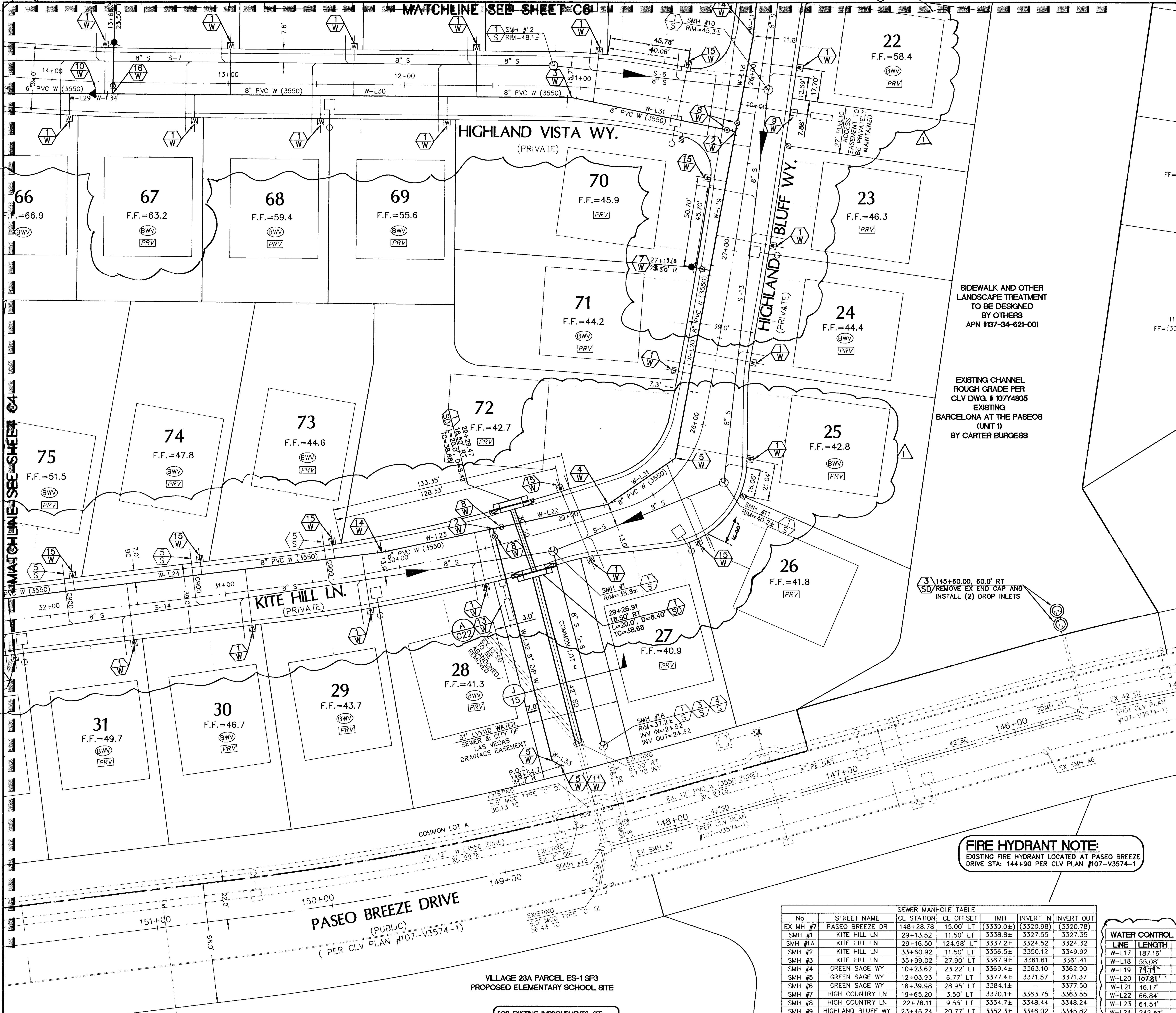
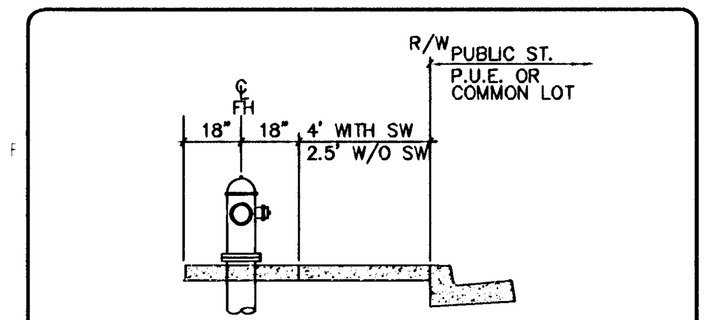


