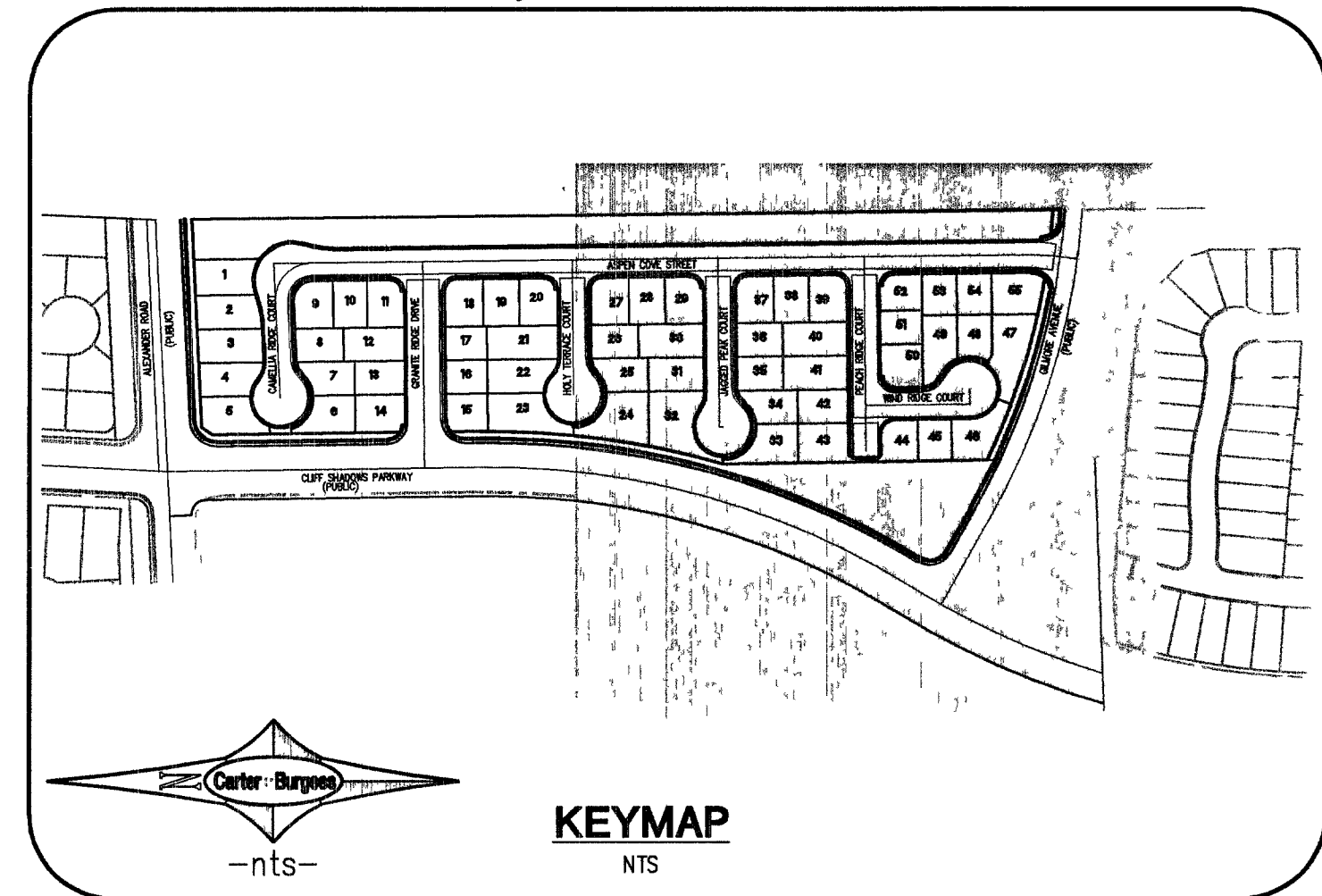
