



43088 44110 47324

**BASIS OF BEARINGS**  
 SOUTH 89°52'25" EAST, BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M. AS SHOWN BY MAP THEREOF ON FILE IN BOOK 53 OF PLATS, PAGE 61, OF OFFICIAL RECORDS. SAID SECTION LINE ALSO BEING THE CENTERLINE OF CHARLESTON BLVD.

**BENCHMARK**  
 RIVET AND PLATE IN TOP OF CURB SW RETURN ALTA DRIVE AND MARTIN LUTHER KING BLVD.  
 CITY OF LAS VEGAS B.M. 21V01 33C4  
 NAVD 88 ELEVATION 623.852 (M)  
 2046.76 (F)

**HDPE CONSTRUCTION NOTE:**  
 CONTRACTOR SHALL PROVIDE 30" MINIMUM COVER OVER PIPE PRIOR TO VEHICLE LOADING DURING CONSTRUCTION. TRENCH WIDTH MUST BE WIDE ENOUGH TO ACCOMMODATE COMPACTION EQUIPMENT. SEE MANUFACTURER'S GUIDELINES (PRODUCT NOTE 3.115) AND ASTM D3321. CONTRACTOR SHALL NOT USE HYDRO-HAMMER TYPE COMPACTORS OVER PIPE TRENCH AREA.

**DRAINAGE CERTIFICATION**  
 I CERTIFY THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT.

GA D. NGUYEN 14918  
 P.E. NO. 07/25/02  
 DATE

- GRADING NOTES**
- SAWCUT EXISTING CURB & MATCH. CONTRACTOR SHALL VERIFY EXISTING CURB ELEVATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - CONSTRUCT COMMERCIAL DRIVEWAY & 8' WIDE VALLEY GUTTER PER USDOCCA DWG. NO. 225 AND 228.
  - CONSTRUCT "L" TYPE CURB PER USDOCCA DWG. NO. 216.
  - CONSTRUCT TYPE "A" CURB PER DETAIL 2 SHEET C-17.
  - CONSTRUCT 3" AC PAVING OVER 6" TYPE II AGGREGATE BASE OVER COMPACTED SUBGRADE PER DETAIL 1 SHEET C-17. SEE SOILS REPORT FOR MORE INFORMATION.
  - CONSTRUCT 2" AC PAVING OVER 6" TYPE II AGGREGATE BASE OVER COMPACTED SUBGRADE PER DETAIL 1 SHEET C-17. SEE SOILS REPORT FOR MORE INFORMATION.
  - 0" CURB FLUSH WITH PAVEMENT.
  - INSTALL HANDICAP SIGNAGE, STRIPING, AND SYMBOL PER ARCHITECTURAL PLANS.
  - CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 3 SHEET C-17.
  - 0" TO 6" CURB TRANSITION-MEETING A.D.A. STANDARDS.
  - CONSTRUCT 2" WIDE CURB OPENING PER DETAIL 4 SHEET C-17.
  - CONSTRUCT SIDEWALK RAMP PER USDOCCA DWG. 235, CASE I. SEE PLAN FOR "A" AND "B" DIMENSIONS.
  - CONSTRUCT 4" THICK SIDEWALK PER USDOCCA DWG. NO. 234. SEE PLAN FOR WIDTH. SEE ALSO ARCH. PLANS FOR EXACT LOCATION, COLOR AND FINISH.
  - EXISTING SIGN TO BE REMOVED
  - EXISTING CURB, GUTTER, SIDEWALK AND LANDSCAPING TO BE REMOVED.

- CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS.
- CONSTRUCT 4" WIDE VALLEY GUTTER PER DETAIL 5 SHEET C-17.
- EXISTING SIDEWALK TO BE REMOVED.
- CONNECT 36", 24", OR 18" HDPE PIPE TO EXISTING RCB BOX, MATCH INVERT PER ADS STD - 202.
- CONSTRUCT 48" DIA. TYPE II MANHOLE PER USDOCCA DWG. NO. 405.
- INSTALL CURB INLETS, GRATES, AND DRAIN BASINS PER NYLOPLAST PRODUCTS-SEE PLAN FOR NUMBER OF INLETS.
- INSTALL 18" DIA. DRAIN BASINS & 18" GRATE, PEDESTRIAN H-10 RATED PER NYLOPLAST PRODUCTS.
- INSTALL 12" x 10" N-12 FABRICATED REDUCING WYE PER ADS. WITH 10" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 12" DIA. DRAIN BASIN WITH 12" GRATE, PEDESTRIAN H-10 RATED, PER NYLOPLAST PRODUCTS.
- INSTALL CAP PER NYLOPLAST PRODUCTS.
- CONTRACTOR SHALL VERIFY EXISTING STORM DRAIN INVERT & LOCATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. ANY WORK DONE PRIOR TO THIS VERIFICATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND COST.
- INSTALL 18" HDPE TO BACK OF EXISTING DROP INLET. INSTALL WATER TIGHT CONNECTION PER ADS STD-202.
- INSTALL 18" HDPE PIPE TO EXISTING RCB BOX. INSTALL WATER TIGHT CONNECTION PER ADS STD-202.
- CONSTRUCT SIDEWALK RAMP PER USDOCCA DWG. 235, CASE II.
- CONSTRUCT 60" DIA. TYPE I MANHOLE PER USDOCCA DWG. NO. 403.
- SAWCUT & MACHINE LAID MINIMUM 14" WIDE PER USDOCCA DWG. NO. 504.
- EXISTING MEDIAN, CURB & GUTTER, AND LANDSCAPE TO BE REMOVED AND REPLACE AFTER INSTALLATION OF NEW STORM DRAIN LINE.
- INSTALL ONE CURB INLET, GRATE, AND DRAIN BASIN PER NYLOPLAST PRODUCTS.

- CONSTRUCT CONCRETE SLAB IN ALL SERVICE COURT. SEE ARCHITECTURAL STRUCTURAL PLANS FOR MORE DETAILS.
- EXISTING UTILITY BOXES TO BE REMOVED/RELOCATED.
- DEEPENED FOOTINGS-SEE ARCHITECTURAL/STRUCTURAL PLANS FOR DETAILS.
- INSTALL 12" DIA. DRAIN BASIN W/ 8" GRATE PEDESTRIAN H-10 GRATED PER NYLOPLAST PRODUCTS.
- INSTALL 12" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- CONSTRUCT BUS TURN OUT PER USDOCCA DWG. NO. 234.1
- CONSTRUCT 2" WIDE VALLEY GUTTER PER DETAIL 10 SHEET C-17.
- INSTALL 24" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 48" DIA. TYPE I STORM DRAIN MANHOLE PER USDOCCA DWG. 403.
- INSTALL 30" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 18" x 10" N-12 FABRICATED REDUCING WYE PER ADS. WITH 10" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 36" x 10" N-12 FABRICATED REDUCING WYE PER ADS. WITH 10" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 18" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
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- INSTALL 24" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 18" x 8" N-12 FABRICATED REDUCING WYE PER ADS. WITH 8" PIPE STUB 5' FROM BLDG. - SEE PLUMBING PLANS FOR CONT.
- INSTALL 24" DIA. DRAIN BASIN W/ 24" GRATE PEDESTRIAN H-10 RATED PER NYLOPLAST PRODUCTS.

SEE SHEET C-14

SEE SHEET C-12

DESIGN: G.D. NGUYEN  
 DRAWN: [Name]  
 CHECK: [Name]  
 ISSUE DATE: 07-25-02  
 PLOT DATE: 07-25-02  
 PLOT TIME: 08:52:12

ISSUE DATE: 07-25-02

100% COMPLETE

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SHEET C-13  
 1 OF 17 SHEETS