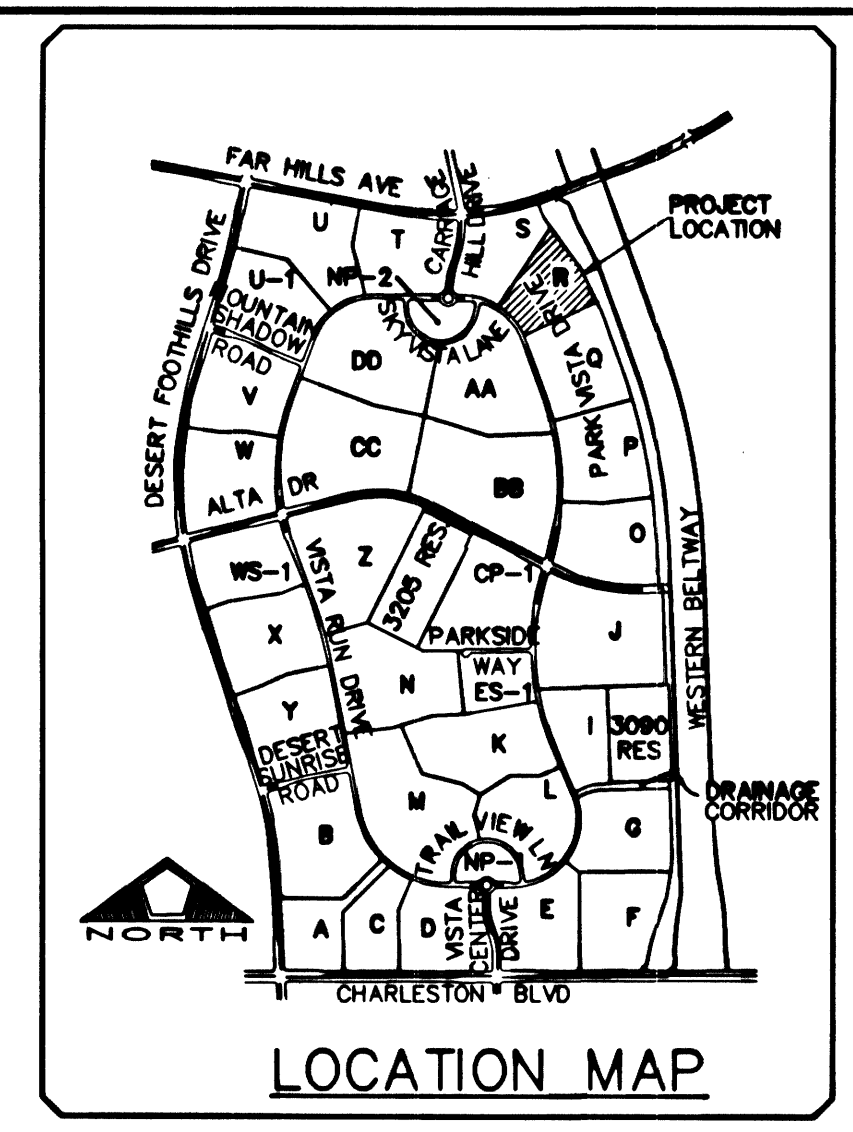
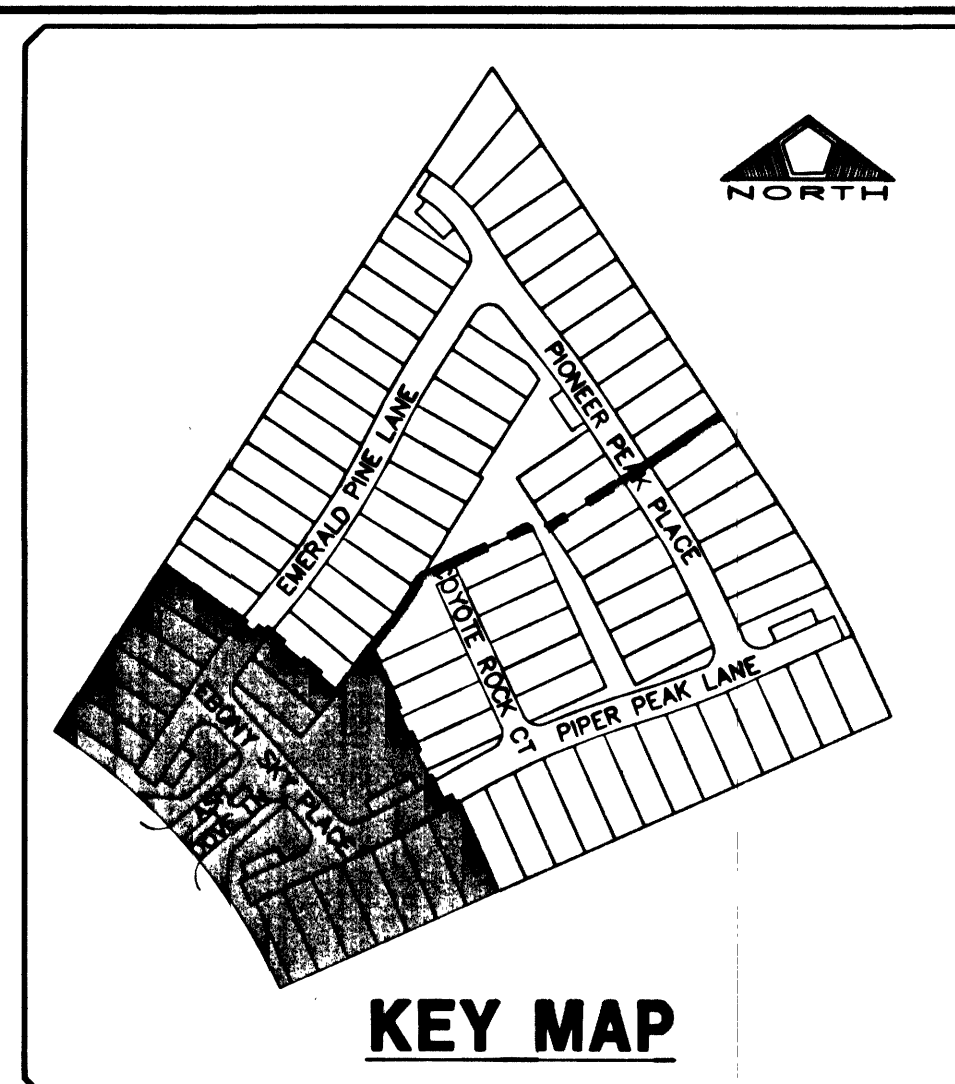
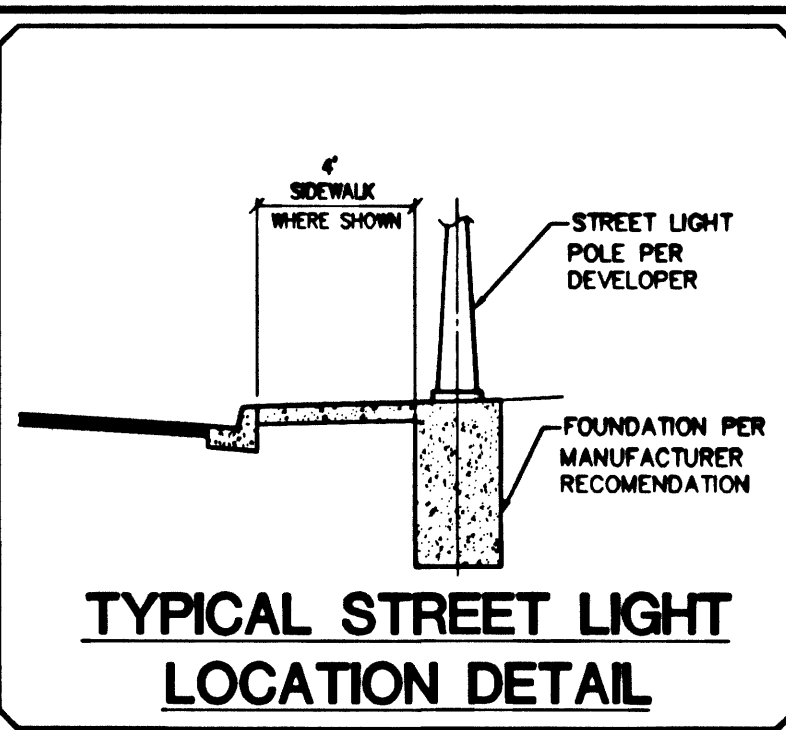
