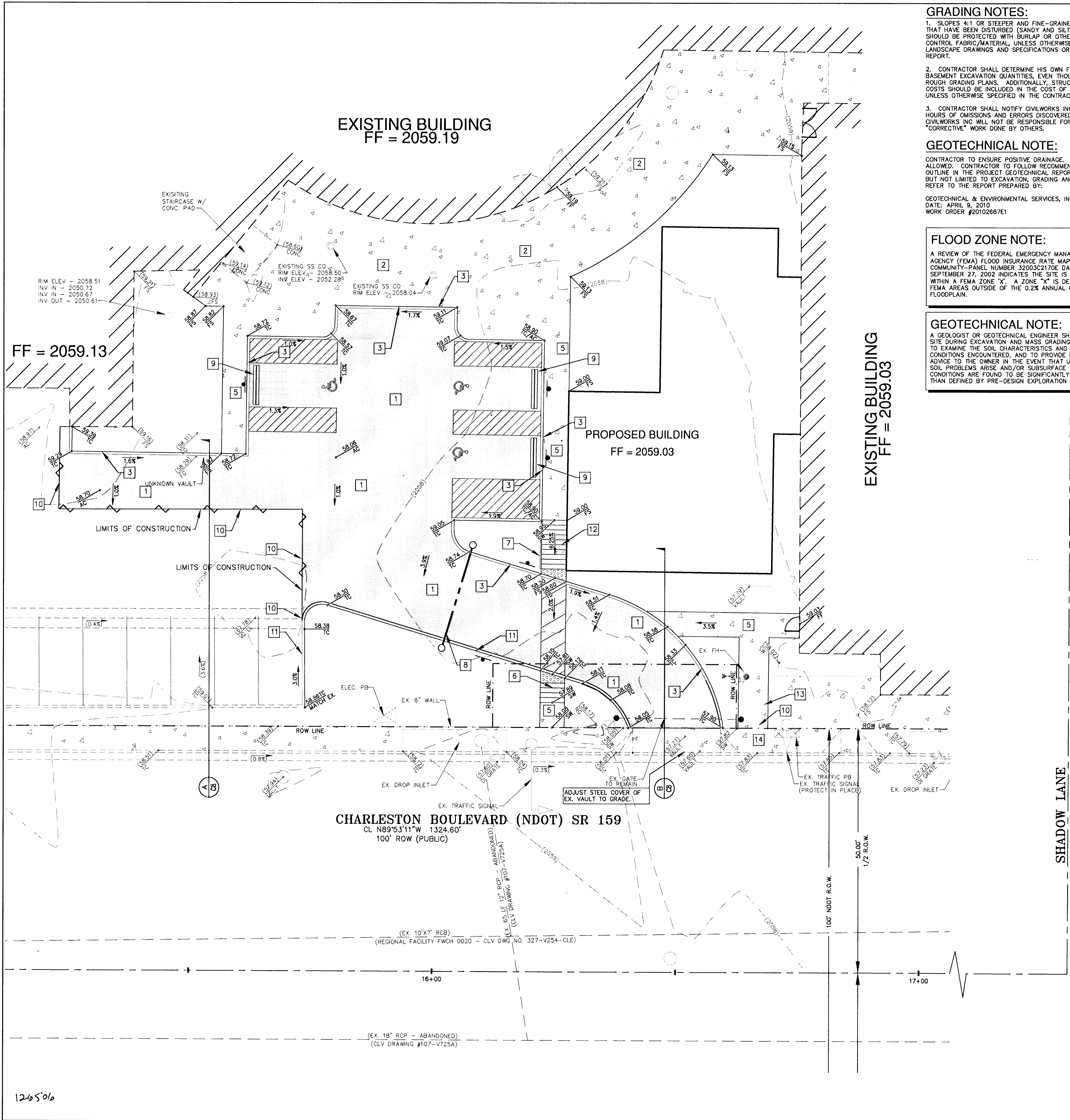


ABBREVIATIONS
(SEE CIV. SH. FOR COMPLETE LIST)

