

1. 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 City Engineer.
2. Existing utilities are located on plans for the convenience of the Contractor only; the Contractor shall bear full responsibility for the protection of utilities and the Engineer bears no responsibility for utilities not shown on plans or not in the location shown on the plans.
3. Construction to be per Uniform Standard Specifications and Drawings; City of Las Vegas, Nevada, LAFES EDITION.
4. Construction Survey:
Grades are given from top of stakes or nails. The Contractors are cautioned to observe the following rule in using the grade stakes given by this office for putting in curbs or sewers: Three 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, and 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 finish work.
5. ~~CONCRETE TYPE IV CONCRETE IN ALL OFFSHORE CONCRETE WORK~~
~~CHISEL TYPE IV CONCRETE IN ALL OFFSHORE CONCRETE WORK~~
~~E.G. WHERE THESE LINES PASS UNDER THE CURB~~

STREET LIGHTING SPECIFICATIONS
240 VOLT SINGLE PHASE TWO WIRE SYSTEM

UNDERGROUND

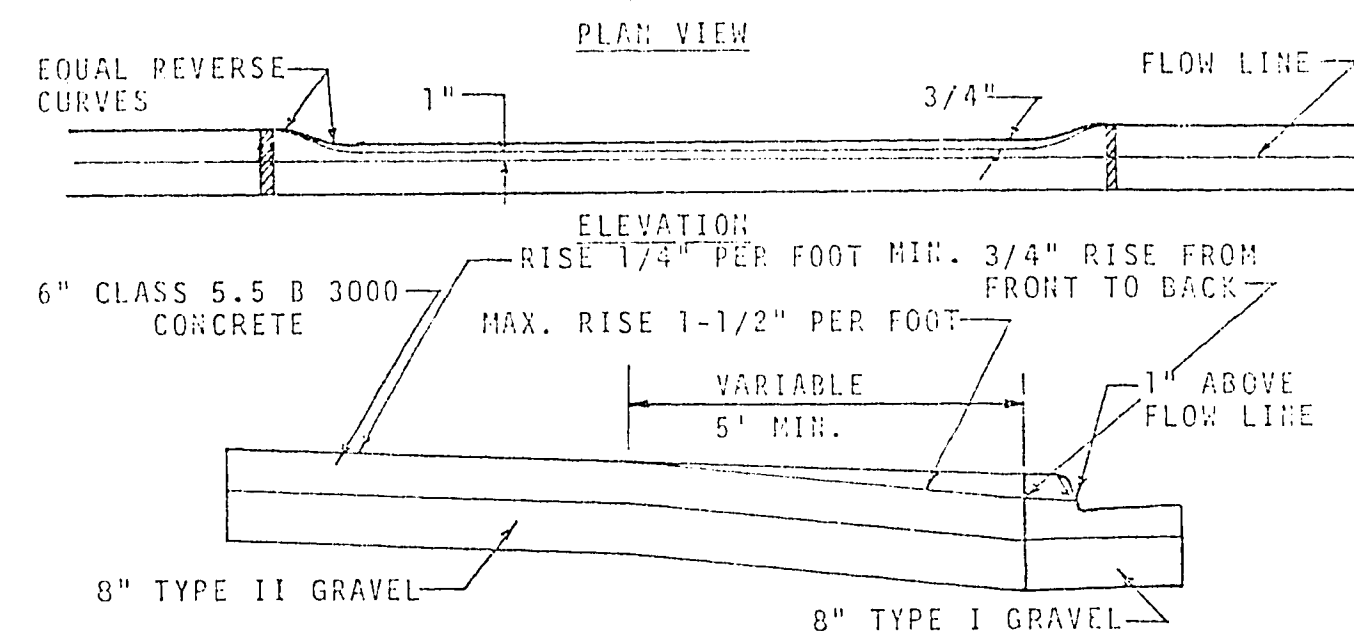
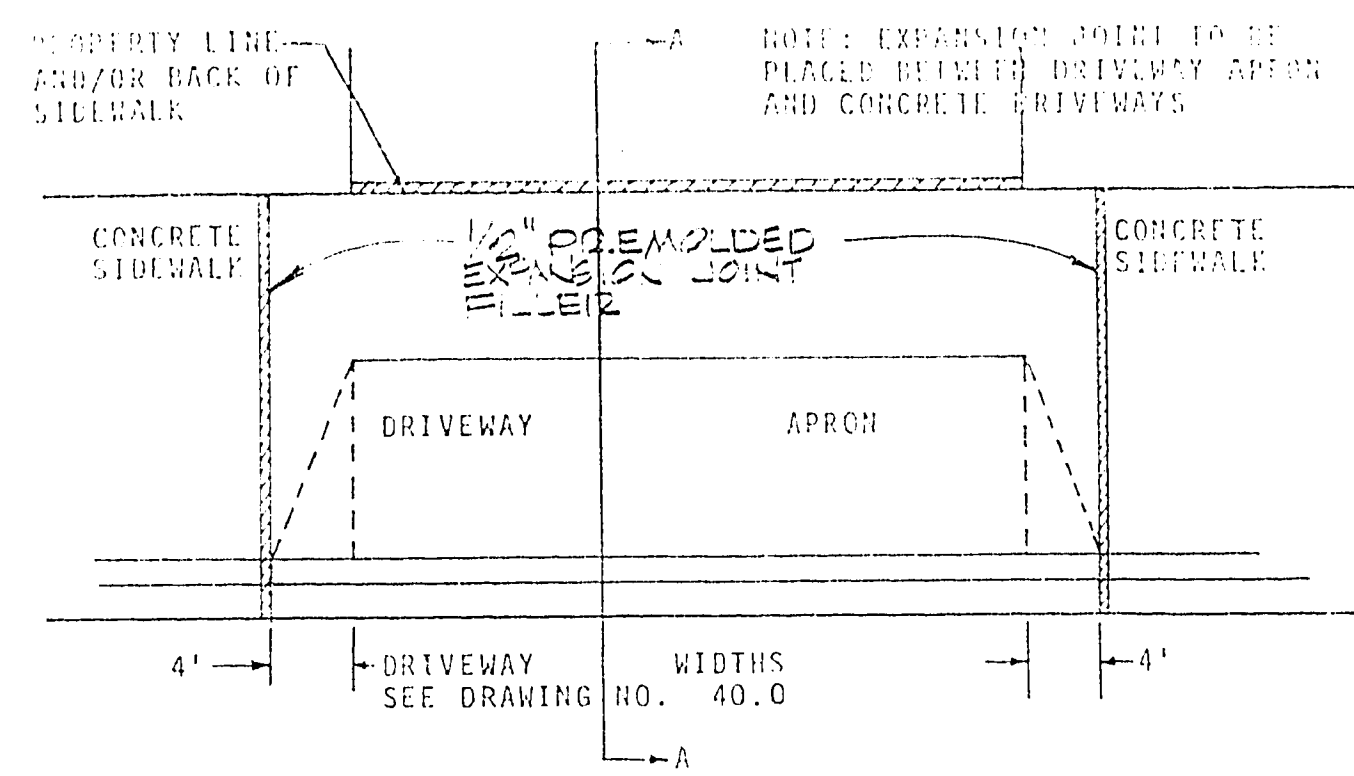
1. Street Lighting standards shall be as shown by Drawing No. 400-1, page 40 of Uniform Standard Drawings and shall conform to Sections 400 and 405 and any other applicable sections of the Uniform Standard Specifications.
2. On 80' R/W Streets there shall be 2 poles on diagonal corners.
3. On 100' R/W Streets there shall be one pole at each corner.
4. High Pressure Sodium Luminaires to be used on 51' R/W and 60' R/W streets shall be 100 watt, 240 volt I.E.S. distribution type 3, with integral constant wattage ballast, similar to General Electric Type M250A catalogue #C7280584 of approved equal.
5. High pressure Sodium Luminaires to be used on 80' R/W streets and over, shall be 250 Watt 240 Volt, I.E.S. distribution type 3 with integral constant wattage ballast similar to General Electric Type M-400A, Catalog #C7246804 or approved equal.
6. 100 Watt High Pressure Sodium Lamps shall be Sylvania LU100 or approved equal.
7. 250 Watt High Pressure Sodium Lamps shall by Sylvania LU250 or approved equal.
