GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA," LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA," LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. THE EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.

   TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFFSITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.

8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.

9. APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.

10. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.

11. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.

12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.

13. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER AND AS SHOWN ON THESE PLANS.

14. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.

15. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.550

16. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND CITY ENGINEER.

17. WALL NOTES:
    A. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
    B. THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV BUILDING DEPARTMENT.

18. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

12/92

CLV SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATION, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.

5. ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE, CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.

7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.10) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

10/93

LEGEND

	SUBDIVISION LIMITS
	STREET CENTERLINE
	EXISTING IMPROVEMENTS
	FUTURE IMPROVEMENTS
10	BLOCK NUMBER
145	LOT NUMBER
	ON-SITE BENCHMARK
38.5	EXISTING PAD ELEVATION
38.5	PROPOSED PAD ELEVATION
38.5	FUTURE PAD ELEVATION
	EXISTING CONTOUR
(98.63)	EXISTING ELEVATION
98.63	PROPOSED ELEVATION
[98.63]	FUTURE ELEVATION
FL	FLOW LINE
FG	FINISHED GRADE
TC	TOP OF CURB
	SWALE
	GRADE BREAK
	2:1 SCARP
W	EXISTING WATER LINE
W	PROPOSED WATER LINE
S	EXISTING SEWER LINE
S	PROPOSED SEWER LINE
EXMH	EXISTING SEWER MANHOLE
MH	PROPOSED SEWER MANHOLE
	"L" TYPE CURB AND GUTTER
	CROWN LINE

ABBREVIATIONS

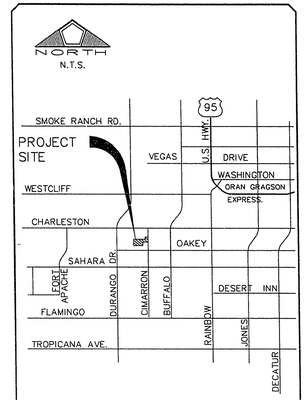
BC STA	BACK OF CURB STATION	E	EAST	HP	HIGH POINT	PC	POINT OF CURVATURE	VC	VERTICAL CURVE
BCR	BACK OF CURB RETURN	EVC	END VERTICAL CURVE	INV	INVERT	PI	POINT OF INTERSECTION	W	WEST
BVC	BEGIN VERTICAL CURVE	FG	FINISH GRADE	MVC	MIDDLE OF VERTICAL CURVE	PT	POINT OF TANGENT		
℄	CENTERLINE	FL	FLOW LINE	N	NORTH	S	SOUTH		
℄ INT	CENTERLINE INTERSECTION	GB	GRADE BREAK	OC	ON CURVE	TC	TOP OF CURB		

APPROXIMATE QUANTITIES

STREET IMPROVEMENTS	SHEET 3	SHEET 4	SHEET 5	SHEET 6	SHEET 7	TOTAL
4 " A.C. PAVEMENT W/4" TYPE II & 9" TYPE I OR II BASE				1,573 SY		1,573 SY
2 " A.C. PAVEMENT W/4" TYPE II & 6" TYPE I OR II BASE		2,977 SY	1,683 SY			4,660 SY
"L" TYPE CURB AND GUTTER W/6" TYPE I OR II BASE		1,508 LF	665 LF	268 LF		2,441 LF
5' CONCRETE SIDEWALK W/5" TYPE II BASE		5,720 SF	4,065 SF	1,065 SF		10,850 SF
CONCRETE DRIVEWAY W/6" TYPE II BASE (3-CAR GARAGE)*		1,820 SF	1,300 SF			3,120 SF
8' CONCRETE CROSS GUTTER W/10" TYPE I OR II BASE		1,270 SF	635 SF			1,905 SF
SIDEWALK RAMPS		5 EA	3 EA			8 EA
SEWER						
8" SEWER PIPE (PVC)		751 LF	517 LF			1,268 LF
4" SEWER LATERAL		414 LF	280 LF			694 LF
STANDARD MANHOLE (48" DIA.)		3 EA	3 EA			6 EA
WATER						
FIRE HYDRANT ASSEMBLY	3 EA					3 EA
6" WATER MAIN	1,064 LF					1,064 LF
8" WATER MAIN	172 LF					172 LF
STREET LIGHT AND TRAFFIC						
END OF ROAD MARKER	6 EA					6 EA
100 WATT H.P.S. STREET LIGHT	7 EA					7 EA
200 WATT H.P.S. STREET LIGHT	1 EA					1 EA
NO. 3-i PULL BOX	3 EA					3 EA
1 1/4" STREET LIGHT CONDUIT & WIRE	1300 LF					1300 LF
STREET NAME SIGNS	3 EA					3 EA
STOP SIGN	1 EA					1 EA
25 MPH SPEED LIMIT SIGN	1 EA					1 EA
STORM DRAIN IMPROVEMENTS						
18"" R.C.P. STORM DRAIN PIPE					5 LF	5 LF
54" R.C.P. STORM DRAIN PIPE				605 LF	15 LF	620 LF
48" R.C.P. STORM DRAIN PIPE					1384 LF	1384 LF
36" R.C.P. STORM DRAIN PIPE				58 LF		58 LF
30" R.C.P. STORM DRAIN PIPE				157 LF		157 LF
DROP INLET (9' LONG) TYPE B W/ COMB. TY. FR. & GRATE				1 EA		1 EA
DROP INLET (16' LONG) TYPE B W/COMB. TY. FR. & GRATE				1 EA		1 EA
48" MANHOLE TEE (COMPLETE W/FRAME & COVER)					1 EA	1 EA
60" MANHOLE TYPE II (COMPLETE W/FRAME & COVER)				2 EA		2 EA
60" MANHOLE TYPE III (COMPLETE W/ FRAME & COVER)				1 EA	1 EA	2 EA
JUNCTION BOX △1				△1 EA		△1 EA

