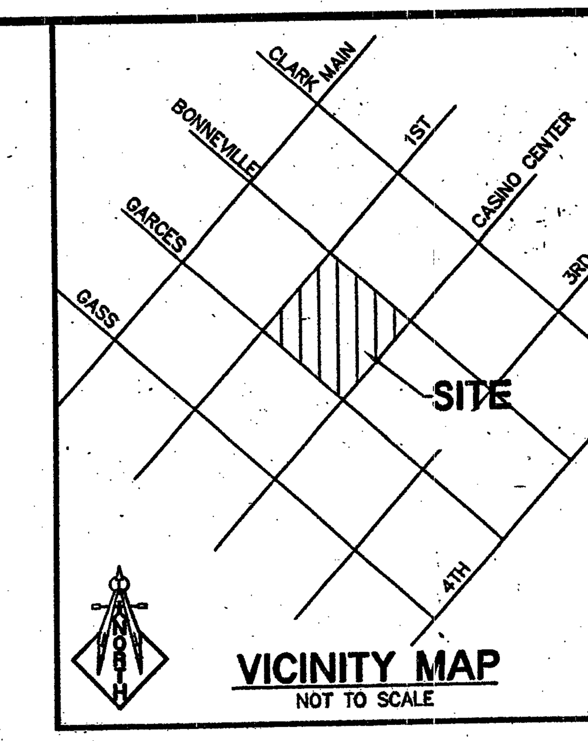

VICINITY MAP
NOT TO SCALE

SEWER CONNECTION NOTE:

ONE OR MORE SEGMENTS 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 COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

OR

APPROPRIATE OTHER UNITS MUST RECORD PRIOR TO THE RECORDATION OF THIS FINAL MAP TO PROVIDE LEGAL ACCESS.

WATER CONSTRUCTION NOTES:

– ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (U.D.A.C.S.)" LATEST EDITION.
– NOT ALL NOTES USED ON THIS SHEET –

1. INSTALL 8" DCDA PER U.D.A.C.S. PLATE No. 20A.
2. INSTALL 2" RPPA PER U.D.A.C.S. PLATE No. 11A.
3. INSTALL 2" WATER SERVICE & METER PER U.D.A.C.S. PLATE No. 1D.
4. INSTALL FIRE HYDRANT W/GATE VALVE PER U.D.A.C.S. PLATE No. 7.
5. INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 5.
6. INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER U.D.A.C.S. PLATE No. 5.
8. INSTALL 8" TEE W/ THRUST BLOCK PER U.D.A.C.S PLT. 5
9. INSTALL 8"X8" MJ(OR APPROVED EQUALL) TAPPING SLEEVE & 8" TAPPING VALVE PER U.D.A.C.S PLT. 22.
10. INSTALL 8" IN-LINE GATE VALVE W/ANCHOR BLOCK PER U.D.A.C.S. PLATE No. 3.
11. INSTALL REDUCER (SAME SIZE AS PIPES) W/ANCHOR BLOCK PER U.D.A.C.S. PLATE No. 3.
12. STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
13. STUB & CAP WATER SERVICE. REFER TO LANDSCAPING/ IRRIGATION PLANS FOR CONTINUATION.
14. ABANDON WATER LINE IN PLACE
15. REMOVE CAP AND CONNECT.
16. STUB & CAP FOR FUTURE USE
17. INSTALL 8"X 2" SERVICE SADDLE AND 2" CORP. STOP PER UDACS PLT. 1D.
18. INSTALL 8"X 6" TEE & 6" VALVE PER UDACS PLT. 22.
19. INSTALL 45° VERTICAL BEND

SEWER CONSTRUCTION NOTES:

– NOT ALL NOTES USED ON THIS SHEET –

1. INSTALL 48" SANITARY SEWER MANHOLE PER C.C.A.U.S.D. No. 403 WITH CONCRETE COLLAR PER C.C.A.U.S.D. No. 408. REFER TO C.C.A.U.S.D. No. 409 FOR MANHOLE COVER AND RING.
2. INSTALL SANITARY SEWER CAP.
3. STUB SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
4. STUB SANITARY SEWER FOR FUTURE USE.

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA): (1)-8"

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE U.D.A.C.S. PLATE No.20A.