AC	ASPHALTIC CONCRETE
ADJ	ADJUST
AGG	AGGREGATE
BCR	BACK OF CURB
BCR	BEGINNING OF CURB RETURN
BEG	BEGIN
BSW	BACK OF SIDEWALK
BVC	BEGINNING OF VERTICAL CURVE
CATV	CABLE TV
CCAU	CLARK COUNTY AREA
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
CL	CENTERLINE
CLV	CITY OF LAS VEGAS
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDUIT
CULV	CULVERT
DC	DEPRESSED CURB
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
ELEC	ELECTRIC
EAC	EDGE OF AC
EC	END OF CURVE
ECR	END OF CURB RETURN
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EVC	END OF VERTICAL CURVE
EX	EXISTING
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FO	FIBER OPTICS
FS	FINISHED SURFACE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HDL	HEADWALL
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAL FEET
LS	LANDSCAPE
LT	LEFT
LVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTR	METER
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
PB	PULL BOX
PL	PROPERTY LINE
PP	POWER POLE
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE PIPE
PVMT	PAVEMENT
RT	RIGHT
ROW	RIGHT-OF-WAY
SS	SANITARY SEWER
SD	STORM DRAIN
SNWA	SOUTHERN NEVADA WATER AUTHORITY
STA	STATION
STLT	STREET LIGHT
SVZ	SIGHT VISIBILITY ZONE
SW	SIDEWALK
TEL	TELEPHONE
TO	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
VG	VALLEY GUTTER
WL	WATER LINE

LEGEND

DESCRIPTION	EXISTING	PROPOSED
UTILITIES		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11.25' ELBOW		
22.5' ELBOW		
45' ELBOW		
90' ELBOW		
CROSS		
TEE		
MANHOLES		
ELECTRICAL		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
STREET LIGHTS		
100W HPS STLT		
150W HPS STLT		
200W HPS STLT		
250W HPS STLT		
400W HPS STLT		
GRADING		
SPOT ELEV.	(12.3)	12.34
SLOPE	(1.2%)	1.23%
5' CONT.		
1' CONT.		
SITE		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PAVT.		
WALL		
LINE TYPES		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT OF WAY LINE		
EASEMENT LINE		
SANITARY LINE		
FLOW LINE		
SHADES		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		



GRADING NOTES:

- SLOPES 4:1 OR STEEPER AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS) SHOULD BE PROTECTED WITH BURLAP OR OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY LANDSCAPE DRAWINGS AND SPECIFICATIONS OR THE SOILS REPORT.
- CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS. ADDITIONALLY, STRUCTURE BACKFILL COSTS SHOULD BE INCLUDED IN THE COST OF THE STRUCTURE, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY CIVILWORKS INC WITHIN 24 HOURS OF OMISSIONS AND ERRORS DISCOVERED ON PLANS. CIVILWORKS INC WILL NOT BE RESPONSIBLE FOR ANY "CORRECTIVE" WORK DONE BY OTHERS.

GEOTECHNICAL NOTE:

CONTRACTOR TO ENSURE POSITIVE DRAINAGE. NO PONDING ALLOWED. CONTRACTOR TO FOLLOW RECOMMENDATIONS AS OUTLINE IN THE PROJECT GEOTECHNICAL REPORT, INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING AND COMPACTION. REFER TO THE REPORT PREPARED BY:

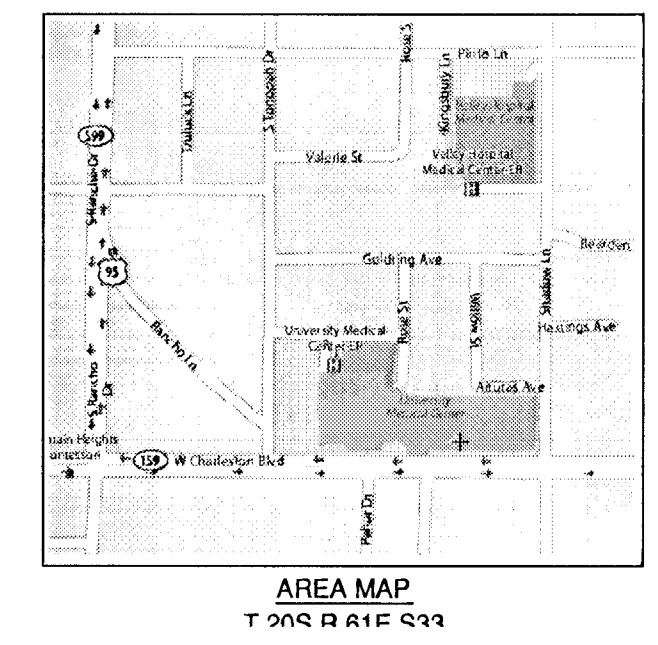
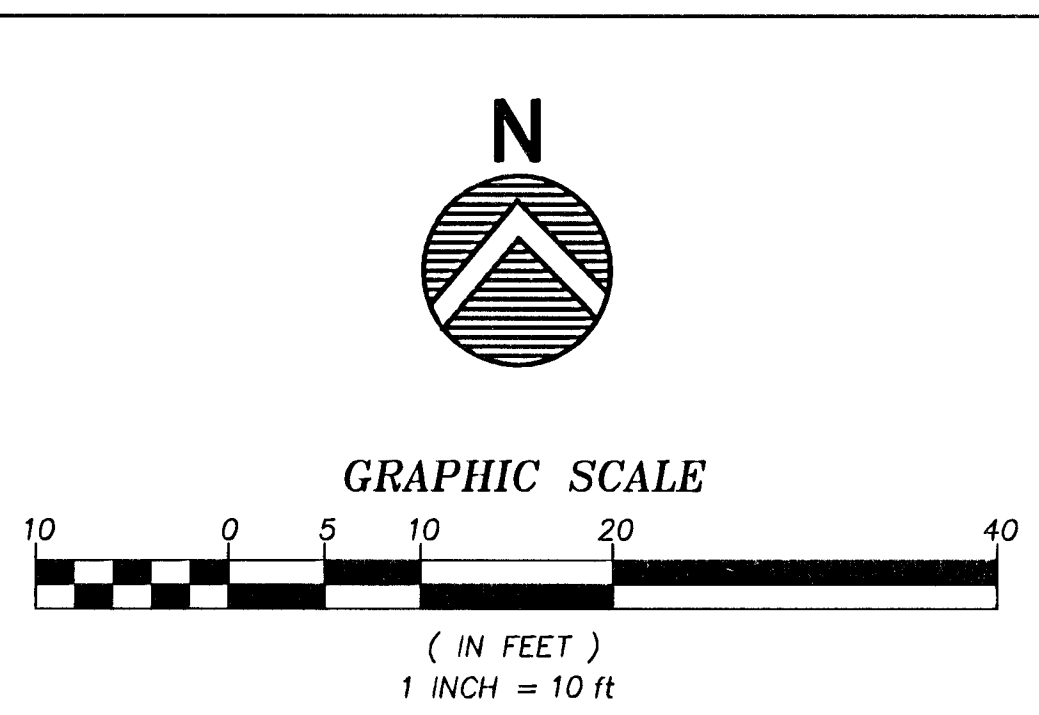
GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.
DATE: APRIL 9, 2010
WORK ORDER #2010266761

FLOOD ZONE NOTE:

A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL NUMBER 320302170E DATED SEPTEMBER 27, 2002 INDICATES THE SITE IS LOCATED WITHIN A FEMA ZONE "X". A ZONE "X" IS DESCRIBED AS FEMA AREAS OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

GEOTECHNICAL NOTE:

A GEOLOGIST OR GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING EXCAVATION AND MASS GRADING OPERATIONS TO EXAMINE THE SOIL CHARACTERISTICS AND GEOLOGICAL CONDITIONS ENCOUNTERED, AND TO PROVIDE PROFESSIONAL ADVICE TO THE OWNER IN THE EVENT THAT UNANTICIPATED SOIL PROBLEMS ARISE AND/OR SUBSURFACE SITE CONDITIONS ARE FOUND TO BE SIGNIFICANTLY DIFFERENT THAN DEFINED BY PRE-DESIGN EXPLORATION AND TESTING.



