

DRAINAGE INFORMATION SHEET

PROJECT TITLE: KO PALACE RESTAURANT ZONE ATLAS/DRNG. FILE #: H-17/D55

DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: TRACT "A", BLOCK 9, TIMOTEO CHAVEZ ADDITION

CITY ADDRESS: 4208 MENAUL BLVD. N.E.

ENGINEERING FIRM: LEVI J. VALDEZ, P.E. GEORGE T. RODRIGUEZ DEVELOPMENT CONSULTANT CONTACT: MR. VALDEZ MR. RODRIGUEZ

ADDRESS: 12800 SAN JUAN N.E. 87123 PHONE: 294-0320

OWNER: RAY KO CONTACT: MR. KO

ADDRESS: 4208 MENAUL BLVD. N.E. PHONE: \_\_\_\_\_

ARCHITECT: N/A CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

SURVEYOR: TORRES SURVEYING Co. CONTACT: MR. JIM TORRES

ADDRESS: 1570 BRIDGE BLVD. S.W. 87105 PHONE: 220-9213

CONTRACTOR: ARMOUR PAVEMENT, INC CONTACT: MR. HARRY KOLENC

ADDRESS: 10306 2ND ST. N.W. 87114 PHONE: 897-8190 EXT. 11

TYPE OF SUBMITTAL:

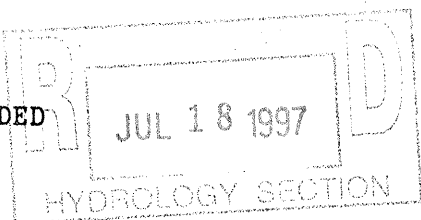
- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER "AS-BUILT" DRAINAGE PLAN

CHECK TYPE OF APPROVAL SOUGHT:

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- SUBDIVISION CERTIFICATION
- OTHER \_\_\_\_\_ (SPECIFY)

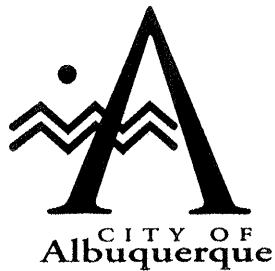
PRE-DESIGN MEETING:

- YES
- NO
- COPY PROVIDED



DATE SUBMITTED: July 17, 1997

BY: GEORGE T. RODRIGUEZ



Martin J. Chávez, Mayor

July 21, 1997

Levi J. Valdez  
George Rodriguez Development Consultant  
12800 San Juan NE  
Albuquerque, New Mexico 87123

RE: PAVING @ KO PALACE RESTAURANT (H17-D55) ENGINEER'S STAMP DATED  
7/18/97


Dear Mr. Valdez:

Based on the information provided on your July 18, 1997 submittal, the above referenced site is approved for a Paving Permit.