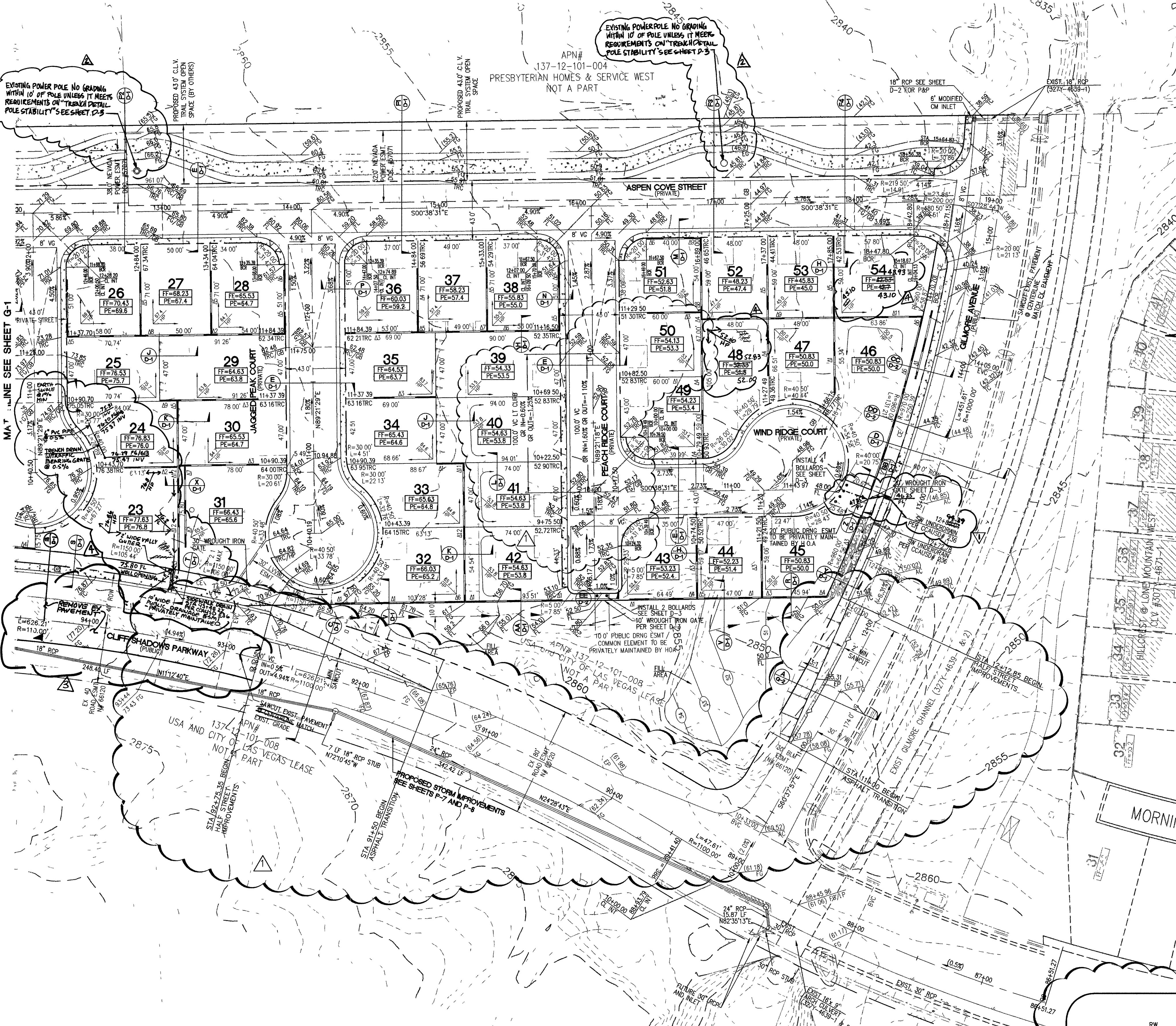