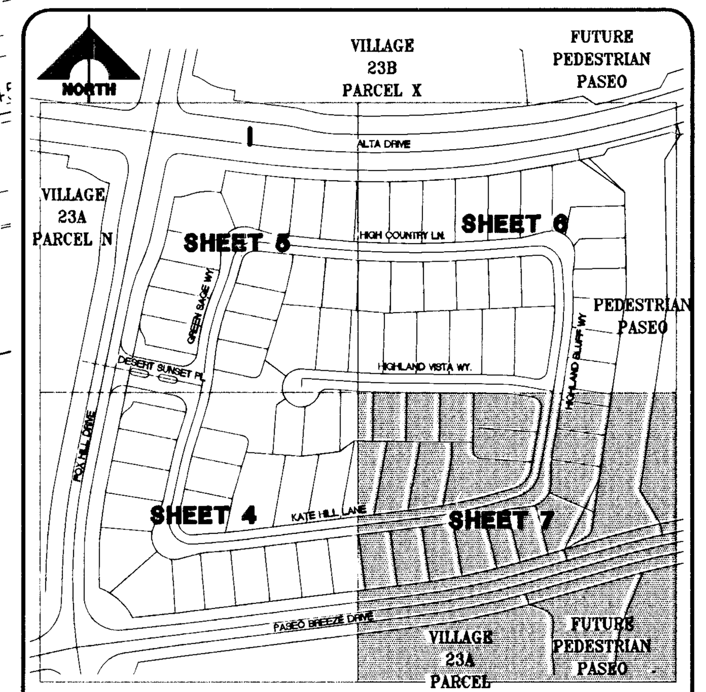
UTILITY LEGEND

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/6" 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 6" WL	WATER REDUCER
	PROPOSED CAP & BLOW-OFF
	CONCRETE DRIVEWAY
BWV	REQUIRES BACKWATER VALVE
PRV	REQUIRES PRESSURE REDUCER VALVE
	EXISTING SEWER MANHOLE

FIRE HYDRANT LOCATION DETAIL



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



SHEET INDEX MAP

CONSTRUCTION NOTES

WATER

1. INSTALL 3/4" WATER METER (2 UDACS)
2. INSTALL 8"x8" TEE (31 UDACS)
3. INSTALL 11-1/4° BEND (31 UDACS)
4. INSTALL 22-1/2° BEND (31 UDACS)
5. INSTALL 45° BEND (31 UDACS)
6. INSTALL CAP W/ 2" BLOW-OFF ASSEMBLY (36 UDACS)
7. INSTALL FIRE HYDRANT ASSEMBLY (40 UDACS)
8. INSTALL 8" GATE VALVE & BOX (30 UDACS) (39 UDACS)
9. INSTALL 5/8" WATER METER W/ 1" RPPA (4 UDACS) (8 UDACS)
10. INSTALL 8" X 6" REDUCER (30 UDACS)
11. 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).
12. INSTALL IRRIGATION SLEEVES PER SUMMERLIN STANDARD DRAWING U-18
13. INSTALL 1" WATER METER W/ 1" RPPA (4 UDACS) (8 UDACS)
14. INSTALL 5° BEND
15. INSTALL 1" WATER METER (4 UDACS)
16. INSTALL 8"x6" TEE (31 UDACS)

SEWER

1. INSTALL 48" DIA. SEWER MANHOLE (SD 1A DCSWCS) (SD 1B DCSWCS)
2. INSTALL 4" SEWER LATERAL & MARKER (SD-22 DCSWCS) (SD-25 DCSWCS)
3. 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).
4. ADJUST TO GRADE
5. LATERAL MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS PER UDACS SECTION 2.22.02 B3

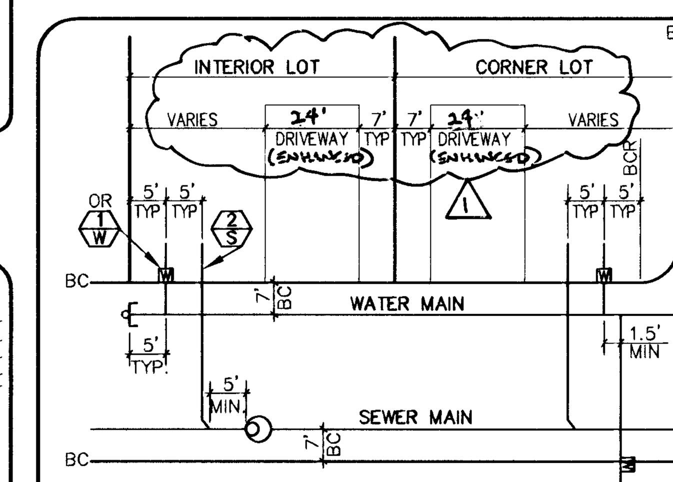
STORM DRAIN

1. INSTALL CLV TYPE "CM2" DROP INLET (SEE PLAN FOR LENGTH)
3. 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 AREA SEPARATION WALLS:	N/A
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.

