



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 16, 1993

Joe Kelley
Chavez-Grievess Consulting Engineers, Inc.
5639 Jefferson NE
Albuquerque, NM 87109


RE: ENGINEER CERTIFICATION FOR THE PLAZA CAFE @ THE RIO GRANDE ZOO
(K13-D32) CERTIFICATION STATEMENT DATED 5/18/93.

Dear Mr. Kelley:

Based on the information provided on your July 1, 1993 submittal,
Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,


Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7852

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

DRAINAGE INFORMATION SHEET

37

PROJECT TITLE: Rio GRANDE ZOO MASTER PLAN & CAFE ZONE ATLAS/DRNG.FILE #: K-13/034

LEGAL DESCRIPTION: SECTION 19, T10N, R3E, TOWN OF ATIZSCO GRANT Rio GRANDE ZOO

CITY ADDRESS: 10TH & STOVER

ENGINEERING FIRM: CHAVEZ-GRIEYES CONTACT: JOE KELLEY

ADDRESS: 5639 JEFFERSON NE PHONE: 344-4080

OWNER: Rio GRANDE ZOO CONTACT: FERRI SMITH

ADDRESS: _____ PHONE: 842-7299

ARCHITECT: SEE OWNER CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: SEE OWNER CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: SEE OWNER CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

YES

NO

COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

DRAINAGE REPORT

DRAINAGE PLAN

CONCEPTUAL GRADING & DRAINAGE PLAN

GRADING PLAN

EROSION CONTROL PLAN

ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

SKETCH PLAT APPROVAL

PRELIMINARY PLAT APPROVAL

~~SITE DEVELOPMENT PLAN APPROVAL - MASTER DRAINAGE~~

FINAL PLAT APPROVAL

BUILDING PERMIT APPROVAL

FOUNDATION PERMIT APPROVAL

CERTIFICATE OF OCCUPANCY APPROVAL - CAFE

ROUGH GRADING PERMIT APPROVAL

GRADING/PAVING PERMIT APPROVAL

OTHER _____ (SPECIFY)

DATE SUBMITTED: 7/1/93

BY: Joe Kelley

JUL - 1 1993

K13-032



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 29, 1992

David Mahlman
414½ Central SE
Albuquerque, New Mexico 87102

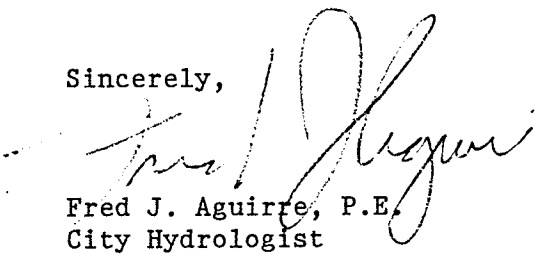
RE: PLAZA CAFE - RIO GRANDE ZOO (K-13/D32)
ARCHITECTS STAMP DATED JANUARY 27, 1992

Dear Mr. Mahlman:

The referenced grading plan received January 27, 1992, is approved with the understanding that the Master Drainage Plan for the Rio Grande Zoo will be submitted to this office for review and approval as a condition of Certificate of Occupancy sign-off. The master plan will need to include the as-built condition of this project.

If you have any questions regarding our understanding, please feel free to call me at 768-2650.

Sincerely,


Fred J. Aguirre, P.E.
City Hydrologist

xc: Ray Darnell, Owner

FJA/bsj
(WP+3084)