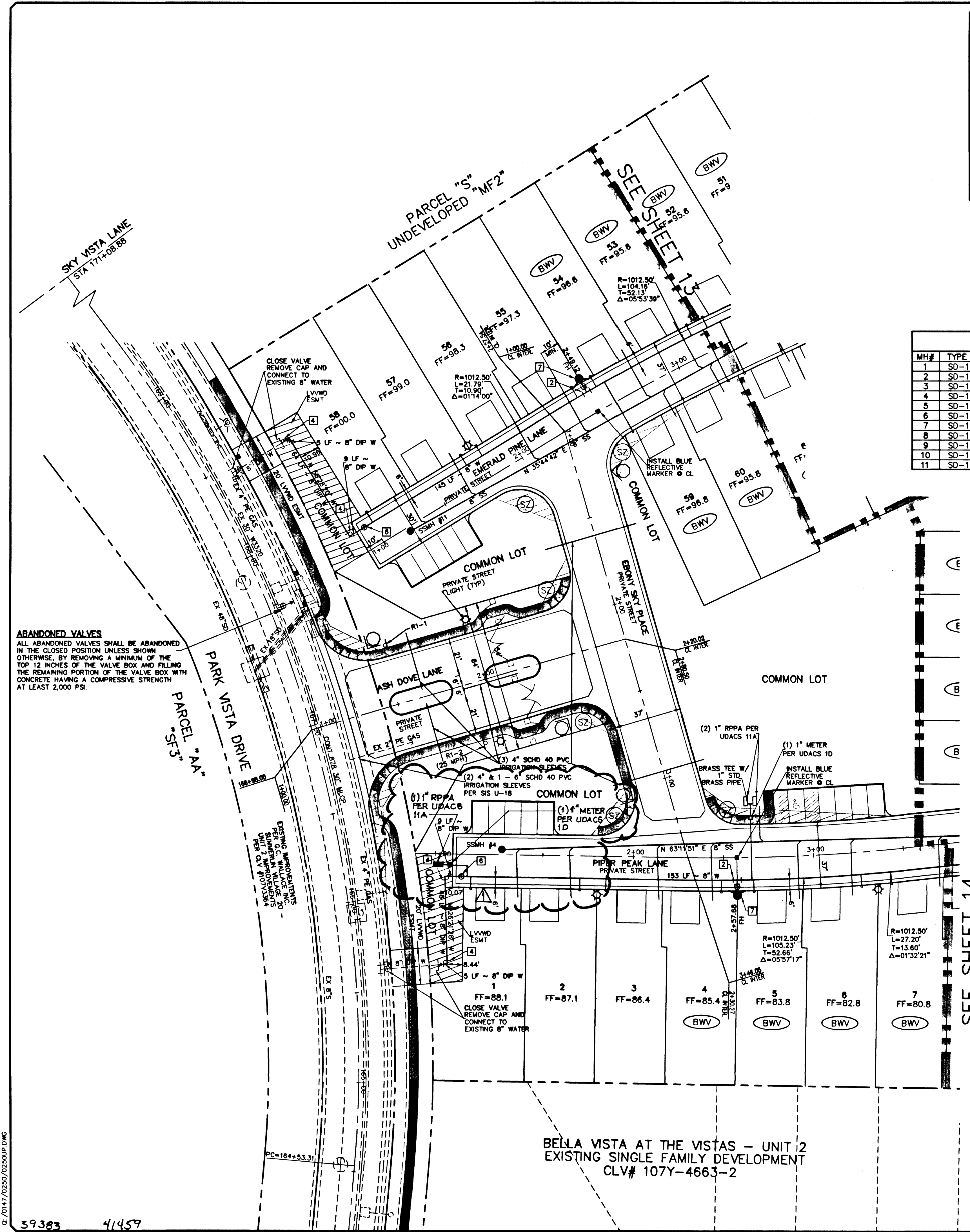
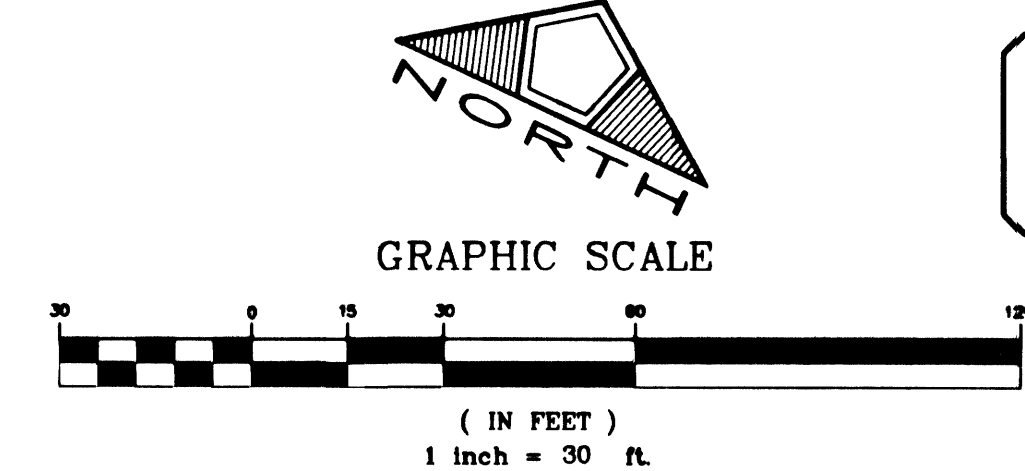