FIRE HYDRANT NOTE:

EXISTING FIRE HYDRANT LOCATED AT PASEO BREEZE DRIVE STA: 144+90 PER CLV PLAN #107-V3574-1

FOR EXISTING IMPROVEMENTS, SEE: THE PASEOS - VILLAGE 23A UNIT 2 IMPROVEMENTS BY G.C. WALLACE INC. JOB #62023.222, CLV #107-V3574-2

SEWER MANHOLE TABLE

No.	STREET NAME	CL STATION	CL OFFSET	TMH	INVERT IN	INVERT OUT
EX MH #7	PASEO BREEZE DR	148+28.78	15.00' LT	(3339.0±)	(3320.98)	(3320.78)
SMH #1	KITE HILL LN	29+13.52	11.50' LT	3338.8±	3327.55	3327.35
SMH #1A	KITE HILL LN	29+16.50	124.98' LT	3337.2±	3324.52	3324.32
SMH #2	KITE HILL LN	33+60.92	11.50' LT	3356.5±	3350.12	3349.92
SMH #3	KITE HILL LN	35+99.02	27.90' LT	3367.9±	3361.61	3361.41
SMH #4	GREEN SAGE WY	10+23.62	23.22' LT	3369.4±	3363.10	3362.90
SMH #5	GREEN SAGE WY	12+03.93	6.77' LT	3377.4±	3371.57	3371.37
SMH #6	GREEN SAGE WY	16+39.98	28.95' LT	3384.1±	–	3377.50
SMH #7	HIGH COUNTRY LN	19+65.20	3.50' LT	3370.1±	3363.75	3363.55
SMH #8	HIGH COUNTRY LN	22+76.11	9.55' LT	3354.7±	3348.44	3348.24
SMH #9	HIGHLAND BLUFF WY	23+46.24	20.77' LT	3352.3±	3346.02	3345.82
SMH #10	HIGHLAND BLUFF WY	26+07.19	5.47' LT	3345.3±	3338.31	3338.11
SMH #11	HIGHLAND BLUFF WY	28+21.61	23.91' LT	3340.2±	3332.40	3332.20
SMH #12	HIGHLAND VISTA WY	11+15.54	11.50' LT	3348.1±	3341.81	3341.61
SMH #13	HIGHLAND VISTA WY	15+38.11	3.25' LT	3370.0±	–	3362.87

WATER CONTROL LINE TABLE

LINE	LENGTH	BEARING
W-L17	187.16'	S5°30'00"W
W-L18	55.08'	S10°30'00"W
W-L19	79.79'	S10°30'00"W
W-L20	107.81'	S10°30'00"W
W-L21	46.17'	S55°30'00"W
W-L22	66.84'	S78°00'00"W
W-L23	64.54'	S78°00'00"W
W-L24	242.07'	S83°00'00"W
W-L29	169.38'	S89°33'10"E
W-L30	260.51'	S89°33'10"E
W-L31	94.76'	S78°18'10"E
W-L32	135.58'	N14°26'16"W
W-L33	5.66'	N59°25'47"W
W-L34	14.32'	S89°33'10"E

SEWER CONTROL LINE TABLE

LINE	LENGTH	BEARING
S-5	104.39	N67°32'49"E
S-6	122.56	S83°41'22"E
S-7	422.15	S89°25'01"E
S-8	113.53	S14°27'10"E
S-13	223.44	S06°28'02"W
S-14	448.73	N81°21'30"E

NOTE

ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

WATER NOTE

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (3) - 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW 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 THE START OF CONSTRUCTION.

Call before you UnderGround 1-702-455-7511 1-702-229-6611

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. CALL BEFORE YOU DO OVERHEAD 1-702-227-2929

Call before you Dig. Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

NOTES:

1. SEE SHEET 2 AND 3 FOR CONSTRUCTION NOTES
2. FOR SEWER & STORM DRAIN DESIGN SEE PLAN & PROFILES
3. FOR STREETLIGHTS SEE STREETLIGHT AND TRAFFIC CONTROL PLAN (SHEETS 23-26).
4. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE No. 15.

SEWER AVERAGE DAILY FLOWS = 81 LOTS X 250 GPD/ERU = 20,250 (0.0203 MGPD)

SEWER PEAK FLOWS = 0.0715 MGPD

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.

APPROVED FOR CONSTRUCTION
K Mills 3/2/11
CITY OF LAS VEGAS FIRE DEPARTMENT — DATE

APPROVED FOR CONSTRUCTION
Doa Gregory
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 116647 DATE: 03/14/11

CLV DRAWING NO. 107Y4975

PROFESSIONAL ENGINEER STATE OF NEVADA JONATHAN D. TULL Exp. 6/30/12 CIVIL No. 14581 — 7-1-11 REV. 1

REV	DATE	DESCRIPTION	DATE	AGEN APP	DATE	GCW APP
1	5/3/11	REVISED DRIVEWAYS AND PAD LOCATIONS; REVISED FH LOCATION AND WATER LINE LENGTH	7/12/11	KB		

PROJECT NO. 62023-980
DESIGN:
DRAWN:
CHECK:
PLOT DATE: 02-22-11
PLOT TIME: 16:48:09

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM
LAS VEGAS · SACRAMENTO · RENO

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Daniel Kelley

THE HOWARD HUGHES COMPANY, LLC

SUMMERLIN VILLAGE 23A PARCEL L ANDALUSIA

UTILITY PLAN IV

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DRAWING
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7 OF 31 SHTS

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