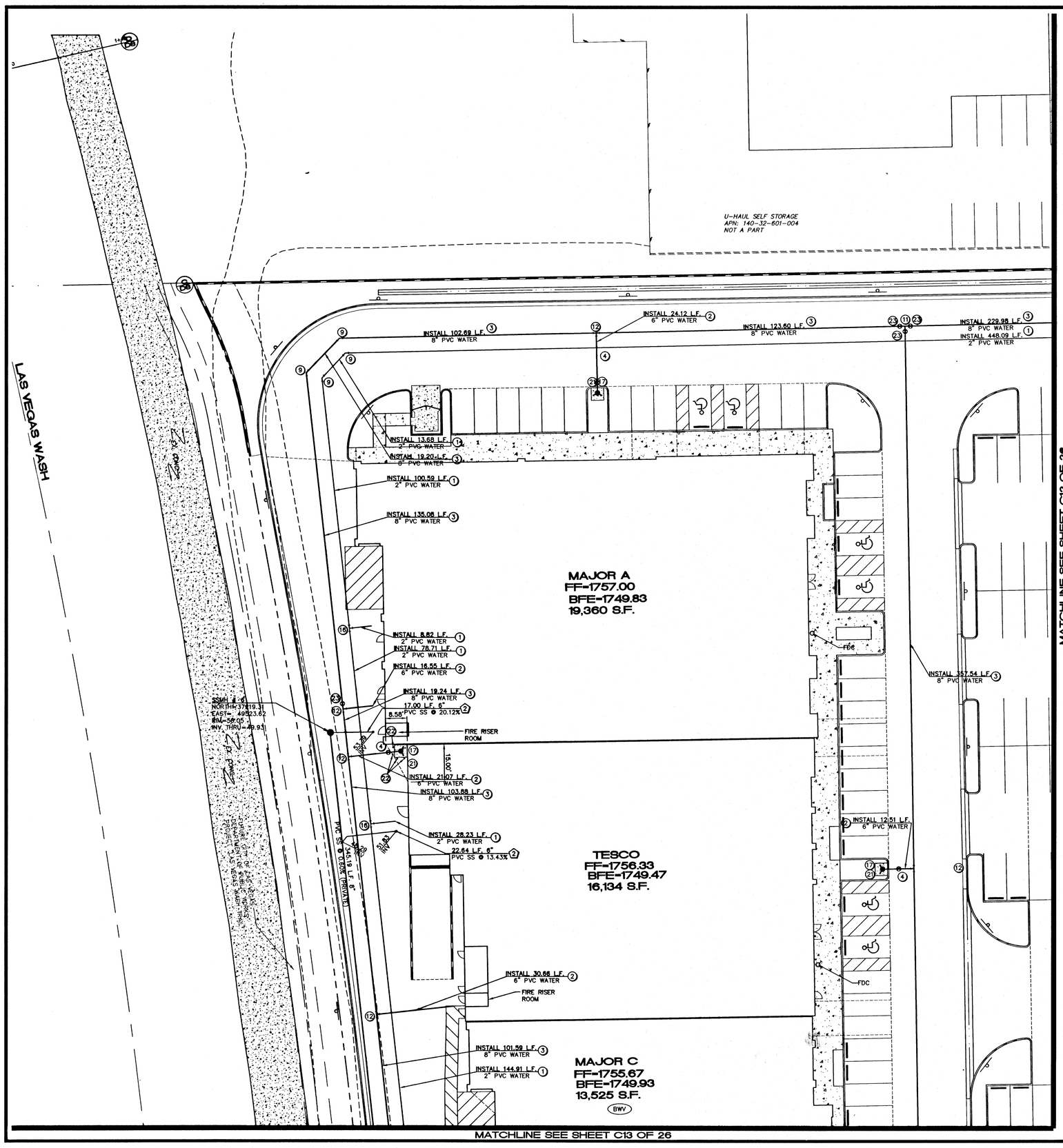


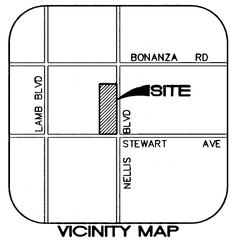
LEGEND

PROPOSED	EXISTING	
25 L.F. 8" PVC WAT.	EX. 8" PVC WAT.	WATER LINE
25 L.F. 8" PVC SS @ 2.00%	EX. 8" PVC SS @ 2.0%	SANITARY SEWER LINE
N/A	EX. 2" GAS	GAS LINE
N/A	O.H.P	OVERHEAD POWER LINE
N/A	TEL	TELEPHONE LINE
N/A	CATV	CABLE TELEVISION LINE
DCDA	DCDA	DCDA
RPPA	RPPA	RPPA
FMCT	FMCT	FMCT
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		FIRE DEPT. CONNECTION (BY OTHERS)

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

REDUCED PRESSURE PRINCIPAL ASSEMBLY (1) 2"

APPROVED REDUCED PRESSURE PRINICIPAL 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 PRINICIPAL 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.

