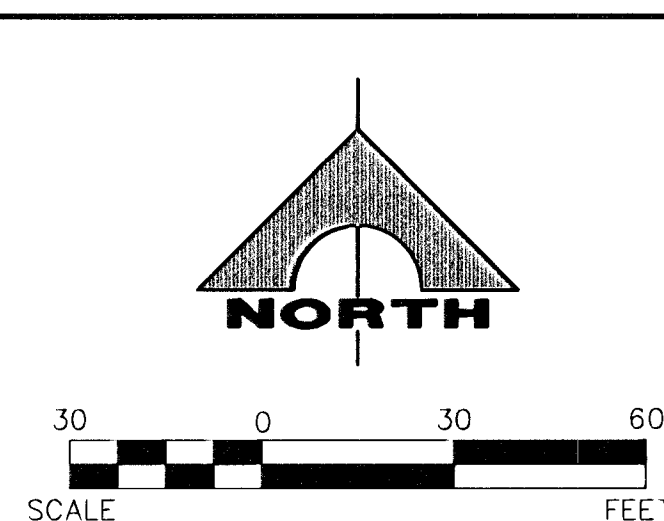
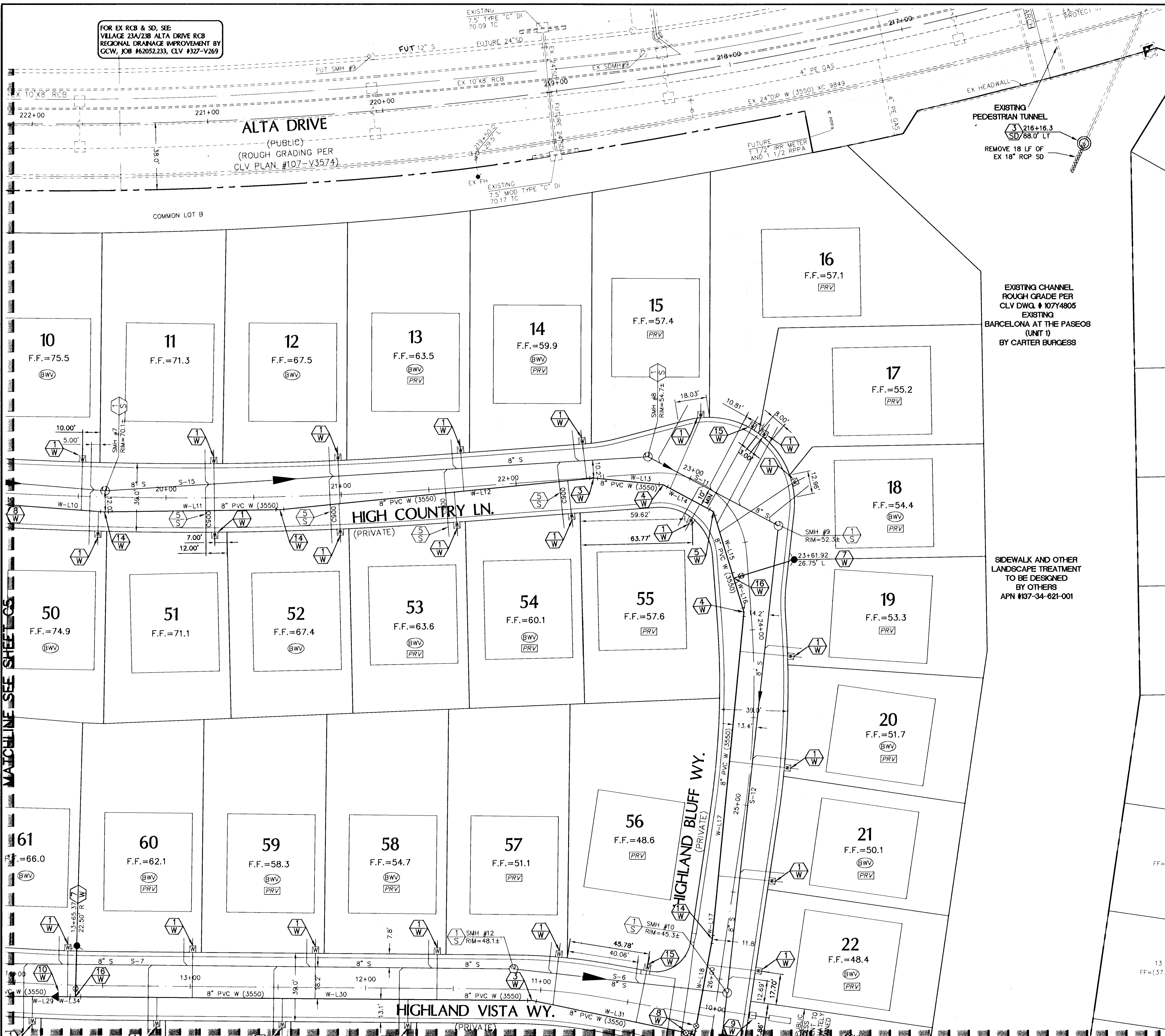
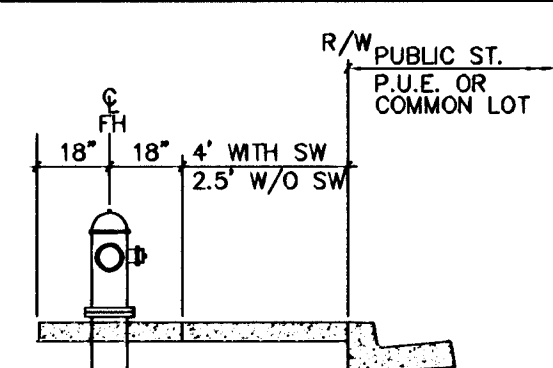


