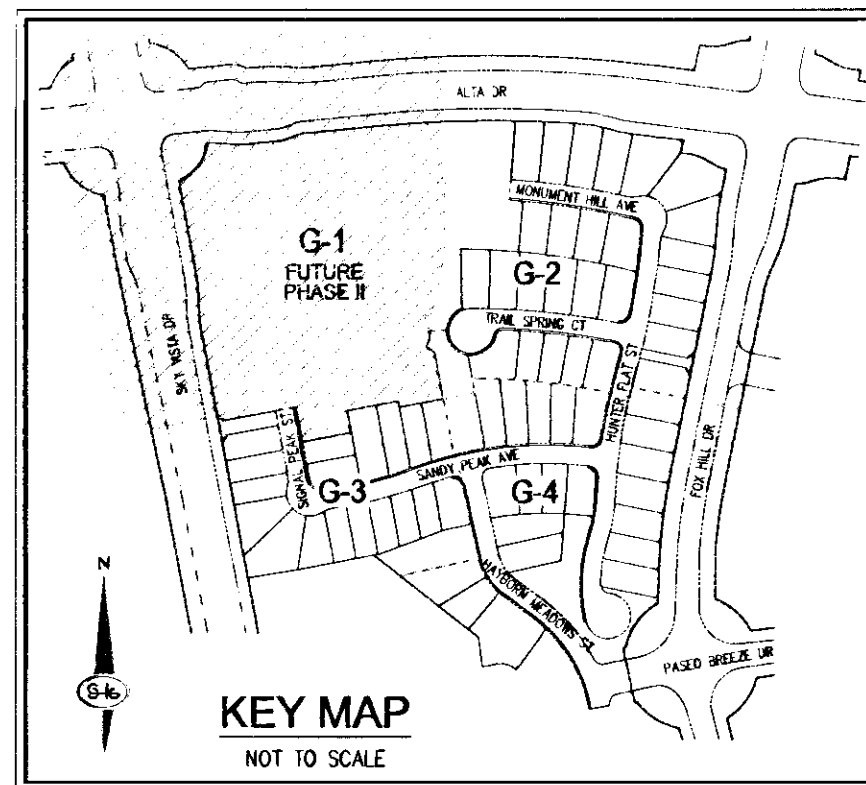


PHASE I DRAINAGE QUANTITIES		PUBLIC	PRIVATE
1.	15.0' MOD TYPE 'CM' DROP INLET	EA	1
2.	20.0' MOD TYPE 'CM' DROP INLET	EA	2
3.	24" C-900 PVC STORM DRAIN	LF	82
4.	50" TYPE III STORM DRAIN MANHOLE	EA	1
5.	1 COURSE SOLID GROUT CMU BLOCK WALL	LF	168
6.	2 COURSE SOLID GROUT CMU BLOCK WALL	LF	2,936
7.	8" WIDE CONCRETE VALLEY GUTTER	SF	1,920
8.	RIPRAP $D_{50} = 6" T = 12"$	CY	2



STORMWATER RUNOFF MANAGEMENT
(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

- THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT AND CONSTRUCTION DEBRIS OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNDERSEEM EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES 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 TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV1900000, SECTION II.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 EMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL 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 NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NV1900000, SECTION II.A.12.
- ACCUMULATED SEDIMENT IN EMPS 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.

GENERAL NOTES

- SEE SHEETS 9-13 FOR WALL PLAN.
- SEE PLAN AND PROFILE SHEETS FOR CENTERLINE AND BACK OF CURB CURVE DATA.
- FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH NBC 2008, SECTION 2304.11.2.2.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
- MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
- SEE DETAIL SHEETS FOR STREET SECTIONS AND DETAILS.
- ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
- CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL.
- EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
- NO STRUCTURE, VEGETATION OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE 30' VISIBILITY ZONES.
- ALL ELEVATIONS SHOWN, WITH EXCEPTION TO PAD AND FINISHED FLOOR ELEVATIONS, ARE THE VALUE SHOWN PLUS 3500'.
- ALL PRIVATE STREETS ARE PUBLIC UTILITY, CULV SEWER AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

