

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY CO'S. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR NOT IN THE LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS MAINS.
- ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF DESIGN AND CONSTRUCTION STANDARDS OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, 1986 EXCEPT AS MODIFIED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS OR AS REQUIRED ADDITIONALLY BY THE "UNIFORM STANDARD SPECIFICATIONS AND DRAWINGS"; CITY OF LAS VEGAS, NEVADA (LATEST EDITION).
- 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

CALL BEFORE YOU DIG	PHONE - 1-800-227-2600
LAS VEGAS VALLEY WATER DISTRICT	PHONE - 870-2011
NEVADA POWER COMPANY	PHONE - 1-800-227-2600
CENTRAL TELEPHONE COMPANY	PHONE - 1-800-227-2600
SOUTHWEST GAS CORPORATION	PHONE - 876-7220
DIMENSION CABLE	PHONE - 384-8084
- 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 ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK, 1985", PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF HIGHWAYS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR REQUIRED BY THE ENGINEER.
- THE QUANTITIES GIVEN IN THE DRAWINGS ARE APPROXIMATE ONLY, BEING GIVEN AS A BASIS FOR THE COMPARISON OF BIDS; AND THE OWNER DOES NOT, EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL AMOUNT OF WORK WILL CORRESPOND THEREWITH, BUT RESERVES THE RIGHT TO MAKE SUCH ALTERATIONS, DEVIATIONS, ADDITIONS TO OR OMISSIONS FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE RIGHT TO INCREASE OR DECREASE THE QUANTITY OF ANY ITEM OR PORTION OF THE WORK, AS MAY BE DEEMED BY THE OWNER TO BE NECESSARY. ANY SUCH CHANGES WILL BE SET FORTH IN A CONTRACT CHANGE ORDER WHICH WILL SPECIFY, IN ADDITION TO THE WORK TO BE DONE IN CONNECTION WITH THE CHANGE MADE, ADJUSTMENT OF CONTRACT TIME, IF ANY, AND THE BASIS OF COMPENSATION FOR SUCH WORK. A CONTRACT CHANGE ORDER WILL NOT BECOME EFFECTIVE UNTIL APPROVED BY THE OWNER.
- EXACT LOCATION OF ALL SAWCUTS IN MOJAVE ROAD, IF NECESSARY, ARE TO BE DETERMINED IN THE FIELD BY THE CITY OF LAS VEGAS INSPECTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, WITH THE APPROPRIATE UTILITY COMPANIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL TELEPHONE COMPANY MANHOLES TO THE FINAL FINISH GRADES AS SHOWN ON THE CONTRACT DRAWINGS.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- ALL SITE GRADING WORK SHALL BE IN STRICT ACCORDANCE WITH THE "SOIL AND FOUNDATION INVESTIGATION, FIRE TRAINING CENTER ADDITIONS MOJAVE ROAD, NORTH OF BONANZA ROAD, LAS VEGAS, NEVADA" DATED JANUARY 15, 1988 PREPARED BY CONVERSE CONSULTANTS SOUTHWEST, INC. ALL WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SOILS ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING FOR BOTH "ONSITE AND OFFSITE IMPROVEMENTS", COMPACTION TESTS, DENSITY TESTS AND SHALL BEAR ALL COSTS THEREOF. THIS SHALL INCLUDE AT LEAST TWO (2) COMPACTION AND TWO (2) DENSITY TEST IN CRAIG ROAD. THE CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTS PERFORMED TO THE ENGINEER FOR REVIEW OF COMPLIANCE TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFFSITE IMPROVEMENTS, CLARK COUNTY, NEVADA, 1986. THIS DOES NOT INCLUDE ADDITIONAL TESTING REQUIREMENTS FOR COMPLIANCE WITH SECTION 306 OF THE CLARK COUNTY UNIFORM BUILDING CODE, LATEST EDITION.
- WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER CLARK COUNTY STANDARD DRAWING 235. EXACT LOCATION OF THE RAMPS SHALL BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR.
- STANDARD STREET SECTIONS PER STANDARD DRAWINGS UNLESS OTHERWISE NOTED.
- CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT (0.40%) SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- CHISEL "S" FOR SEWER AND "G" FOR GAS WHERE THESE LINES PASS UNDER THE CURB.
- CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OF NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULES IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE (3) CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED, OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISHED WORK.
- 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 5.5 SACK MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.46 (OR AS DESIGNED BY THE SOILS ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.

