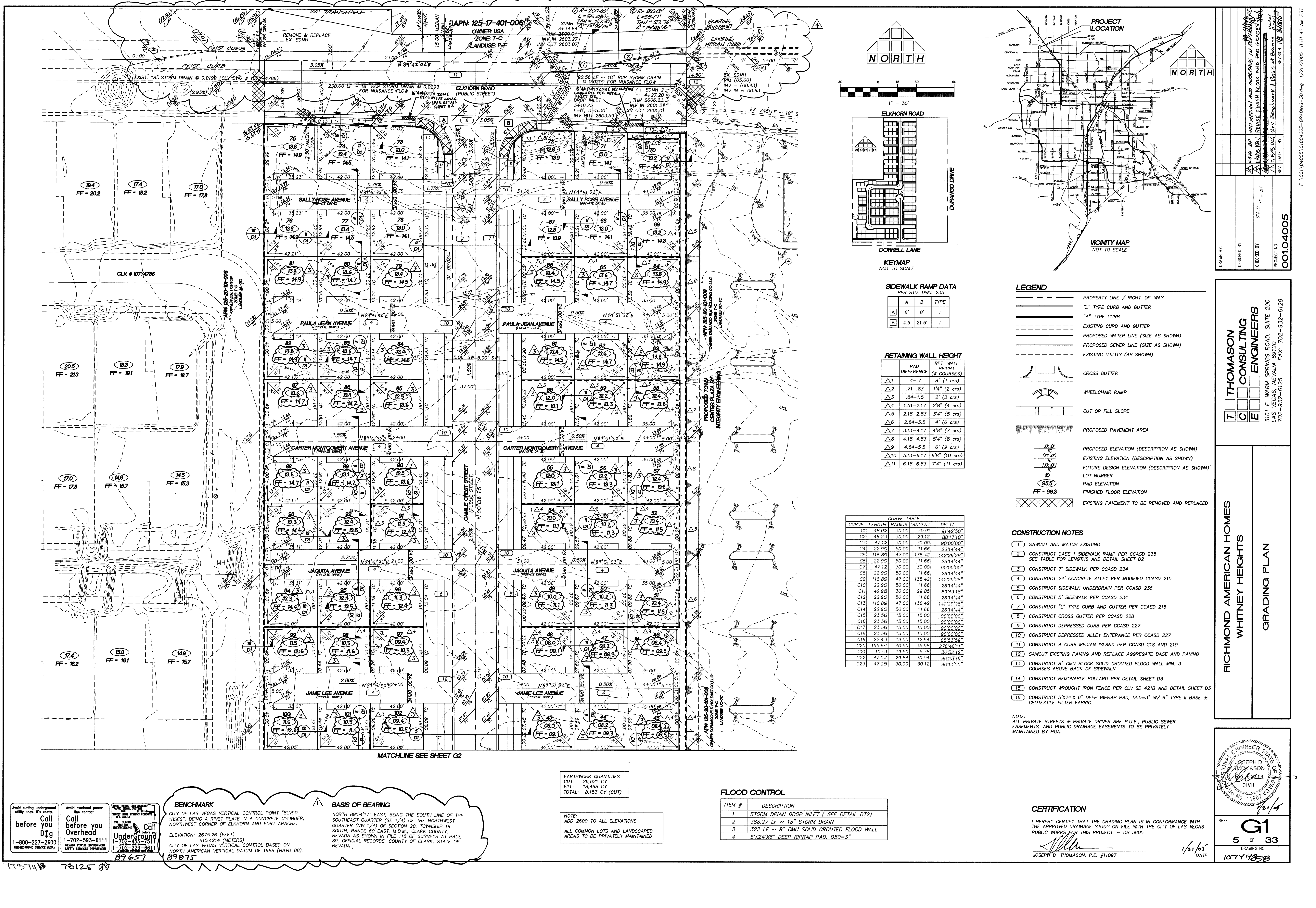




Call before you dig
1-800-227-2600
Underground Utility Service (UUS)

Call before you dig
1-702-593-6111
Nevada Power Corporation
Safety Services Department

Call before you dig
1-702-455-7511
Nevada Power Corporation
Safety Services Department

BENCHMARK
CITY OF LAS VEGAS VERTICAL CONTROL POINT "BLV90 185S", BEING A RIVET PLATE IN A CONCRETE CYLINDER, NORTHWEST CORNER OF ELKHORN AND FORT ARACHE.
ELEVATION: 2675.26 (FEET)
815.4214 (METERS)
CITY OF LAS VEGAS VERTICAL CONTROL BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
89075

BASIS OF BEARING
NORTH 89°54'17" EAST, BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 60 EAST, W.D.M., CLARK COUNTY, NEVADA AS SHOWN IN FILE 118 OF SURVEYS AT PAGE 89, OFFICIAL RECORDS, COUNTY OF CLARK, STATE OF NEVADA.

