

GENERAL SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS OF THE CLARK COUNTY SANITATION DISTRICT AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA 1978. IN ALL CASES THE DISTRICT'S CRITERIA SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS.
2. CLARK COUNTY SANITATION DISTRICT'S STANDARD DRAWINGS SHALL APPLY TO ALL CONSTRUCTION.
3. SEWER MAINS ARE TO BE LAID IN SEWER TRENCHES.
4. ALL 4" HOUSE LATERALS TO BE LAID AT NOT LESS THAN MINIMUM SLOPES AS SHOWN IN THE DISTRICT'S STANDARDS.
5. SEWER LATERAL LOCATIONS TO BE PAID IN ACCORDANCE WITH STANDARD DRAWING SD-11 IN THE DISTRICT'S STANDARDS.
6. 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 CLARK COUNTY SANITATION DISTRICT.
7. IF A LATERAL IS UNDER A DRIVEWAY, CONCRETE SLAB, OR A.C. AREA, A CLEANOUT SHALL BE INSTALLED AND RAISED TO GRADE WITH A SLOTTED BRASS CAP OR WITHIN A WATER METER BOX WHICH HAS A METAL COVER MARKED "SEW. C.O.". THIS INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD DRAWING SD-12.
8. SOIL TESTING SHALL BE IN ACCORDANCE WITH ITEM #21 OF THE CONSTRUCTION STANDARDS OF THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
9. ALL EXFILTRATION, INFILTRATION AND AIR TESTING OF LINES SHALL BE IN ACCORDANCE WITH THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
10. CUT SHEETS MUST BE SUBMITTED TO THE DISTRICT BEFORE CONSTRUCTION WILL BE PERMITTED TO START.
11. ALL CONTRACTORS INSTALLING SEWER MAINS WHICH WILL BE UNDER THE JURISDICTION OF THE DISTRICT MUST BE CLASS "A" CONTRACTORS.

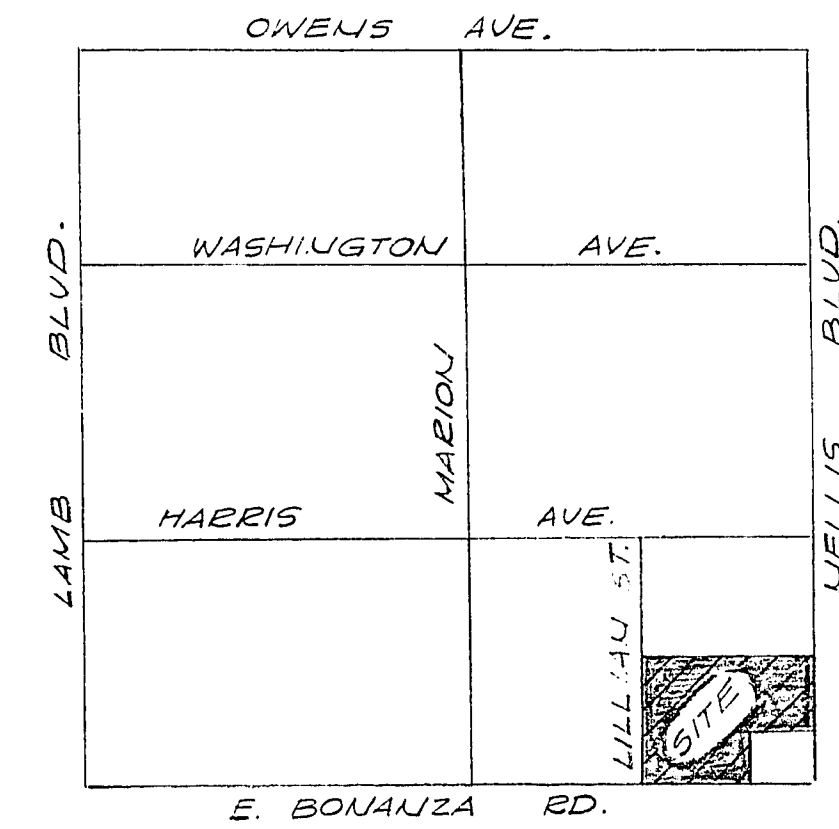
QUANTITIES

QUANTITY ESTIMATES
(BONDING PURPOSES ONLY)

(NOT FOR BIDDING OR CONSTRUCTION USE)

