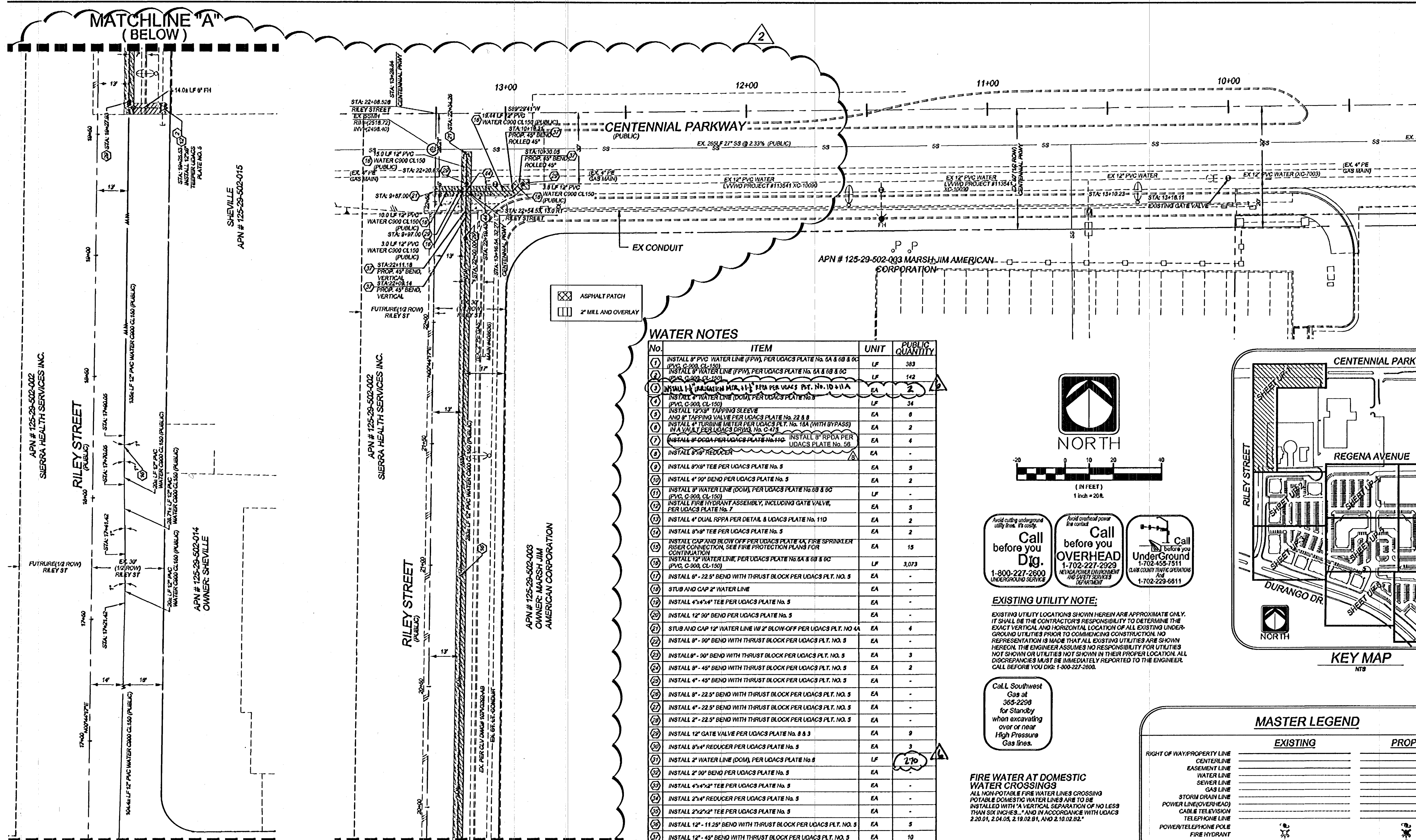




WATER NOTES

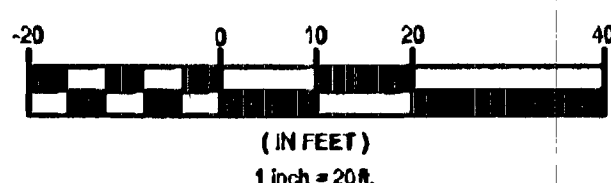
No.	ITEM	UNIT	PUBLIC QUANTITY
1	INSTALL 8" PVC WATER LINE (FPW), PER UDACS PLATE NO. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	383
2	INSTALL 8" WATER LINE (FPW), PER UDACS PLATE NO. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	142
3	INSTALL 12" WATER LINE (DOM), PER UDACS PLATE NO. 5 (PVC, C-900, CL-150)	EA	2
4	INSTALL 12" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE NO. 22 & 8 (PVC, C-900, CL-150)	EA	34
5	INSTALL 12" TAPPING VALVE PER UDACS PLATE NO. 15A (WITH BYPASS) IN A VAULT PER UDACS PLATE NO. C-473	EA	2
6	INSTALL 8" RPPA PER UDACS PLATE NO. 11C	EA	4
7	INSTALL 8" RPPA PER UDACS PLATE NO. 5B	EA	-
8	INSTALL 8" RPPA PER UDACS PLATE NO. 5	EA	3
9	INSTALL 8" 90° BEND PER UDACS PLATE NO. 5	EA	2
10	INSTALL 8" WATER LINE (DOM), PER UDACS PLATE NO. 6B & 6C (PVC, C-900, CL-150)	LF	-
11	INSTALL FIRE HYDRANT ASSEMBLY, INCLUDING GATE VALVE, PER UDACS PLATE NO. 7	EA	3
12	INSTALL 4" DUAL RPPA PER UDACS PLATE NO. 11D	EA	2
13	INSTALL 8" 90° TEE PER UDACS PLATE NO. 5	EA	2
14	INSTALL CAP AND BLOW OFF PER UDACS PLATE NO. 4A, FIRE SPRINKLER RISER CONNECTION, SEE FIRE PROTECTION PLANS FOR CONTINUATION	EA	19
15	INSTALL 12" WATER LINE, PER UDACS PLATE NO. 6A & 6B & 6C (PVC, C-900, CL-150)	LF	3,073
16	INSTALL 8" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
17	STUB AND CAP 2" WATER LINE	EA	-
18	INSTALL 4"x4"x4" TEE PER UDACS PLATE NO. 5	EA	-
19	INSTALL 12" 90° BEND PER UDACS PLATE NO. 5	EA	-
