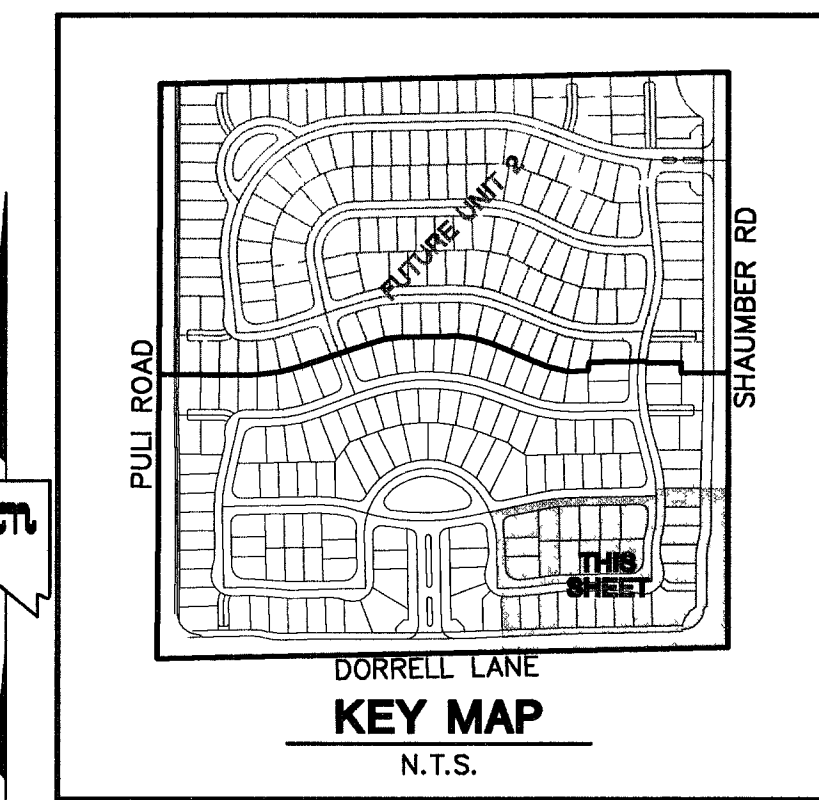
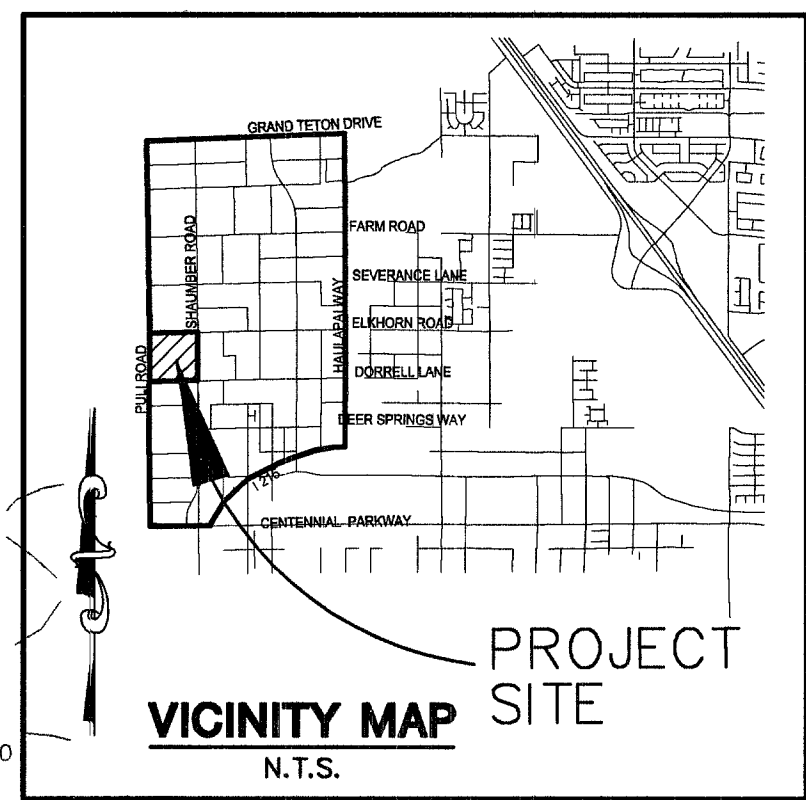
