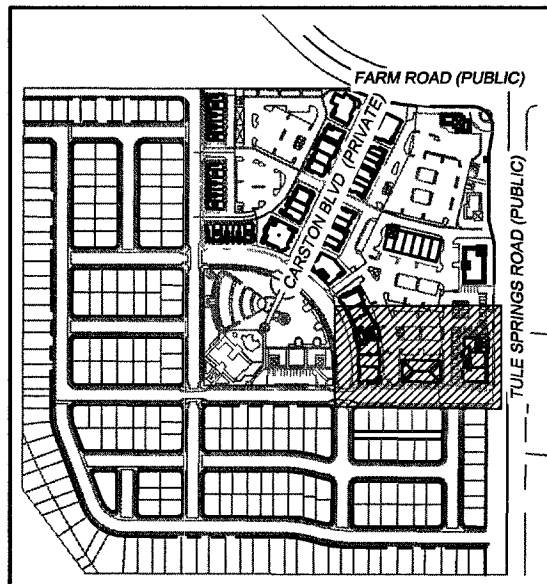
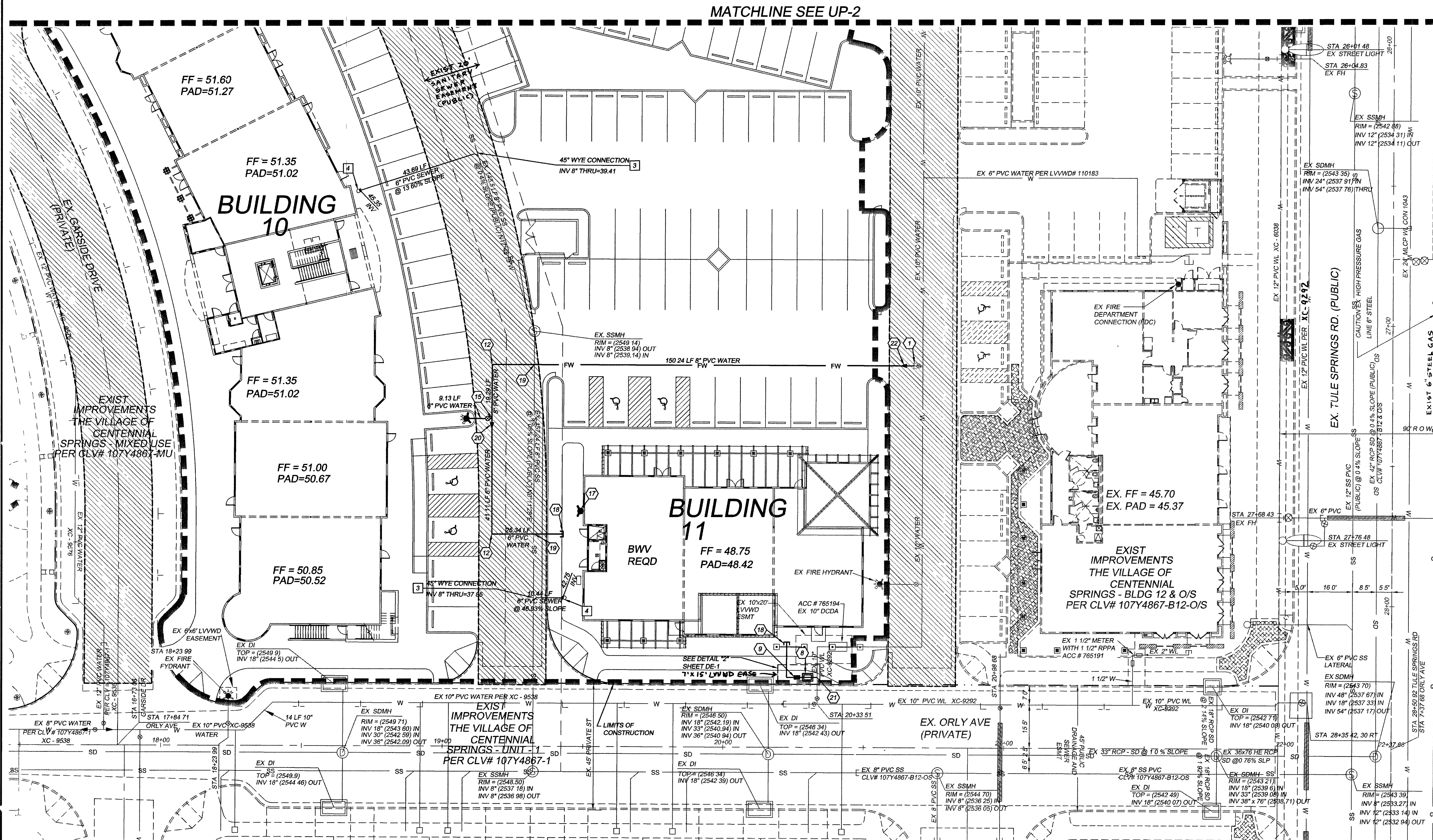
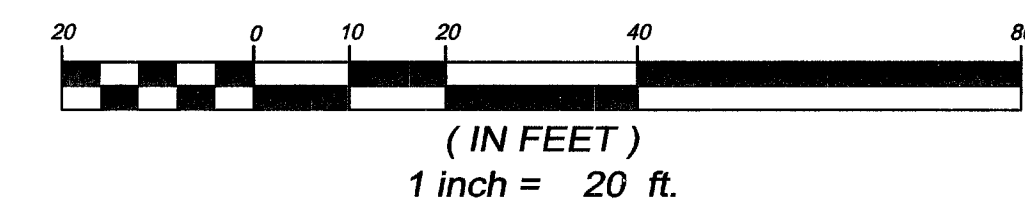