8. Photo Cell and Control to be 120 Volts. Fisher-Pierce 6660 or approved equal.
9. Spacing of Standards shall be 180 feet maximum on 51' R/W and 60' R/W streets on one side.
10. Spacing of standards shall be 180 feet maximum on 80' R/W streets on each side and staggered.
11. Spacing of standards on 100' R/W streets or more shall be 120 feet maximum on each side and staggered.
12. All standards to be set 18" back of curb.
13. Sch. 40 Rigid Non-Metallic Conduit (PVC) or approved equal complying with Article 347 of the National Electrical Code may be used for underground applications and to be within 12" back of curb and 24" cover.
14. Fuse Holders and Connectors shall be installed in the bases of all lighting standards, the fuse holders shall be Buss-Trom-Hex-AM, with rubber boots.
15. Base covers for Lighting standards are not to be installed before breakout caps are placed and inspected. All material used in underground wiring, in breakout caps and under base covers to be inspected before installation.
16. Foundations shall be constructed and located to line and grade as directed by the field engineer.
17. Lighting Standard and Mast Arm Cable to luminaire shall be 10/2 U.F. Type 600 Volt copper cable.
18. The Contractor shall be responsible for avoiding damage to property, either public or private and in the event of such damage, shall make satisfactory repairs at his own expense.
19. The Contractor shall furnish complete service to transformers and control systems, if required.
20. The Service Point standard is to be installed at the approved location shown on plans and to conform to drawing #401.1 page 44 of the Uniform Standard Drawings.
21. In the selection of 100 and 250 Watt High Pressure Sodium Luminaires to be used in a particular development one approved manufacturer shall be specified.
22. These specifications to become effective on all City of Las Vegas Multiple Street Lighting Designs approved on or after June 1, 1977.
23. These specifications shall be superseded by any revised specifications in existence at the time of installation.