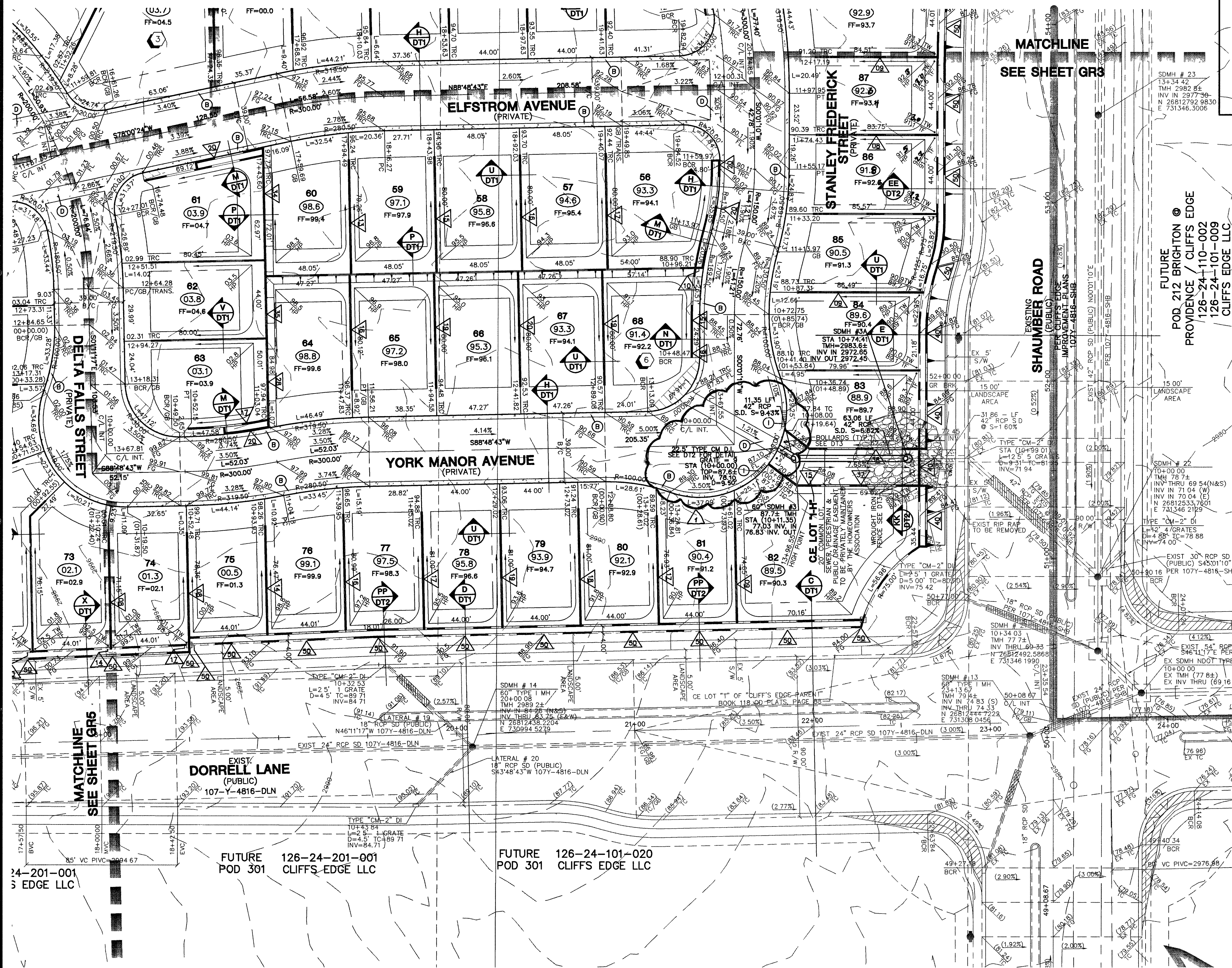


