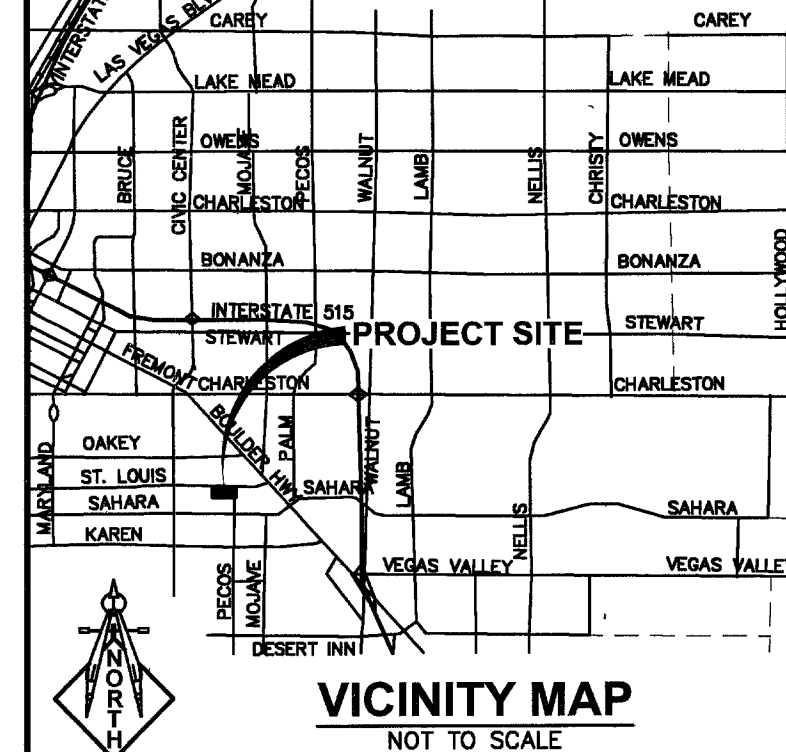
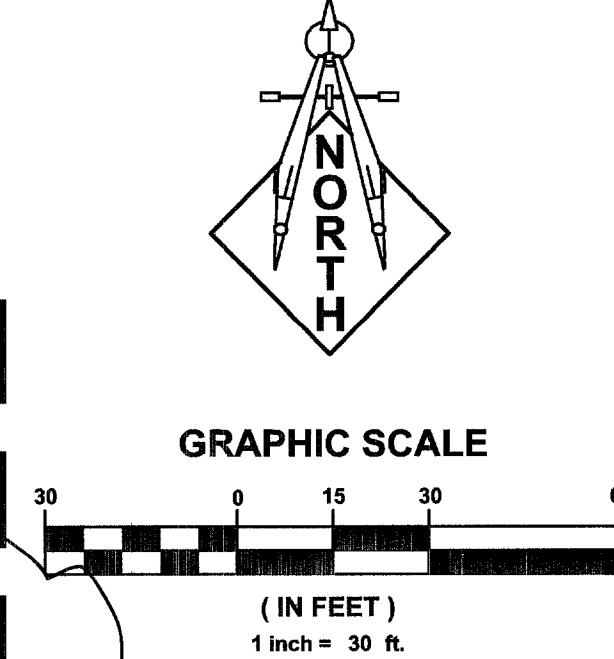
