

September 8, 1998

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

RE: REVISED DRAINAGE PLAN FOR BOB'S BURGER @ EUBANK (K20-D49)  
REVISION DATED 8/20/98

Dear Mr. Valdez:

Based on the information provided on your August 24, 1998 resubmittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.


Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required and also Work Order acceptance for the alley improvements.

The proposed sidewalk culvert within the alley section will be part of the W.O., therefore eliminating the SO 19 process.

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

C: Andrew Garcia  
File

Sincerely

  
Bernie J. Montoya CE  
Associate Engineer

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Good for You, Albuquerque!



PROJECT TITLE: BOB'S BURGER - EUBANK ZONE ATLAS/DRNG. FILE #: K-20/D49  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
 LEGAL DESCRIPTION: LOTS "24-A", 21 & 22, BLK. 24, BUENA VENTURA SUBDIVISION  
 CITY ADDRESS: 305 EUBANK N.E., CITY 87123  
 ENGINEERING FIRM: LEVI J. VALDEZ, P.E. CONTACT: MR. VALDEZ  
GEORGE T. RODRIGUEZ MR. RODRIGUEZ  
DEVELOPMENT CONSULTANT  
 ADDRESS: 12800 SAN JUAN N.E., CITY 87123 PHONE: 294-0320  
 OWNER: BOB'S BURGER CONTACT: \_\_\_\_\_  
 ADDRESS: ALBUQUERQUE, NEW MEXICO PHONE: \_\_\_\_\_  
 ARCHITECT: RICK BENNETT ARCHITECT CONTACT: RICK BENNETT  
 ADDRESS: 1118 PARK AVE. S.W., CITY 87102 PHONE: 242-1859  
 SURVEYOR: TORRES SURVEYING CO. CONTACT: MR. JIM TORRES  
 ADDRESS: TIJERAS, NEW MEXICO PHONE: 220-9213  
 CONTRACTOR: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT  
☒ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☒ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION  
☐ OTHER \_\_\_\_\_

PRE-DESIGN MEETING:

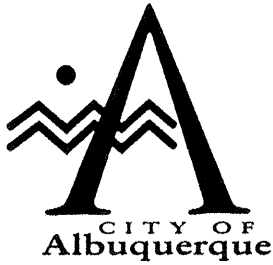
- ☒ YES  
☐ NO  
☐ COPY PROVIDED

**RECEIVED**  
**AUG 24 1998**  
**HYDROLOGY SECTION**

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)

DATE SUBMITTED: August 24, 1998  
 BY: GEORGE T. RODRIGUEZ



October 6, 1998

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

RE: ENGINEER CERTIFICATION FOR BOB'S BURGERS @ EUBANK (K20-D49)  
CERTIFICATION STATEMENT DATED 10/3/98

Dear Mr. Valdez:

Based on the information provided on your October 5, 1998 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the final Certificate of Occupancy will not be released until the alley design and alley improvements are completed and certified.

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

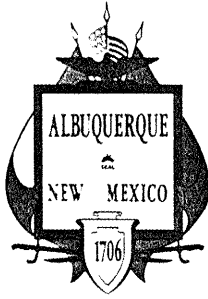
C: Andrew Garcia  
Rick Bennett  
Jim Rupas  
File

Sincerely

Bernie J. Montoya CE  
Associate Engineer

Good for You, Albuquerque!





# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 25, 1992

Mark Goodwin  
Mark Goodwin & Associates  
P.O. Box 90606  
Albuquerque, NM 87199

RE: ENGINEER CERTIFICATION FOR BURGER KING @ EUBANK NE (K20-D18)  
ENGINEER STATEMENT DATED 11/17/92.

Dear Mr. Goodwin:

Based on the information provided on your November 18, 1992 submittal,  
Engineer 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*  
Bernie J. Montoya, CE  
Engineering Assistant

BJM/d1/WPHYD/7347

xc: Alan Martinez  
File

PUBLIC WORKS DEPARTMENT

## DRAINAGE INFORMATION SHEET

PROJECT TITLE: BURGER KING - EUBANK ZONE ATLAS/DRNG, FILE#: K-20/D18

LEGAL DESCRIPTION: Lot 18, Block 25, Buena Ventura 425 Eubank  
CITY ADDRESS: Eubank at Copper NE

ENGINEERING FIRM: D. Mark Goodwin & Associates, PA CONTACT: Mark Goodwin  
ADDRESS: P.O. Box 90606 Albq., NM PHONE: 828-2200