SANITARY SEWER MANHOLE SCHEDULE									
MH#	TYPE	STATION	OFFSET	RIM EL.	N INV EL.	S INV EL.	E INV EL.	W INV EL.	COMMENTS
1	SD-1	8+66.83	PIPER PEAK LANE	1.50 LT	3161.0	---	---	---	T-LOC COATED
2	SD-1	7+51.43	PIPER PEAK LANE	1.50 LT	3164.1	3156.30	---	3156.10	---
3	SD-1	4+76.01	PIPER PEAK LANE	2.00 LT	3173.5	---	---	3166.70	---
4	SD-1	1+27.19	PIPER PEAK LANE	2.80 LT	3186.0	---	---	---	---
5	SD-1	0+93.01	COYOTE ROCK COURT	2.00 RT	3173.9	---	3175.40	---	---
6	SD-1	5+51.42	PIONEER PEAK PLACE	2.00 RT	3181.9	---	3166.90	---	---
7	SD-1	2+47.78	PIONEER PEAK PLACE	2.85 RT	3182.7	3176.10	---	3175.90	---
8	SD-1	1+20.95	PIONEER PEAK PLACE	2.00 LT	3186.1	---	---	3179.80	---
9	SD-1	7+79.69	EMERALD PINE LANE	4.34 RT	3184.6	---	---	3178.80	---
10	SD-1	4+77.21	EMERALD PINE LANE	0.74 RT	3191.7	3185.20	---	3185.40	---
11	SD-1	1+25.70	EMERALD PINE LANE	2.61 RT	3197.2	3190.87	---	---	---