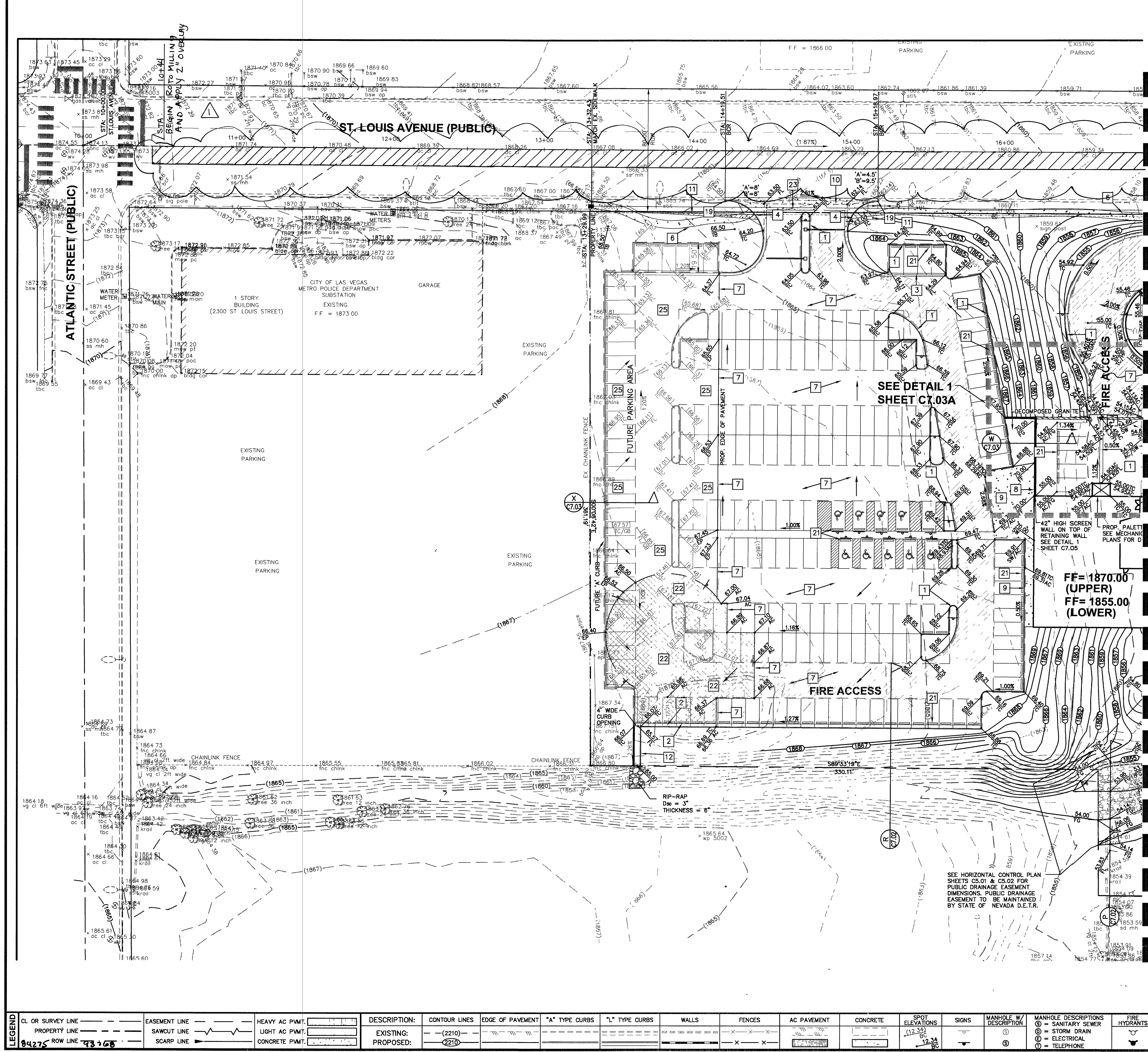