FOR EX RCB & SD, SEE
VILLAGE 23A/23B ALTA DRIVE RCB
REGIONAL DRAINAGE IMPROVEMENT BY
GCW, JOB #62052233, CLV #327-V269



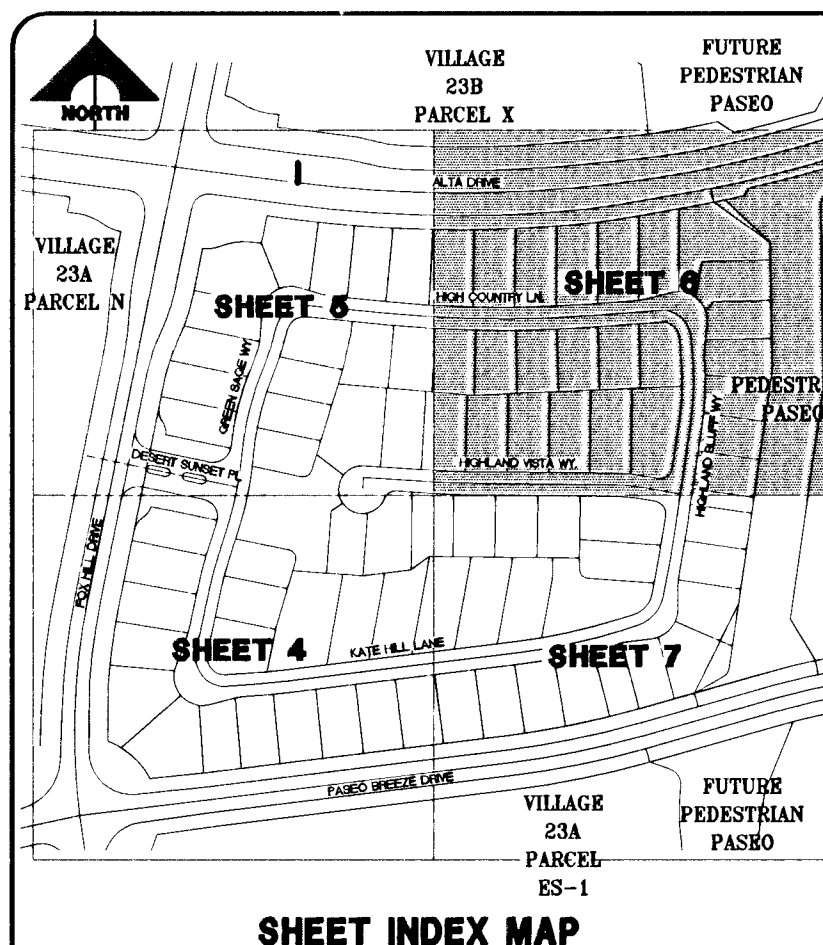
UTILITY LEGEND

---	EX 8" WL	EXISTING WATER LINE W/SIZE
---	8" PVC WL	PROPOSED WATER LINE W/SIZE
---	1" PROPOSED WATER LATERAL & 3/4" METER PER UDACS PLATE 2 OR 1" METER PER UDACS PLATE 4 AS NOTED	
---	PROPOSED FIRE HYDRANT W/8" LATERAL & 6" G.V.	
---	EX 8" SS	EXISTING SEWER LINE W/SIZE
---	8" PVC SS	PROPOSED SEWER LINE W/SIZE
---	PROPOSED SEWER LATERAL	
---	PROPOSED SEWER MANHOLE	
---	GATE VALVE	
---	8" WL	WATER REDUCER
---	PROPOSED CAP & BLOW-OFF	
---	CONCRETE DRIVEWAY	
---	REQUIRES BACKWATER VALVE	
---	REQUIRES PRESSURE REDUCER VALVE	
---	EXISTING SEWER MANHOLE	



