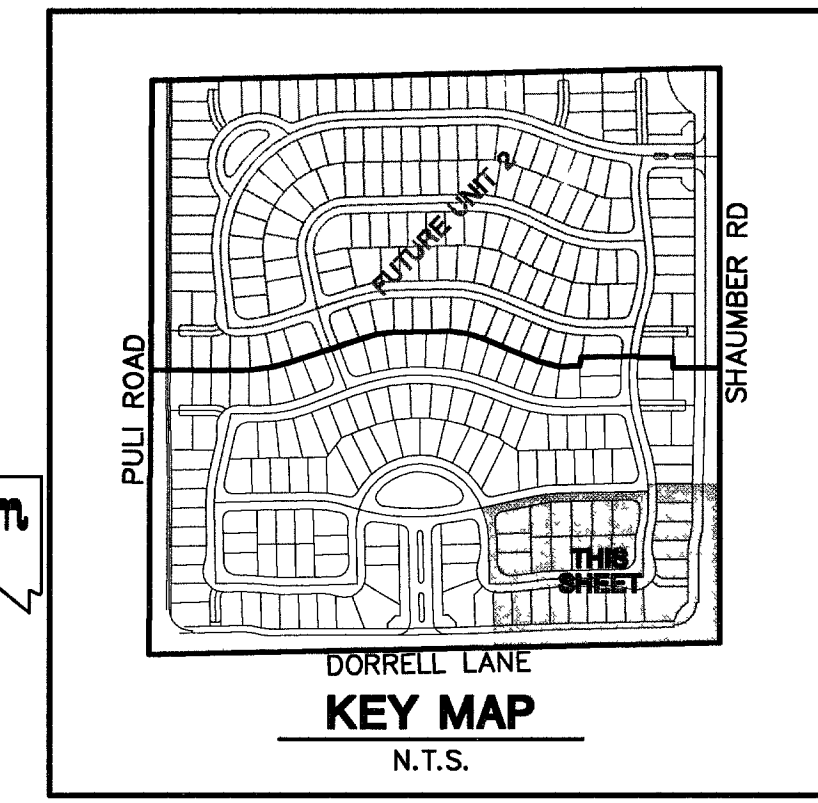
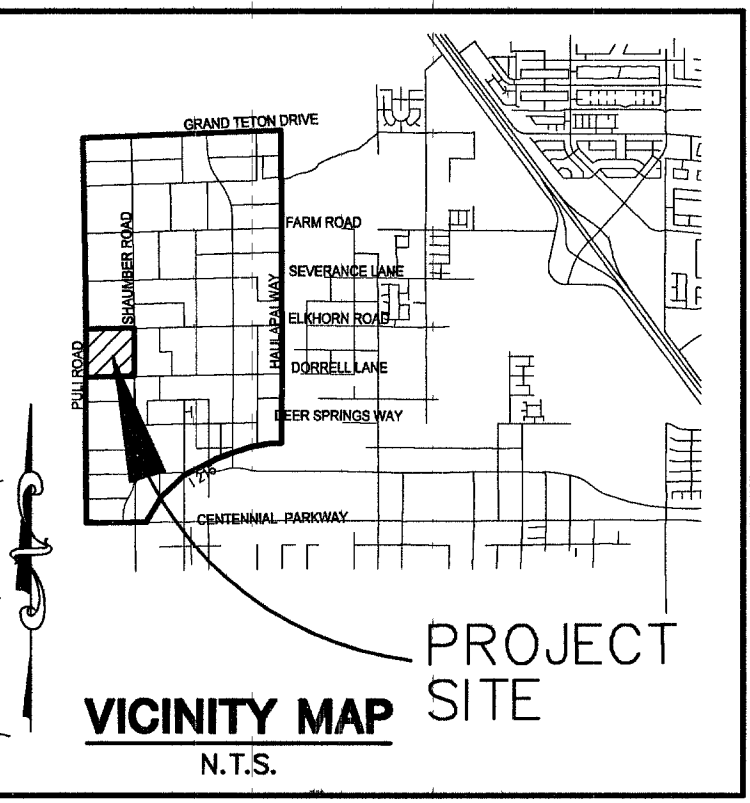