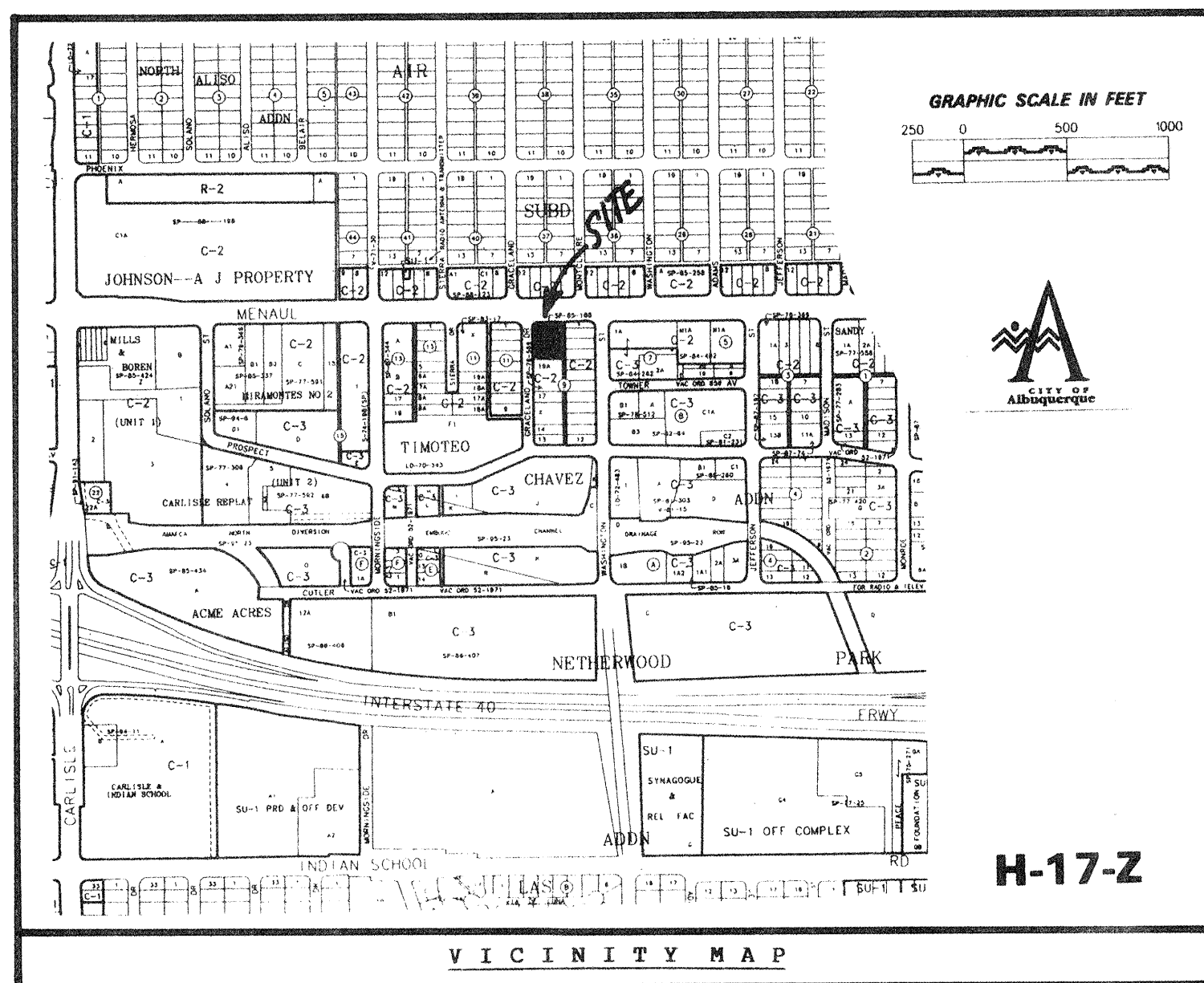
If I can be of further assistance, please feel free to contact me 924-3986.

C: Andrew Garcia  
File

Sincerely

  
Bernie J. Montoya CE  
Associate Engineer





H-17-Z

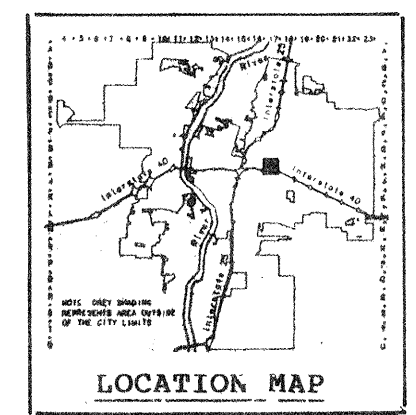
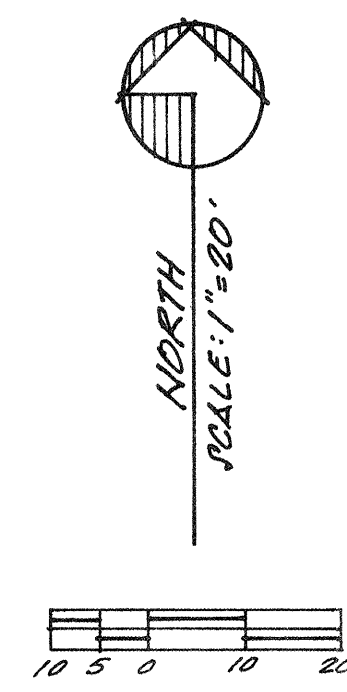


TABLE A-10. PEAK INTENSITY (IN/HR at  $t_c = 0.2$  hour)