SEWER NOTES

- SEWER SERVICES SHALL COMPLY WITH THE WESTERN PLUMBING CODE AS TO SEPARATION DISTANCE.
- ALL BUILDINGS TO BE SERVED INDIVIDUALLY AS PER SECTION 313 OF THE UNIFORM PLUMBING CODE.
- CONCRETE COLLARS REQUIRED AROUND WATER VALVES AND MANHOLE COVERS IN PAVED AREAS.

STREET LIGHTING NOTE

ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS", CLARK COUNTY, NEVADA AREA, (LATEST EDITION), UNLESS OTHERWISE NOTED.

STREET NOTES

- A.C. PAVEMENT TO BE 1/2" ABOVE LIP OF GUTTER AFTER COMPACTION.
- SUBGRADE FOR TYPE 1 UNDER CURB AND GUTTER AND UNDER A.C. TO BE CONTINUOUS.
- FOG SEAL TO BE APPLIED AFTER FINAL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- THE MAXIMUM GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL BE 2% AND SHALL FALL BETWEEN DRIVING LANES OR BETWEEN A DRIVING LANE AND A PARKING LANE.
- IN PLACE NATIVE MATERIAL (NON-CEMENTED) MAY BE SUBSTITUTED FOR TYPE 1 AGGREGATE BASE PROVIDED THE FOLLOWING CONDITION IS MET: ALL OTHER REQUIREMENTS ARE THE SAME AS FOR TYPE 1.
- (a) THE NATIVE SOIL FALLS WITHIN THE GRADATION TOLERANCES OF TYPE 1 OR TYPE 2 OR IS CLASSIFIED AS GP OR GW BY THE UNIFIED CLASSIFICATION SYSTEM (ALL MATERIAL TO PASS A 3" SIEVE).
- IN PLACE NATIVE MATERIAL (CEMENTED) MAY BE SUBSTITUTED FOR TYPE 1 AGGREGATE BASE PROVIDED THAT THE ENTIRE RIGHT OF WAY IS SUFFICIENTLY BALL BROKEN (BACK OF SIDEWALK TO BACK OF SIDEWALK). THE BALL BROKEN AREAS SHALL BE LEVELED AND COMPACTED AS PER SPECIFICATION.
- OWNER AGREES THAT IF THE EXISTING MATERIAL DOES NOT CONFORM TO STANDARD SPECIFICATIONS FOR TYPE 1 GRAVEL BASE THEN MATERIAL MEETING THOSE SPECIFICATIONS WILL BE IMPORTED.

QUANTITIES

PUBLIC - OFFSITE		PRIVATE - ONSITE	
Street		Parking Lot	
Remove & dispose of existing roll curb	145 LF	2-1/2" AC pavement with 13" type 2 base	1420 SF
5' Concrete sidewalk	3600 SF	6" Concrete pavement	6750 SF
Commercial driveways	800 SF	"A" Curb	620 LF
"L" Curb & gutter	30 LF	"L" Curb & gutter	110 LF
		Guard posts	6 EA
		4" wide white paint stripe	160 SF
		Trash enclosure	1 EA
Water		Water	
6" x 6" Mechanical joint tapping sleeve	2 EA	6" C-300 PVC	96 LF
6" ACP	30 LF	2-1/2" PVC	112 LF
6" Detector check assembly & vault (by Contractor)	1 EA	6" Gate valve	1 EA
2" Water service, meter & meter box	1 EA	Post indicator with tamper switch	1 EA
Fire hydrant	1 EA	Siamese connection	1 EA
6" Gate valve	2 EA		
Electrical		Sewer	
100W NPS Street light	4 EA	6" PVC	105 LF
1-1/4" PVC Street light conduit w/wire	860 LF	Cleanout	2 EA
		Earthwork	
		Dut	70 CY
		Fill	4785 CY
		Import	4719 CY

The quantities shown for earthwork are geometric only and do not take into account shrinkage or subsidence. All work shall be in strict accordance with the "Soil and Foundation Investigation, Proposed Fire Station No. 4, 15th Street, North of Charleston Boulevard, Las Vegas, Nevada" prepared by Converse Consultants Southwest, Inc. dated November 9, 1987.