OWNER: Phillip McCollum CONTACT: Phillip Mc Collum  
ADDRESS: 105 4th Street SW PHONE: 843-9639

ARCHITECT: Design Collaborative Southwest CONTACT: Jeff Seres  
ADDRESS: 105 4th Street SW PHONE: 843-9639

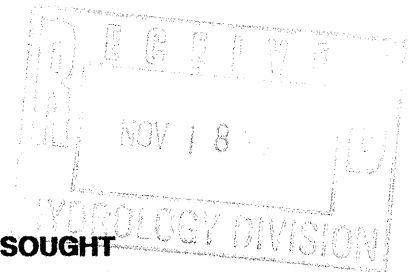
SURVEYOR: D. Mark Goodwin & Associates PA CONTACT: Richard Borgel  
ADDRESS: P.O. Box 90606 PHONE: 828-2200

CONTRACTOR: S & J Enterprises CONTACT: Jerry  
ADDRESS: 3535 Princeton NE PHONE: 884-6234

### 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 PLAN  
☒ ENGINEER'S CERTIFICATION

### TYPE OF APPROVAL SOUGHT

☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE DEVELOPMENT PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☒ CERTIFICATION OF OCCUPANCY APPROVAL  
☐ ROUGH GRADING PERMIT APPROVAL  
☐ GRADING / PAVING PERMIT APPROVAL  
☐ OTHER \_\_\_\_\_

DATE SUBMITTED: November 18, 1992

BY: Mark Goodwin  
Mark Goodwin, P.E.



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 22, 1992

Mark Goodwin  
Mark Goodwin & Associates  
P.O. Box 90606  
Albuquerque, NM 87199

RE: REVISED DRAINAGE PLAN FOR BURGER KING @ EUBANK (K20-D18) REVISION  
DATE 9/11/92.

Dear Mr. Goodwin:

Based on the information provided on your September 11, 1992 resubmittal, the above referenced site is approved for Building Permit.

Also, be advised that prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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

Sincerely,

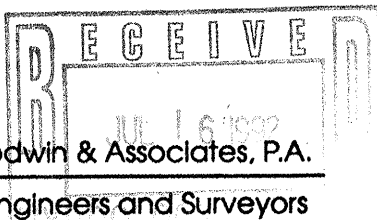
Bernie J. Montoya, CE  
Engineering Assistant

BJM/d1/WPHYD/3623

xc: Alan Martinez  
File



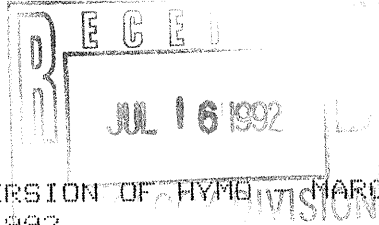
D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors



JOB BURGER KING - EUBANK  
SUBJECT DRAINAGE  
JOB NO. 92-52 SHEET 1 OF 1  
BY JMM DATE 7/14/92  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_

This site presently consists of one structure that occupies the western portion of lots 17, 18 and Tract A of Block 25 in the Buena Ventura Subdivision. On-site runoff generated within lots 17 and 18 is directed into Eubank Blvd. via the existing driveway. This condition shall remain and documentation regarding the cross-lot drainage <sup>agreement</sup> will be submitted at a later date. The existing building on tract A will be removed and replaced by a 3600 sq. ft. restaurant with relatively the same area of landscaping. Run off generated on site will be conveyed out the three existing driveways. The public alley will remain unaltered and continue to convey run off into Copper Ave.

AMAF's most recent version of AHYMO was utilized to determine peak discharge and runoff quantities. Percentages of the pervious and impervious areas were obtained from the City of Albuquerque DPM, Volume 2.



AHYMO PROGRAM (AHYMO392) - AMAFCA VERSION OF HYMO MARCH, 1992  
RUN DATE (MON/DAY/YR) = 07/10/1992  
START TIME (HR:MIN:SEC) = 14:35:31 USER NO.= Z\_GOODWN.592  
INPUT FILE = BURGER.DAT

\*\*\*\*\* WATERSHED HYDROGRAPH FOR BURGER KING AT COOPER & EUBANK

\*\*\*\*\* JULY 1992

RAINFALL TYPE=1 RAIN QUARTER=0.0 IN  
RAIN ONE=2.07 IN RAIN SIX=2.54 IN  
RAIN DAY=3.09 IN DT=0.0333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2

- PEAK AT 1.40 HR.

