

DESIGNED BY: RF	DRAWN BY: RD	CHKD BY:
JOB NUMBER: 693-001-882	DATE: 7-21-98	
NO.	REVISION	DATE APPL.
1	GRADE EXIST. CHAIN LINK FENCE TO INDIANANT	7/21/98
2	IRON FENCE.	7/21/98
3	ADD TRACK-ON ISLAND OPTION PER DWG. No. 221	7/21/98
4	CONTRACTOR Supply Material to One Stop Supply	7/21/98

**L. R. NELSON CONSULTING ENGINEERS, INC.**  
 • STRUCTURAL  
 • CIVIL  
 • SURVEY  
 3035 East Patrick Lane Suite 9  
 Las Vegas, Nevada 89120  
 (702) 798-7978  
 (702) 451-2296 FAX

GRADING PLAN  
 NORTH HALF  
**RAINBOW CORPORATE CENTER**  
 BORMAN DEVELOPMENT  
 CITY OF LAS VEGAS  
 NEVADA

SHEET NUMBER  
**2**  
 OF 12 SHEETS  
 693-003-982

**BASIS OF BEARING**

SOUTH 89°36'27" EAST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 40 EAST, M.D.M., AS SHOWN ON A MAP ON FILE IN FILE 56, PAGE 06 OF SURVEY IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE

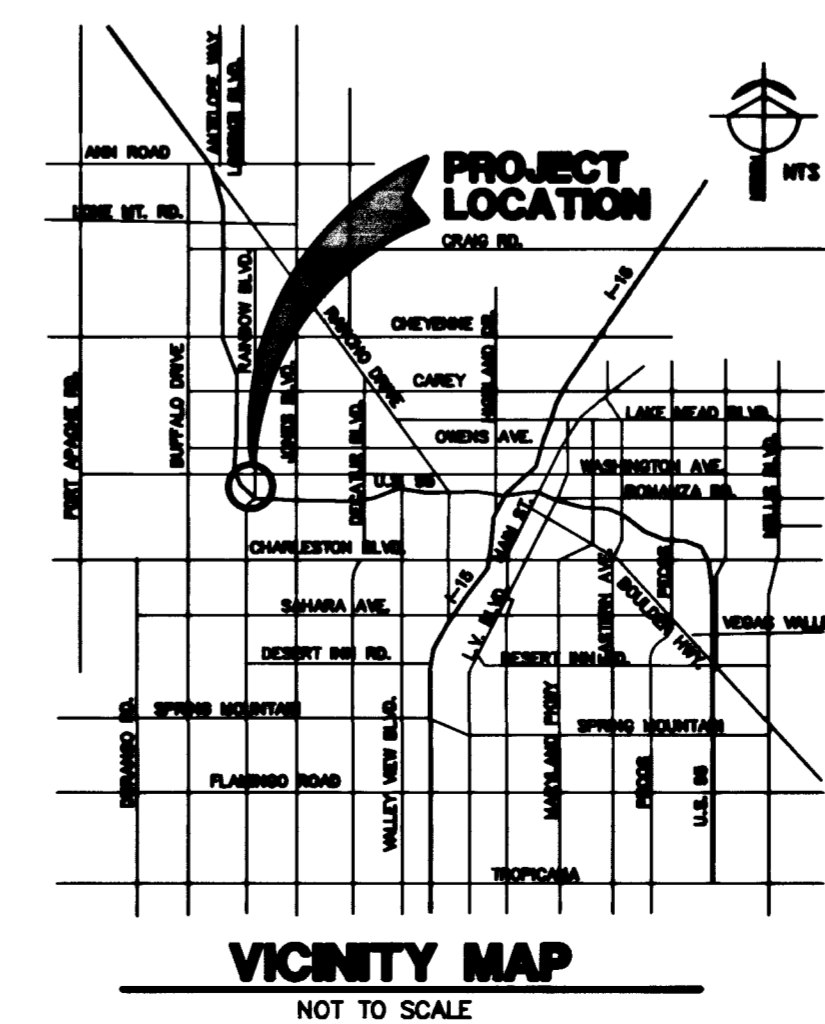
**BENCHMARK**

1LV00-28W4  
 ELEVATION = 724.7548 METERS (NAVODD)  
 2377.907  
 RIVET AND PLATE IN TOP OF CURB, NORTHEAST RETURN OF RAINBOW BOULEVARD AND WASHINGTON AVENUE.

**MATCH LINE SEE SHEET 3**

**LEGEND AND ABBREVIATIONS**

LP	LOW POINT	EXISTING CONTOUR
AC	ASPHALT CONCRETE	PROPOSED CONTOUR
TC	TOP OF CURB	BLOCK WALL
FG	FINISH GRADE	DIRECTION OF FLOW/AC SWALE
FL	FLOW LINE	BASEMENT FLOOR ELEVATION
EP	EDGE OF PAVEMENT	FINISH FLOOR ELEVATION
GB	GRADE BREAK	SCARP
FF	FINISH FLOOR	CONSTRUCTION NOTE
SW	SIDEWALK	SAWCUT LINE
XXX	PROPOSED ELEVATION	
XXXX	EXISTING ELEVATION	
TF	TOP OF FOOTING	
TRW	TOP OF RETAINING WALL	