Zone	Intensity [2-YR, 10-YR]
1	4.70 [1.84, 3.14]
2	5.05 [2.04, 3.41]
3	5.38 [2.21, 3.85]
4	5.61 [2.34, 3.83]

TABLE A-9. PEAK DISCHARGE (cfs/acre)

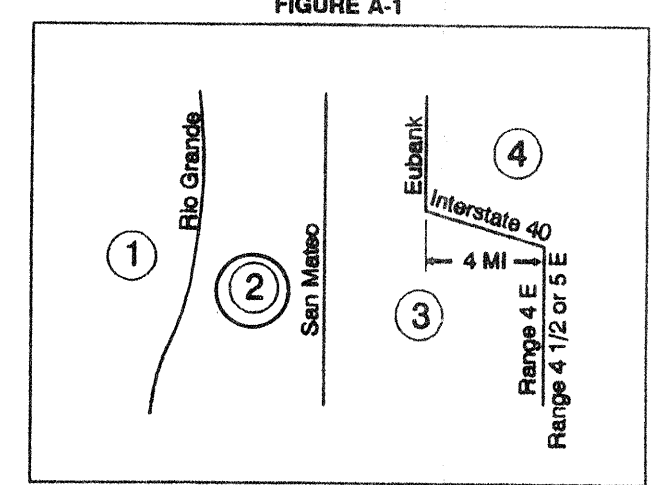
Zone	Treatment [2-YR, 10-YR]			
	A	B	C	D
1	1.28 [0.00, 0.24]	2.03 [0.03, 0.79]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56 [0.00, 0.38]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
4	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.57]

A.1 PRECIPITATION ZONES

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

TABLE A-1. PRECIPITATION ZONES

Zone	Location
1	West of 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.

TABLE A-4. LAND TREATMENTS

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 at 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.

MENAU BLVD. N.E.

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1930 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.

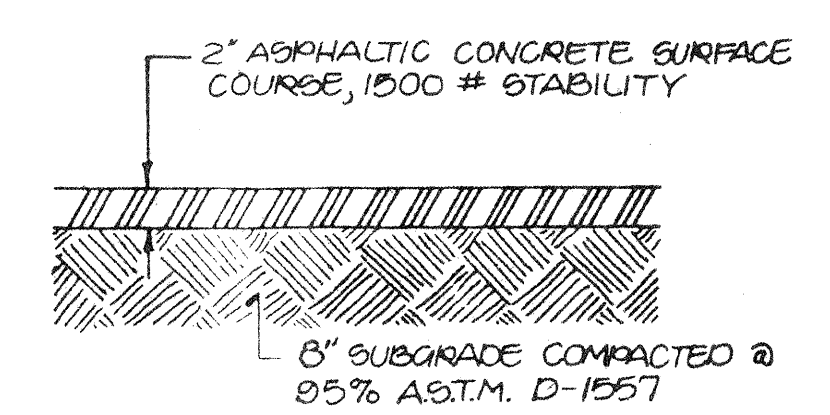
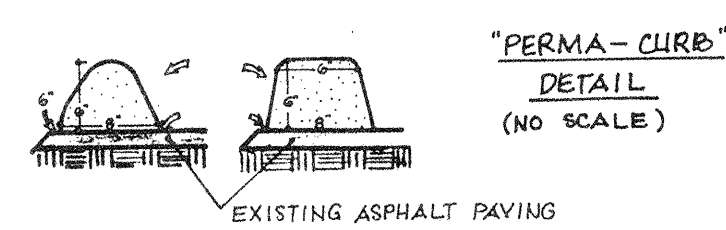
EROSION CONTROL MEASURES:

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.

TECHNICAL SPECIFICATIONS FOR "PERMA-CURBS" :