DT =	.033300 HOURS	END TIME =	5.994000 HOURS
.0000	.0029	.0059	.0090
.0121	.0153	.0186	.0219
.0254	.0289	.0325	.0362
.0478	.0519	.0562	.0605
.0650	.0697	.0745	.0795
.0847	.0900	.0956	.1015
.1076	.1140	.1171	.1207
.1278	.1352	.1410	.1471
.1536	.1671	.1714	.1780
.1848	.1984	.2027	.2071
.2125	.2213	.2259	.2302
.2348	.2442	.2499	.2553
.2606	.2657	.2707	.2755
.2802	.2848	.2892	.2936
.2978	.3020	.3061	.3100
.3139	.3177	.3215	.3252
.3288	.3323	.3358	.3392
.3426	.3459	.3492	.3524
.3556	.3587	.3618	.3648
.3678	.3708	.3737	.3766
.3794	.3822	.3850	.3877
.3904	.3931	.3958	.3984
.4010	.4035	.4061	.4086
.4110	.4135	.4159	.4183
.4207	.4231	.4254	.4278
.4301	.4323	.4346	.4368
.4390	.4412	.4434	.4456
.4477	.4499	.4520	.4541
.4561	.4582	.4603	.4623
.4643	.4663	.4683	.4703
.4722	.4742	.4761	.4780
.4799	.4818	.4837	.4855
.4874	.4892	.4911	.4929
.4947	.4965	.4983	.5001
.5018	.5036	.5053	.5070
.5088	.5105	.5122	.5139
.5155	.5172	.5189	.5205
.5222	.5238	.5254	.5271
.5287	.5303	.5319	.5335
.5350	.5366	.5382	.5397

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.0019 SQ MI  
PER A=0.0 PER B=10.0 PER C=0.0 PER D=90.0  
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE  
CONSTANT, N = 7.106420  
UNIT PEAK = 6.7512 CFS UNIT VOLUME = .9975 B = 526.28  
P60 = 2.0700  
P50 = 1.0400 I



INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT  
= .033300

K = .132811HR TP = .133300HR K/TP RATIO = .996335 SHAPE  
CONSTANT, N = 3.543441  
UNIT PEAK = .46108 CFS UNIT VOLUME = 9714 B = 323.49  
P60 = 2.0700  
AREA = .000190 SQ MI IA = .50000 INCHES INF = 1.25000 I  
NCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT  
= .033300