GRADING PLAN CERTIFICATION

NAME: GUY M. MORRIS PE #14526 DATE: 08-15-05

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT. (DS3601)

- CONSTRUCTION NOTES:**
-NOT ALL NOTES USED ON THIS SHEET-
- CONSTRUCT "A" TYPE CURB PER DETAIL 6 ON SHEET C7.01
 - CONSTRUCT "L" TYPE CURB PER DETAIL 3 ON SHEET C7.01
 - CONSTRUCT 2" CONC. VALLEY GUTTER PER DETAIL 7 ON C7.01
 - CONSTRUCT CASE 1 SIDEWALK RAMPS USING ARMOR TILE, TRUNCATED DOMES OR EQUIVALENT PER C.C.U.S.D. #235
 - CONSTRUCT CURB OPENING, SEE PLAN FOR WIDTHS
 - CONSTRUCT CONC. MEANDERING SIDEWALK PER C.C.A.U.S.D. #234
 - CONSTRUCT ON-SITE AC PAVEMENT PER DETAIL 8 SHEET C7.01
 - CONSTRUCT CONCRETE RETAINING/HEADWALL PER DETAIL 1 ON SHT. C7.05
 - CONSTRUCT CONCRETE SIDEWALK PER C.C.A.U.S.D. # 234
 - CONSTRUCT COMMERCIAL DRIVEWAY & CROSS GUTTER PER C.C.A.U.S.D. #228 & #228
 - SIGHT VISIBILITY ZONE, NO STRUCTURE, VEGETATION, OR OBJECT, OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONE.
 - CONSTRUCT 4" - CHANNEL PER DETAIL 2 ON SHEET C7.01
 - CONSTRUCT 2 SIDEWALK DRAINS PER C.C.U.S.D. # 236
 - CONSTRUCT 8" CMU RETAINING/FLOODWALL PER DETAIL 2 ON SHT. C7.05
 - CONSTRUCT 8" CMU RETAINING/FLOODWALL PER DETAIL 3 ON SHT. C7.05
 - CONSTRUCT 8" WIDE CROSS GUTTER PER C.C.A.U.S.D. #228
 - CONSTRUCT 8" WIDE CROSS GUTTER WITHOUT SANDDRAINS PER C.C.A.U.S.D. #228
 - REMOVE & REPLACE EXISTING PAVEMENT SECTION PER C.C.A.U.S.D. DUCKLES PER PHASE II
 - MATCH EXISTING CURB
 - REMOVE EXISTING SIDE AND REPLACE SIDEWALK PER C.C.A.U.S.D. #235
 - CONSTRUCT BUMPER BLOCK PER C.C.A.U.S.D. #238
 - 2" TEMP. AC PAVEMENT OVER EXISTING GRADE COMPACTED TO 90% DENSITY
 - GATED ENTRY SHALL MEET GATED STANDARDS OF C.C.U.S.D. # 222A
 - TYP 2'x2' JENSEN PRECAST 2424 HDI, SEE DETAIL 1 SHEET C7.01
 - INSTALL DECOMPOSED GRANITE
- NOTE:**
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.
- A.P.N.:**
162-01-402-006
- BASIS OF BEARINGS:**
THE BASIS OF BEARINGS FOR THIS SURVEY IN THE NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY THAT RECORD OF SURVEY ON FILE IN FILE 09 OF SURVEYS, PAGE 08 IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.
- SAID LINE BEARS NORTH 89°40'09" WEST.
- BENCHMARK:**
CLV BM 6C11 154
BEING A RIVET AND PLATE IN TOP OF CURB @ NE CORNER OF SAHARA AND MCLEOD
ELEVATION: 1853.32 FEET / 564.8927 METERS
(NAVD '88 DATUM)
- Avoid cutting underground utility lines. It's costly.

STORM DRAIN QUANTITIES

CROSS GUTTER	1,000 SF
SIDEWALK UNDERDRAIN	1 EA
12" STORM DRAIN	1 LF
2'x2' JENSEN DROP INLET	4 EA
RIP-RAP (D80-04")	104 CY
RIP-RAP (D80-06")	122 CY

NOTE:
PUBLIC DRAINAGE EASEMENT TO BE MAINTAINED BY STATE OF NEVADA D.E.T.R.

LEGEND:

	CONCRETE SIDEWALK
	DECOMPOSED GRANITE WALKWAY

SAFETY ALERT
Call before you Dig
Before you Overhead
1-800-227-2600
1-702-227-2929

CL OR SURVEY LINE	EASEMENT LINE	HEAVY AC PMWT.	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
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PROPERTY LINE	SAWTOOTH LINE	LIGHT AC PMWT.	EXISTING:	(2210)								(12.34)												
ROW LINE	SCARP LINE	CONCRETE PMWT.	PROPOSED:	(2210)								12.34												

LOCHSA ENGINEERING
6345 SOUTH JONES BOULEVARD, SUITE 100
LAS VEGAS, NV 89118
PHONE: (702) 365-9312, FAX: (702) 365-9317

GRADING PLAN

STATE OF NEVADA-SPWB#01-E01
Department of Employment, Training and Rehabilitation
2300 E. St. Louis Avenue, Las Vegas, NV 89104

PROJECT No. 7112

SCALE: 1"=30'

DATE: 07/20/05

DESIGNED BY: GUY M. MORRIS

CHECKED BY: GUY M. MORRIS

EXP. 12-31-05

CIVIL

No. 14516

PROJECT No. 7112

SHEET No. C4.02

SHEET 6 OF 16

DRAWING No. 10744481