KEY MAP
NOT TO SCALE
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

WATER METER CHART

BLDG #	METER SIZE	RPPA SIZE	USE
BLDG "10"	2" METER	2" RPPA	YES
BLDG "11"	1 1/2" METER	1 1/2" RPPA	YES
BLDG "13"	1 1/2" METER	1 1/2" RPPA	YES
BLDG "14"	1 1/2" METER	1 1/2" RPPA	YES

WATER NOTES

No.	ITEM
1	REMOVE CAP AND CONNECT TO EXISTING STUB PER UDACS PLATE NO. 4A
2	INSTALL 8" WATERLINE (PVC, C-900 CL 150) PER UDACS PLATE NO. 6B
3	INSTALL 6" WATERLINE (PVC, C-900 CL 150) PER UDACS PLATE NO. 6B
4	INSTALL 2" WATERLINE (POLY) PER UDACS PLATE NO. 6B
5	INSTALL 1 1/2" WATERLINE (TYPE "K" COPPER) PER UDACS PLATE NO. 1D
6	INSTALL 8" DCDA PER UDACS PLATE, No. 11C
7	INSTALL 2" METER PER UDACS PLATE, No. 1D
8	INSTALL 1 1/2" METER PER UDACS PLATE, No. 1D
9	INSTALL 1 1/2" RPPA PER UDACS PLATES No. 11A
10	INSTALL TEE (SAME SIZE AS MAIN)
11	INSTALL 8"x8" TEE
12	INSTALL 90° BEND (SAME SIZE AS MAIN)
13	INSTALL 45° BEND (SAME SIZE AS MAIN)
14	INSTALL 11.25° BEND (SAME SIZE AS MAIN)
15	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE No. 7
16	INSTALL GATE VALVE (SAME SIZE AS MAIN) PER UDACS PLATE No. 8 & 3
17	FIRE DEPARTMENT CONNECTION (SEE ME PLANS FOR CONNECTION TO SPRINKLER RISER)
18	STUB & CAP 5' FROM BUILDING FOUNDATION SEE PLUMBING PLANS FOR CONTINUATION
19	WATER, SEWER CROSSING W/ VERTICAL SEPARATION OF NO LESS THAN 18" PER UDACS SECTION 2.19
20	INSTALL 8" x 6" REDUCER
21	INSTALL 1 1/2" SERVICE SADDLE PER UDACS PLATE NO. 1D
22	INSTALL 10" x 8" REDUCER
23	CAP 8" MAIN
24	2" RPPA PER UDACS PLATE NO. 11A
25	INSTALL 2" SERVICE SADDLE PER UDACS PLATE NO. 1D
26	2" COPPER (TYPE K) PER UDACS PLATE NO. 1D

