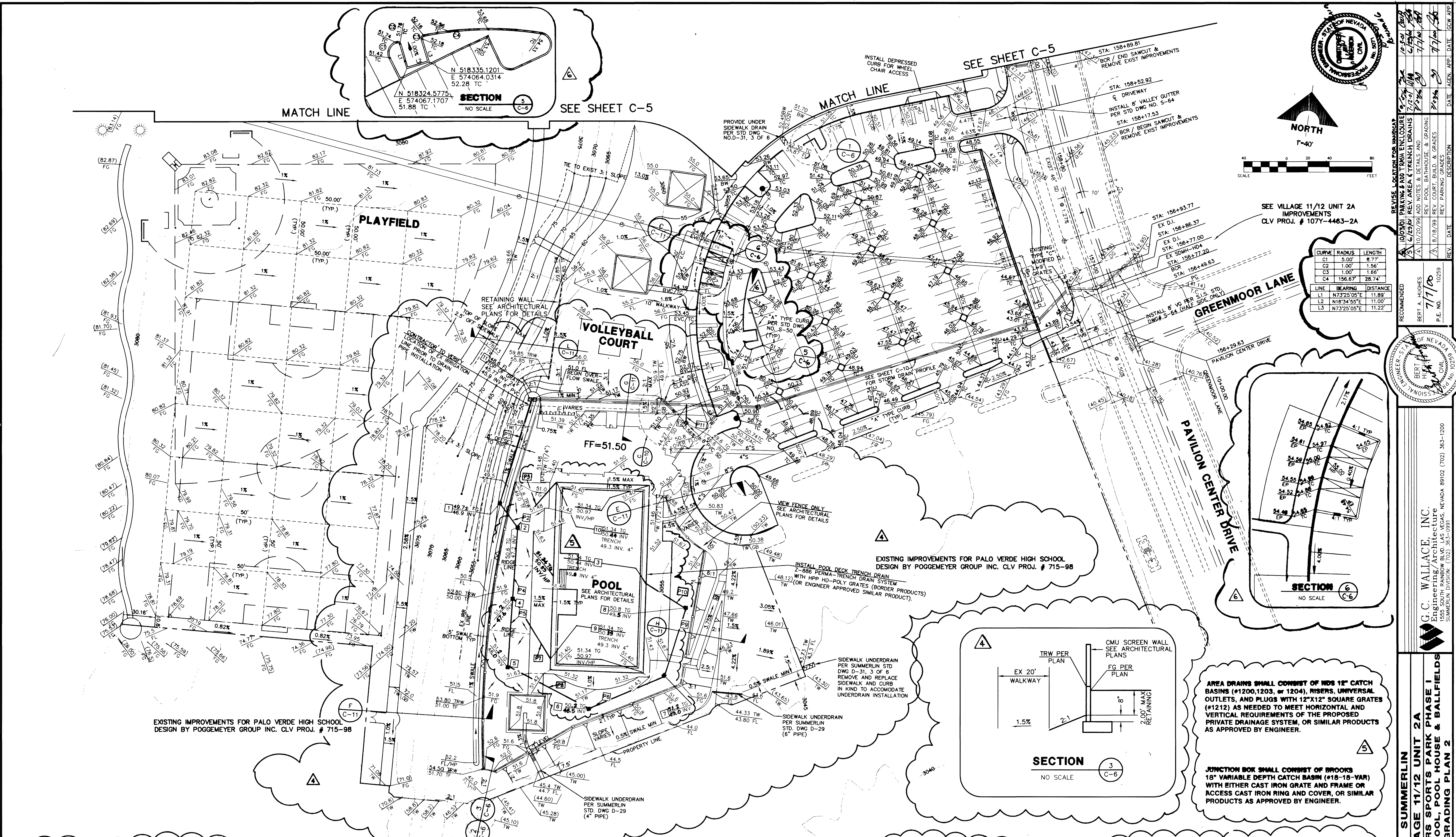
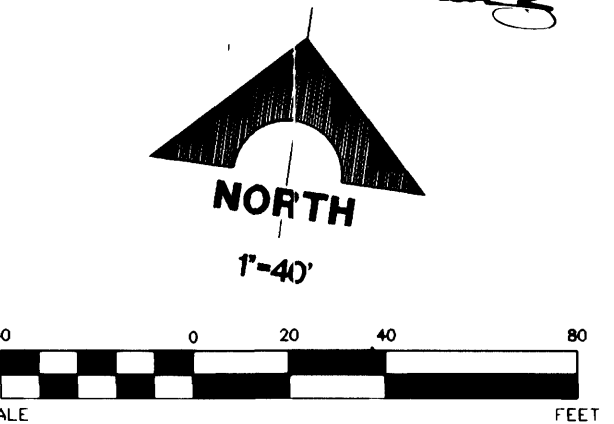