NOTE TO CONTRACTOR:
1. QUANTITIES SHOWN ARE APPROXIMATIONS ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

* THESE QUANTITIES ARE ONLY APPROXIMATE AND ARE BASED ON AN AVERAGE SIZE OF 34'X5' (APPROX. 170 SF). FINAL DRIVEWAY QUANTITIES WILL BE DETERMINED SUBSEQUENT TO THE PREPARATION OF PLOT PLANS.



VICINITY MAP

Avoid cutting underground utility lines. It's costly.

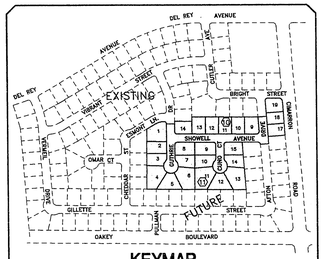
Call before you Dig.

1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)

INDEX OF DRAWINGS

NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES, QUANTITIES & MISCELLANEOUS DETAILS
3	UTILITY & TRAFFIC PLAN
4	SHOWELL AVENUE AND GUTHRIE DRIVE PLAN & PROFILE
5	AFTON DR. AND CUNO COURT PLAN & PROFILE
6	CIMARRON ROAD PLAN & PROFILE
7	OAKEY BOULEVARD STORM DRAIN
8	ROUGH GRADING PLAN
9	ROUGH GRADING DETAILS
9A △1	ROUGH GRADING DETAILS



KEYMAP

DEVIATIONS FROM STANDARD DRAWINGS

1. SHEET 4 – SHOWELL AVENUE IS A OFF-SET CROWN STREET AND DEVIATES FROM STANDARD DWG. NO. 205.
2. SHEET 4 – SLOPE GREATER THAN 1.5% AT THE INTERSECTION ON SHOWELL AVENUE AND AFTON DRIVE – DEVIATION FROM STANDARD DWG. NO. 228.
3. SHEET 4 – GUTHRIE DRIVE IS A OFF-SET CROWN STREET AND DEVIATES FROM STANDARD DWG. NO. 205.
4. SHEET 4 – SLOPE GREATER THAN 1.5% AT THE INTERSECTION ON CUNO COURT AND SHOWELL AVENUE – DEVIATION FROM STANDARD DWG. NO. 228.
5. SHEET 4 – SLOPE GREATER THAN 1.5% AT THE INTERSECTION ON GUTHRIE DRIVE AND SHOWELL AVENUE – DEVIATION FROM STANDARD DWG. NO. 228.
6. SHEET 5 – CUNO COURT IS A OFF-SET CROWN STREET AND DEVIATES FROM STANDARD DWG. NO. 205.
7. SHEET 5 – AFTON DRIVE IS A OFF-SET CROWN STREET AND DEVIATES FROM STANDARD DWG. NO. 205.
8. SHEET 6 – CIMARRON RD. HAS A 100 VERTICAL CURVE WHERE A 125' VERTICAL CURVE IS REQUIRED WHICH DEVIATES FROM STANDARD.

BENCHMARK

NATIONAL GEODETIC VERTICAL DATUM OF 1929

1LV10 5E4, RIVET AND PLATE IN TOP OF CURB AT AT OAKEY BLVD. AND DURANGO DRIVE, NORTH CURB LINE. CITY OF LAS VEGAS DATUM
– ELEVATION = 2664.811 FEET
(FOR 1988 DATUM ADD 2.447 FEET.)

NORTH AMERICAN VERTICAL DATUM OF 1988
– ELEVATION = 812.9820 METERS

BASIS OF BEARING

NORTH 04°14'45" WEST, BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 4, TOWNSHIP 21 SOUTH, RANGE 60 EAST, M.D.M.

APPROVALS

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHTS-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS". THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS" IN FAVOR OF THE UNIFORM STANDARDS DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA.

9-28-95

DENNIS ANDERSON, P.E. — DATE
CITY ENGINEER

NOTE:
THESE PLANS SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY THE GOVERNING AGENCIES.

NO.	DESCRIPTION	DATE	APP'D
△1	ADD JUNCTION BOX STRUCTURE	12/8/95	

RECOMMENDED:
DANIEL LA RUBIO, JR.
R. E. # 8925
DATE 9-15-95

DATE : 9/7/95
DRAWN BY :
DESIGNED BY :
CHECKED BY : C.O.S.
JOB NO. : 01-13.0302
SCALE : AS SHOWN

PENTACORE Engineering, Inc.
6763 West Charleston Boulevard
Las Vegas, Nevada 89102
(702) 258-0115

BAILEY & McGAH
VALLEY WEST XI – PHASE 6
GENERAL NOTES & MISCELLANEOUS DETAILS

SHEET 2 OF 9

I:\VAVUNITGV2-NOTES Mon Sep 18 15:08:38 1995 PLOTTED BY LLOYD
DISK #
2-NOTES

29. 8-11

107Y-3170-XI-6