PRINT HYD

ID=1 CODE=1

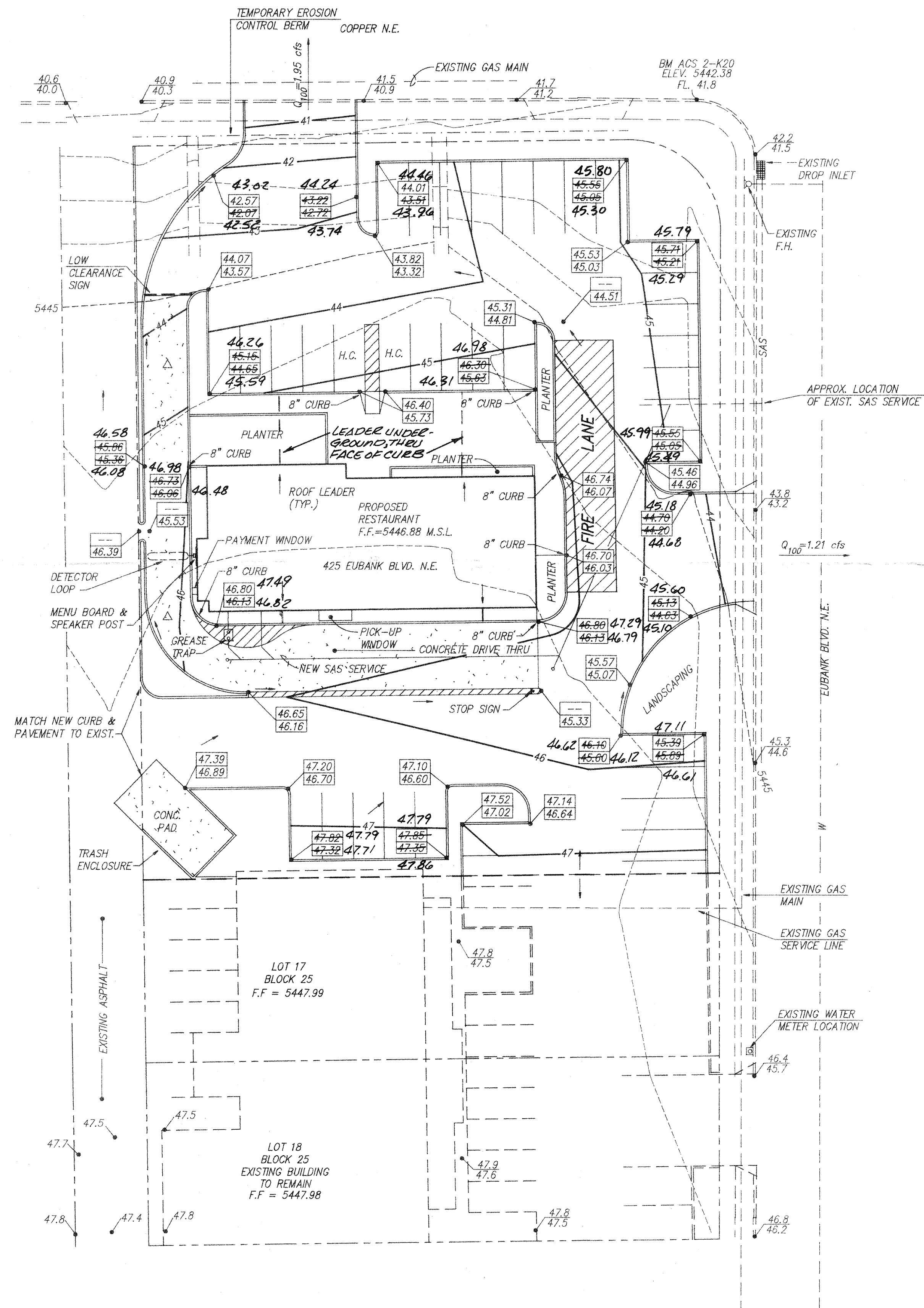
PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 2.15110 INCHES = .2180 ACRE-Feet  
PEAK DISCHARGE RATE = 5.63 CFS AT 1.499 HOURS BASIN AREA =  
.0019 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 14:35:32



UTILITY NOTES:

1. THE EXISTING UTILITY LINES LOCATED ON THIS PLAN ARE APPROXIMATE AND SHOULD BE USED ONLY AS A PRELIMINARY PLANNING GUIDE.
2. LINE SPOTTING BY RESPECTIVE UTILITIES AT THE SITE WILL BE COMPLETED BY 8/04/92.
3. LIGHTING DESIGN AND LAYOUT TO BE PROVIDED BY THE FIXTURE MANUFACTURER SHALL SATISFY FIRE CODE REQUIREMENTS.