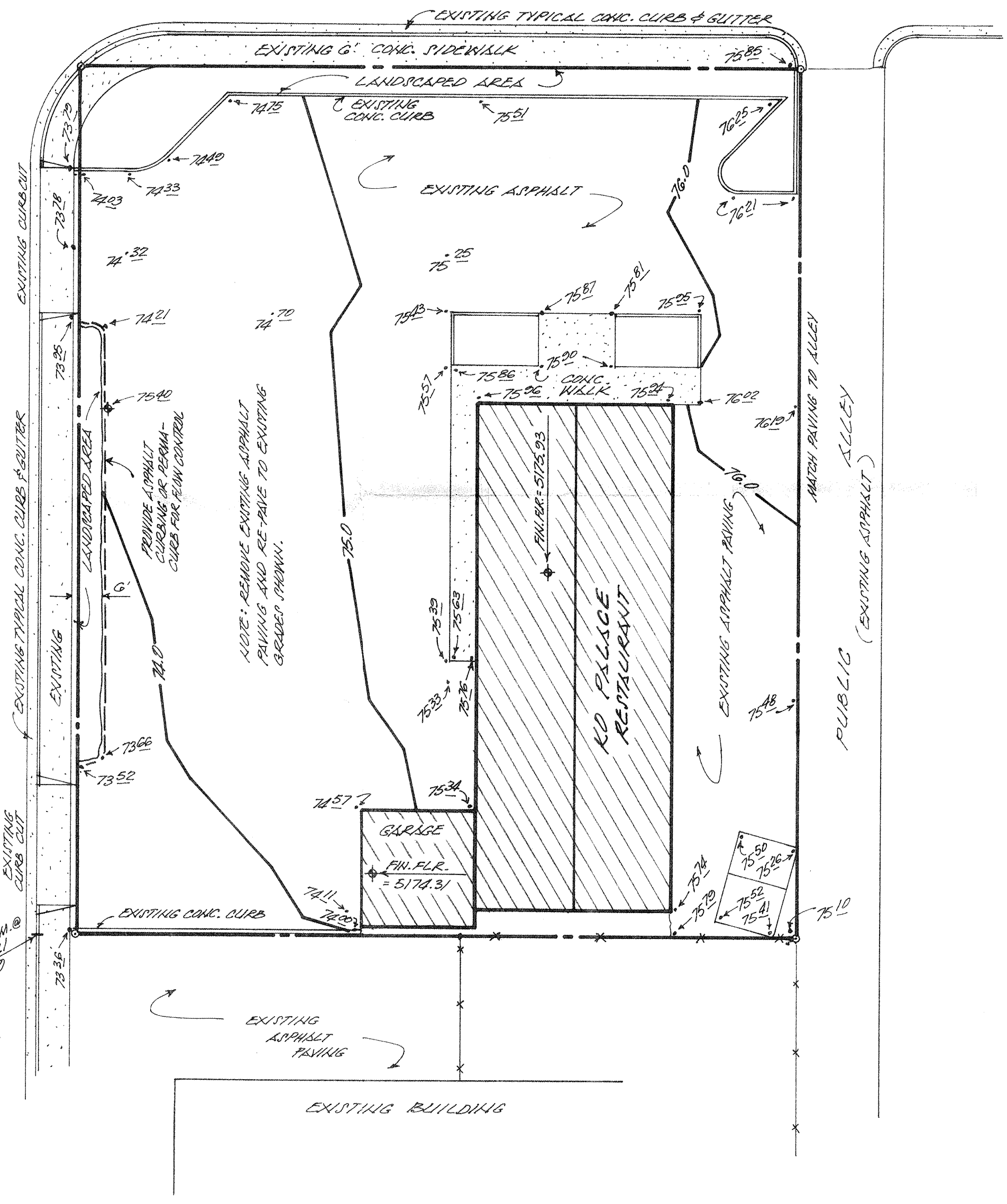
CURBS SHALL BE MACHINE EXTRUDED PERMA-CURB OF THE SHAPE AND DIMENSIONS TO SUITE CLIENT REQUIREMENTS. THE CONCRETE USED FOR PERMA-CURB SHALL BE A SPECIAL NO SLUMP, DESIGN MIX ATTAINING APPROXIMATELY 3,500 LB. STRENGTH IN 28 DAYS. PERMA-CURBS SHALL BE A DENSE, UNIFORM TEXTURE. COLD JOINTS SHALL BE INSTALLED EVERY 15 LINEAL FEET. PERMA-CURBS SHALL IMMEDIATELY BE SPRAYED WITH SEALER TO ATTAIN THE MAXIMUM MOISTURE RETENTION. PERMA-CURBS SHALL BE BONDED TO ASPHALT AND/OR CONCRETE SURFACES WITH EPOXY RESIN OR CSS 1 BITUMENS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS, TO ASSURE A STRONG MOISTURE PROOF BOND. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE.