Call before you Undergo
CLARK COUNTY TRAFFIC OPERATIONS
1-702-228-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

ENGINEER'S ESTIMATE OF FLOOD CONTROL QUANTITIES

1 COURSE SOLID GROUTED STEM WALL	388 L.F.
2 COURSE SOLID GROUTED FLOOD WALL	693 L.F.
3 COURSE SOLID GROUTED FLOOD WALL	1,160 L.F.
DRAINAGE EASEMENT	1,674 SQ. FT.
42" RCP	74.41 L.F.
22.5" D.I.	1 EA.

PROJECT BENCHMARK
DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 8LV99:13SES
NAVD88 ELEVATION: 869.60 METERS (2853.03 FEET)
RIVET AND PLATE IN CONCRETE CYLINDER NW CORNER OF HUALAPAI AND ELKHORN
NOTE: WHEN THE SURVEYING FOR THIS PROJECT BEGAN, THE ABOVE REFERENCED BENCHMARK 8LV99:13SES WAS NOT PUBLISHED. THE BASIS FOR THE DATUM FOR THIS PROJECT IS SHOWN ON RECORD OF SURVEY FILE 124 PAGE 94, CLARK COUNTY BENCHMARK 1000-8N6, WHICH AT THE TIME OF THE ORIGINAL SURVEY (PRIOR TO THE CURRENT 2003 COUNTY BENCHMARK PUBLISHING) HAD AN ELEVATION OF 2584.61 FEET. TO CONVERT THE CURRENT CITY OF LAS VEGAS BENCHMARK 8LV99:13SES TO MATCH THE ORIGINAL PROJECT DATUM, 0.34' NEEDS TO BE ADDED TO THE ELEVATION OF 2853.03 FEET.

BASIS OF BEARINGS
THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 00°08'18" EAST, BEING THE EAST LINE OF THE NORTHWEST QUARTER (NE 1/4) OF THE SECTION 24, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE IN FILE 123 AT PAGE 32.

NOTE:
ALL DRAINAGE EASEMENTS MUST BE COMMON LOTS & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY H.O.A.

NOTES:
1. ALL PRIVATE STREETS AND PRIVATE DRIVES ARE P.U.E., CLV PUBLIC SEWER EASEMENTS, & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.
2. SEE SHEET DT1 FOR SECTIONS AND DETAILS.

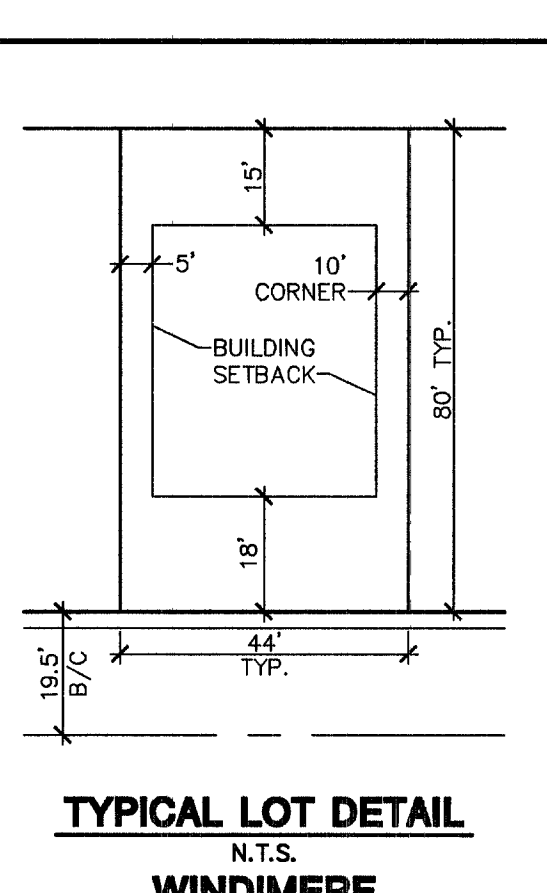
HC RAMP DATA

NO.	A'	B'	CASE
1	8'	8'	1
2	8'	8'	2

CUT = 98,908 C.Y.
FILL = 118,700 C.Y.
(ADJUSTED)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT CITY OF LAS VEGAS, NEVADA FOR THIS PROJECT, DS3665.