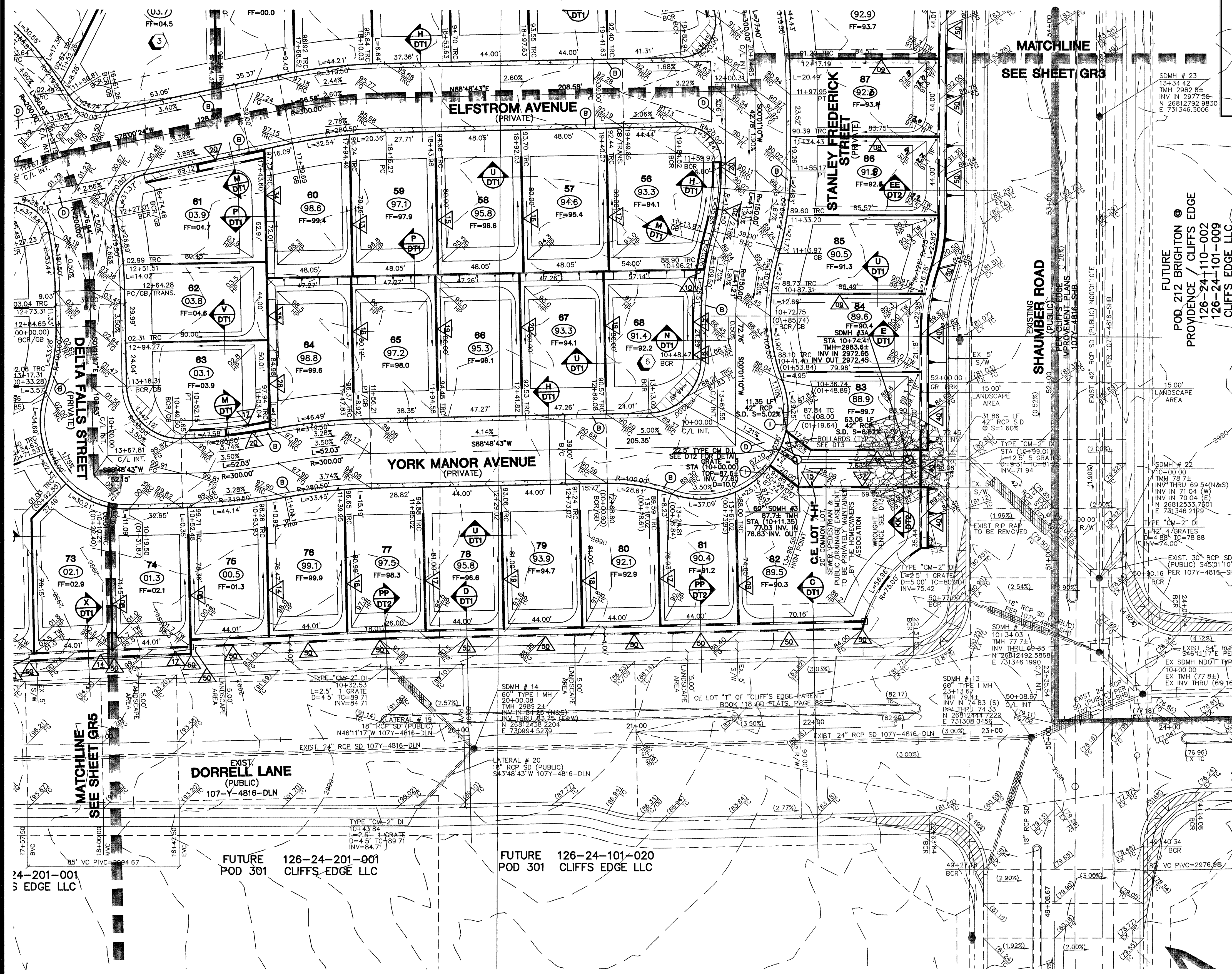
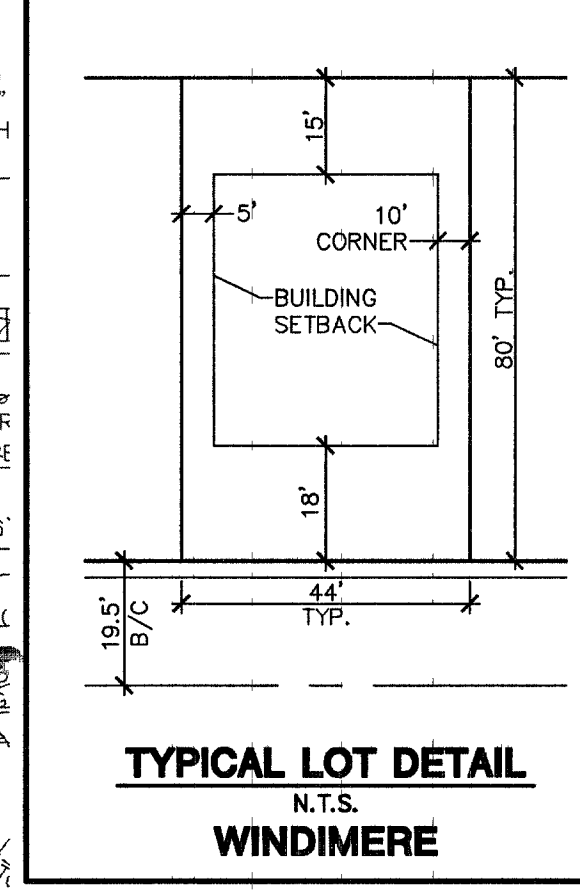