- CONSTRUCTION NOTES:**
- ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS (C.C.A.U.S.D.)" LATEST EDITION AND/OR REGULATING ENTITY HAVING JURISDICTION.
 - NOT ALL NOTES USED ON THIS SHEET -
- CONSTRUCT AC PAVEMENT PER THE SOILS REPORT
 - CONSTRUCT CONCRETE PAVEMENT PER THE SOILS REPORT
 - CONSTRUCT 'A' TYPE CURB PER C.C.A.U.S.D. No. 219.
 - NOT USED.
 - CONSTRUCT CONCRETE SIDEWALK PER C.C.A.U.S.D. No. 234.
 - CONSTRUCT CASE 1 SIDEWALK RAMP PER C.C.A.U.S.D. No. 235.
 - INSTALL ADA APPROVED HANDRAIL
 - INSTALL CRASH GATE
 - INSTALL BUMPER BLOCK PER C.C.A.U.S.D. No. 238.
 - MATCH EXISTING
 - CONSTRUCT "L" TYPE CURB PER C.C.A.U.S.D. No. 219.
 - CONSTRUCT RAMP AND HANDRAIL PER ADA STANDARDS.
 - REMOVE DRAINAGE VAULT AND REPLACE SIDEWALK
 - REMOVE AND REPLACE SIDEWALK PER C.C.A.U.S.D. No. 234

NOTE:

SEE SHEET C-7 FOR SIDEWALK RAMP CONSTRUCTION (WEST DRIVEWAY)

GRADING PLAN CERTIFICATION

NAME: BRANDON POTTS PE #13121 DATE: 2-16-11

CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH APPROVED DRAINAGE STUDY DS4442 FOR THIS SITE ON FILE AT CITY OF LAS VEGAS FOR THIS PROJECT.

BASIS OF BEARING:

NORTH 89°54'59" WEST BEING THE CENTERLINE OF PINTO LANE AS SHOWN BY MAP THEREOF ON FILE IN BOOK 123, PAGE 37 OF PLATS, LYING WITHIN THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK: 0LV01 33W6 (NAVD 88) RIVET AND PLATE IN TOP OF CURB AT SOUTHEAST CORNER OF ALTA & SHADOW LN

ELEV. = 625.7337 (METRIC)
2052.93 (US SURVEY FEET)
2008 ADJUSTED VALUE = 625.692 (METRIC)
2052.79 (US SURVEY FEET)

NOTE: THE SUBJECT SITE WAS SURVEYED BEFORE THE 2008 ADJUSTED VALUE WAS ADOPTED. THEREFORE, SITE GRADING SHOWN ON THE PLANS ARE BASED OFF OF THE 2052.93 ELEVATION.

H #39833

SAFETY ALERT

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1-702-227-2929

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Call 811 before you dig. UnderGround C.C. TRAFFIC OPERATIONS

1-702-432-5300
LV AREA COMPUTERIZED TRAFFIC SYS

REVISION DESCRIPTION

#	DATE	DESCRIPTION

CIVILWORKS INC

7625 Dean Martin Drive, Suite #101 • Las Vegas, NV 89139-5975
Office #: (702) 876-5474 • Fax #: (702) 876-1525

NVCI CANCER CENTER
AT CHARLESTON BLVD. AND SHADOW LANE

DEVELOPER: NEVADA CANCER INSTITUTE
1 BREAKTHROUGH WAY
LAS VEGAS, NEVADA 89135
CONTACT: STEVE ARCHER
PHONE: 702-822-5400

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PROJ. NO.: 9880000500
DATE: 2-16-11
TECHN.: BRANDON POTTS
DRAWING: BRANDON POTTS
SCALE: AS SHOWN

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PURPOSE OF VALIDITY

BRANDON A. POTTS
PE #13121
CIVIL ENGINEER

GRADING PLAN

SHEET #

C5

107V5585