BENCH MARK

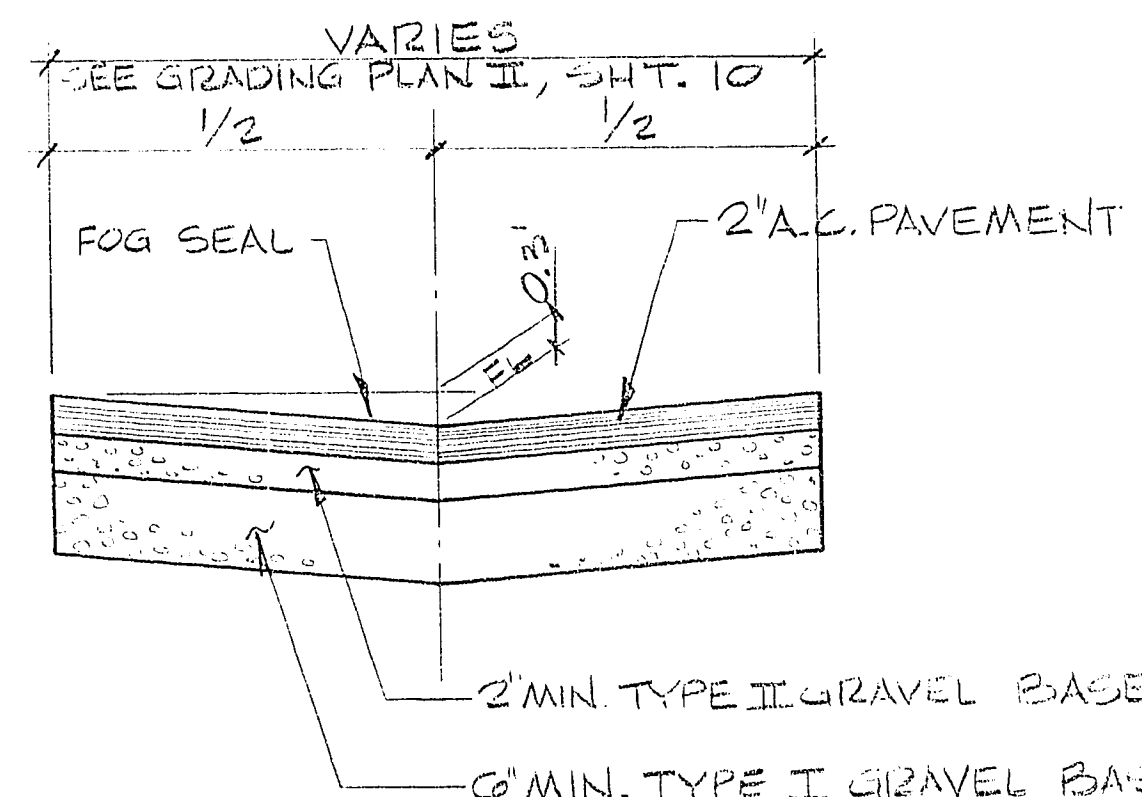
C.L.V. B.M. #481

Concrete Monument with Metal Plate 200' $\pm$ South and
50' $\pm$ West from the intersection of Torrey Pines
and Smoke Ranch Road.