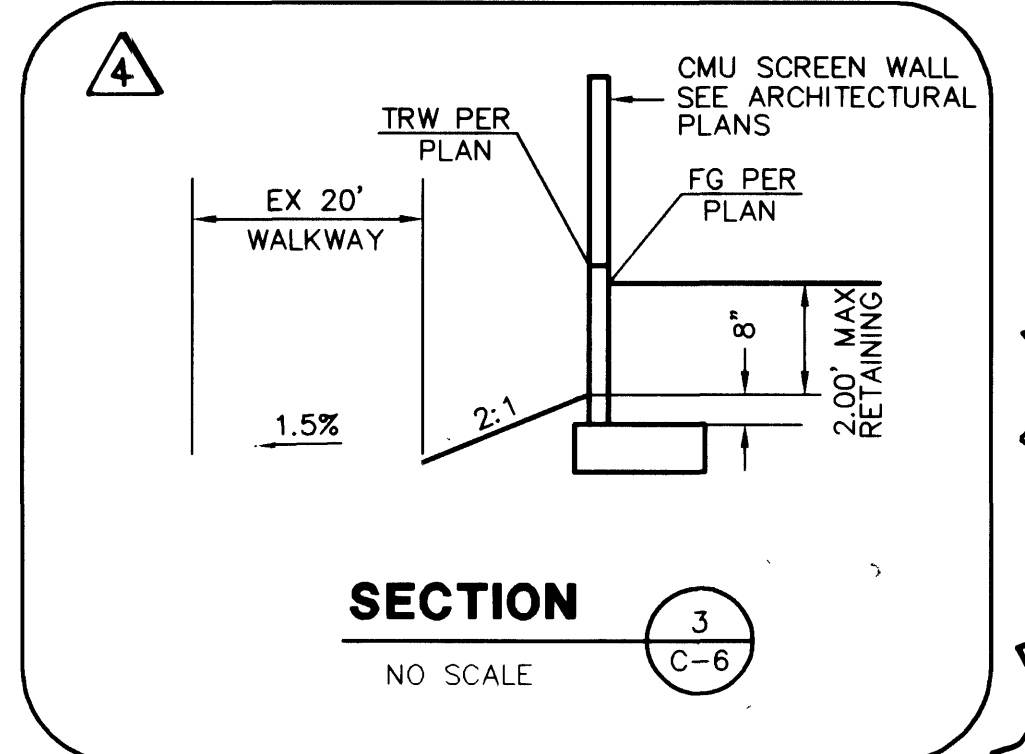
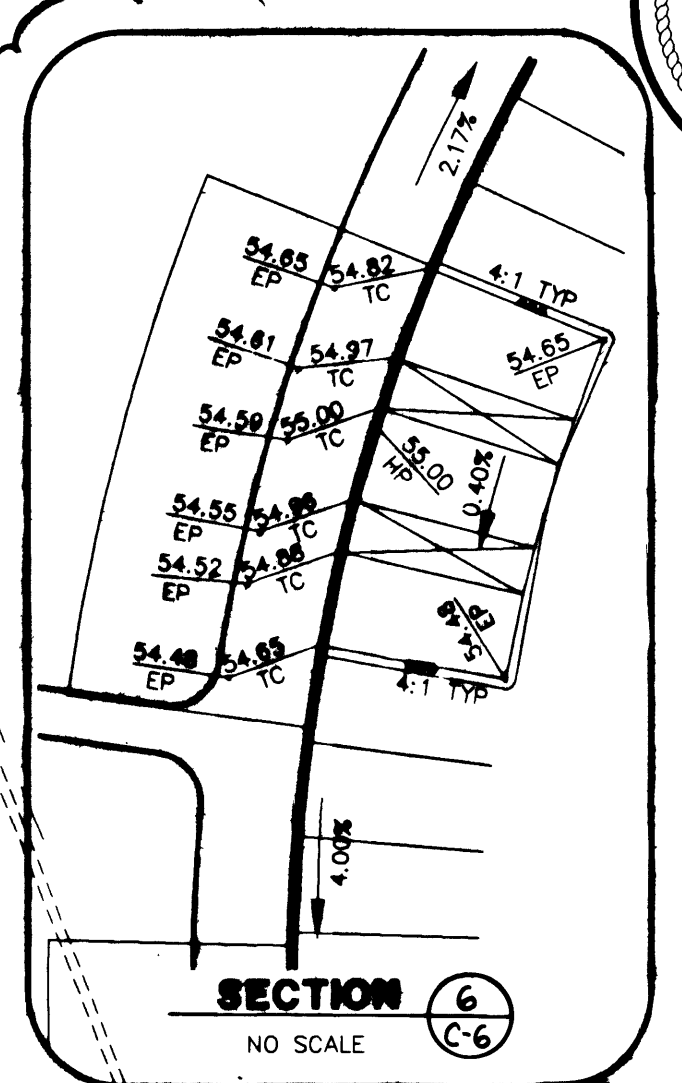