TYPICAL PAVEMENT SECTION  
SCALE: 1" = 1'-0"

LEGEND:

- TOP OF CURB ELEVATION = 72+74.75
- CURB FLOWLINE ELEVATION = 72+72.50
- EXISTING SPOT ELEVATION = 74.21
- PROPOSED SPOT ELEVATION = 74.30
- EXISTING CHAIN LINK FENCE = ————



GENERAL NOTES:

- TOPOGRAPHY SURVEY PROVIDED BY TORRES SURVEYING COMPANY, ALBUQUERQUE, NEW MEXICO.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROJECT SITE.

DRAINAGE COMMENTS AND CALCULATIONS :

AS SHOWN ON THE VICINITY MAP HEREBON, THE SUBJECT SITE IS LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF MENAU BLVD. N.E. AND GRACELAND DRIVE N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

THE PROPOSED PROJECT FOR THIS SITE CONSISTS OF REMOVING THE EXISTING NEW ASPHALT PAVING THAT WAS CONTAMINATED AND REPLACING SAID ASPHALT WITH NEW ASPHALT PAVEMENT THROUGHOUT THE EXISTING PARKING AREA; THERE WILL BE NO INCREASE OF FLOWS GENERATED BY DOING SO.

THE SUBJECT SITE, 1.) DOES NOT LIE WITHIN A DESIGNATED FLOODPLAIN, 2.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 3.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 4.) IS ALLOWED TO CONTINUE FREE DISCHARGE OF DEVELOPED FLOWS THROUGH THE EXISTING DRIVEPADS AND INTO GRACELAND DRIVE N.E. AS IS EXISTING.

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: 0.56 ACRE  
PRECIPITATION ZONE: TWO (2), TABLE A-1  
PEAK INTENSITY: IN./HR. AT  $T_c =$  TWELVE (12) MINUTES, 100-YR. = 5.05, TABLE A-10  
LAND TREATMENT METHOD FOR CALCULATION OF "Q<sub>p</sub>", TABLES A-8 & A-9  
"LAND TREATMENT FACTORS", TABLE A-4

EXISTING AND PROPOSED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.02	X 3.14	= 0.06
D	0.54	X 4.70	= 2.54

"Q<sub>p</sub>" = 2.60 CFS

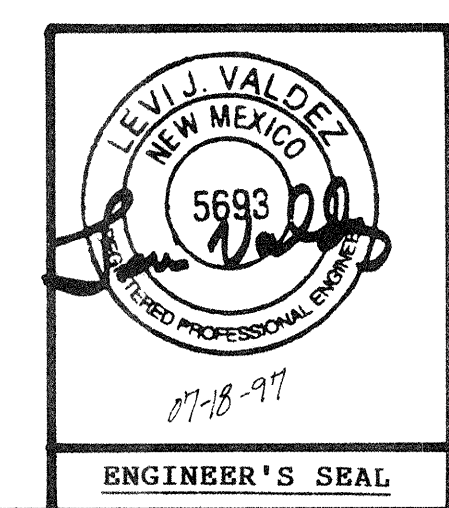
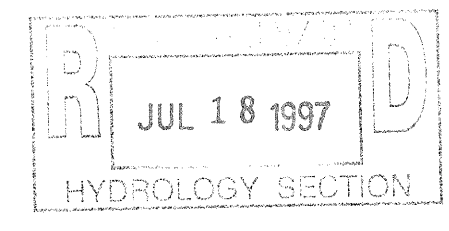
\*\*\* NO INCREASE OF FLOWS.

LEGAL DESCRIPTION:

TRACT "A", IN BLOCK NINE (9), OF THE TIMOTRO CHAVEZ ADDITION, TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

A.C.S. STATION "5-H-17", LOCATED AT THE INTERSECTION OF MENAU BLVD. AND GRACELAND DRIVE N.E.; M.S.L.D. ELEVATION = 5174.25; PROJECT T.B.M. AS SHOWN ON THE PLAN HEREBON.



AN "AS-BUILT" DRAINAGE PLAN  
OF PARKING AREA FOR  
KO PALACE  
(4208 MENAU BLVD. N.E.)  
ALBUQUERQUE, NEW MEXICO  
JULY, 1997