LEGAL DESCRIPTION
THE EAST HALF (E 1/2) OF THE NORTHWEST QUARTER (NE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 99 EAST, M.D.M., CLARK COUNTY, NEVADA;
TOGETHER WITH THE EAST HALF (E 1/2) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SAID SECTION 12,
CONTAINING AN AREA OF 10 ACRES.

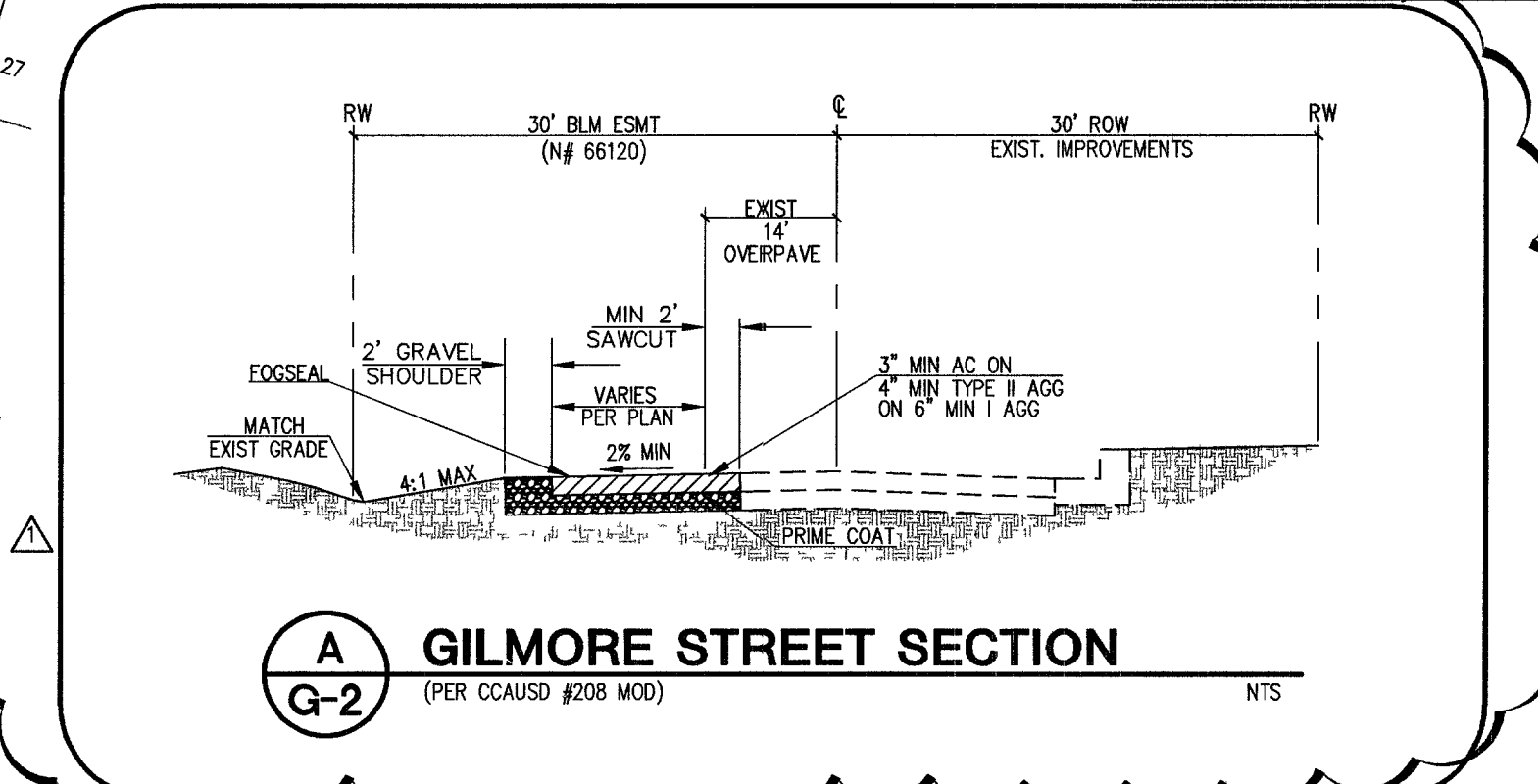
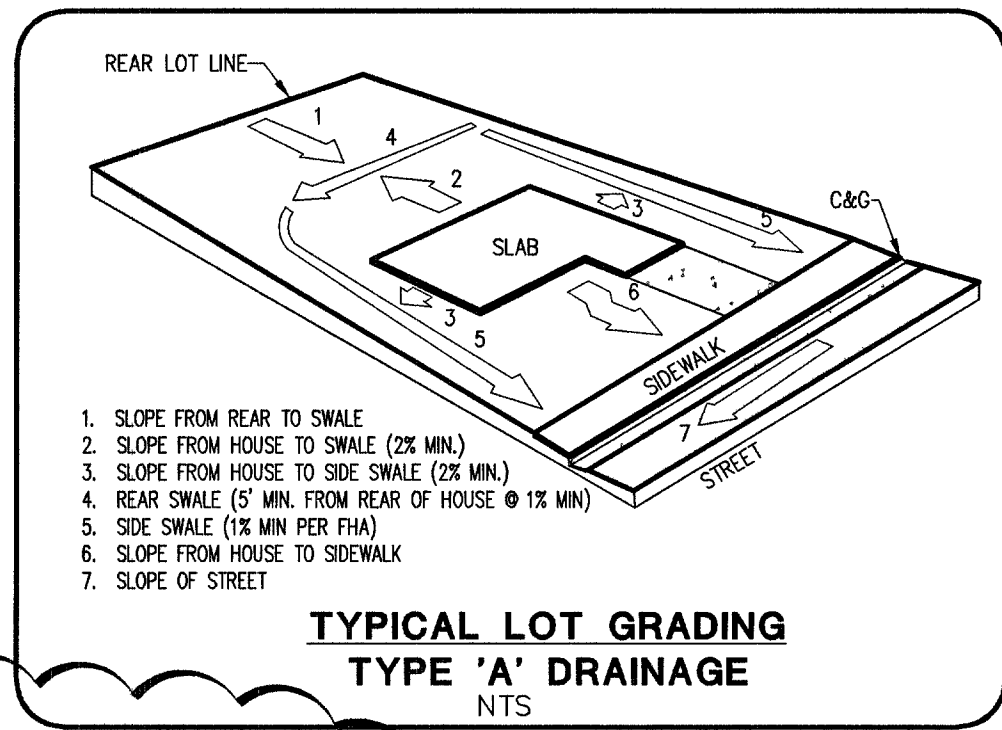
BENCHMARK
CITY OF LAS VEGAS STATION 11V9 12NNW6
RIVET AND IN CONCRETE PAD (TRANS SW7040) ON THE EAST OF CLIFF SHADOWS +/- 175 FT NORTH OF ALEXANDER.