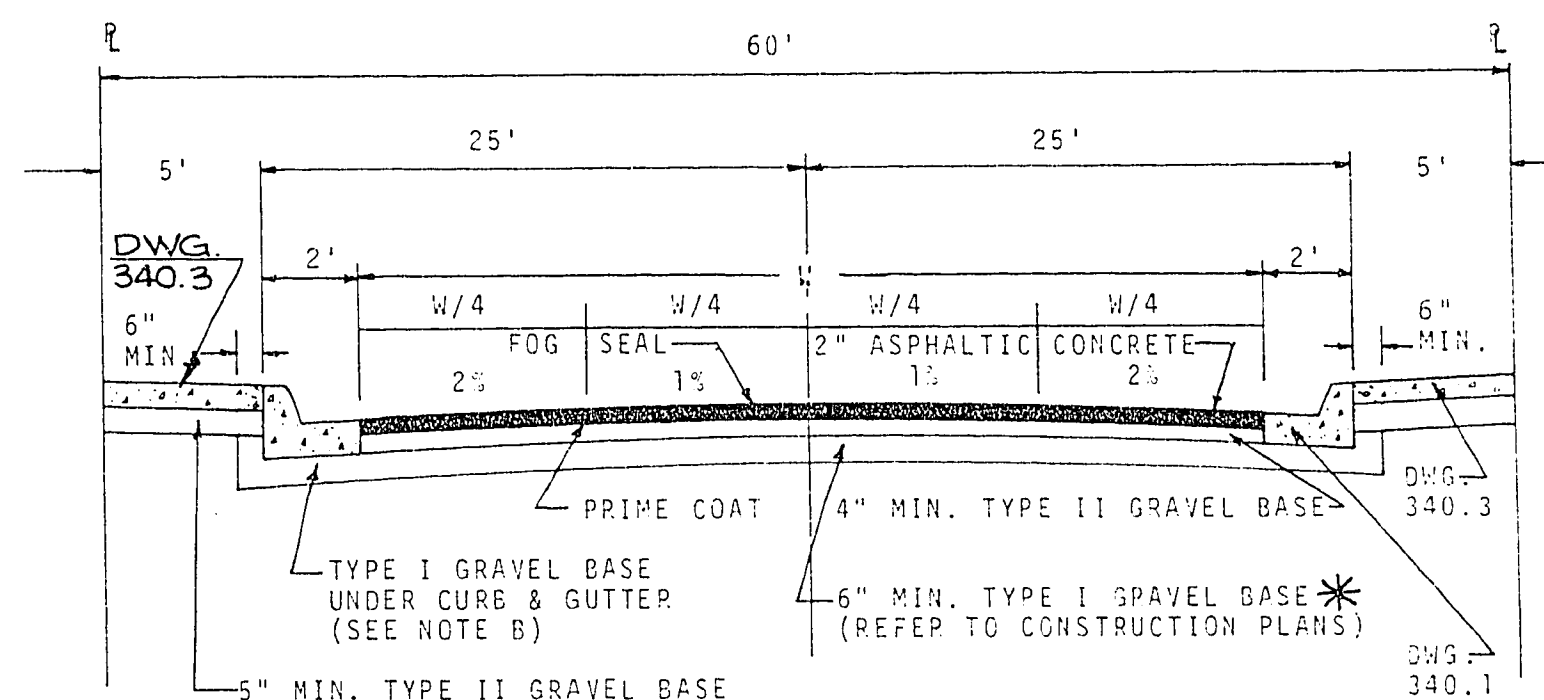