CURVE	RADIUS	LENGTH
C1	5.00'	8.77'
C2	1.00'	1.56'
C3	1.00'	1.66'
C4	156.67'	28.74'

LINE	BEARING	DISTANCE
L1	N73°25'05"E	11.88'
L2	N16°34'55"E	11.00'
L3	N73°25'05"E	11.22'



SEE VILLAGE 11/12 UNIT 2A IMPROVEMENTS CLV PROJ. # 107Y-4463-2A



AREA DRAINS SHALL CONSIST OF NOS 12" CATCH BASINS (#1200,1203, or 1204), RISERS, UNIVERSAL OUTLETS, AND PLUGS WITH 12"x12" SQUARE GRATES (#1212) AS NEEDED TO MEET HORIZONTAL AND VERTICAL REQUIREMENTS OF THE PROPOSED PRIVATE DRAINAGE SYSTEM, OR SIMILAR PRODUCTS AS APPROVED BY ENGINEER.

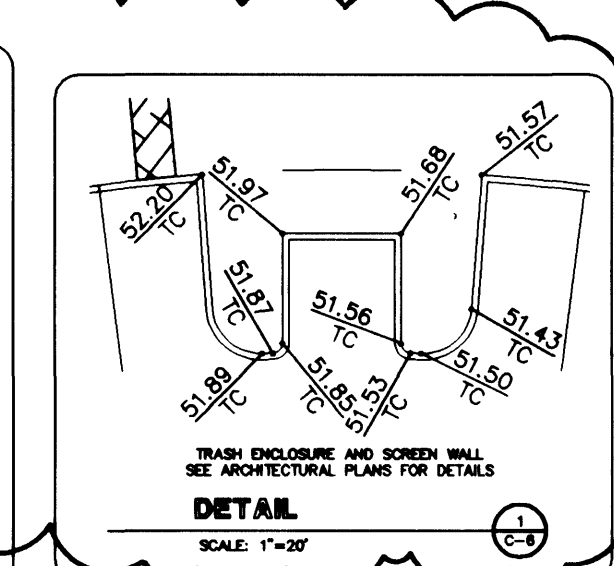
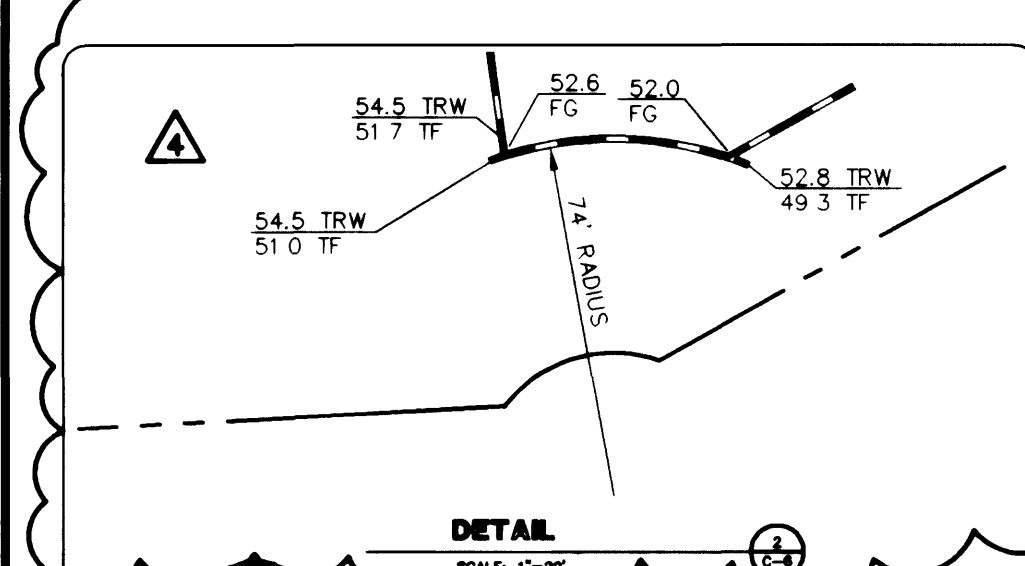
JUNCTION BOX SHALL CONSIST OF BROOKS 18" VARIABLE DEPTH CATCH BASIN (#18-18-VAR) WITH EITHER CAST IRON GRATE AND FRAME OR ACCESS CAST IRON RING AND COVER, OR SIMILAR PRODUCTS AS APPROVED BY ENGINEER.

