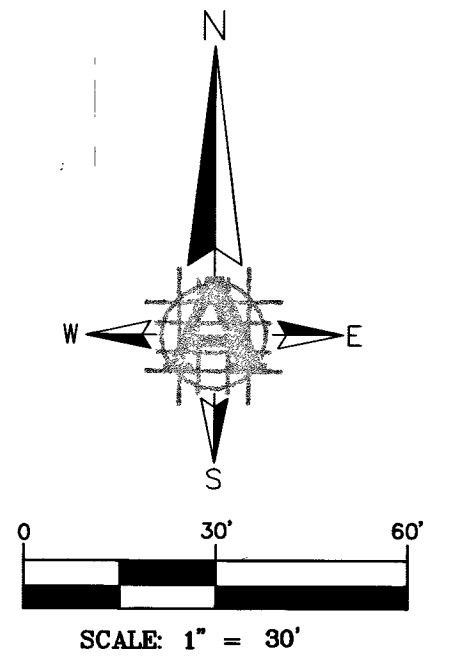
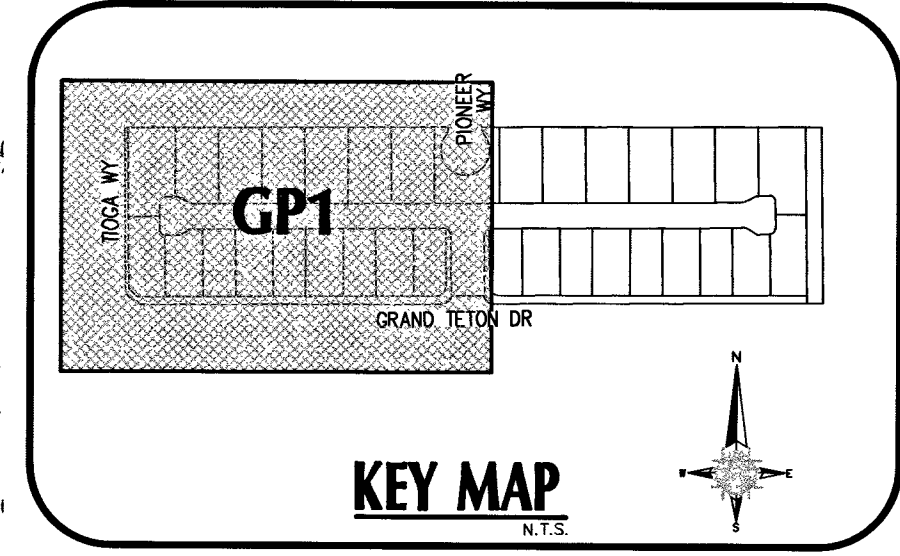


RETAINING WALL SCHEDULE

# OF COURSES	RETAINING HEIGHT
1	0.0 UP TO 0.7'
2	0.0 UP TO 1.3'
3	0.0 UP TO 2.0'
4	0.0 UP TO 2.7'
5	0.0 UP TO 3.3'
6	0.0 UP TO 4.0'
7	0.0 UP TO 4.7'
8	0.0 UP TO 5.3'
9	0.0 UP TO 6.0'

RETAINING WALL HEIGHTS SHOWN ARE FROM PAD ELEVATION TO PAD ELEVATION AND DO NOT REFLECT MINIMUM COVER OVER FOOTING. PLEASE REFER TO THE SOILS REPORT FOR MINIMUM COVER RECOMMENDATIONS.



- LEGEND**
- EXISTING PAVEMENT
 - PROPERTY LINE
 - SCARP
 - RETAINING WALL
 - FLOW RATE/DIRECTION
 - BLOCK WALL
 - LOT NUMBER
 - BLOCK NUMBER
 - NAT. GRND CONTOUR
 - BC BACK OF CURB
 - BCR BACK OF CURB RETURN
 - BVC BEGIN VERTICAL CURVE
 - CL CENTERLINE
 - R/W RIGHT OF WAY
 - V-DITCH/SWALE
 - HERCP ELLIPTICAL REINFORCED CONCRETE PIPE
 - RCP REINFORCED ELLIPTICAL CONCRETE PIPE
 - HP LOT HIGH POINT
 - EVC END VERTICAL CURVE
 - EX EXISTING
 - FF FINISH FLOOR
 - FG FINISH GRADE
 - FL FLOW LINE
 - GS GRADE BREAK
 - IT TOP OF FOOTING
 - TRW TOP OF RETAINING WALL
 - PL PROPERTY LINE
 - TC TOP OF CURB
 - VG VALLEY GUTTER
 - P.S. PRIVATE STREET
 - P.U.E. PUBLIC UTILITY EASEMENT
 - C&G CURB AND GUTTER
 - AC ASPHALT CONCRETE
 - S.V.Z. SIGHT VISIBILITY ZONE
 - BL BOUNDARY LINE
 - TRW TOP OF FLOOD WALL
 - GRND NATIVE GROUND

NOTE:
 PROVIDE STORM WATER MANAGEMENT STAMP AND SIGN PER USBDOA STD. DWG 421 ON PROPOSED DROP INLETS

SIGHT VISIBILITY NOTE:
 NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

- GENERAL NOTES**
- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
 - ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
 - CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
 - CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
 - ADD 2.000' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

PRELIMINARY DRAINAGE QTY.

