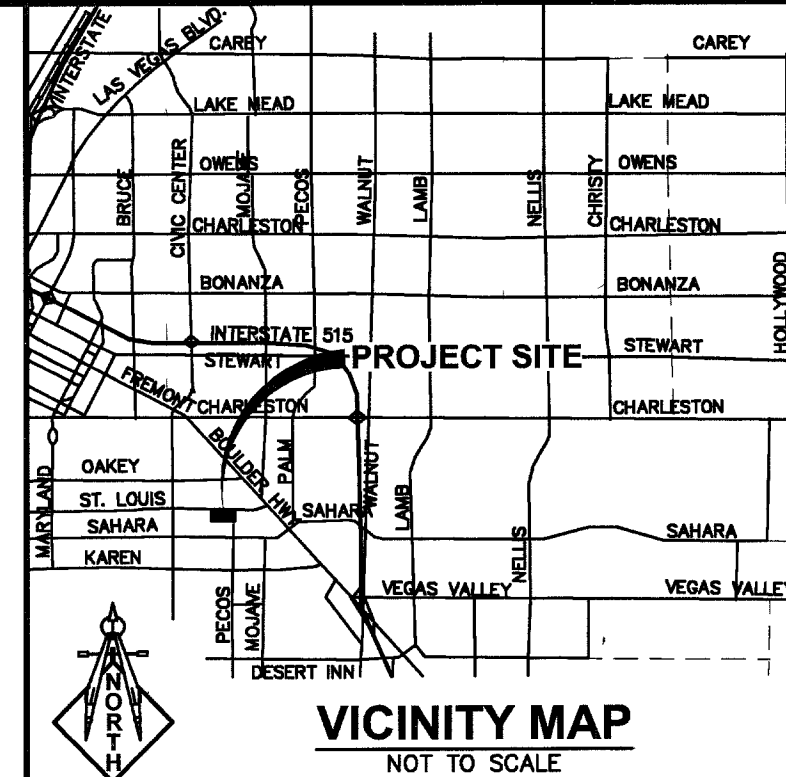
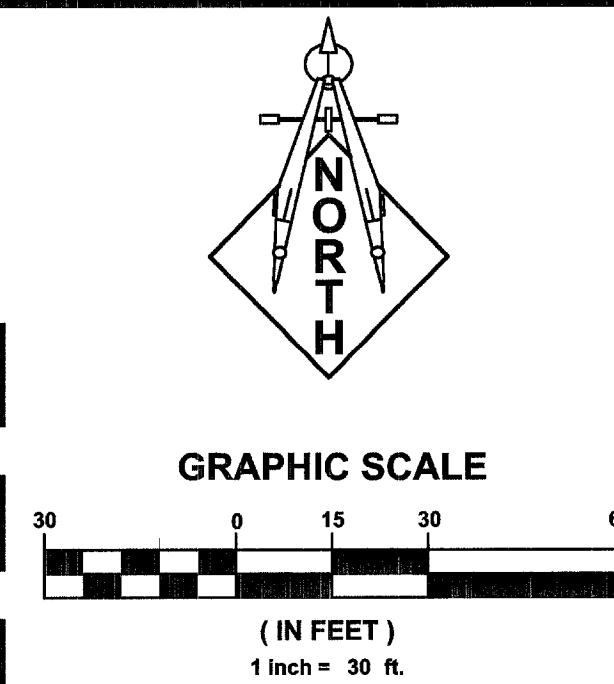
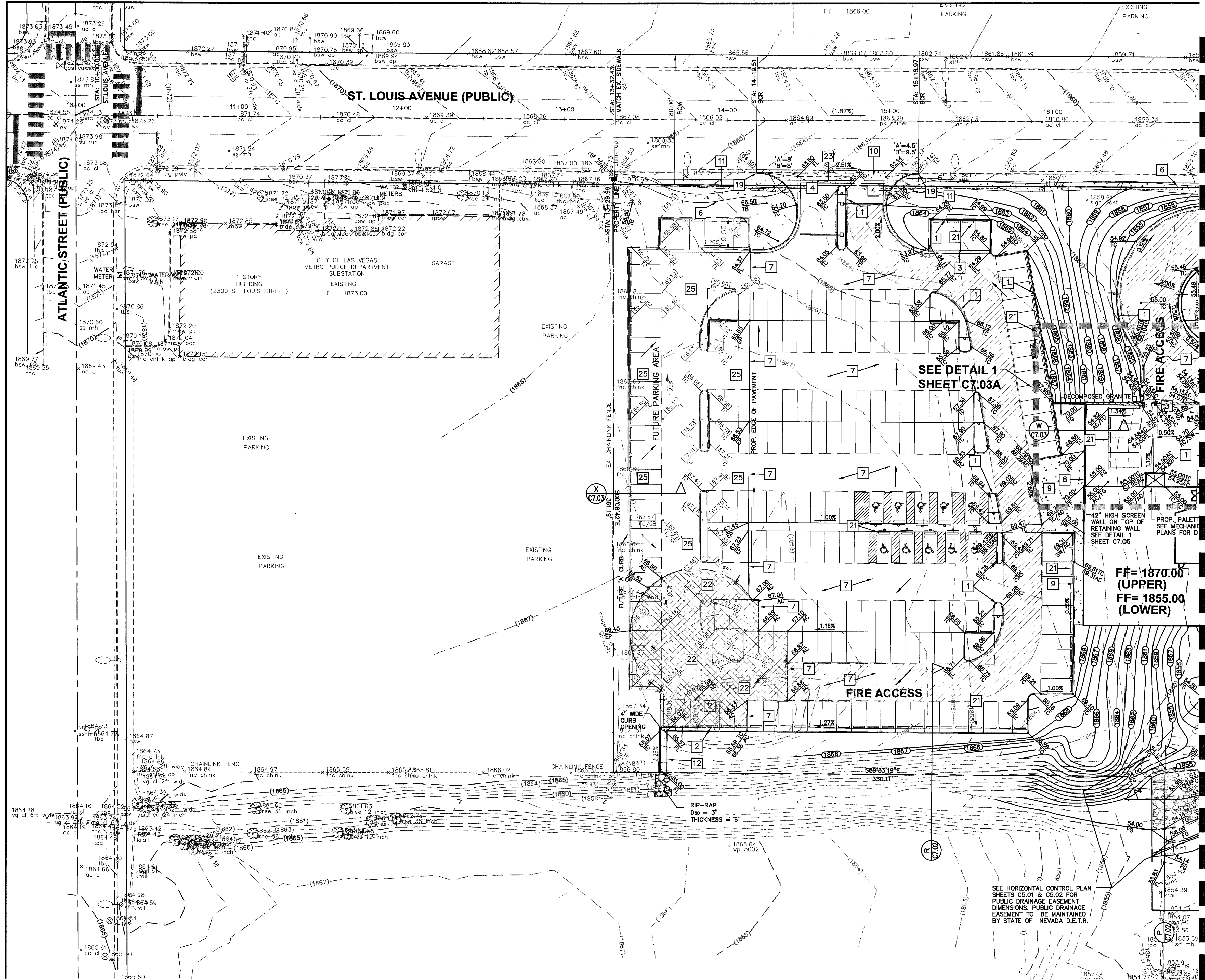