SEWER NOTES

No.	ITEM
1	INSTALL 48" TYPE I SEWER MANHOLE AS PER CCAUSD 403
2	INSTALL 8" SEWER LINE (PRIVATE)
3	INSTALL 6" PVC SEWER LATERAL (PRIVATE) PER CCWRD PLATE # SD-17
4	INSTALL 6" SEWER CLEANOUT (PRIVATE)
5	REMOVE CAP & CONNECT TO EXISTING STUB

SEWER FLOW CONTRIBUTION
3.20 ACRES X 2000 GPD / ACRE = 6500 GPD AVG
6500 GPD X 3.4 PEAKING FACTOR = 22320 GPD PEAK

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL
BY: *[Signature]* DATE: 10/24/06

APPROVED FOR CONSTRUCTION ESN.018
[Signature] DATE: 12-28-06
LAS VEGAS VALLEY WATER DISTRICT (LVVWD # 112690)



NOTE:
CALL SOUTHWEST GAS AT 365-2296 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

NOTE:
ALL SEWER & WATER TO BE CONSTRUCTED WITH THIS PACKAGE IS PRIVATE.

ALL ABOVE GROUND UTILITY APPURTENANCES WILL BE PLACED A MINIMUM OF THREE(3) FEET FROM THE BACK OF SIDEWALK AND WILL BE IN CONFORMANCE WITH TITLE 19.12.040

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) (1) 8"
THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 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.

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

BENCHMARK
0LV90 18W4: CITY OF LAS VEGAS BENCHMARK, RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF FARM ROAD AND TULE SPRINGS ROAD (FORMALLY DURANGO DRIVE) = 774.7072m = 2541.69ft.

BASIS OF BEARINGS
NORTH 00°13'00" EAST, BEING THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 17, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., SAID LINE ALSO BEING THE CENTERLINE OF TULE SPRINGS ROAD AS SHOWN BY PLAT THEREOF ON FILE IN BOOK 61, PAGE 85 IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2125 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE. BASED ON:

BUILDING #	BLDG 10	BLDG 11	BLDG 13	BLDG 14	BLDG 15	BLDG 16
SQUARE FOOTAGE:	25,588 SF	5,411 SF	5,807 SF	7,402 SF	2842 SF	3750 SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A. SQUARE FEET	N/A	N/A	N/A	N/A	N/A	N/A
BUILDING HEIGHT	30 FEET	20 FEET	20 FEET	20 FEET	20 FEET	20 FEET
NUMBER OF STORIES	2 FLOORS	1 FLOOR	1 FLOOR	1 FLOOR	1 FLOOR	1 FLOOR
TYPE OF CONSTRUCTION	V-B	V-B	V-B	V-B	V-B	V-B
OCCUPANCY	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE	OFFICE
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	YES	YES	YES	YES	YES	YES
BASE FIRE FLOW	4,250	2,000	2,000	2,250	1,500	1,750
REDUCED FIRE FLOW	2,125	1,500	1,500	1,500	1,500	1,500

REVIEWED BY: *[Signature]* DATE: 10/24/06
Las Vegas Fire Dept.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (5) 1 1/2", (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS 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.

NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27

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. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES ESN.041 REVISED 6/1/04

ADD 2500 TO ALL ELEVATIONS TO GET ACTUAL ELEVATIONS
FOR WATER AND SEWER CROSSINGS REFER TO UDACS SECTION 2.19