**CONSTRUCTION NOTES**

- CONSTRUCT TYPE "A" CURB PER DETAIL
- CONSTRUCT TYPE "A" CURB AND GUTTER PER STD. DWG. No. 216 AND N.D.O.T. STANDARD DWG. #R-5.1.1(613) TYPE 5
- CONSTRUCT 6" WIDE VALLEY GUTTER PER STD. DWG. No. 228
- CONSTRUCT SIDEWALK RAMP PER STD. DWG. No. 235, CASE I AND N.D.O.T. STANDARD DWG. #R-5.1.1.2(613)
- CONSTRUCT 8" WIDE CONCRETE SIDEWALK PER STD. DWG. No. 234 AND N.D.O.T. STANDARD DWG. #R-5.1.1.1(613)
- CONSTRUCT 2" A.C. PAVEMENT OVER 4" TYPE II GRAVEL BASE
- CONSTRUCT MEDIAN ISLAND PER STD. DWG. No. 215 (OR DWG. No. 221)
- CONSTRUCT SWALE AND BUS TURNOUT PER STD. DWG. No. 234.1
- CONSTRUCT SIDEWALK UNDER DRAIN PER STD. DWG. No. 238

- 6" PVC STORM DRAIN DISCHARGE LINE TO BE INSTALLED A MIN OF 3' BELOW PAVEMENT GRADE @ SAME SLOPE AS PAVEMENT
- INSTALL JENSEN PRECAST D.I. #2436-H D.I. W/ HEAVY DUTY GRATE (OR APPROVED EQUAL)
- INSTALL WET WELL & SUMP PUMP-SEE MECH., PLUMBING, & ELEC. DWGS.
- CONSTRUCT PLANTER DRAIN PER DETAIL
- CONSTRUCT 15" WIDE CROSS GUTTER PER
- CONSTRUCT 4" A.C. PAVEMENT OVER 4" TYPE II OVER 9" TYPE I GRAVEL BASE PER STD. DWG. #203.
- REMOVE EXISTING A.C. PAVEMENT AS SHOWN BY SAWCUT LINE
- REMOVE PORTIONS OF EXIST. MEDIAN ISLAND AS SHOWN BY SAWCUT LINE
- INSTALL TYPE "B" DROP INLET PER STD. DWG. No. 412
- INSTALL 12" PVC DRAIN BETWEEN DROP INLETS

**NOTE:**  
 ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.

ALL WORK PERFORMED OUTSIDE THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAS BEEN OBTAINED FROM THE PROPER OWNER

**GRADING NOTES**

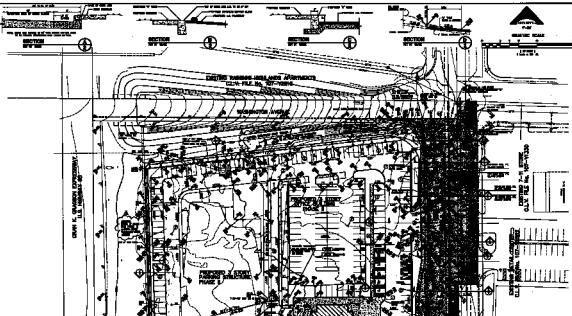
- ALL GRADES SHOWN HEREON ARE TO FINISH GRADE.
- THE QUANTITIES SHOWN HEREON ARE ESTIMATES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL CONSTRUCTION AND GRADING OPERATIONS ARE TO CONFORM TO THE RECOMMENDATIONS OF SOILS REPORT LISTED BELOW

ENGINEER'S CERTIFICATE  
 I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS  
 KENT E. ANDERSON, NEVADA P.E. No. 6012  
 DATE: 8-20-98

LATEST PLOT DATE

10099 S 11920 S 13572 S 13993 S 14404 S

VOID - THIS SHEET HAS BEEN RE PLOTTED 107-12837



**NAME OF WORK**  
**CONTRACT NO.**

**ADDRESS**  
**SECTION**  
**DATE**

MATCH LINE SEE SHEET 3

**CONSTRUCTION NOTES**

- 1. EXISTING 12" DIA. WATER MAIN
- 2. EXISTING 12" DIA. WATER MAIN
- 3. EXISTING 12" DIA. WATER MAIN
- 4. EXISTING 12" DIA. WATER MAIN
- 5. EXISTING 12" DIA. WATER MAIN
- 6. EXISTING 12" DIA. WATER MAIN
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- 9. EXISTING 12" DIA. WATER MAIN
- 10. EXISTING 12" DIA. WATER MAIN

**LEGEND AND ABBREVIATIONS**

1	ASPHALT	1	CONCRETE
2	GRAVEL	2	BRICK
3	GRAVEL	3	BRICK
4	GRAVEL	4	BRICK
5	GRAVEL	5	BRICK
6	GRAVEL	6	BRICK
7	GRAVEL	7	BRICK
8	GRAVEL	8	BRICK
9	GRAVEL	9	BRICK
10	GRAVEL	10	BRICK



**NOTES**  
 1. EXISTING 12" DIA. WATER MAIN  
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 9. EXISTING 12" DIA. WATER MAIN  
 10. EXISTING 12" DIA. WATER MAIN

**SCALE**  
 1" = 10'

**DATE**  
 11/15/10

**PROJECT NO.**  
 100-100-100

**CONTRACT NO.**  
 100-100-100

**CONTRACTOR**  
 100-100-100

**ENGINEER**  
 100-100-100

**2**

**100-100-100**