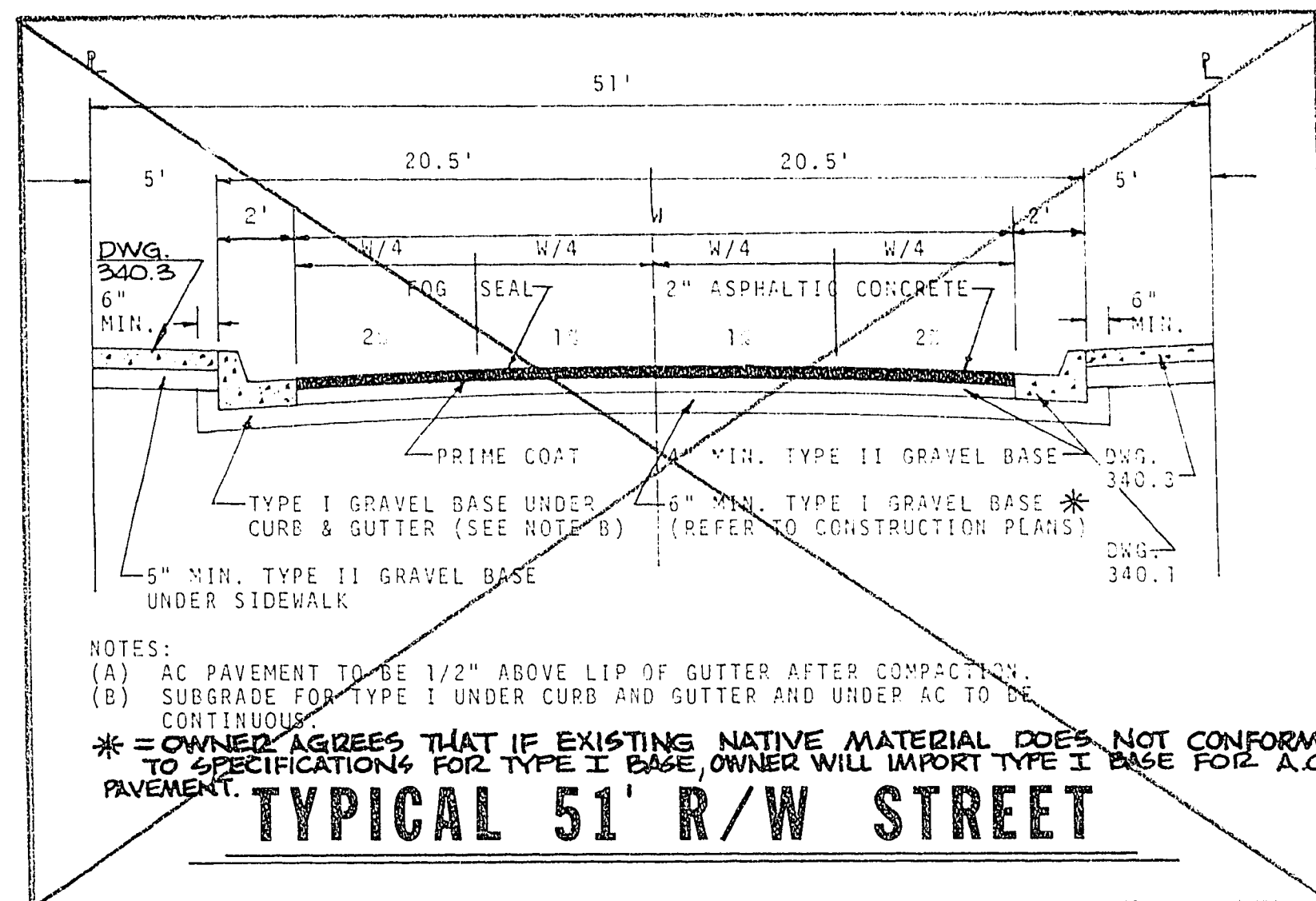