SANITARY SEWER CONTRIBUTION	
AVERAGE FLOW	0.0225 MGD
PEAK FLOW	0.0788 MGD

TRAFFIC LEGEND	
L	9" D3 STREET NAME SIGN (PER STD DWG 250)
O	30" STOP SIGN (R-1) LOCATE AT BCR
■	BLUE REFLECTIVE MARKER
—	STREET SIGN AS NOTED PER PLAN

PRIVATE STREET NOTE:
ALL PRIVATE STREETS ARE PUBLIC DRAINAGE EASEMENTS, CITY OF LAS VEGAS (CLV) SEWER EASEMENTS, & PUBLIC UTILITY EASEMENTS (PUE) TO BE PRIVATELY MAINTAINED BY HOME OWNERS ASSOCIATION (HOA).

BASIS OF BEARING:
CONTROL MONUMENTS 208, 209 AND 211 AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, IN FILE 92, PAGE 42 OF SURVEYS.

WATER FITTINGS LEGEND:	
1	8" TEE
2	8"x8" TEE
3	8"x8" REDUCER
4	8" 90° BEND
5	8" 22.5° BEND
6	8" GATE VALVE
7	FIRE HYDRANT ASSY. W/8" LATERAL
8	2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE 4

NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS.

Call before you do Overhead
1-702-593-6111

Call before you Dig.
1-800-227-2800

FIRE FLOW CALCULATIONS	
FIRE FLOW REQUIREMENTS IS:	1,750 GALLONS PER MINUTE
AT 20 PSI RESIDUAL PRESSURE:	
BASED ON:	
SQUARE FOOTAGE	4,800 SF
LARGEST AREA BETWEEN 4-HOUR	
AREA SEPARATION WALLS:	N/A
BUILDING HEIGHT	20' ±
NUMBER OF STORIES	ONE-STORY
TYPE OF CONSTRUCTION	TYPE 5 NR
OCCUPANCY	SINGLE-FAMILY
FULL AUTOMATIC FIRE SPRINKLER SYSTEM	LOTS 85 & 86 ONLY (SEE SHEET 14)
REVIEWED BY:	DATE: 4-7-07

REDUCED PRESSURE PRINCIPAL ASSEMBLY (8) 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 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 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.

