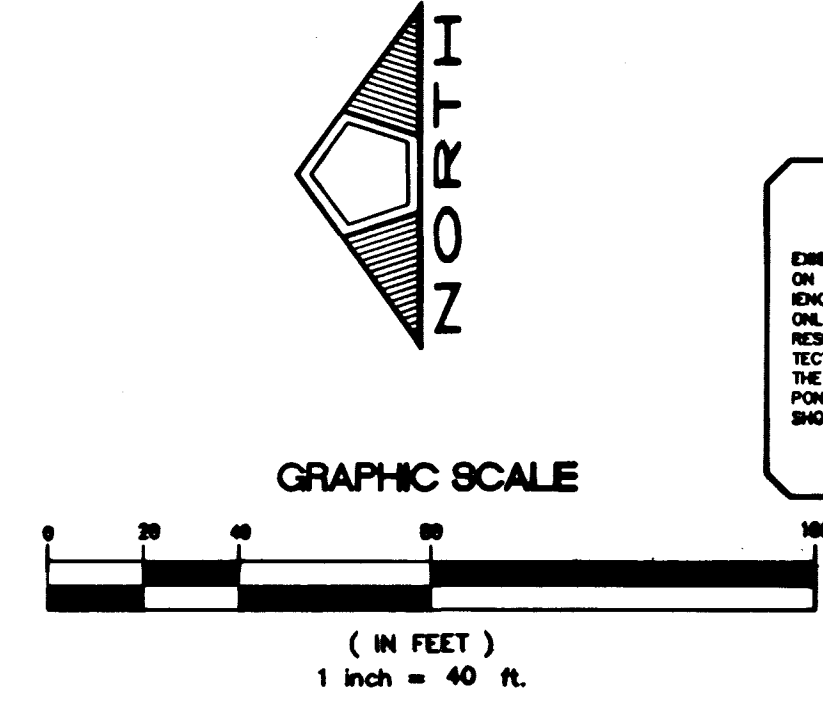


- LEGEND**
- EXISTING IMPROVEMENTS
 - - - EXISTING BLOCK WALL
 - BLOCK RETAINING WALL
 - - - PROPOSED BLOCK WALL
 - ~ INDEX CONTOUR
 - ~ INTERMEDIATE CONTOUR
 - SCARP
 - SWALE
 - 9 LOT NUMBER
 - FG FINISH GRADE
 - FL FLOW LINE
 - FF FINISH FLOOR
 - TC TOP OF CURB
 - 99.9 PAD GRADE
 - ▨ SIGHT VISIBILITY RESTRICTION EASEMENT 30' MAX. OBSTRUCTIONS HEIGHT

NOTE:
ALL DAYLIGHT SCARPING TO MEET GOLF COURSE GRADES ARE SHOWN FOR NATURAL CONDITIONS. PRIOR TO GOLF COURSE GRADING, PRECISE EXTENT OF SCARPS REQUIRED, IF ANY, WILL DEPEND UPON THE EXTENT OF GOLF COURSE GRADING COMPLETED AT THE TIME GRADING FOR UNIT 1 BEGINS.



BENCHMARK
BLM BRASS CAP #41, RAINBOW BLVD. & HORSE DRIVE, STA. 1L990/11W4, ELEV. = 2396.994' (NGVD29) USED (ADD 2.41 FEET TO ALL ELEVATIONS TO CONVERT TO NAVD 88 DATUM)

BASIS OF BEARING
SOUTH 00°37'59" EAST, BEARING OF THE EAST LINE OF THE NORTHEAST (N1/4) OF SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M. AS SHOWN BY A MAP ON FILE IN CLARK COUNTY, NEVADA RECORDER'S OFFICE AS FILE 70, PAGE 15 OF RECORD OF SURVEYS.

NOTICE
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONFORMANCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

BEFORE YOU
CALL 811
1-800-227-2800
UNDERGROUND SERVICE DATA

APPROVAL NOTE
I CERTIFY THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY FOR THIS PROJECT ON FILE WITH THE CITY OF LAS VEGAS.

Samih F. Alhwayek
SAMIH F. ALHWAYEK, PE #10502 DATE: 1-26-99

NOTE
ALL PRIVATE STREETS W/PUE, CLV, DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED, & CLV SEWER EASEMENT.