CHRISTOPHER R. GRUBBS
P.E. NO. 13956



- CONSTRUCTION NOTES**
- (A) CONSTRUCT 24" "L" TYPE CURB & GUTTER PER STD. DWG. NO. 218
 - (B) CONSTRUCT 30" "ROLL" TYPE CURB & GUTTER PER STD. DWG. NO. 217A
 - (C) CONSTRUCT "A" TYPE ISLAND CURB PER STD. DWG. NO. 219
 - (D) CONSTRUCT CONCRETE CROSS GUTTER PER STD. DWG. NO. 228
 - (E) CONSTRUCT 5" CONCRETE SIDEWALK PER STD. DWG. NO. 234
 - (F) CONSTRUCT WHEEL CHAIR RAMP PER STD. DWG. NO. 235 CASE 1
 - (G) CONSTRUCT 2' WIDE UNDER SIDEWALK DRAIN PER STD. DWG. NO. 236
 - (H) CONSTRUCT DEPRESSIONED CURB SECTION PER DETAIL ON SHEET DT2
 - (I) CONSTRUCT 10" "L" TO "ROLL" CURB TRANSITION PER DETAIL ON SHEET DT2.

LEGEND

EX. CONTOUR(5' INTERVAL)	SCARP AREA	CENTER LINE
EX. CONTOUR(1' INTERVAL)	LOT NUMBER	RETAINING WALL
PROPOSED CONTOUR	BLOCK NUMBER	CONC. BLOCK WALL
PROPOSED PAD GRADE	RETAINING HEIGHT (FEET) AS MEASURED FROM ROUGH GRADE	EXIST. CONC. BLOCK WALL
FUT./EXIST. PAD GRADE	SLOPE AND FLOW DIRECTION	EXIST. DIRT ROAD
EDGE OF EXIST. A.C.	SIGHT VISIBILITY ZONES	EXIST. AC
SAW CUT & MATCH A.C.	PROJECT BOUNDARY LINE	CONSTRUCTION PHASE LINE OR UNIT BOUNDARY LINE
SIDEWALK RAMP	SETBACK LINE	MATCHLINE
PAD SWALE SLOPES	R/W OR P/L	
	EXIST. IMPROVEMENTS	
	FUTURE IMPROVEMENTS	

ABBREVIATIONS

FG FINISH GRADE	BCR BEGIN CURB RETURN	TOP TOP OF CHANNEL/SCARP
FL FLOW LINE	TOE TOP OF FOOTING	TOE TOP OF CHANNEL/SCARP
TC TOP OF CURB	GB GRADE BREAK	TOB TOP OF BOX
TRC TOP OF ROLL CURB	PO POINT OF CURVATURE	PP POWER POLE
EAC EDGE OF ASPHALT PAVEMENT	PT POINT OF TANGENCY	PP TRANSITION
FUT. FUTURE	PRC POINT OF REVERSE CURVATURE	RET. RETAINMENT
EXIST. EXISTING (EX.)	PCC POINT OF COMPOUND CURVATURE	INT. INTERSECTION
VG VALLEY GUTTER	BVC BEGIN VERTICAL CURVE	D.O.G. DESIGN GRAD
NG NATURAL GROUND	MVC MID-POINT OF VERTICAL CURVE	T.S.W. TOP OF SIDEWALK
VG HIGH POINT	EVC END VERTICAL CURVE	FF FINISH FLOOR
L.P. LOW POINT	PVC POINT OF VERTICAL CURVE	GF GARAGE FINISH FLOOR
C/L CENTER LINE	VPV VERTICAL POINT OF INTERSECTION	BFE BASE FLOOD ELEVATION
O/C OFFSET CROWN	TRW TOP OF RETAINMENT WALL	R/W RIGHT-OF-WAY
B/C BACK OF CURB		S/W SIDEWALK

CONTRACTOR NOTE
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

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89434

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HENDERSON, NEVADA 89014
(702) 436-4882

GRADING PLAN 6

WINDIMERE @ PROVIDENCE / CLIFFS EDGE
POD 211 - UNIT 1

DESIGNED BY: 10/05
CHECKED BY: 10/05
PROJECT NO.: 10/05
SCALE: 1"=30' HORIZ. VERT. N/A

PROFESSIONAL ENGINEER - STATE OF NEVADA
CHRISTOPHER R. GRUBBS
No. 13956
EXPIRES 06-30-07

SHEET
GR6
17 OF 52 SHEETS
DRAWING NO. 1074888-1