POOL AREA DRAIN SYSTEM

ITEM NO.	DESCRIPTION	NORTHING	EASTING
1	JUNCTION BOX	N: 518139.76	E: 573848.41
2	AREA DRAIN	N: 518119.57	E: 573868.14
3	TRENCH BOTTOM OUTLET	N: 518088.71	E: 573894.40
4	AREA DRAIN	N: 518052.80	E: 573872.80
5	AREA DRAIN	N: 517988.35	E: 573877.30
6	AREA DRAIN	N: 517951.28	E: 573840.27
7	AREA DRAIN	N: 517958.19	E: 574025.05
8	AREA DRAIN	N: 518067.24	E: 574034.81
9	TRENCH OUTLET	N: 518061.69	E: 573916.00
10	TRENCH	N: 518156.45	E: 573858.50
11	NDOT INLETS	N: 518240.50	E: 573862.57
12	AREA DRAIN	N: 518239.23	E: 574010.65

PIPE	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE BEARING
P1	6"	100.43'	0.5%	S 09°07'16" W
P2	10"	28.22'	0.5%	N 44°20'05" W
P3	4"	58.56'	0.5%	N 82°34'55" E
P4	6"	66.33'	0.5%	N 03°59'37" W
P5	6"	64.61'	0.4%	N 03°59'37" W
P6	6"	76.90'	0.1%	N 68°44'07" E
P7	4"	66.93'	2.8%	N 40°12'21" W
P8	6"	66.47'	0.5%	N 70°54'31" W
P9	6"	69.74'	0.1%	N 08°02'52" E
P10	4"	45.76'	0.1%	N 62°00'58" W
P11	8"	17.08'	5.8%	S 06°08'00" E

* INSTALL C900 PVC WITH 4" ENCASUREMENT OF CEMENT SLURRY BACKFILL UNDER RETAINING WALL FOOTING.



NOTE:
ALL ON-SITE STORM DRAIN SYSTEMS ARE PRIVATELY OWNED AND MAINTAINED BY PARK OWNER

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

Bert A. Hughes
BERT A. HUGHES R.P.E. 10259

7/7/00
DATE

BASIS OF BEARING
N 01°12'43" E IS BASED ON THE NEVADA STATE GRID SYSTEM (EAST ZONE) AS DETERMINED FROM THE TRIANGULATION POINTS "RED ROCK" TO "LOVE MOUNTAIN".

BENCHMARK
RIVET & PLATE IN TOP OF CURB, NE RETURN OF CHARLESTON BLVD. AND HUALAPAI WAY. (NO. 01V09-365S)

2909.769 NGVD 1929 DATUM
2912.24 NAVD 1988 DATUM (887.6503 M)
*2910.05 SUMMERLIN DATUM

* THIS PROJECT BASED ON SUMMERLIN DATUM

STATE OF NEVADA
ENGINEER
BERT A. HUGHES
P.E. NO. 10259
DATE 7/7/00

REVISIONS
1. 10/20/00 REV. AREA & TRENCH DRAINS
2. 10/20/00 ADD NOTES & DETAILS AND
REV. POOL, BATHHOUSE, & GRADING
3. 10/20/00 REV. PARKING GRADES
DATE 7/7/00
BY B.A.H.
CHECKED B.A.H.
APPROVED B.A.H.

REVISIONS FOR HANDS
1. 10/20/00 REV. AREA & TRENCH DRAINS
2. 10/20/00 ADD NOTES & DETAILS AND
REV. POOL, BATHHOUSE, & GRADING
3. 10/20/00 REV. PARKING GRADES
DATE 7/7/00
BY B.A.H.
CHECKED B.A.H.
APPROVED B.A.H.

STATE OF NEVADA
ENGINEER
G.C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH RAINBOW BLVD. LAS VEGAS, NEVADA 89102 (702) 363-1200
SUMMERLIN DIVISION (702) 363-0991

VILLAGE 11/12 UNIT 2A
THE ARBORS SPORTS PARK PHASE I
PARKING LOT, POOL, POOL HOUSE & BALLFIELDS
GRADING PLAN 2

SHEET
C-6
8 OF 12

JOB NO. 398.1786