ESN.026

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

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACORDANCE 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 START OF CONSTRUCTION

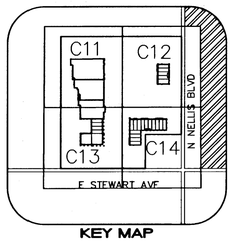
ESN.006

SEWER CONTRIBUTION

* AVG. DAILY = 0.585 GPM
** PEAK DAILY = 1.93 GPM
* AVG. DAILY = 0.10 GALLONS PER SQ. FT. PER DAY
* AVG. DAILY = 84,239 SQ. FT. (0.10 GAL/SQ.FT./PER DAY) = 842.39 GPD = 0.585 GPM
** PEAK FACTOR = 3.3 (AVG.)
** PEAK DAILY = 3.3 X 0.585 GPM = 1.93 GPM

CONSTRUCTION NOTES - WATER

	ITEM	QUANTITY PUBLIC	QUANTITY PRIVATE
1	INSTALL 2" PVC WATER	N/A	1542 L.F.
2	INSTALL 6" PVC WATER	N/A	2423 L.F.
3	INSTALL 8" PVC WATER	N/A	433 L.F.
4	INSTALL 6" GATE VALVE PER UDACS PLATE #S 3 & 8	N/A	11 EA.
5	INSTALL 8" DCDA PER UDACS PLATE # 11C	1 EA.	N/A
6	INSTALL 2" RPPA PER UDACS PLATE # 11A	1 EA.	N/A
7	INSTALL 2" DOMESTIC METER PER UDACS PLATE # 1D	1 EA.	N/A
8	INSTALL 8" X 90° BEND PER UDACS PLATE # 5	N/A	7 EA.
9	INSTALL 8" X 45° BEND PER UDACS PLATE # 5	N/A	5 EA.
10	INSTALL 8" X 22.5° BEND PER UDACS PLATE # 5	N/A	2 EA.
11	INSTALL 8" X 8" TEE PER UDACS PLATE # 5	N/A	4 EA.
12	INSTALL 8" X 6" TEE PER UDACS PLATE # 5	N/A	11 EA.
13	INSTALL 6" X 90° BEND PER UDACS PLATE # 5	N/A	2 EA.
14	INSTALL 2" X 90° BEND PER UDACS PLATE # 5	N/A	5 EA.
15	NOT USED	N/A	N/A
16	INSTALL 2" X 2" TEE PER UDACS PLATE # 5	N/A	5 EA.
17	INSTALL FIRE HYDRANT PER UDACS PLATE # 7	N/A	11 EA.
18	12.00' X 15.00' LVVWD EASEMENT	150 S.F.	N/A
19	INSTALL 6" X 2" SERVICE SADDLE PER UDACS PLATE # 1D	1 EA.	N/A
20	INSTALL 8" X 6" REDUCER PER UDACS PLATE # 5	1 EA.	N/A
21	5' X 5' CONCRETE PAD	N/A	11 EA.
22	INSTALL VEHICULAIR PROTECTION BOLLARD PER UDACS PLATE # 23	N/A	11 EA.
23	INSTALL 8" GATE VALVE PER UDACS PLATE #S 3 & 8	N/A	8 EA.



KEY MAP

CONSTRUCTION NOTES - SANITARY

	ITEM	QUANTITY PUBLIC	QUANTITY PRIVATE
1	INSTALL 8" PVC SAN SEW	537 L.F.	459 L.F.
2	INSTALL 6" PVC SAN SEW	N/A	528 L.F.
3	INSTALL 48" STD. SAN. SEW. MANHOLE	3 EA.	2 EA.
4	INSTALL SAN SEW CLEANOUT SEE DETAIL C16 OF 26	N/A	9 EA.
5	INSTALL 1500 GAL GREASE INTERCEPTOR JENSEN PRECAST MODEL #JP1500EE-G OR APPROVED EQUAL	N/A	3 EA
6	SAWCUT, TRENCH AND BACKFILL PER C.C.S.D NO. 504	618 S.Y.	N/A

PROJECT NUMBER: 114361
APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT — DATE

ESN.018

NOTE: ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040

UTILITY NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

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

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND
Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
OR
1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT GELU
EXP. 6-30-09
CIVIL
No. 17741
9-26-07

CLV drwg# 107X4960

SUMMIT ENGINEERING CORPORATION
313 PILOT ROAD, SUITE A, LAS VEGAS, NV. 89119
PHONE (702) 252-3226 FAX: (702) 252-3247

DESIGNED BY:
DRAWN BY: ACADR14
CHECKED BY:
DATE: Copyright SUMMIT ENG 2007

CIVIL IMPROVEMENT PLANS FOR STEWART AND NELLIS UTILITY PLAN

CLARK COUNTY — NEVADA — LAS VEGAS

REV.	DATE	DESCRIPTION	BY	APP'D

SCALE — HORIZ: 1"=20' — VERT: N/A

JOB NO: J73063

SHEET C11 OF 26

H:\DWGS\J73063\Final\063_1_UTL.DWG - 8:40 AM • 29-AUG-2007