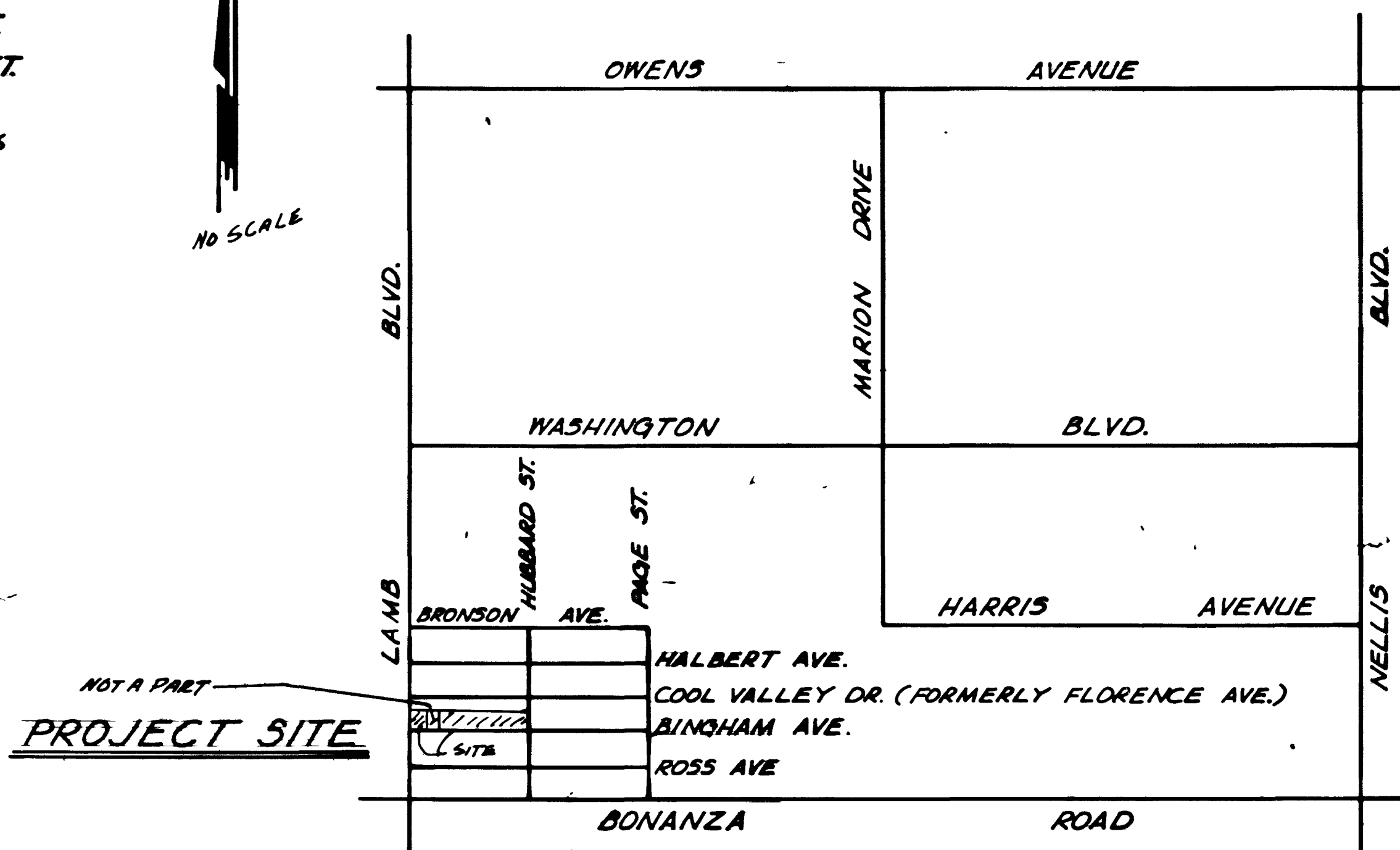
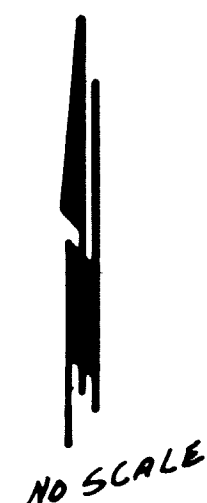


GRADING AND IMPROVEMENT PLANS for BOULDER HEIGHTS ADDITION PHASE 7.

ROAD QUANTITIES

2" AC PAVEMENT	1760 SQ. YDS.
TYPE II GRAVEL	510 CU. YDS.
TYPE I GRAVEL	720 CU. YDS.
4" CONC. SIDEWALK	4280 SQ. FT.
VALLEY GUTTER	90 SQ. FT.
CURB & GUTTER	715 LIN. FT.
LIGHT STANDARD 324 100 W 129 150 W	4 EA.
3" AC PAVEMENT	600 SQ. YDS.