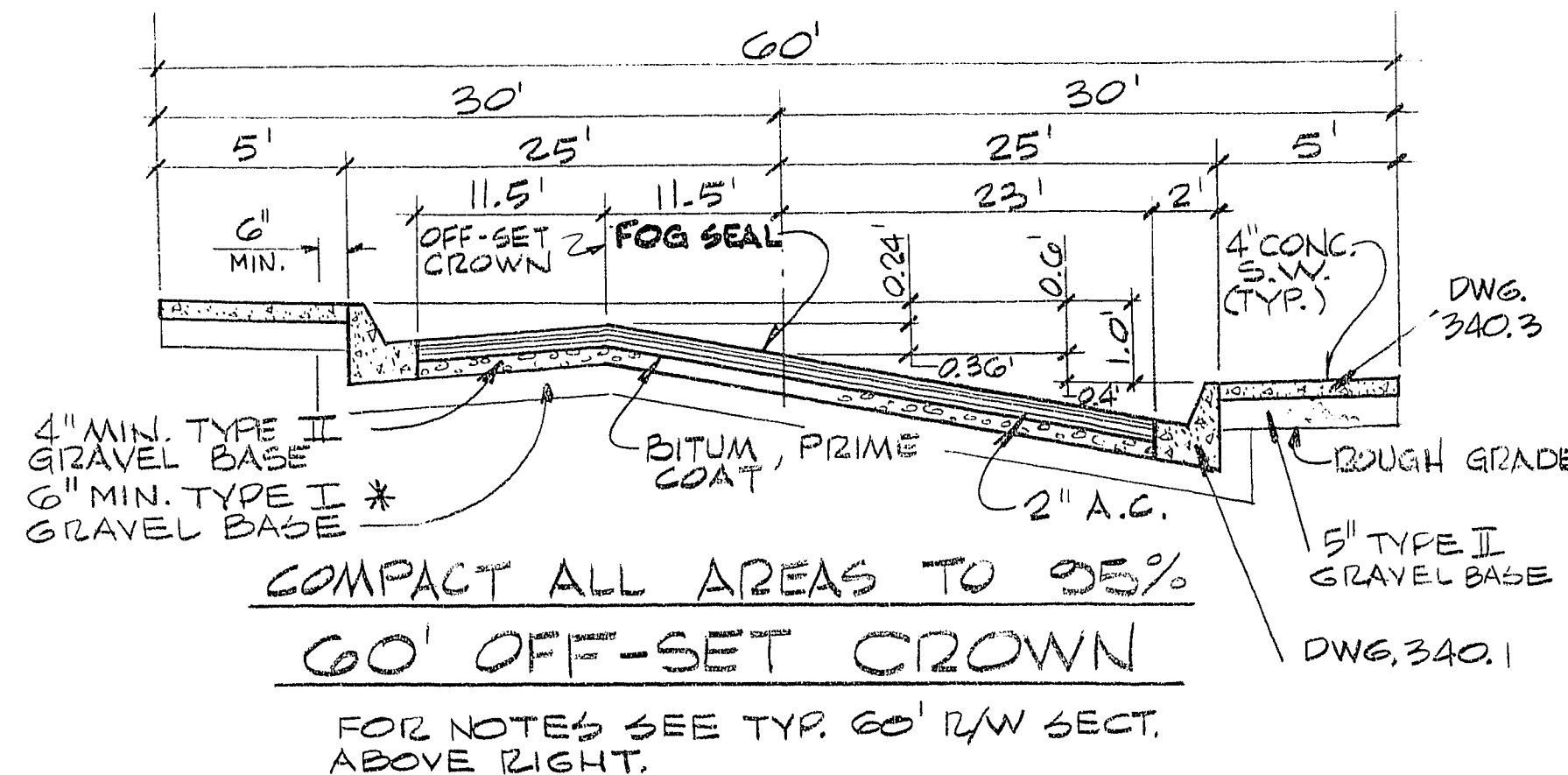
Elevation = 2293.562