20	STUB AND CAP 12" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. NO. 4A	EA	4
21	INSTALL 8" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
22	INSTALL 8" - 90° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	3
23	INSTALL 8" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	2
24	INSTALL 4" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
25	INSTALL 8" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
26	INSTALL 4" - 22.5° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	-
27	INSTALL 12" GATE VALVE PER UDACS PLATE NO. 8 & 3	EA	9
28	INSTALL 8"x4" REDUCER PER UDACS PLATE NO. 5	EA	3
29	INSTALL 2" WATER LINE (DOM), PER UDACS PLATE NO. 8	LF	270
30	INSTALL 2" 90° BEND PER UDACS PLATE NO. 5	EA	-
31	INSTALL 4"x4"x2" TEE PER UDACS PLATE NO. 5	EA	-
32	INSTALL 2"x4" REDUCER PER UDACS PLATE NO. 5	EA	-
33	INSTALL 2"x2"x2" TEE PER UDACS PLATE NO. 5	EA	-
34	INSTALL 12" - 11.25° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	5
35	INSTALL 12" - 45° BEND WITH THRUST BLOCK PER UDACS PLT. NO. 5	EA	10
36	INSTALL 12" - 5° BEND RESTRAINED ON EACH END	EA	1
37	INSTALL 8" GATE VALVE PER UDACS PLATE NO. 8 & 3	EA	8
38	INSTALL FIRE DEPARTMENT CONNECTION	EA	-
39	INSTALL 8"x8" TEE PER UDACS PLATE NO. 5	EA	-
40	INSTALL 12"x8" TEE PER UDACS PLATE NO. 5	EA	4
41	INSTALL 12" WATER LINE, PER UDACS PLATE NO. 8 (PVC, C-900)	EA	81
42	INSTALL 12"x12" CROSS PER UDACS PLATE NO. 5	EA	2
43	STUB AND CAP 8" WATER LINE W/ 2" BLOW-OFF PER UDACS PLT. NO. 4A	EA	2
44	INSTALL 12"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE NO. 22 & 8	EA	1
45	INSTALL 8"x4" REDUCER PER UDACS PLATE NO. 5	EA	8