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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (1)-2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. 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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE HYDRANT AND LATERAL ABANDONMENT:

(EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING(S), THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. THE EXISTING HYDRANT SHALL BE DELIVERED TO THE DISTRICT. THE EXISTING VALVE SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST 2,000 psi. THE REMAINING PORTION OF THE LATERAL SHALL BE CUT WITHIN THREE (3) FEET OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED. THE EXISTING CONCRETE HYDRANT PAD SHALL BE REMOVED.
ESN.015A

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040 AND DOWNTOWN CENTENNIAL PLAN.

FIRE FLOW CALCULATIONS

BASED ON:

SQUARE FOOTAGE:	23,507
LARGEST AREA BETWEEN 4 HR. AREA SEPARATION WALL:	23,507
BUILDING HEIGHT:	65'
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	II B
SPRINKLER SYSTEM:	YES
OCCUPANCY:	B
ROOF CONSTRUCTION:	METAL DECK & CONCRETE
FLOW REQUIRED @ 20 PSI RESIDUAL:	1625
MAX. STORAGE HEIGHT:	8'

EXISTING STATIC WATER PRESSURE IS 54.3 PSI IN STREET.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: [signature] DATE: 6/16/09

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1,625 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

[signature] 7-22-09
LAS VEGAS VALLEY WATER DISTRICT Proj# 115696 DATE:

GRAPHIC SCALE

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

A.P.N.:

139-34-301-008

BASIS OF BEARINGS:

THE BEARING SOUTH 27°54'30" WEST AS SHOWN ON THE CENTERLINE OF CASINO CENTER BOULEVARD, AS DELINEATED ON THAT CERTAIN RECORD OF SURVEY AS FILED IN FILE 67, AT PAGE 79, IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA, HAS BEEN TAKEN AS THE BASIS OF BEARINGS SHOWN HEREON.

BENCHMARK:

CLV BM 6C01 34SW6
RIVET & PLATE IN TOP OF CURB ON THE EAST SIDE OF MAIN BETWEEN BONNEVILLE & GARCES AT LIGHT POLE
ELEVATION: 2027.08 FEET / 617.8544 METERS
(NAVD '88 DATUM)

SAFETY ALERT
Call Before You Overhead
1-702-227-2929
Call before you UnderGround
1-702-455-7544 CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRAVEL
Call before you dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR 1-800-227-2929
AND 1-702-455-7544

H #31098

LEGEND

CL OR SURVEY LINE	EASEMENT LINE	
PROPERTY LINE	SAWCUT LINE	
ROW LINE 118104	SCARP LINE	

DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
EXISTING:	(2210)								(12.34) BC								BWV				
PROPOSED:	2210								12.34 BC								BWV				

MANHOLE DESCRIPTIONS
Ⓢ = SANITARY SEWER
Ⓓ = STORM DRAIN
Ⓔ = ELECTRICAL
Ⓣ = TELEPHONE

REVISIONS

REV.:	DATE:	BY:	DESCRIPTION:
5	7-21-10	TTE	REMOVE SAW CUT LINE FROM BONNEVILLE ADD NOTE
3	3-4-10	TTE	RELOCATE SAW CUT LINE TO SOUTH LID OF GARCES AVE
2			REVISE EX. WATER & SS TO MATCH AS-BUILT &
2	9-16-09	JPS	UPDATE PROPOSED UTILITIES TO MATCH

3/9/2010
9/22/09

LOCHSA ENGINEERING
6345 SOUTH JONES BOULEVARD SUITE 100
LAS VEGAS, NV 89118
PHONE: (702) 365-9312, FAX: (702) 365-9317

UTILITY PLAN (AS-BUILT)

RTC DOWNTOWN BUS TRANSFER TERMINAL

DRAWN BY:	DATE:	SHEET
MDS	04-24-09	
DESIGNED BY:	DATE:	
MDS	04-24-09	
CHECKED BY:	DATE:	TITLE:
MDS	04-24-09	
PROJECT No.: 071136.00	SCALE: 1"=30'	

SEAL: PROFESSIONAL ENGINEER – STATE OF NEVADA, TED BOSTON, EXP. 12-31-10, CIVIL, No. 11286, 5-26-09

SHEET No. C3.01
SHEET 4 OF 16
DRAWING No. 107V 5241

As-Built

125597
122055
RGm 119544
RGm 118358

5/28/2009 7:05 AM C:\Civil 3D Projects\071136\Drawings\Plot Drawings\C-071136-300-UT.dwg