ELEVATION = 887.6822 meters (NAVD83 PUBLISHED)
ELEVATION = 2912.34 U.S. SURVEY FEET (NAVD83 PUBLISHED)

BASIS OF BEARINGS
NORTH 01°09'30" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 12, TOWNSHIP 20 SOUTH, RANGE 99 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE IN FILE 120, PAGE 83 OF SURVEYS.

NOTE
1. ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
2. SEE SHEETS P-1 TO P-14 FOR CONSTRUCTION NOTES, BCR STATIONS, SIDEWALK RAMPS, AND A & B TRANSITIONS.

DRAINAGE QUANTITY ESTIMATE - PUBLIC	
DESCRIPTION	QUANTITY
ROP 18" PIPE	817 LF
ROP 24" PIPE	359 LF
ROP 30" PIPE	7 LF
6" MODIFIED TYPE "CM" DROP INLET	1 EA
4" MODIFIED TYPE "CM" DROP INLET	1 EA
48" STORM DRAIN MANHOLE	5 EA
60" STORM DRAIN MANHOLE	1 EA
12" THICK 450-6" GROUTED RIP-RAP	800 SF



DISCLAIMER 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 OR OVERHEAD 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. CONTRACTOR TO NOTIFY ENGINEER OF ANY CHANGES OR DISCREPANCIES.

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE ONLY

Avoid overhead power line contact.
Call before you Overhead
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DIVISION

Underground
CALL BEFORE YOU DIG
1-702-455-7511
LAS VEGAS CITY OF LAS VEGAS
1-702-229-6611
LAS VEGAS AND CONVENTION CENTER

LEGEND

FINISHED FLOOR ELEVATION	F.F. = 2861.05
PAD ELEVATION	PAD = 60.22
PROPOSED GRADE	0.00
EXISTING GRADE	(0.00)
RIGHT-OF-WAY/PROPERTY LINE	1.0%
PROPOSED SLOPE	1.0%
PAVEMENT SWALE	
PROPOSED HEAVY AC PAVEMENT	
PROPOSED CONCRETE	
SIGHT VISIBILITY ZONE	
RETAINING WALL	

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
HP	HIGH POINT
TC	TOP OF CURB
BCR	BEGIN CURB RETURN
ECR	END CURB RETURN
PROP	PROPOSED
SVZ	SIGHT VISIBILITY ZONE

RETAINING WALL TABLE

# OF COURSES	RETAINER HEIGHT	TOTAL WALL HEIGHT (WITH 6" SCREEN WALL)	USE THESE GRADE DIFFERENCES TO CALCULATE THE RETAINING WALL TO BE USED
1	0.67	6.67 - (6'-0")	0.00 - 0.40
2	1.33	7.33 - (7'-4")	0.41 - 0.70
3	2.00	8.00 - (8'-0")	0.71 - 0.83
4	2.67	8.67 - (8'-8")	0.84 - 1.50
5	3.33	9.33 - (9'-4")	1.51 - 2.17
6	4.00	10.00 - (10'-0")	2.18 - 2.83
7	4.67	10.67 - (10'-8")	2.84 - 3.50
8	5.33	11.33 - (11'-4")	3.51 - 4.17
9	6.00	12.00 - (12'-0")	4.18 - 4.83
10	6.67	12.67 - (12'-8")	4.84 - 5.50
11	7.33	13.33 - (13'-4")	5.51 - 6.17
12	8.00	14.00 - (14'-0")	6.18 - 6.83

ENGINEER'S SEAL
JAMES B. COOPER
P.E. NO. 16264
CIVIL
EXP. 12/31/05
FOR VAND ONLY

I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY ON RECORD WITH THE CITY OF LAS VEGAS, FOR THIS PROJECT 033643
James B. Cooper 3/14/05
JAMES B. COOPER, P.E. NO. 16264 DATE

KBHOME
750 Flato Road Suite F
Las Vegas, NV 89119
(702) 674-2500

Carter-Burgess
Engineers, Architects, Planners
Construction Management and Related Services
6655 Bermuda Road
Las Vegas, NV 89119
(702) 898-5400 Fax (702) 898-5454

GRADING PLAN

VILLAS @ CLIFF SHADOWS

DRAWN BY: SEPT. 2004
DESIGNED BY: SEPT. 2004
CHECKED BY: SEPT. 2004
PROJECT NO: 241060
SCALE: 1"=40' HORIZ.
VERT.

ENGINEER'S SEAL
JAMES B. COOPER
P.E. NO. 16264
CIVIL
EXP. 12/31/05
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ENGINEER'S SEAL
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FOR VAND ONLY

SHEET
G-2
4 OF 25 SHEETS
DRAWING NO.
107Y4856