NO.	DESCRIPTION	QUANTITY	UNIT
1	Clearing & Grubbing	7.9±	Acres
2	Type "L" Curb & Gutter	554	Lin.Ft.
3	Concrete Sidewalk 4"	2,768	Sq. Ft.
4	Concrete Driveway-Commercial	280	Sq. Ft.
5	3" AC Pavement (Temp.)	11,095	Sq. Ft.
6	2" AC Pavement	18,048	Sq. Ft.
7	Type I Gravel Base	742	Cu.Yds.
8	Type II Gravel Base	879	Cu.Yds.
9	Wheel Chair Ramp	1	Each
10	Concrete Drainage Flume	2	Each
11	Eccentric Concrete Manhole	1	Each
12	6" VC Pipe-House Laterals	44	Lin.Ft.
13	8" VC Pipe	22	Lin.Ft.
14	Street Lighting Quantity	(SEE SHEET 4 of 4)	
15	Water Quantity	(SEE SHEET 2 of 4)	

VICINITY MAP



BENCHMARK

C.C.E.D. BRASS NAIL & TAG T.C.
SE CORNER NELLIS BLVD. &
BONANZA ROAD.
ELEV. 1759.51

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", issued 1978; the "Uniform Standard Drawings for Public Works Construction, Clark County Area"; any other applicable approved standards issued by the controlling agency; the Uniform Building Code; and all Local City Codes and Ordinances Applicable.
2. The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of our knowledge there are no existing utilities except as shown on these drawings. 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.
3. All grades are referenced to the top of the construction grade stakes or nails and this rule shall be observed: Three consecutive construction grade stakes or nails corresponding to three consecutive points shown on the approved plans as a straight grade shall be used in common and any variation shall be reported in writing to Alca before work proceeds. Contractors doing otherwise shall proceed at their total risk and responsibility.
4. The quantity estimates shown hereon are approximate and no one is to rely upon them for pay quantities. Each and every contractor shall have a set of approved plans and specifications on the job site at all times and shall rely upon them to a higher degree than the construction stakes in prosecuting the work.
5. All Construction shall be as shown on these plans, any alterations shall have the prior approval of the City Engineer.
6. Contractor shall provide all necessary Horizontal and Vertical Transitions for proper drainage, extent of transitions shall be as shown or as determined by City Engineer or Inspector.
7. If any curb grades are shown on plan @ less than 0.40%, it is required by this office, that the forms be checked by a survey crew prior to concrete placement. A 48 hour notification of work is required, and if this office is not notified, it will assume no responsibility for finished product.
8. Concrete mix design per Section 701 revised specs.
9. Expansion joints are required at 300' maximum intervals in extruded type curb.
10. AC pavement to be 1/2" above lip of all gutters & valley gutters after compaction.
11. The manholes shall have concrete collars at surface of paved areas.
12. Chisel S or G whenever sewer or gas lines pass under the curb.

INDEX OF SHEETS

- | SHT | DESCRIPTION |
|-----|--|
| 1. | SECTION & DETAILS, TIPS, NOTES ABOVE |
| 2. | BONANZA RD. & NELLIS ST. = ST. IMP. PLAN |
| 3. | NELLIS BLVD = ST. IMP. PLAN |
| 4. | ST. LIGHTING PLAN |