FIRE HYDRANT LOCATION DETAIL

FIRE HYDRANT TO BE INSTALLED PER UDACS STD. PLATE NO. 40



LINE	LENGTH	BEARING
W-L10	67.68	S89°45'00"E
W-L11	100.00	N89°15'00"E
W-L12	180.00	N84°15'00"E
W-L13	40.00	S84°30'00"E
W-L14	32.25	S62°00'00"E
W-L15	39.58	S17°00'00"E
W-L16	20.15	S17°00'00"E
W-L17	187.16	S53°00'00"W
W-L18	55.08	S10°30'00"W
W-L19	169.38	S89°33'10"E
W-L20	260.51	S89°33'10"E
W-L31	94.76	S78°18'10"E
W-L34	14.32	S89°33'10"E

WATER MAIN JOINT DEFLECTION (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM ALLOWABLE RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

CONSTRUCTION NOTES

- WATER**
- INSTALL 3/4" WATER METER (2 UDACS)
 - INSTALL 8"x8" TEE (31 UDACS)
 - INSTALL 11-1/4" BEND (31 UDACS)
 - INSTALL 22-1/2" BEND (31 UDACS)
 - INSTALL 45" BEND (31 UDACS)
 - INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY (36 UDACS)
 - INSTALL FIRE HYDRANT ASSEMBLY (40 UDACS)
 - INSTALL 8" GATE VALVE & BOX (30 UDACS)
 - INSTALL 5/8" WATER METER W/ 1" RPPA (UDACS)
 - INSTALL 8" x 6" REDUCER (30 UDACS)
 - REMOVE CAP AND BLOW OFF PER UDACS PLATE NO. 36 & CONNECT TO EX WATER LINE. (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX WATER LINE. IF DISCREPANCY EXISTS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION).
 - INSTALL IRRIGATION SLEEVES PER SUMMERLIN STANDARD DRAWING U-18
 - INSTALL 1" WATER METER W/ 1" RPPA (UDACS)
 - INSTALL 5" BEND (UDACS)
 - INSTALL 1" WATER METER (4 UDACS)
 - INSTALL 8"x8" TEE (31 UDACS)
- SEWER**
- INSTALL 48" DIA. SEWER MANHOLE (50 1A, 50 1B, 50 1C, 50 1D, 50 1E, 50 1F, 50 1G, 50 1H, 50 1I, 50 1J, 50 1K, 50 1L, 50 1M, 50 1N, 50 1O, 50 1P, 50 1Q, 50 1R, 50 1S, 50 1T, 50 1U, 50 1V, 50 1W, 50 1X, 50 1Y, 50 1Z)
 - INSTALL 4" SEWER LATERAL (50 2A, 50 2B, 50 2C, 50 2D, 50 2E, 50 2F, 50 2G, 50 2H, 50 2I, 50 2J, 50 2K, 50 2L, 50 2M, 50 2N, 50 2O, 50 2P, 50 2Q, 50 2R, 50 2S, 50 2T, 50 2U, 50 2V, 50 2W, 50 2X, 50 2Y, 50 2Z)
 - REMOVE PLUG & CONNECT TO EX SEWER LATERAL (CONTRACTOR TO VERIFY SIZE, INVERT, AND LOCATION OF EX SEWER LATERAL. IF DISCREPANCY EXISTS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION).
 - ADJUST TO GRADE
 - LATERAL MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS PER UDACS SECTION 2.22.02 B3
- STORM DRAIN**
- INSTALL CLV TYPE "CM2" DROP INLET (SEE PLAN FOR LENGTH)
 - INSTALL NEENAH R-2560-G BEEHIVE DROP INLET

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI.

SQUARE FOOTAGE: LESS THAN 3,600 SQ. FT.