APPROVALS:

CITY OF LAS VEGAS CHIEF, LAND DEVELOPMENT	DATE
<i>[Signature]</i> CITY OF LAS VEGAS SANITATION SUPERVISOR	6-12-87 DATE
<i>[Signature]</i> CITY OF LAS VEGAS ELECTRICAL SUPERVISOR	6-15-87 DATE
<i>[Signature]</i> CITY OF LAS VEGAS ELECTRICAL COORDINATOR	6/3/87 DATE
<i>[Signature]</i> CITY OF LAS VEGAS QUALITY CONTROL ENGINEER	DATE
<i>[Signature]</i> CITY OF LAS VEGAS TRAFFIC ENGINEER	4/25/87 DATE
<i>[Signature]</i> CITY OF LAS VEGAS FIRE MARSHALL	4/2/87 DATE

WATER QUANTITIES

6" A.C.P. WATER LINE	L.F.
6" GATE VALVE	EA.
6" CAP	EA.
5/8" METER (WATER)	18 EA.
STD. FIRE HYDRANT ASSEMBLY	1 EA.
2" BLOW-OFF ASSEMBLY	EA.
5/8" P.E. LATERAL	140 L.F.
5/8" SERVICE TAP	EA.
6" x 8" REDUCER	EA.
6" TEE	EA.

SEWER QUANTITIES

4" Ø SEWER LATERALS	180 L.F.
SEWER MANHOLES	2 EA.
8" Ø PVC	658 L.F.

VICINITY MAP

SEC. 29, T. 20S, R. 62 E., M. D. B. & M.
CITY OF LAS VEGAS, NEVADA

SHEET INDEX

COVER SHEET	SHEET 1 OF 4
PLOT & GRADING, SEWER & WATER	SHEET 2 OF 4
STREET DESIGN	SHEET 3 OF 4
STREET DESIGN	SHEET 4 OF 4

CLV GENERAL NOTES

- 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 SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY OF LAS VEGAS; ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS ARE NOT SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING 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 RECONSTRUCTED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL THE WATERLINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE DESIGNED FOR A 9.5 SACK MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (OR AS DESIGNED BY THE SOILS ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL 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 AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED. MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS & VALLEY GUTTER AFTER COMPACTION.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS & ADJUSTMENTS HAVE BEEN MADE.
- CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 118. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- 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 SAID CONSTRUCTION. EXTENT OF TRANSITION TO BE DETERMINED BY THE CITY ENGINEER AND AS SHOWN ON PLANS.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER OR PER THESE PLANS.
- EXACT LOCATION OF ALL SANCTUARY LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN.

PREPARED FOR: DEVELOPER
GERALD LEAVITT
3919 RAYMART DR.
LAS VEGAS, NEVADA
PH. 385-1411

GRADING AND IMPROVEMENT PLANS

ADDITION HEIGHTS ADDITION PHASE 7 &

ROAD QUANTITIES

4" AC PAVEMENT 7500 SQ. YD.
 TYPE 2 GRANUL 1000 CU. YD.
 TYPE 2 GRANUL 1000 CU. YD.
 4" CONC. SIDEWALK 1000 SQ. FT.
 VALLEY DITCH 100 SQ. FT.
 DRAIN 100 SQ. FT.
 LIGHT STANDARD 100 SQ. FT.
 1" AC PAVEMENT 1000 SQ. YD.



APPROVALS:

CITY OF LAS VEGAS, LAND DEVELOPMENT 10/10/10
 CITY OF LAS VEGAS, PLANNING DEPARTMENT 10/10/10
 CITY OF LAS VEGAS, ELECTRICAL ENGINEERING 10/10/10
 CITY OF LAS VEGAS, ELECTRICAL ENGINEERING 10/10/10
 CITY OF LAS VEGAS, QUALITY CONTROL ENGINEER 10/10/10
 CITY OF LAS VEGAS, CIVIL ENGINEER 10/10/10
 CITY OF LAS VEGAS, CIVIL ENGINEER 10/10/10

WATER QUANTITIES

6" ALUM. WATER LINE 1000 LF
 12" WATER MAIN 1000 LF
 6" VALVE 1000 LF
 12" VALVE 1000 LF
 12" FIRE HYDRANT 1000 LF
 12" FIRE HYDRANT 1000 LF
 12" FIRE HYDRANT 1000 LF
 12" FIRE HYDRANT 1000 LF
 12" FIRE HYDRANT 1000 LF
 12" FIRE HYDRANT 1000 LF

SEWER QUANTITIES

6" 8" SEWER LATERALS 1000 LF
 12" SEWER MAIN 1000 LF
 12" SEWER MAIN 1000 LF

VICINITY MAP

1000' SCALE MAP
 CITY OF LAS VEGAS, ARIZONA

SHEET INDEX

COVER SHEET SHEET 1 OF 4
 PLAN & ELEVATION, SEWER & WATER SHEET 2 OF 4
 SEWER MAIN SHEET 3 OF 4
 SEWER MAIN SHEET 4 OF 4

OLV GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF LAS VEGAS, ARIZONA, STANDARD SPECIFICATIONS FOR ROAD AND SIDEWALK CONSTRUCTION, LATEST EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF LAS VEGAS, ARIZONA, AND THE STATE OF NEVADA.