APPROVALS

C.P. BRECHER 4-30-79
REGIONAL ST. & HWY. COMM. DATE

LAS VEGAS VALLEY WATER DISTRICT
sht. No. Date Signed

LAS VEGAS CITY ENGINEER 5/14/79
DATE

N/A
LAS VEGAS FIELD OPERATIONS ENGINEER DATE

SEE SHEET No. 4
LAS VEGAS CITY ELECTRICIAN DATE

LAS VEGAS ELECTRICAL COORDINATOR 5/14/79
DATE

LAS VEGAS SANITATION SUPV. 5/14/79
DATE

LAS VEGAS FIRE DEPARTMENT 3-21-79
DATE

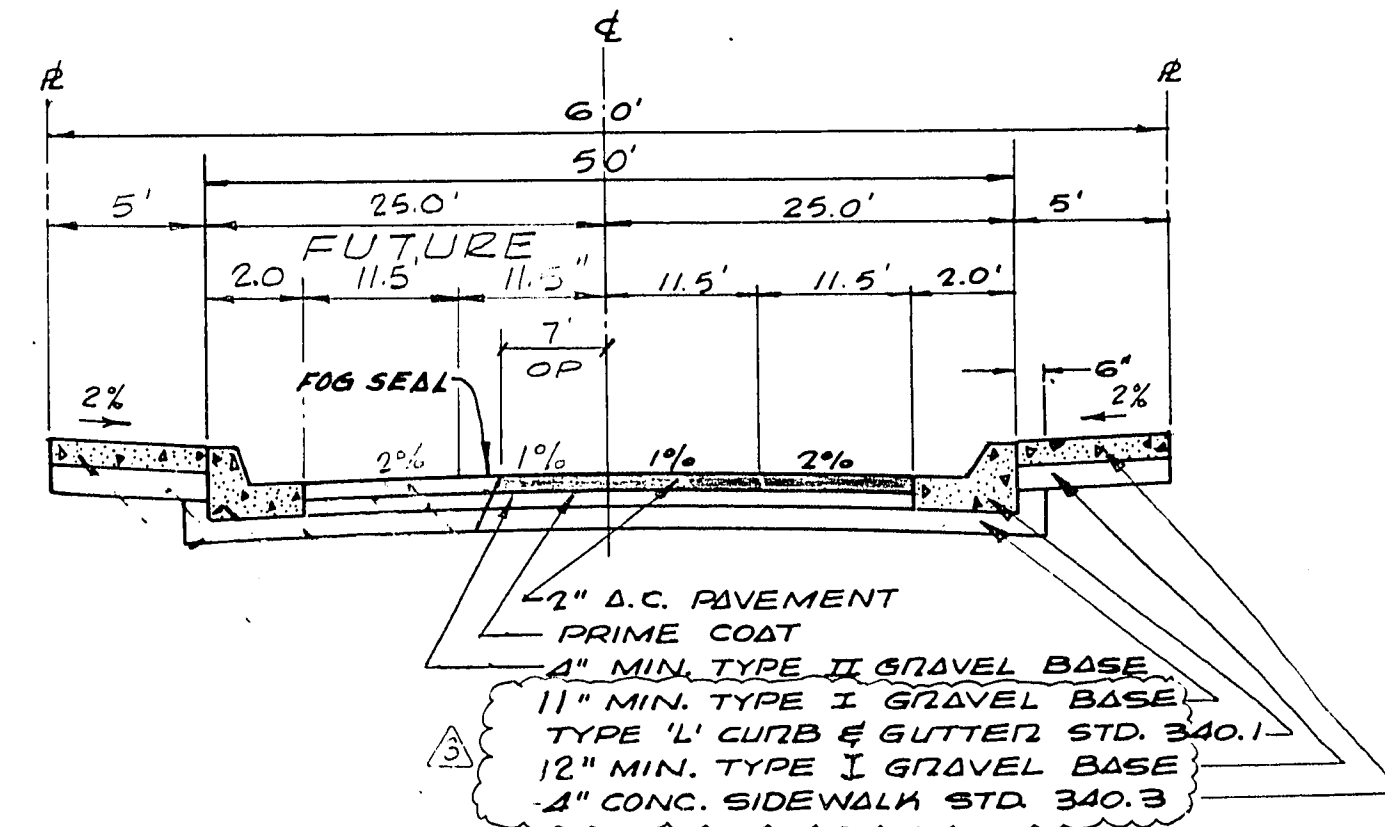
QUALITY CONTROL ENGINEER 5-11-79
DATE

LAS VEGAS TRAFFIC ENGINEER 3-21-79
DATE

NEVADA POWER COMPANY DATE

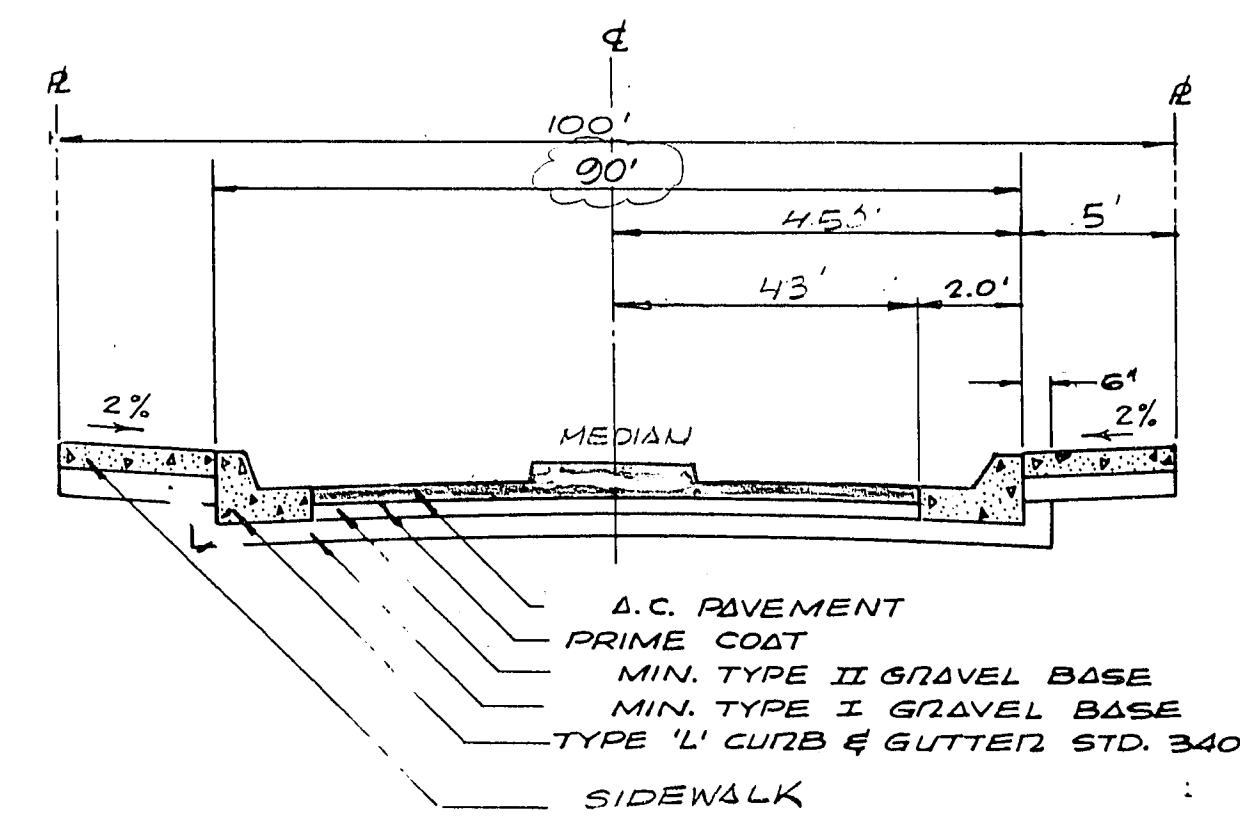
DEVELOPER

W.R. GRACE DEVELOPMENT CORP.
RD. BOX 2430
NEWPORT BEACH, CALIFORNIA
92663



60' STREET SECTION
WITH 50' BACK OF CURB

LILLIAN ST. (HALF ST.)
(LOOKING NORTH)



100' STREET SECTION
WITH 90' BACK OF CURB
(FUTURE)

BONANZA RD. (HALF ST.)

NELLIS BLVD. (HALF ST.)

C&G, SW, STREET, MEDIAN ETC., WILL BE BUILT BY
ASSESSMENT DIST. W/ REG. ST. & HWY. PROJECT.

ABBREVIATIONS

AC.....Asphaltic Concrete	MIN.....Minimum
ACP.....Asbestos Cement Pipe	NO.....Number
ADJ.....Adjust	NRCP.....Non-reinforced concrete pipe
BC.....Beginning of curve or Back of curb	OC.....On Center
BCR.....Beginning of curb return or Back of curb radius	OD.....Outside diameter
BDRY.....Boundary	PC.....Point of curvature
BEG.....Begin	PCC.....Point of compound curve or Portland cement concrete
BM.....Bench Mark	PHP.....Plastic High Pressure