Call before you Undergo
CLARK COUNTY TRAFFIC OPERATIONS
1-702-228-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

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: BLV89-135ES
NAVD88 ELEVATION: 869.606 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 BLV89-135ES WAS NOT PUBLISHED. THE BASIS FOR THE DATUM FOR THIS PROJECT IS SHOWN ON RECORD OF SURVEY FILE 124 PAGE 94, CLARK COUNTY BENCHMARK 1000-886, 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 BLV89-135ES 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°08'16" 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'	C'	CASE
1				

OUT = 98,909 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)
 - EX. CONTOUR(1' INTERVAL)
 - PROPOSED CONTOUR
 - PROPOSED PAD GRADE
 - FUT./EXIST. PAD GRADE
 - SLOPE AND FLOW DIRECTION
 - EDGE OF EXIST. A.C.
 - SAW CUT & MATCH A.C.
 - SIDEWALK RAMP
 - PAD SWALE SLOPES
 - SCARP AREA
 - LOT NUMBER
 - BLOCK NUMBER
 - RETAINING HEIGHT (FEET) AS MEASURED FROM ROUGH GRADE
 - SIGHT VISIBILITY ZONES
 - PROJECT BOUNDARY LINE
 - SETBACK LINE
 - R/W OR P/L
 - EXIST. IMPROVEMENTS
 - FUTURE IMPROVEMENTS
 - SCARP AREA
 - LOT NUMBER
 - BLOCK NUMBER
 - RETAINING WALL
 - CONC. BLOCK WALL
 - EXIST. CONC. BLOCK WALL
 - EXIST. DIRT ROAD
 - EXIST. AC
 - CONSTRUCTION PHASE LINE OR UNIT BOUNDARY LINE
 - MATCHLINE

- ABBREVIATIONS**
- | | | | | | |
|-----------------------------|----------------------------|------|---------------------------------|--------|----------------------|
| FG | FINISH GRADE | BCR | BEGIN CURB RETURN | TOP | TOP OF CHANNEL/SCARP |
| FL | FLOW LINE | TF | TOP OF FOOTING | TOE | TOE OF CHANNEL/SCARP |
| TC | TOP OF CURB | GB | GRADE BREAK | TOB | TOP OF BOX |
| TRC | TOP OF ROLL CURB | PC | POINT OF CURVATURE | PP | POWER POLE |
| EAC | EDGE OF ASPHALT PAVEMENT | PT | POINT OF TANGENCY | TRANS. | TRANSITION |
| PRT | POINT OF REVERSE CURVATURE | PRC | POINT OF REVERSE CURVATURE | RET. | RETAINMENT |
| BVC | BEGIN VERTICAL CURVE | BVC | BEGIN VERTICAL CURVE | INT. | INTERSECTION |
| MID-POINT OF VERTICAL CURVE | | EVC | END VERTICAL CURVE | D.G. | DESIGN GRADE |
| END VERTICAL CURVE | | PRVC | POINT OF REVERSE VERTICAL CURVE | FF | FINISH FLOOR |
| LOW POINT | | VP | VERTICAL POINT OF INTERSECTION | OFF | GARAGE FINISH FLOOR |
| H.P. | HIGH POINT | TPW | TOP OF PLANTER WALL | BFE | BASE FLOOD ELEVATION |
| C/L | CENTER LINE | TRW | TOP OF RETAINMENT WALL | R/W | RIGHT-OF-WAY |
| O/C | OFFSET CROWN | | | S/W | SIDEWALK |
| BC | BACK OF CURB | | | | |

Call before you Overhead
1-702-227-2929

Call before you Dig
1-800-227-2600

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

KIMBALL HILL
8 SUNSET WAY, SUITE 101
HENDERSON, NEVADA 89014
(702) 436-4482

GRADING PLAN 6

WINDMERE • 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. 10744888-1

CITY OF LAS VEGAS
NAVDB88 ELEVATION: 869.606 METERS (2853.03 FEET)
2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550 FAX (702) 362-2597

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