LARGEST AREA BETWEEN 4-HOUR: N/A

AREA SEPARATION WALLS: 2

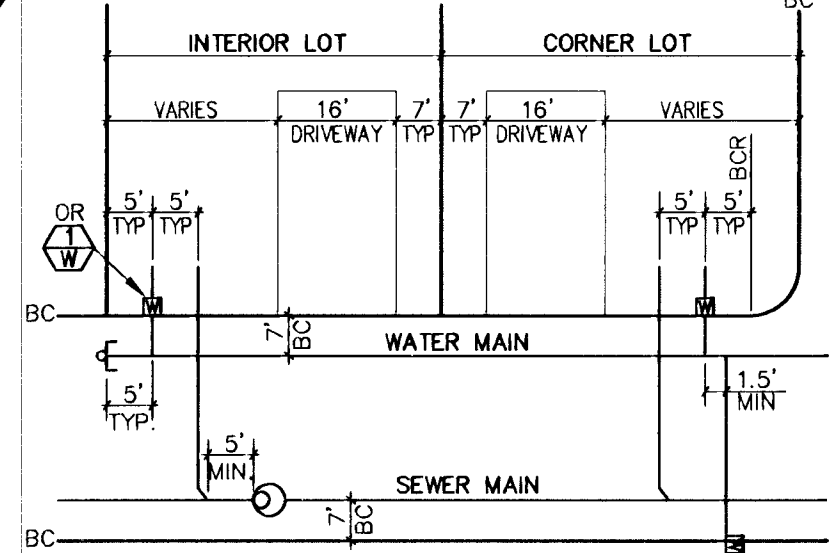
BUILDING HEIGHT: 20 FT. MAX

NUMBER OF STORIES: 2

TYPE OF CONSTRUCTION: V-NR

OCCUPANCY: RESIDENTIAL

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: NO



TYPICAL LATERAL LOCATION DETAIL

UNLESS OTHERWISE SHOWN ON PLAN NOT TO SCALE

BENCHMARK

BM #	DESC.	NAVD 88 DATUM	NAVD 88 DATUM
CLV BM No. D368 3	U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.	3246.71 (FEET)	989.599 (METERS)

BASIS OF BEARINGS

NORTH 05° 59' 55" WEST BEING THE BEARING OF THE WEST LINE OF SECTION 34, T 20 S, R 59 E, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDERS OFFICE, CLARK COUNTY, NEVADA.

LEGAL DESCRIPTION

LOT 7, 8, & COMMON LOT "G" OF BLOCK B OF "SUMMERLIN VILLAGE 23A UNIT NO. 2" ON FILE IN BOOK 121, PAGE 12 OF PLATS IN THE COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA LYING WITHIN SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

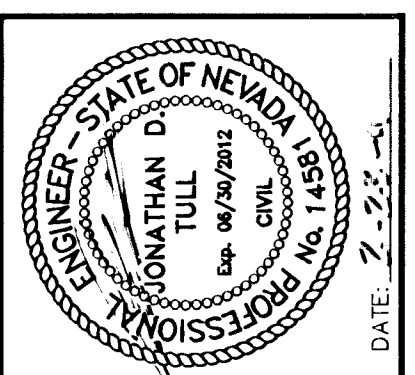
APPROVED FOR CONSTRUCTION

R. Smith
CITY OF LAS VEGAS FIRE DEPARTMENT

APPROVED FOR CONSTRUCTION

Dona Gregory
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 118647 DATE: 03/14/11

CLV DRAWING NO. 107Y4975



PROJECT NO.	DATE	DESCRIPTION
62023-980		
DESIGN		
CHECK		
PLOT DATE	02-22-11	
PLOT TIME	16:48:00	

PROJECT NO. 62023-980

DESIGN: [Signature]

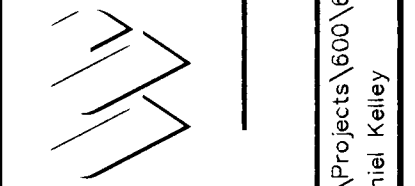
CHECK: [Signature]

PLOT DATE: 02-22-11

PLOT TIME: 16:48:00

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD, LAS VEGAS, NV 89146
T: 702.894.2000 F: 702.894.2299 GCWALLACE.COM

LAS VEGAS - SACRAMENTO - RENO



THE HOWARD HUGHES COMPANY, LLC

SUMMERLIN VILLAGE 23A PARCEL L ANDALUSIA

UTILITY PLAN III

DRAWING C6

6 OF 31 SHTS