SEWER NOTES

No.	ITEM	UNIT	QUANTITY
1	INSTALL 6" PVC SD-35 SEWER LINE (PRIVATE)	LF	1413
2	INSTALL 6" PVC SEWER CLEANOUT 5' FROM BUILDING (PRIVATE)	EA	15
3	INSTALL 6" PVC SD-35 SEWER LATERAL PER SD-17 (PRIVATE)	LF	943
4	INSTALL SEWER MANHOLE PER SD-1 (PRIVATE)	EA	7
5	NOT USED	EA	-
6	INSTALL 6" PVC SEWER CLEANOUT (PRIVATE) SEE DETAIL 8 SHT DE-3	EA	5
7	INSTALL SEWER MANHOLE PER SD-1 (PUBLIC)	EA	2

NOTE:

SEE HORIZONTAL CONTROL SHEET HC-1 THRU HC-7 FOR FIRE ACCESS LANES.



Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE

Call before you OVERHEAD
1-702-227-2929
NEVADA POWER & LIGHTING DEPARTMENT

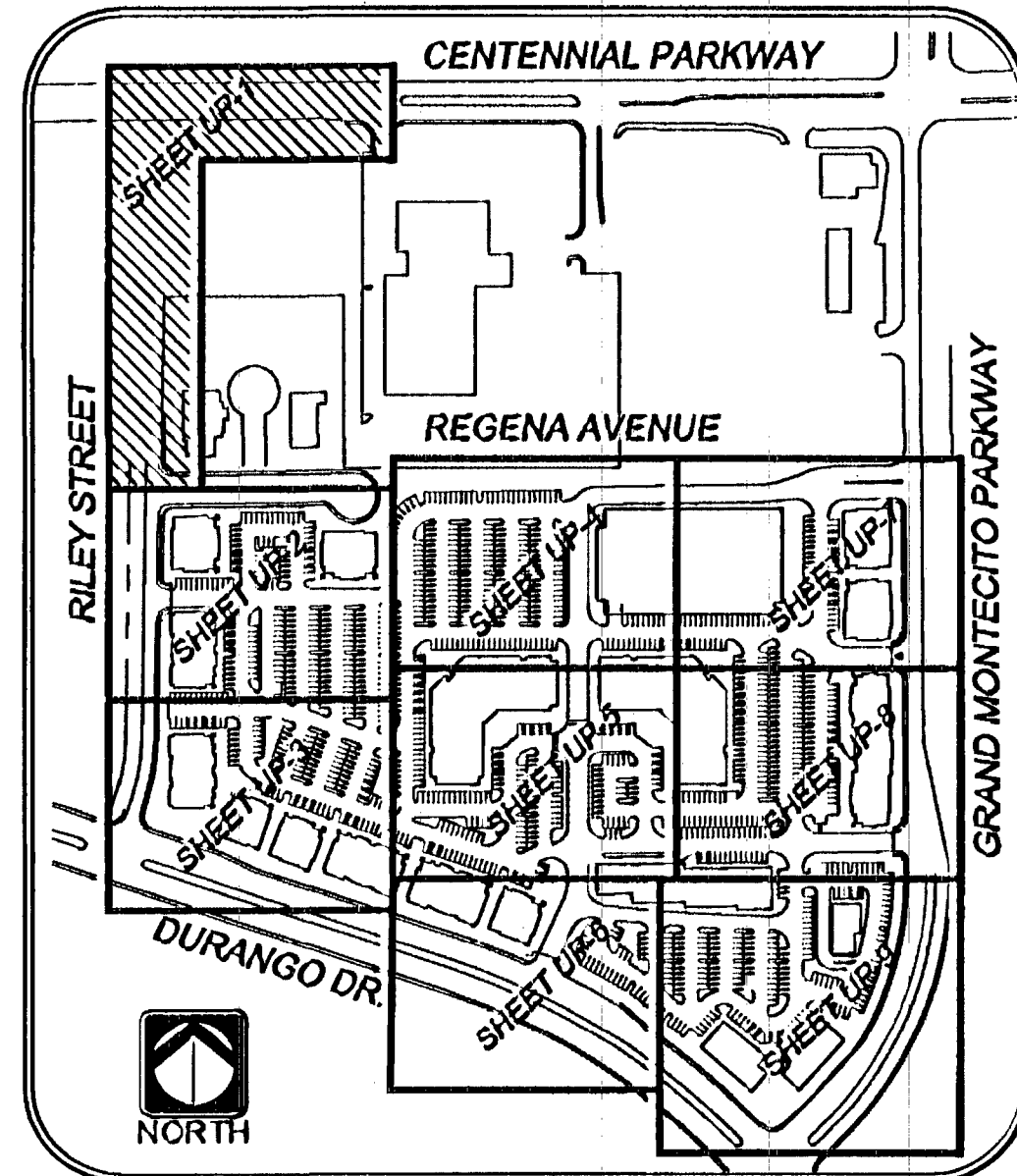
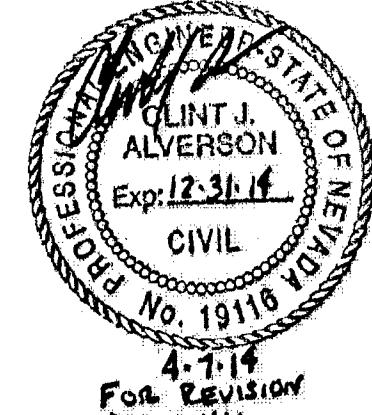
Call before you UnderGround
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS AND TRANSPORTATION DEPARTMENT