EARTHWORK QUANTITIES
CUT: 26,621 CY
FILL: 18,468 CY
TOTAL: 8,153 CY (CUT)

NOTE:
ADD 2600 TO ALL ELEVATIONS
ALL COMMON LOTS AND LANDSCAPED AREAS TO BE PRIVATELY MAINTAINED

ITEM #	DESCRIPTION
1	STORM DRAIN DROP INLET (SEE DETAIL DT2)
2	388.27 LF ~ 18" STORM DRAIN
3	322 LF ~ 8" CMU SOLID GROUTED FLOOD WALL
4	5'X24'X6" DEEP RIPRAP PAD, D50=3"

CERTIFICATION
I HEREBY CERTIFY THAT THE GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS PUBLIC WORKS FOR THIS PROJECT. - DS 3605
JOSEPH D. THOMASON, P.E. #11097
1/21/05
DATE

GRADING PLAN
SHEET 5 OF 33
DRAWING NO 10744858
1/21/05
DATE

THOMASON CONSULTING ENGINEERS
3161 E. WARM SPRINGS ROAD, SUITE 200
LAS VEGAS, NEVADA 89120
702-932-6129
702-932-6125
FAX

RICHMOND AMERICAN HOMES WHITNEY HEIGHTS
GRADING PLAN

PROJECT LOCATION
VICINITY MAP
NOT TO SCALE
SCALE: 1" = 30'
PROJECT NO 001.04005
KEY DATE 1/21/05

SIDEWALK RAMP DATA
PER STD. DWG. 235

	A	B	TYPE
A	8'	8'	I
B	4.5	21.5'	I

RETAINING WALL HEIGHT		
	PAD DIFFERENCE	RET. WALL HEIGHT (# COURSES)
Δ1	.4-7	8" (1 crs)
Δ2	.71-.83	1'4" (2 crs)
Δ3	.84-1.5	2' (3 crs)
Δ4	1.51-2.17	2'8" (4 crs)
Δ5	2.18-2.83	3'4" (5 crs)
Δ6	2.84-3.5	4' (6 crs)
Δ7	3.51-4.17	4'8" (7 crs)
Δ8	4.18-4.83	5'4" (8 crs)
Δ9	4.84-5.5	6' (9 crs)
Δ10	5.51-6.17	6'8" (10 crs)
Δ11	6.18-6.83	7'4" (11 crs)

CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C1	48.02	30.00	30.91	91°42'50"
C2	46.23	30.00	29.12	88°17'10"
C3	47.12	30.00	30.00	90°00'00"
C4	22.90	50.00	11.66	26°14'44"
C5	116.89	47.00	138.42	142°29'28"
C6	22.90	50.00	11.66	26°14'44"
C7	47.12	30.00	30.00	90°00'00"
C8	22.90	50.00	11.66	26°14'44"
C9	116.89	47.00	138.42	142°29'28"
C10	22.90	50.00	11.66	26°14'44"
C11	46.98	30.00	29.85	89°43'18"
C12	22.90	50.00	11.66	26°14'44"
C13	116.89	47.00	138.42	142°29'28"
C14	22.90	50.00	11.66	26°14'44"
C15	23.56	15.00	15.00	90°00'00"
C16	23.56	15.00	15.00	90°00'00"
C17	23.56	15.00	15.00	90°00'00"
C18	23.56	15.00	15.00	90°00'00"
C19	22.43	19.50	12.64	65°53'59"
C20	195.64	40.50	35.98	276°46'11"
C21	10.51	19.50	5.38	30°52'12"
C22	47.07	29.84	30.04	90°23'16"
C23	47.25	30.00	30.12	90°13'55"