CITY OF LAS VEGAS GRADING NOTES

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
- THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
- THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

	HORIZONTAL	VERTICAL COMPACTION
A. PAVT AREA SBGRD	0.1"	+0.0' TO -0.1'
B. ENGINEERED FILL	0.5"	+0.1' TO -0.1'

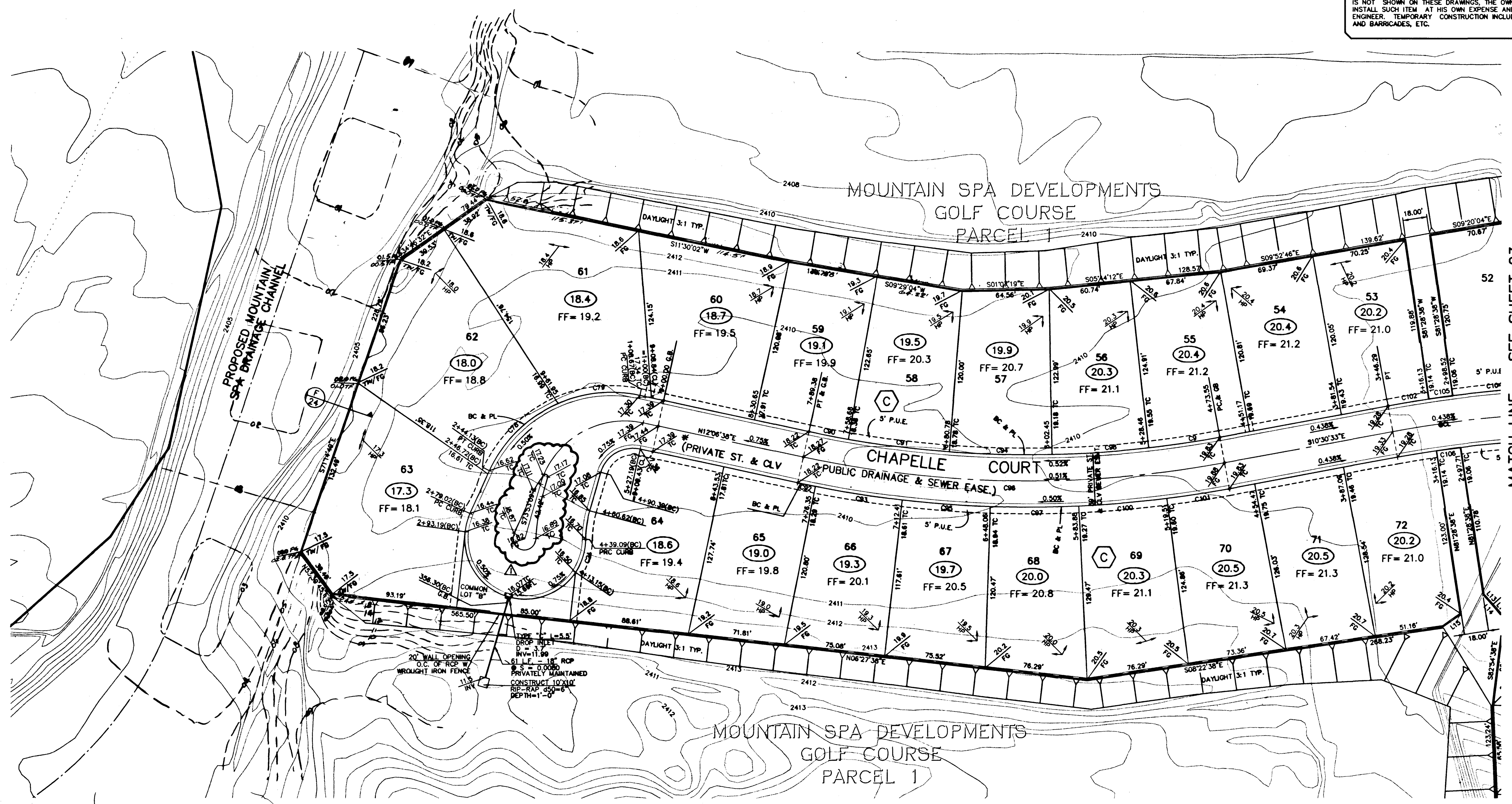
AS INDICATED ON PLAN
MINIMUM OF 90% OR AS SHOWN ON PLANS
- ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
- THE CONTRACTOR SHALL MAINTAIN STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

1/98

NO.	DESCRIPTION	DATE	APP'D.
1	REVISED CILL DE AC ISLAND	1-26-99	

MOUNTAIN SPA RESIDENTIAL DEVELOPMENT, LLC.
2810 WEST CHARLESTON BLVD., SUITE F-56
LAS VEGAS, NV 89102
(702)870-1234

PENTACORE
CIVIL ENGINEERING - LAND SURVEYING - PLANNING
CONSTRUCTION MANAGEMENT - ADA CONSULTING
LAS VEGAS, NEVADA 89102
(702)255-0115



MATCH LINE - SEE SHEET 23

GRADING PLAN - 2

MOUNTAIN SPA
UNIT NO. 1

DATE: JULY 98
FM: LENNARD
DRAWN BY:
DESIGNED BY:
CHECKED BY:
ADA CHECKED: 0156/0001
JOB NO.: 0156/0001
SCALE: 1" = 40'

REGISTERED PROFESSIONAL ENGINEER
SAMIH ALHWAYEK
1-26-99
CIVIL
No. 10502

SHEET 21 OF 29
CLV. DWG.#