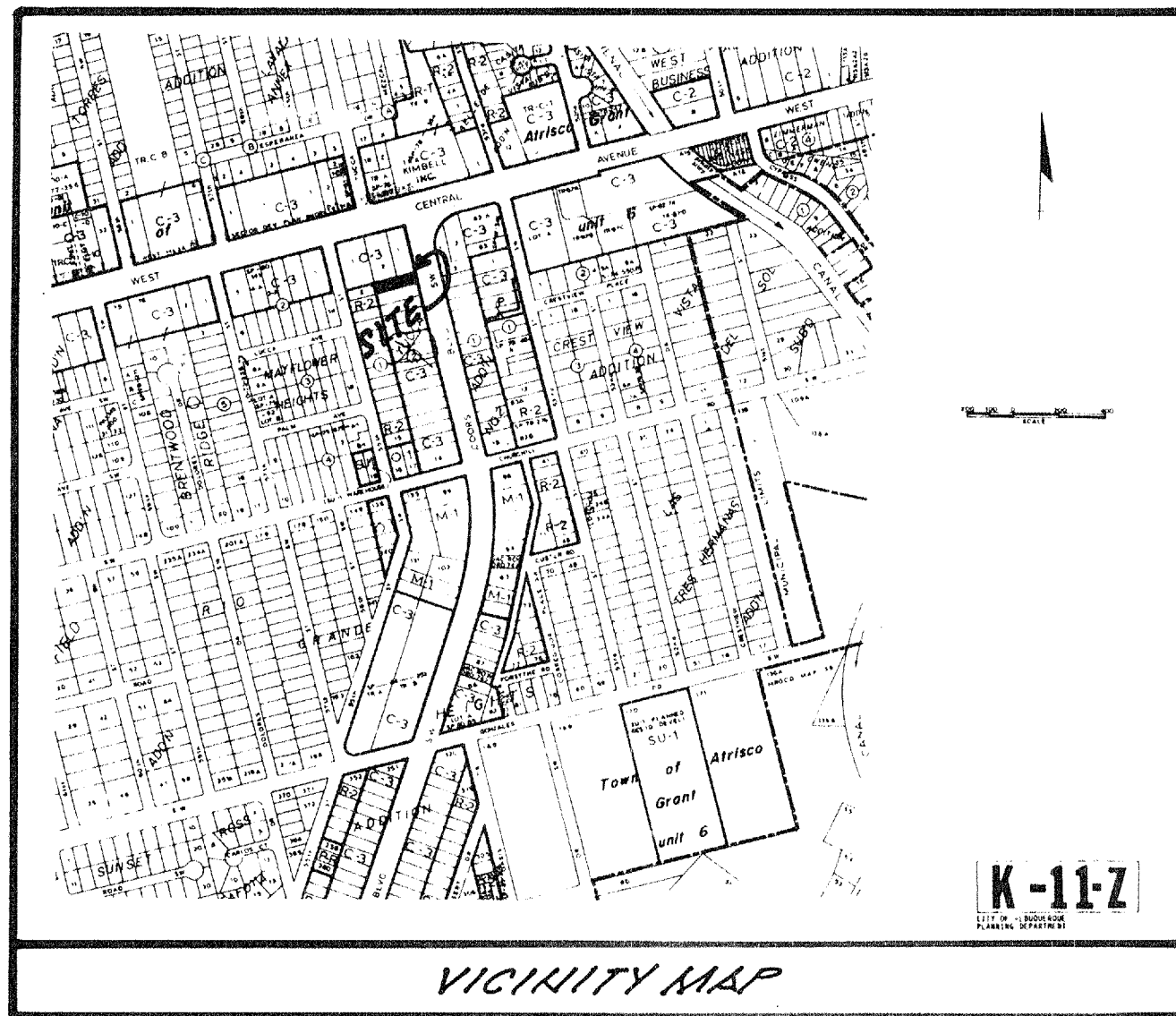
PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

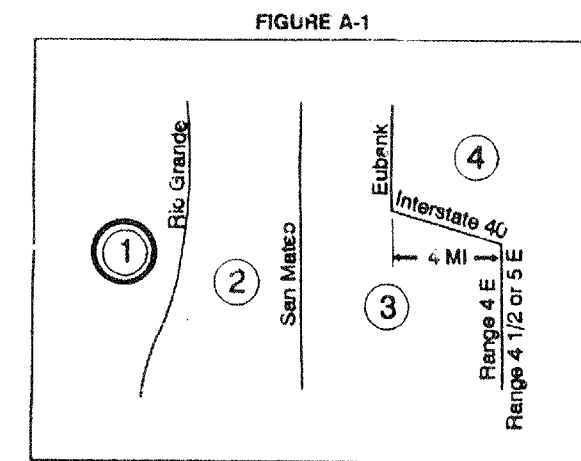
AN EQUAL OPPORTUNITY EMPLOYER



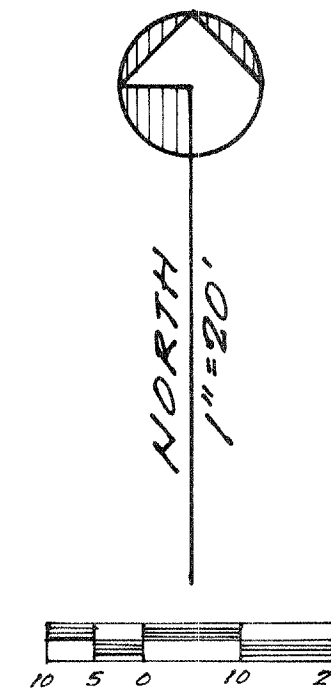
A.1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40, and East of the East boundary of Range 4 East, South of Interstate 40



Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.