GRADING PLAN CERTIFICATION

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-
1. CONSTRUCT "A" TYPE CURB PER DETAIL 6 ON SHEET C7.01
 2. CONSTRUCT "L" TYPE CURB PER DETAIL 3 ON SHEET C7.01
 3. CONSTRUCT 2" CONC. VALLEY GUTTER PER DETAIL 7 ON C7.01
 4. CONSTRUCT CASE 1 SIDEWALK RAMPS USING ARMOR TILE, TRUNCATED DOMES OR EQUIVALENT PER C.C.U.S.D. #235
 5. CONSTRUCT CURB OPENING, SEE PLAN FOR WIDTHS
 6. CONSTRUCT CONC. MEANDERING SIDEWALK PER C.C.U.S.D. #234
 7. CONSTRUCT ON-SITE AC PAVEMENT PER DETAIL 8 SHEET C7.01
 8. CONSTRUCT CONCRETE RETAINING/HEADWALL PER DETAIL 1 ON SHEET C7.05
 9. CONSTRUCT CONCRETE SIDEWALK PER C.C.U.S.D. #234
 10. CONSTRUCT COMMERCIAL DRIVEWAY & CROSS GUTTER PER C.C.U.S.D. #225 & #228
 11. 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.
 12. CONSTRUCT 4" - CHANNEL PER DETAIL 2 ON SHEET C7.01
 13. CONSTRUCT 2 SIDEWALK DRAINS PER C.C.U.S.D. #236
 14. CONSTRUCT 8" CMU RETAINING/FLOODWALL PER DETAIL 2 ON SHEET C7.05
 15. CONSTRUCT 8" CMU RETAINING/FLOODWALL PER DETAIL 3 ON SHEET C7.05
 16. CONSTRUCT 8" WIDE CROSS GUTTER PER C.C.U.S.D. #228
 17. CONSTRUCT 8" WIDE CROSS GUTTER WITHOUT SPANDRELS PER C.C.U.S.D. #228
 18. MILL EXISTING AC PAVEMENT AND APPLY 2" AC OVERLAY
 19. MATCH EXISTING CURB
 20. REMOVE EXISTING SIDE AND REPLACE SIDEWALK PER C.C.U.S.D. #235
 21. CONSTRUCT BUMPER BLOCK PER C.C.U.S.D. #238
 22. 2" TEMP AC PAVEMENT OVER EXISTING GRADE COMPACTED TO 90% DENSITY
 23. GATED ENTRY SHALL MEET GATED STANDARDS OF C.C.U.S.D. #222A
 24. TYP 2"x2" JENSEN PRECAST 2424 HDI, SEE DETAIL 1 SHEET C7.01
 25. 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 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.

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)

NOTE:
PUBLIC DRAINAGE EASEMENT TO BE MAINTAINED BY STATE OF NEVADA D.E.T.R.
Avoid cutting underground utility lines. It's costly.

SAFETY ALERT
Call before you Dig
1-800-227-2600

Call before you Overhead
1-702-227-2929

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 (D50-04")	104 CY
RIP-RAP (D50-08")	122 CY

LEGEND:
CONCRETE SIDEWALK
DECOMPOSED GRANITE WALKWAY

LEGEND	CL OR SURVEY LINE	EASEMENT LINE	HEAVY AC PWMT.	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
	PROPERTY LINE	SAWCUT LINE	LIGHT AC PWMT.	EXISTING:	---(2210)---								 12.34 BC			① = SANITARY SEWER ② = STORM DRAIN ③ = ELECTRICAL ④ = TELEPHONE									
	ROW LINE	SCARP LINE	CONCRETE PWMT.	PROPOSED:	---(2210)---								 12.34 BC												

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

DRAWN BY: SSS DATE: 07/20/05
DESIGNED BY: SSS DATE: 07/20/05
CHECKED BY: SSS DATE: 07/20/05
PROJECT No.: 7112
SCALE: 1"=30'

SHEET No. 4.02
SHEET 6 OF 16
DRAWING No. 1074481

DATE: 08-15-05
BY: GUY M. MORRIS
REV: 08-15-05