FIRE STATION SUMMARY SHEET

STATION NO.	4
CONSTRUCTION TYPE	V
FIRE RATING	1 HR
FLOOR AREA (SF)	10,400
SPRINKLER SYSTEM	YES
DISTANCE TO ADJACENT STRUCTURES (FT)	30
FIRE FLOW (GPM)	1750

FIRE DEPARTMENT NOTES

- ALL ONSITE FIRE MATERIALS TO BE UL LISTED OR FM APPROVED.
- FIRE HYDRANTS ARE TO BE INSTALLED PRIOR TO BUILDING CONSTRUCTION OR STORAGE OF FLAMMABLE MATERIALS ONSITE.
- AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
 - KENNEDY GUARDIAN
 - HUELLER A-423 CENTURION
- CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION. PRESSURE AND FLOW VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES REQUIRED BEFORE COVERING.
- FIRE SERVICE LINES SHALL BE INSTALLED TO COMPLY WITH LOCAL CODES.
- REQUIRED FIRE FLOWS AS INDICATED ON THESE DRAWINGS MUST BE MET.

LEGEND

EXIST. EDGE OF PAVEMENT	=====
EXIST. "L" CURB GUTTER	=====
EXIST. WATER LINE	-----W-----
EXIST. SEWER	-----S-----
EXIST. 5' CONTOUR	-----70-----
EXIST. 1' CONTOUR	-----71-----
EXIST. GRADE	-----65.03-----
PROPOSED "A" CURB	=====
PROPOSED "L" TYPE CURB	=====
PROPOSED DRAINAGE SWALE	====>>>>=====
PROPOSED CONTOUR	-----62-----
GRADE BREAK	◆
CHAINLINK FENCE	-----x-----

ABBREVIATIONS

EXIST. OR EX.	EXISTING
F.F.	FINISH FLOOR
F.H.	FIRE HYDRANT
F.L.	FLOW LINE
G.V.	GATE VALVE
INV.	INVERT
T.C.	TOP OF CURB
C.O.	CLEAN OUT
T.M.	TOP OF MANHOLE
L.F.	LINEAR FEET
TYP.	TYPICAL
T.S.W.	TOP OF SIDEWALK
F.G.	FINISHED GRADE
PI & TS	POST INDICATOR & TAMPER SWITCH

