FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE:	1,041	SQUARE FEET
LARGEST AREA BETWEEN 4-HOUR AREA SEPERATION WALLS:	1,041	SQUARE FEET
BUILDING HEIGHT:	12.50'	FEET
NUMBER OF STORIES:	1	FLOORS
TYPE OF CONSTRUCTION:	TYPE V-NR	
OCCUPANCY:	GROUP B	

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☑ NO

REVIEWED BY: _____ Las Vegas Fire Department DATE: 12/13/00

SEWER FLOW DATA

	AVG. FLOW	PEAK FLOW
ESTIMATED WASTEWATER FLOW	488 GPD	1,600 GPD

GRAPHIC SCALE

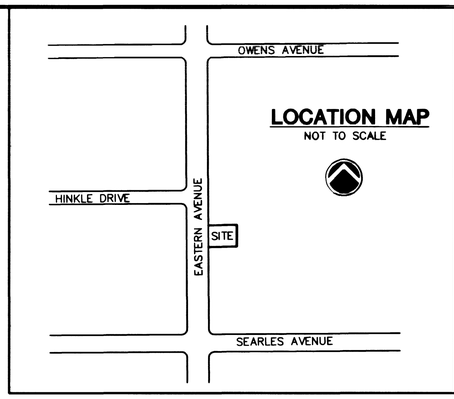
10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

BENCHMARK

CITY OF LAS VEGAS B.M. #15, STA. 7C0124SSW6
RIVET AND PLATE IN TOP OF CURB, NORTHEAST RETURN OF OWENS AVENUE AND PATRICIA AVENUE.

88' DATUM
ELEV.= 559.7900 METERS
ELEV.= 1836.578 U.S. SURVEY FEET



CONSTRUCTION NOTES

1. CONSTRUCT SIDEWALK DRAIN PER DETAIL SHEET 4
2. CONSTRUCT TYPE "A" CURB PER STD DWG 219
3. CONSTRUCT CURB, GUTTER & SIDEWALK PER STD DWGS #216 AND # 234
4. CONNECT TO EXIST. SEWER LATERAL WITH 2-WAY CLEANOUT SEE GRADING NOTE 7 BELOW
5. CONNECT TO EXIST. WATER LATERAL WITH TEE CONNECTION SEE GRADING NOTE 7 BELOW
6. CONSTRUCT PAVING SECTION 2"AC / 6" TYPE 1 AGG. BASE SEE SOILS REPORT
7. CONSTRUCT SIDEWALK RAMP PER STD DWG 235 CASE 1 (A & B = 8.0')
8. ~~CONSTRUCT 6" CURB PER DETAIL THIS SHEET~~
9. CONSTRUCT CROSS GUTTER PER STD DWG 228
10. CONSTRUCT DRIVEWAY PER STD DWG 222A
11. CONSTRUCT PRECAST BUMPER BLOCK PER STD DWG 238
12. CONSTRUCT "STOP" SIGN PER MUTCD R1-1
13. CONSTRUCT 2' CONCRETE FLUME PER SHT. 4 OF 4 (DETAIL SHEET)

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

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT & SAFETY SERVICES DEPARTMENT

GRADING NOTES

1. VPOINT ENGINEERING SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFF SITE OWNER.
3. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.
4. FOR AREAS THAT ARE FLATTER THAN 2:1 SLOPE, OR LESS THAN 1' ELEVATION DIFFERENCE, SCARPS ARE NOT SHOWN ON PLANS FOR CLARITY PURPOSES.
6. GRADING AND STRUCTURAL SECTIONS SHALL CONFORM TO SOILS REPORT PREPARED BY DESERT GEOTECHNICAL, INC.
7. ADD 1800 TO ALL TAG GRADES

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 UNDER-GROUND 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.

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS SURVEY IS THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 25, TOWNSHIP 20 SOUTH, RANGE 61 EAST WHICH BEARS NORTH 00°04'06" WEST AS SHOWN IN FILE 34, PAGE 71 OF SURVEYS RECORDED IN CLARK COUNTY, NEVADA.

HATCHED LEGEND

REMOVE AND REPLACE

SIGHT VISIBILITY RESTRICTION ZONE. NO OBJECTS 30" ABOVE ADJACENT TOP OF CURB ALLOWED. ZONE TO BE PRIVATELY MAINTAINED.

NEW ASPHALTIC PAVEMENT

REDUCED PRESSURE PRINCIPLE ASSEMBLY 1½"

Approved Reduced Pressure Principle Assembly(s) shall be installed per the UDACS Plate No. 11A or 11B. 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.
ESN.026

APPROVED FOR CONSTRUCTION ESN.018
Rosen Sonda 12-13-00
LAS VEGAS VALLEY WATER DISTRICT DATE

T20S-R61E-SEC. 25

APPVL	REV	DATE	BY	REVISION
	1	12/5/00	MM	REVISE PARKING SPACES, REMOVE 6" CURB
	2	12/12/00	MM	REVISE SEWER AND WATER SERVICES

TITLE: UTILITY/GRADING PLAN

PROJECT: EASTERN COMMERCIAL

STATE OF NEVADA — REGISTERED PROFESSIONAL ENGINEER — MICHAEL D. MILLER — CIVIL — No. 12308 — 12/5/00

VPOINT
DESIGNING FOR THE FUTURE
PLANNERS • CONSULTING ENGINEERS • SURVEYORS
7548 WEST SAHARA AVENUE • LAS VEGAS, NEVADA 89117 • (702) 248-9415

W.O. #: 654-D395
BY: MDM
DATE: 10/23/00
SCALE: 1" = 10'

SHEET 4 OF 5 SHEETS

replot 12/14/00
107-V3361

28160 RS 20495