BVC.....Beginning of Vertical Curve	PI.....Point of Intersection
C & G.....Curb & Gutter	PL.....Property Line
CF.....Curb Face	PP.....Power Pole
CIP.....Cast Iron Pipe	PRC.....Point of Reverse Curve
CL.....Centerline or Chain Link	PROP.....Proposed
CMP.....Corrugated Metal Pipe	PT.....Point of Tangent
CONC.....Concrete	PVC.....Poly vinyl chloride pipe
CONST.....Construct	PVI.....Point of Vertical Intersection
D.....Diameter of Pipe	PVMT.....Pavement
DBL.....Double	Q.....Rate of Flow
DI.....Drop Inlet	R.....Radius
DIA.....Diameter	RC.....Reinforced Concrete
DMH.....Drop Manhole	RCP.....Reinforced Concrete Pipe
EC.....End of Curve	RT.....Right
ECR.....End of Curb Return	RAW.....Right of Way
EL.....Elevation	SD.....Storm Drain
EVC.....End of Vertical Curve	SHP.....Steel High Pressure
EQ.....Equal	SHT.....Sheet
EX.....Existing	SP MH.....Special Manhole
FG.....Finish Grade	SS.....Sanitary Sewer
PH.....Fire Hydrant	STA.....Station
FL.....Flow Line	STD.....Standard
G.....Gas	STL.....Steel
GB.....Grade Break	SW.....Sidewalk
H.....High or Height	T.....Tangent Distance
HOR.....Horizontal	TC.....Top of Curb
ID.....Inside Diameter	TMI.....Top of Manhole
INV.....Invert	TRANS.....Transition
IP.....Iron Pipe	TSC.....Traffic Signal Conduit
L.....Length	VC.....Vertical Curve
LAT.....Lateral	VCP.....Vitrified Clay Pipe
LF.....Lineal Feet	VERT.....Vertical
LT.....Left	VG.....Valley Gutter
Max.....Maximum	W.....Water
MH.....Manhole	