NOTE: SECTION A-A
EXPANSION JOINTS REQUIRED MAXIMUM EVERY
300 IN. EXTRUDED CURBS.
TYP. DRIVEWAY DETAIL



TYP. ALLEY SECTION



ESTIMATE OF QUANTITIES

STREET IMPROVEMENTS		
2" A.C. Pavement	4475	S.Y.
3" A.C. Pavement	3140	S.Y.
"11" Type Curb and Gutter (2')	2351	S.Y.
5' Concrete Sidewalk	6276	S.F.
6' Concrete Sidewalk	4573	S.F.
Concrete Alley Gutter (Per Dwg. 340.6)	260	S.F.
8' Concrete Valley Gutter	681	S.F.
2" A.C. Pavement (Alley)	4057	S.Y.

Note: Quantities include improvements for Charleston Heights Tract No. 51-G except concrete sidewalk on Mayerick St

WATER

6" A.C.P.	981	L.F.
STD. F.H. w/6" G.V. & 6" A.C.P. Lateral	2	EA.
6" Gate Valve	2	EA.
1" Service	27	EA.
Meter Box	27	EA.
2" Blow Off	1	EA.
8" x 6" Wet Tap w/6" G.V.	1	EA.

SEWER

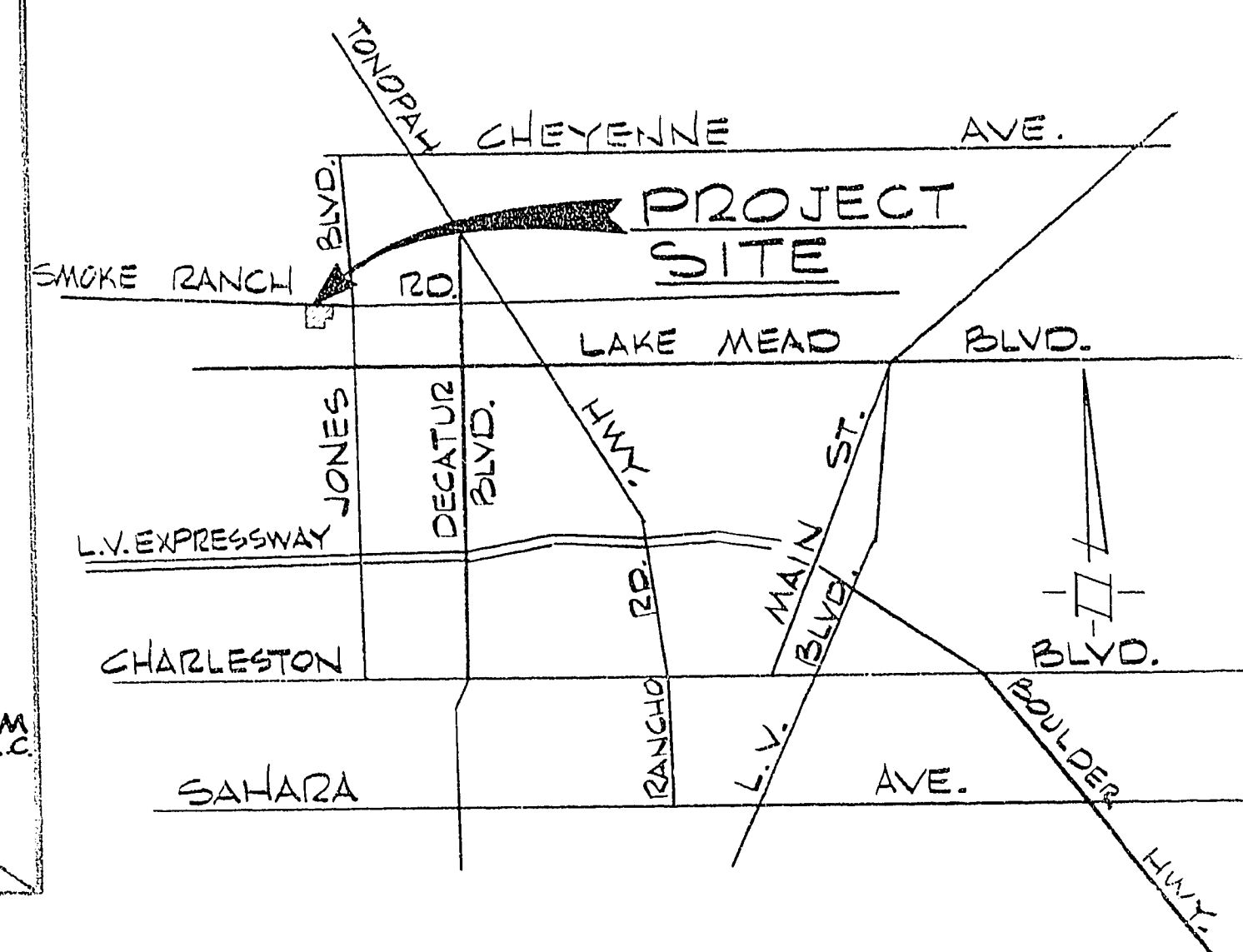
Standard Manhole	4	EA.
8" V.C.P.	897	LF.
4" V.C.P. (Laterals)	1005	LF.

STREET LIGHTS

100 W Luminaire w/11 GA. Pole	5	EA.
250 W Luminaire w/11 GA. Pole	7	EA.
1 1/4" P.V.C.	1685	L.F.

MISCELLANEOUS

Excavation	8720	C.Y.