VALLEY GUTTER CONCRETE	1,900 SF
10" WIDE CONCRETE DRAINAGE FLUME	330 LF
15" WIDE CONCRETE DRAINAGE FLUME	45 LF
20" WIDE CONCRETE DRAINAGE FLUME	330 LF
19"x30" HERCP STORM DRAIN	115 LF
20.0" TYPE "CM" DROP INLET W/ 8 GRATES	4 EA

NOTE:
 ALL PRIVATE STREETS ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

- CONSTRUCTION NOTES**
- INSTALL AC PAVEMENT OVER TYPE II AGG. BASE PER DETAIL "D" SHEET DE2
 - INSTALL 2" L" TYPE CURB & GUTTER PER CAUSA0 #218
 - HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CAUSA0 #201.2
 - SAW CUT AND MATCH EXISTING ELEVATION, CONTRACTOR TO VERIFY
 - INSTALL LANDSCAPING PER LANDSCAPE PLANS
 - INSTALL 5" WIDE, 4" THICK CONCRETE SIDEWALK PER CAUSA0 #234
 - CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CAUSA0 NO. 235, CASE 1 A=4.0', B=8.0' UNLESS OTHERWISE NOTED
 - CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CAUSA0 NO. 235, CASE 2 A=8.0', B=8.0' UNLESS OTHERWISE NOTED
 - INSTALL 6" CONCRETE VALLEY GUTTER PER CAUSA0 #228 AND #229
 - INSTALL SIDEWALK UNDERDRAIN PER CAUSA0 #236
 - PLACE DUAL DECORATIVE CMU DRAIN BLOCK AT GRADE
 - CONSTRUCT FLUME PER DETAIL "1" SHEET DE1
 - INSTALL REMOVABLE BOLLARDS PER DETAIL "2" SHEET DE1
 - CONSTRUCT "A" TYPE CURB PER CAUSA0 #219
 - CONSTRUCT 2" SIDEWALK DRAIN PER CAUSA0 #236
 - INSTALL 20" TYPE "CM" DROP INLET WITH 8 GRATES PER CAUSA0 #121 & DETAIL SHEET DE2

- FLOOD NOTE:**
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), COMMUNITY FLOOD NUMBER 330374E, EFFECTIVE DATE SEPTEMBER 27, 2002, THE SITE IS LOCATED WITHIN ZONE X. ZONE X IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
- STORMWATER MANAGEMENT NOTES:**
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY AS A RESULT OF CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SYSTEM.
 - ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP COMPLIANCE MANUAL.
 - TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR00000, SECTION III.A.5.
 - AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR00000, SECTION III.A.12.
 - ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

DRAINAGE CERTIFICATION

BRANDON G. DOTY, P.E. #20002

7/14/15

I CERTIFY THIS GRADING PLAN IS IN CONFORMANCE WITH THE CITY OF LAS VEGAS DRAINAGE REQUIREMENTS, JDS4673 AND CLARK COUNTY TITLE #15-46553

NOTE:
 ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

SOILS NOTE:
 FOR SOILS INFORMATION, REFERENCE SOILS STUDY BY: ANGLE ENGINEERING PROJECT NUMBER: 20157-1 DATED: AUGUST 19, 2013

Call before you Dig
 AVOID HITTING UNDERGROUND UTILITIES. IT'S COSTLY.

FAST
 Call before you UnderGround
 1-702-432-5300
 1-800-227-2600

BASIS OF BEARINGS
 NORTH 84°02' EAST BEING THE BEARING OF THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 10, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY OFFICE.

BENCHMARK
 BENCHMARK STATION: BLV901055W
 CITY OF LAS VEGAS RIVET AND PLATE IN CONCRETE CYLINDER, AT THE NORTHWEST CORNER OF GRAND TETON DRIVE AND PIONEER WAY.
 ELEVATION=2397.741 METERS (NAV88)
 ELEVATION=2397.44 U.S. SURVEY FEET (NAV88)

EARTHWORK VOLUMES:

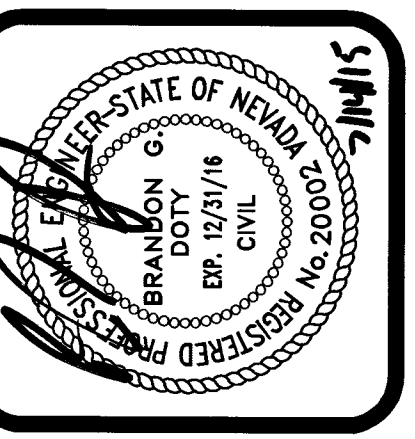
RAW CUT	5875 CY
RAW FILL	11700 CY
RAW IMPORT	5825 CY

THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY COUNTY OF CLARK REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

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CLARK COUNTY REGISTERED PROFESSIONAL ENGINEER
 BRANDON G. DOTY
 EP. 12/14/16
 CIVIL
 LICENSE NO. 200002

ADVANTAGE CIVIL DESIGN GROUP LLP
 CIVIL ENGINEERING
 PLANNING



GRADING PLAN 1

VERONA ESTATES
RICHMOND AMERICAN HOMES OF NV

NO.	DATE	DESCRIPTION
1	06/15/15	ADDED JURISDICTION DELINEATIONS DUE TO CLARK COUNTY REQUIREMENTS. ADDED EXISTING LIMITS OF CUT OFF WALL. ADDED AND REVERSE SAWCUT DUE TO CLARK COUNTY REQUIREMENTS.

JOB NUMBER: 63-001
 DRAWN BY: MK
 DESIGNED BY: BGD
 CHECKED BY: JRM
 DATE: 8/2014

GP1 5 25