EXISTING UTILITY NOTE:

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL 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. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER. CALL BEFORE YOU DIG: 1-800-227-2600.

Call L. Southwest Gas at 365-2239 for Standby when excavating over or near High Pressure Gas lines.

FIRE WATER AT DOMESTIC WATER CROSSINGS
ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH A VERTICAL SEPARATION OF NO LESS THAN SIX INCHES, AND IN ACCORDANCE WITH UDACS 2.20.01, 2.04.05, 2.19.02.01, AND 2.10.02.02.



MASTER LEGEND

EXISTING	PROPOSED
RIGHT OF WAY/PROPERTY LINE	
CENTERLINE	
EASEMENT LINE	
WATER LINE	
SEWER LINE	
GAS LINE	
STORM DRAIN LINE	
POWER LINE/OVERHEAD	
CABLE TELEVISION	
TELEPHONE LINE	
POWER/TELEPHONE POLE	
FIRE HYDRANT	
WATER VALVES	
METERS/PULLBOXES	
REDUCER	
SEWER MANHOLE	
STORM DRAIN MANHOLE	
CLEANOUT	
STREETLIGHTS	
SCREEN WALL	
RETAINING WALL	
FENCE	
TRASH ENCLOSURE	
FINISHED FLOOR ELEVATION	
HANDICAP RAMP	
HANDICAP PARKING	
SIGHT VISIBILITY ZONE	
FIRE LANE	

FOR CONTINUATION
SEE SHEET UP-2

ASIS OF BEARINGS:
RTH 89°24'11" EAST, BEING THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 28, TOWNSHIP 18 SOUTH, RANGE 80 EAST, M.D.M. AS FINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83). 67 ZONE, AS DETERMINED BY PUBLISHED VALUES BY THE NATIONAL GEODETIC SURVEY FOR THE LAS VEGAS VALLEY WATER DISTRICT CONTIGUOUSLY OPERATING REFERENCE STATIONS: NVCS ARCTON SQUARE, LVWD (MAIN), NVTH (TROPICANA).