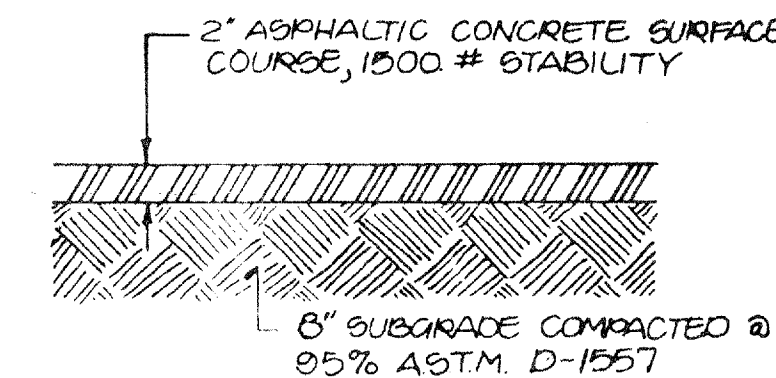
DPM SECTION 22.2 - HYDROLOGY
January, 1993 Page A-4

Treatment	Land Condition
A	Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, groundcover and infiltration capacity. Croplands. Unlined arroyos.
B	Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent.
C	Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes of 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.
D	Impervious areas, pavement and roofs.

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

LEGAL DESCRIPTION: LOT THREE (3), IN BLOCK TWO (2), OF THE YUCCA ADDITION NO. TWO (2), TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE: STATION "NM45-1A", LOCATED AT THE INTERSECTION OF CENTRAL AVENUE AND SOUTH COORS BLVD.; M.S.L. ELEVATION = 5016.739, PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREOF.



GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED FOR THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

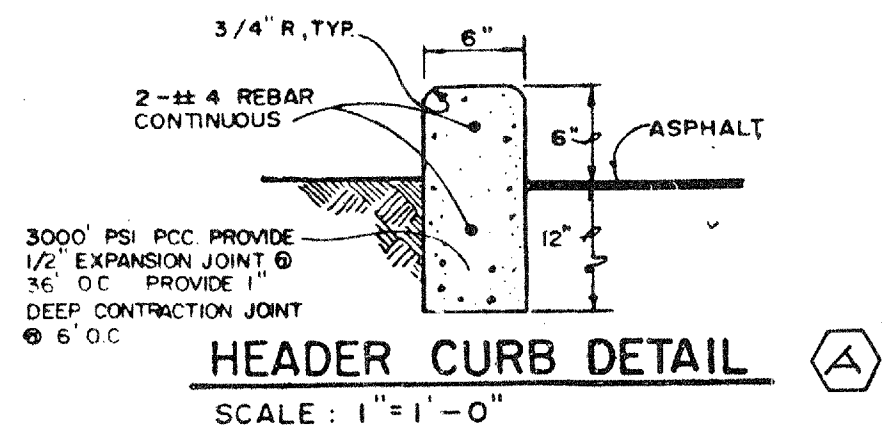
EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