APPROVALS
CITY FIRE MARSHAL: [Signature] DATE: 4-2-07
LAS VEGAS VALLEY WATER DISTRICT: [Signature] DATE: 4/12/07

ESTIMATE OF WATER QUANTITIES	
1" WATER METER (UDACS PLATE 1B) (LOT 85, 86)	2 EA.
6" PVC WATER MAIN	279 L.F.
8" PVC WATER MAIN	2,118 L.F.
8" DIP WATER MAIN	140 L.F.
1" COPPER WATER SERVICE (UDACS PLATE 1B)	93 EA.
5/8" WATER METER (FROM LVWD) (UDACS PLATE 1B)	1 EA.
3/4" WATER METER (FROM LVWD) (UDACS PLATE 1B)	1 EA.
1" WATER METER (IRRIGATION) (UDACS PLATE 10)	1 EA.
1" R.P.P.A. (IRRIGATION) (UDACS PLATE 11-11A)	1 EA.
2" BLOW-OFF ASSEMBLY W/CAP	3 EA.
8" TEE	3 EA.
8"x8" TEE	6 EA.
8" 90° BEND	4 EA.
8" 22.5° BEND	1 EA.
8" x 6" REDUCER	3 EA.
STD. FIRE HYDRANT ASSEMBLY W/ 6" LATERAL, 6" GATE VALVE	6 EA.
8" GATE VALVE	5 EA.
NOTE: QUANTITIES ARE APPROXIMATE ONLY- CONTRACTOR TO VERIFY.	

UTILITY LEGEND	
--- EX 8" W ---	EXISTING WATER LINE W/SIZE
--- 8" W ---	PROPOSED WATER LINE W/SIZE
--- 8" W ---	PROPOSED WATER LATERAL
--- EX 8" S ---	EXISTING SEWER LINE W/SIZE
--- 8" SS ---	PROPOSED SEWER LINE W/SIZE
--- 8" SS ---	PROPOSED SEWER LATERAL
--- EX 8" M ---	EXISTING SEWER MANHOLE
--- 8" M ---	PROPOSED SEWER MANHOLE
--- 8" M ---	GATE VALVE
--- 1-1/4" SL ---	1-1/4" SL CONDUIT
--- 8" S ---	PRIVATE STREET LIGHT AS REQUIRED BY DEVELOPER
--- 8" S ---	EXISTING STREET LIGHT PER SUMMERLIN SIS
--- 8" S ---	CONCRETE DRIVEWAY
--- 8" W ---	WATER REDUCER
--- BWV ---	REQUIRES BACKWATER VALVE
--- PRV ---	REQUIRES PRESSURE REDUCER VALVE

BENCHMARK
CITY OF LAS VEGAS BENCHMARK (JOLVO 36558)
NGD REFERENCE BRASS CAP, 50' RIGHT OF STATION 870+00 CHARLESTON BLVD.
ELEVATION = 3119.3496 METERS (NAVD'83)
ELEVATION = 3016.233 U.S. SURVEY FEET (CALCULATED NAVD'83)

DATE: 01/21/02
DRAWN BY: S.L.V.
DESIGNED BY: S.L.V.
CHECKED BY: S.L.V.
JOB NO.: 01-7-0250
SCALE: 1" = 30'

PROFESSIONAL ENGINEER - STATE OF NEVADA
RICHARD P. SENECA
11752

SHEET 12 OF 15
CLV. DWG.# 307Y-4693

PULTE HOMES
1635 VILLAGE CENTER CIRCLE, SUITE 250
LAS VEGAS, NEVADA 89134
(702) 236-7500

PENTACORE
CIVIL ENGINEERING, LAND SURVEYING, PLANNING
CONSTRUCTION, AND ENVIRONMENTAL
6703 WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA 89148
(702) 258-0115

UTILITY AND TRAFFIC PLAN
SAGE HILLS AT THE SUMMERLIN VISTAS
(SUMMERLIN VILLAGE 20, PARCEL R)

DATE: 01/21/02
DRAWN BY: S.L.V.
DESIGNED BY: S.L.V.
CHECKED BY: S.L.V.
JOB NO.: 01-7-0250
SCALE: 1" = 30'

PROFESSIONAL ENGINEER - STATE OF NEVADA
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SHEET 12 OF 15
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