BENCHMARK

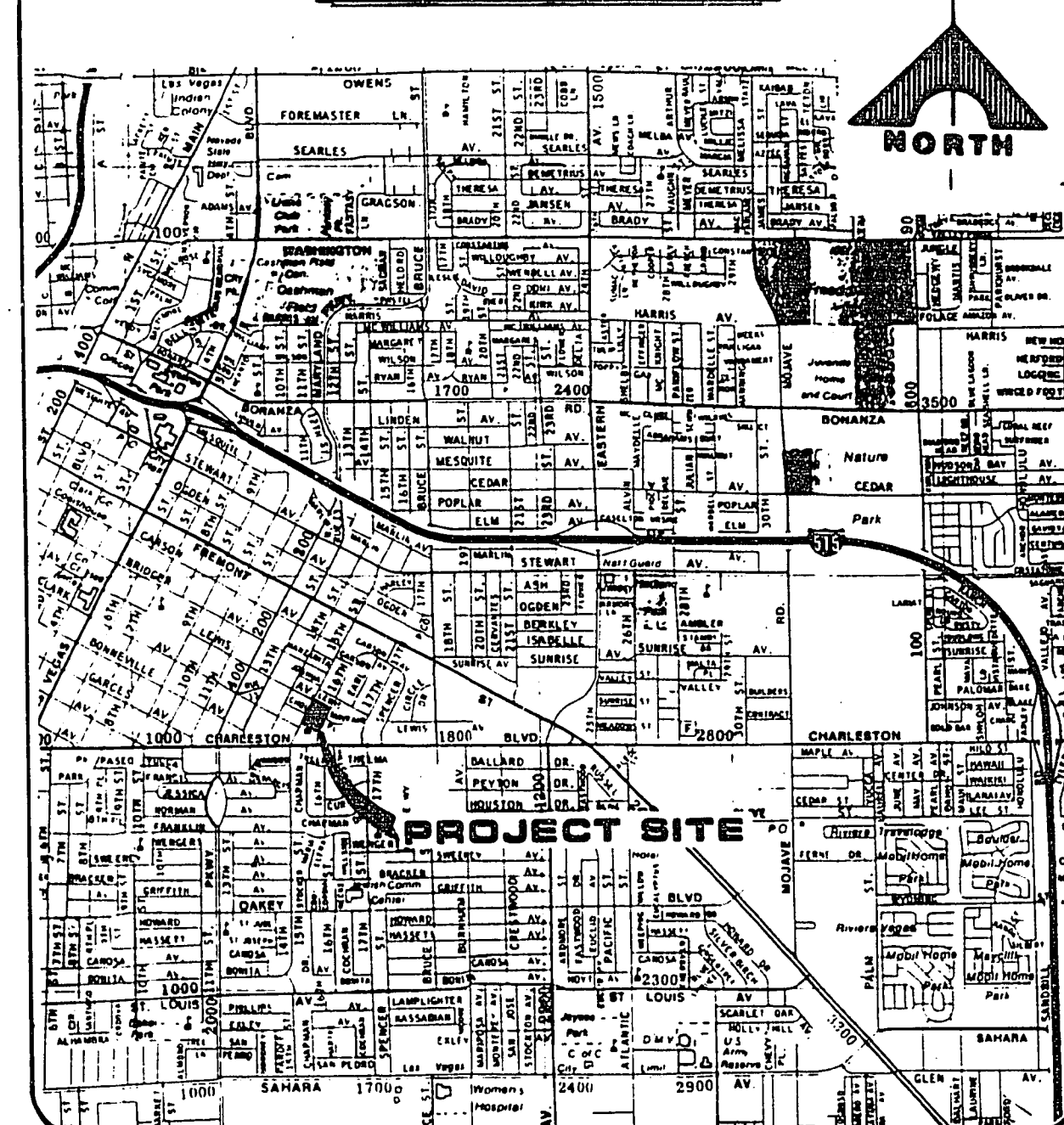
City of Las Vegas Bench Mark # 06135C10 an aluminum plate and rivet in top of curb at the Southwest corner of Lewis Avenue and 16th Street. Elevation = 1936.73.

BASIS OF BEARING

North 28°13'00" East, being the bearing of the centerline of 16th Street as shown by a plat of the Amended Map of Mayfair Tract No. 2, as shown by a plat on file in the Clark County, Nevada Recorder's Office as Page 47 of Book 11 of Plats.

Avoid cutting underground utility lines. It's costly.

Call before you Dig.
1-800-227-2600

VICINITY MAP**INDEX OF DRAWINGS**

- C1 COVER SHEET**
- C2 INDEX, GENERAL NOTES, VICINITY MAP, SIGNATURE BLOCK & QUANTITIES**
- C3 DEMOLITION PLAN**
- C4 UTILITY PLAN**
- C5 GRADING, DRAINAGE & PAVING PLAN**
- C6 MISCELLANEOUS SECTIONS & DETAILS**

APPROVALS

<i>[Signature]</i> CLV ENGINEER	5-17-88 DATE
<i>William L. Flan</i> CLV TRAFFIC ENGINEER	4-14-88 DATE
<i>Paul Brennan</i> CLV FIRE MARSHALL	4-11-88 DATE
N/A CLV SANITATION ENGINEER	DATE
<i>[Signature]</i> CLV ELECTRICAL SUPERVISOR	4-15-88 DATE
<i>[Signature]</i> CLV ELECTRICAL COORDINATOR	4-15-88 DATE
<i>La Sue Jackson</i> NEVADA POWER COMPANY	3-15-88 DATE
LAS VEGAS VALLEY WATER DISTRICT	DATE
<i>[Signature]</i> CLV CHIEF LAND DEVELOPMENT	4-14-88 DATE

CITY OF LAS VEGAS
FIRE STATION NO. 4

INDEX, GENERAL NOTES, VICINITY MAP,
SIGNATURE BLOCK & QUANTITIES

SHEET

C2

OF 6 SHEETS

RECOMMENDED
DATE
REV
DESCRIPTION

G.C. WALLACE, INC.
Engineering/Architecture

3343
R.E. NO.
DATE
3/1/88
Jack H. Mitchell