ENCHMARK
V09 2004: RIVET & PLATE IN CONCRETE PAD (TELEPHONE JUNCTION) AT THE NORTHEAST CORNER OF TROPICAL PARKWAY @ EL CAPITAN WAY = 770 5491m = 2528 04ft. OBJECT DATUM ADJUSTMENT 28.01 & 4.40 = 2528.44 PROJECT DATUM

LEGAL DESCRIPTION
PORTION OF THE E 1/2 OF THE NE 1/4 OF SECTION 28, TOWNSHIP 18 SOUTH, RANGE 80 EAST, M.D.M.

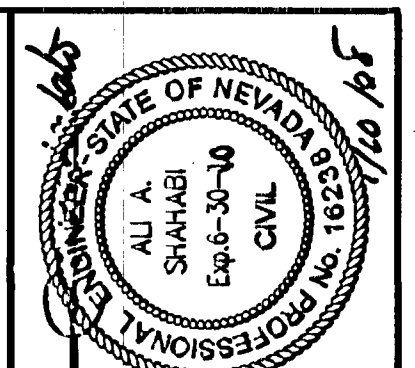
REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA)
(RPDA) (4" x 8")
THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASTMENT(S) SO AS TO ALLOW LVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

FIRE FLOW CALCULATIONS

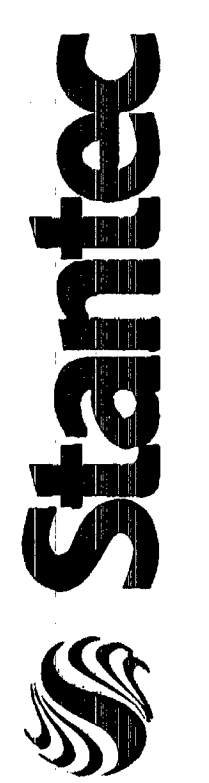
FIRE FLOW CALCULATIONS ARE BASED UPON THE LARGEST BUILDING TYPE WHICH IS TYPE "A".	
Fire Flow Requirement is at 20 psi residual pressure.	2,125 gallons per minute
Based on:	BLDG 87,000
Square Footage: (S.F.)	N/A
Largest area between 4-hour area separation walls: (S.F.)	N/A
Building Height (FT)	40
Number of Stories: (FLOORS)	3
Number of Units:	N/A
Type of Construction:	III-A
Full Automatic Fire Sprinkler System:	Yes ☒ No ☐

DUAL REDUCED PRESSURE PRINCIPAL ASSEMBLY (RPPA) (2) - 4" (2) - 1/2" (1) - 1/2"
APPROVED DUAL REDUCED PRESSURE PRINCIPAL ASSEMBLY(S) SHALL BE INSTALLED PER UDACS PLATE NO. 11 D. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE DUAL REDUCED PRESSURE PRINCIPAL 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 EASTMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE:
ODD AND RPPA ARE TO CONFORM WITH CITY OF LAS VEGAS CHAPTER 12.12.04 OF THE ZONING AND SUBDIVISION LAWS.
NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLT. NO. 27



REV.	DATE	DESCRIPTION
1	10-10-15	ISSUED FOR PERMIT
2	10-10-15	REVISED PER COMMENTS
3	10-10-15	REVISED PER COMMENTS
4	10-10-15	REVISED PER COMMENTS
5	10-10-15	REVISED PER COMMENTS
6	10-10-15	REVISED PER COMMENTS
7	10-10-15	REVISED PER COMMENTS
8	10-10-15	REVISED PER COMMENTS
9	10-10-15	REVISED PER COMMENTS
10	10-10-15	REVISED PER COMMENTS



VENTURE CORPORATION
CENTENNIAL HILLS PROFESSIONAL CENTER
UTILITY PLAN
JOB # 052058.01
SHEET NO.:
UP-1
53 OF 87 SHEETS
H#13769 CLV #1074938