- GRADING NOTES**
- CONSTRUCT 2" AC PAVEMENT WITH 4" TYPE II OVER 6" TYPE I AGGREGATE BASE
 - CONSTRUCT 3" AC PAVEMENT WITH 4" TYPE II OVER 6" TYPE I AGGREGATE BASE
 - SHOWCUT AND MATCH EXISTING IMPROVEMENTS PER CCASUD NO. 500.2
 - CONSTRUCT 1" TYPE CURB AND GUTTER PER SUMMERLIN IMPROVEMENT STANDARDS S-47
 - CONSTRUCT SIDEWALK DRAIN PER CCASUD NO. 236
 - CONSTRUCT 8" CROSS GUTTER PER SUMMERLIN IMPROVEMENT STANDARDS S-64
 - CONSTRUCT 5" WIDE SIDEWALK PER SUMMERLIN IMPROVEMENT STANDARDS S-72
 - CONSTRUCT 4" WIDE SIDEWALK PER SUMMERLIN IMPROVEMENT STANDARDS S-72
 - CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCASUD NO. 235, CASE II
 - CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT PER CCASUD NO. 235, CASE I
 - FIELD VERIFY AND TIE INTO EXISTING CURB AND GUTTER
 - CONSTRUCT 4" TRANSITION TO DEPRESSED CURB PER CCASUD NO. 223
 - INSTALL 24" C-900 PVC STORM DRAIN
 - INSTALL 60" TYPE III STORM DRAIN MANHOLE PER CCASUD NO. 406
 - INSTALL 15.0' TYPE 'CM' DROP INLET PER CCASUD NO. 412.1 TYPE C-D MODIFIED DROP INLET
 - INSTALL 20.0' TYPE 'CM' DROP INLET PER CCASUD NO. 412.1 TYPE C-D MODIFIED DROP INLET
 - REMOVE EXISTING STORM DRAIN BEYOND PROPOSED DROP INLET
 - CONSTRUCT A-CURB PER SUMMERLIN IMPROVEMENT STANDARDS S-49
 - PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
 - CONSTRUCT TEMPORARY TURN-AROUND WITH 6" TYPE II AGGREGATE
 - INSTALL 6" VIEW FENCE WITH PEDESTRIAN GATE PER SUMMERLIN DESIGN CRITERIA FOR THE PHASES, SECTION 5
 - CONSTRUCT 10" TRANSITION FROM 24" L CURB TO 30" ROLL CURB PER DETAIL ON SHEET D-2
- SEE SHEET C-2 FOR ABBREVIATIONS AND QUANTITIES

Call before you Dig
Call 811
1-800-227-2600
CLARK COUNTY OFFICE OF UTILITIES
1-702-455-6000

Avoid hitting underground traffic signal systems and street light system conduits. IT'S COSTLY.

Call before you do UnderGround
1-702-455-6000
CLARK COUNTY OFFICE OF UTILITIES
1-702-432-5300
PREVENT AND AVOID SYSTEMS OF INTERFERENCE

Avoid hitting overhead power lines. IT'S COSTLY.

CALL BEFORE YOU DO OVERHEAD
1-702-227-2929

LEGAL DESCRIPTION
SUMMERLIN VILLAGE 23A UNIT NO. 2 PARCEL O AS SHOWN ON FILE IN BOOK 143, PAGE 47 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA, LYING WITHIN SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST N.M.S., CLARK COUNTY, NEVADA.

FEMA FLOOD ZONE DESIGNATION
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X AND SHADDED ZONE X (AREA OUTSIDE THE 500-YEAR FLOOD PLAN AND AREA OF 2% ANNUAL CHANCE FLOOD). PER FIRM PANEL 220003750E, DATED SEPTEMBER 27, 2002.

FLOOD CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPLICABLE REGIONAL DRAINAGE STUDY DESIGN CRITERIA FOR THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
Corey A. Lieber, P.E. 15875 DATE 10-17-12

SUMMERLIN
SUMMERLIN RESIDENTIAL DESIGN REVIEW COMMITTEE DATE
THIS SIGNATURE IS LIMITED TO APPROVAL OF THESE DOCUMENTS FOR CONFORMANCE TO THE DESIGN INTENT OF THE APPLICABLE DESIGN CRITERIA, NEITHER SUMMERLIN NOR THE SUMMERLIN RESIDENTIAL DESIGN REVIEW COMMITTEE ASSUMES RESPONSIBILITY FOR PLAN CONFORMANCE WITH APPLICABLE LAWS, ORDINANCES, AND CODES.

BENCHMARK
RIVET & PLATE IN TOP OF CURB IN THE SOUTHEAST CORNER OF DESERT MOON ROAD & DESERT SUNRISE ROAD, FLOORSHOWA
NAVD 88 ELEV = 1006.289 METERS = 3301.47 FEET

BASIS OF BEARING
NORTH 05°59'50" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST N.M.S., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREON ON FILE IN BOOK 143, PAGE 47 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
8740 S. ARVILLE STREET #616, LAS VEGAS, NV 89118
PHONE (702) 264-6500 FAX (702) 264-6508

Woodside Homes
ANDORRA & CASTILLE - PHASE 1
GRADING PLAN I

DATE: 10/17/12
DRAFTER: DSP
DESIGNER: DSP
CHECKED: CAL
PROJECT NO. WSH1105-001

Corey A. Lieber, P.E.
15875
10/17/12

G-1
SHEET 3 OF 25
1444992 10744982-1