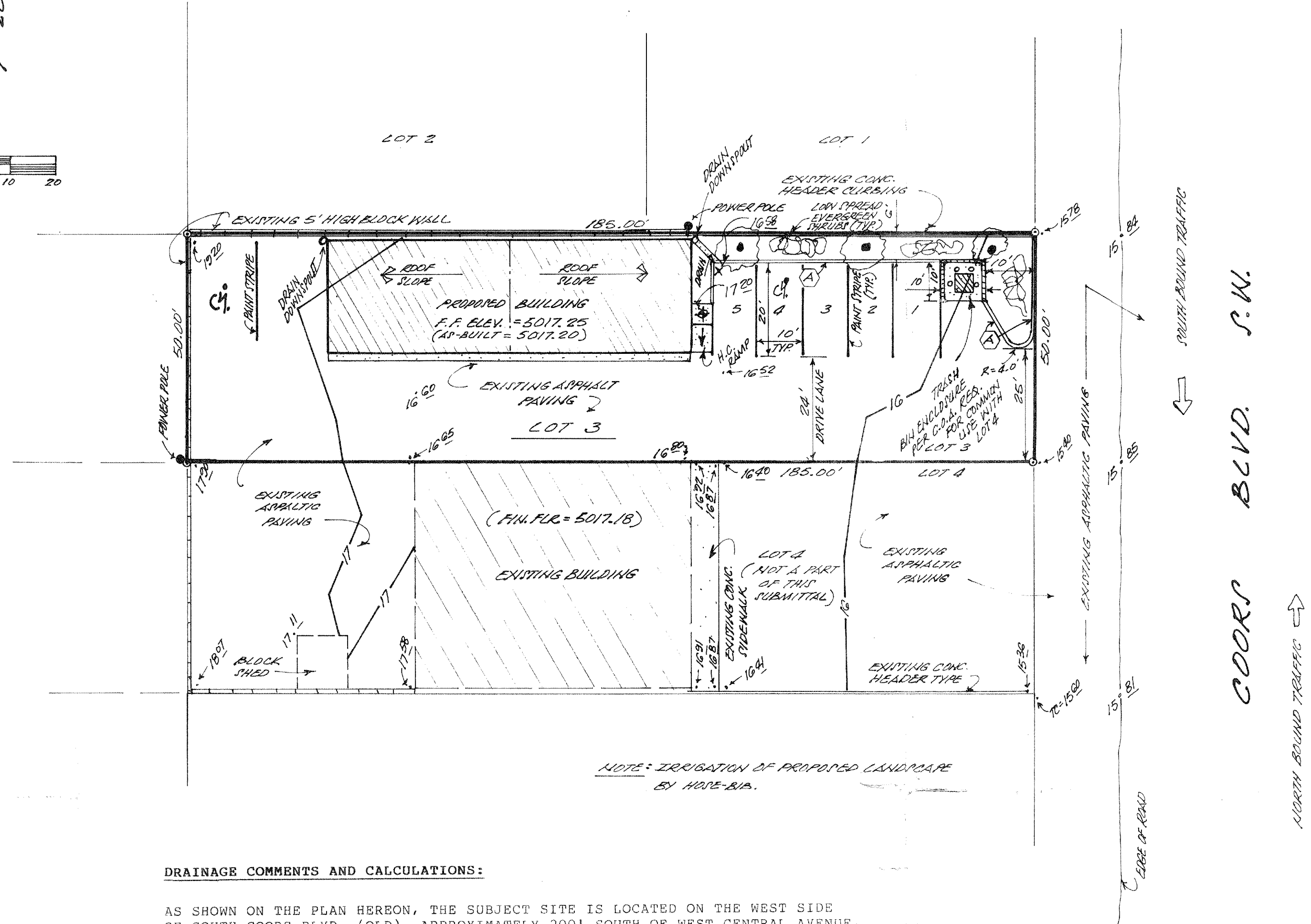
- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 266-1333 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.



LEGEND:
EXISTING CONTOUR = ——— 17' ———
EXISTING SPOT ELEVATION = 16.2'



DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE PLAN HEREOF, THE SUBJECT SITE IS LOCATED ON THE WEST SIDE OF SOUTH COORS BLVD. (OLD), APPROXIMATELY 200' SOUTH OF WEST CENTRAL AVENUE, IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE SUBJECT SITE, 1.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN, 2.) DOES NOT CONTRIBUTE TO OFFSITE FLOWS OF ADJACENT PROPERTIES, 3.) DOES ACCEPT THE OFFSITE FLOWS FROM THE ADJACENT PROPERTY TO THE SOUTH, 4.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 5.) IS PRESENTLY TOTALLY AN ASPHALT PAVED SURFACE, 6.) IS TO HAVE A PROPOSED COMMERCIAL BUILDING CONSTRUCTED OVER AN EXISTING PAVED SURFACE; THE SUBJECT SITE IS REQUIRED TO HAVE LANDSCAPING, THEREBY REDUCING THE RUNOFF THAT WILL BE GENERATED FROM SAID SITE.

CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 0.21 ACRE (9,250.0 SQ. FT.)

PRECIPITATION ZONE: ONE (1)

PEAK INTENSITY: IN./HR. AT T_c = TWELVE (12) MINUTES, 100-YR. = 4.70

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.00	X 2.87	= 0.00
D	0.21	X 4.37	= 0.92

"Q_p" = 0.92 CFS

PROPOSED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.02	X 2.87	= 0.06
D	0.19	X 4.37	= 0.83

"Q_p" = 0.89 CFS

*** DECREASE = 0.03 CFS

ENGINEER'S CERTIFICATION:

I, J. ARSENIO MARTINEZ, NEW MEXICO REGISTERED ENGINEER NO. 7875, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THE "AS-BUILT" ELEVATIONS OF THE SUBJECT IMPROVEMENTS SHOWN ON THE PLAN HEREOF VERIFY THAT THEY ARE IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE.

CERTIFICATION OF A DRAINAGE PLAN FOR FAT RUBENS AUTO 121 COORS (OLD) P.W. ALBUQUERQUE, NEW MEXICO MARCH, 1994

NOV 16 1995

(SITE PLAN REVISION: JUNE 13, 1994) CERTIFICATION: 11-09-95

J. ARSENIO MARTINEZ
REGISTERED PROFESSIONAL ENGINEER
NO. 7875
STATE OF NEW MEXICO

11-14-95
ENGINEER'S SEAL