Stop and Street Sign	2	EA.
Temporary Pavement	277	S.Y.



VICINITY MAP

INDEX OF DRAWINGS

NO.	TITLE
1	COVER SHEET
2	PLAT MAP
3	PLAT MAP
4	QUANTITIES, GENERAL NOTES & MISC.
5	UTILITY PLAN
6	SMOKE RANCH ROAD
7	CAMINO DE ROSA DR.
8	TUCUMCAZI DR.
9	GRADING PLAN I
10	GRADING PLAN II

APPROVALS:

William M. Harris 10/24/27
CITY ENGINEER DATE

Robert D. Weber 10-25-77
FIELD ENGINEER DATE

QUALITY CONTROL ENGINEER _____ DATE 10/24/71

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THESE PLANS AND/OR SPECIFICATIONS COMPLY WITH F.H.A. OBJECTIVES, MINIMUM PROPERTY STANDARDS AND NEIGHBORHOOD REQUIREMENTS AND REPRESENTS THE BEST OF MY JUDGEMENT.

LEONARDO Y. DELUNA, RPE #3794

SHEET 4	BECKER & SONS		CHARLESTON HEIGHTS — TRACT NO. 51-F-1		QUANTITIES. GENERAL NOTES & MISC.	
	G. C. WALLACE Consulting Engineers, Inc.				1100 East Sahara Ave. • Las Vegas, Nevada 89104 • 732-3330	
RECOMMENDED BY:		DATE: 3/24/77		REV. DATE: 1/17/78		DESCRIPTION:
G. C. WALLACE		R. E. NO.		DATE		REV. QUANTITIES: 1157