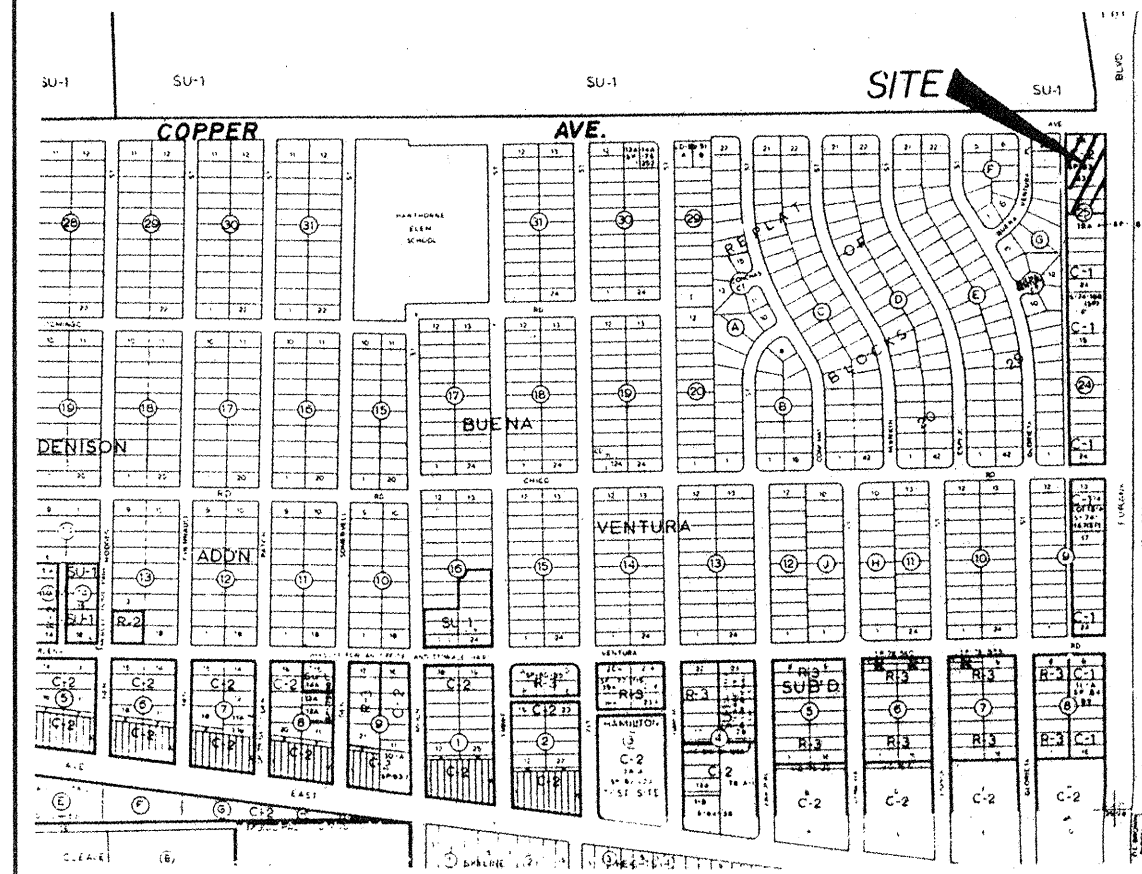
\* DRAINAGE CALCULATIONS

EXISTING CONDITIONS	FUTURE CONDITIONS
A=0.67 Ac.	A=0.67 Ac.
P(100-1)= 2.07 in.	P(100-1)= 2.07 in.
P(100-6)= 2.54 in.	P(100-6)= 2.54 in.
P(100-24)= 3.09 in.	P(100-24)= 3.09 in.
DT=0.0333 hr.	DT=0.0333 hr.
Tp=0.1333 hr.	Tp=0.1333 hr.
Q(100-6)= 3.16 cfs	Q(100-6)= 3.16 cfs
VOL(100-6)= 0.286 Ac.Ft.	VOL(100-6)= 0.286 Ac.Ft.
* UTILIZING THE MOST RECENT AMAFCA VERSION OF HYMO (AHYMO 392)	

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the Contractor, S & J Enterprises, Inc. and by the Surveyor, S & J Enterprises, Inc., and reflects the construction as actually accomplished. This plan as constructed is in close compliance with the Approved Plan.

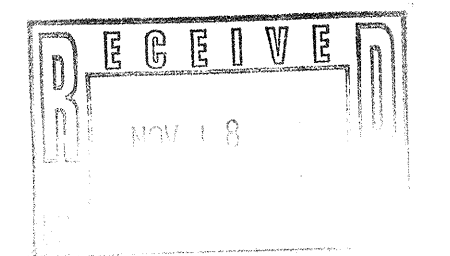
Mark Goodwin, NMPE 8948



VICINITY MAP ZONE MAP: K-20-Z

ACS BENCHMARK

2-K20, LOCATED AT THE INTERSECTION OF EUBANK & COPPER N.E., IN THE SOUTHWEST QUADRANT OF THE INTERSECTION. A SQUARE CHISELED ON THE W.S.W. CURB RETURN. ELEVATION = 5442.385



LEGAL DESCRIPTION

TRACT A, LOTS 17 & 18, BLOCK 25, BUENA VENTURA SUBDIVISION

NOTES

1. 8" CURB AROUND ENTIRE PROPOSED BUILDING PERIMETER EXCEPT WHERE NOTED.
2. SITE DOES NOT LIE WITHIN A FLOOD ZONE.
3. TOPOGRAPHIC SURVEY PERFORMED BY D. MARK GOODWIN & ASSOCIATES ON 7/92.
4. A TEMPORARY EROSION CONTROL BERM SHALL BE CONSTRUCTED ALONG THE NORTHERN PROPERTY LINE.
5. OFF-SITE FLOWS DO NOT IMPACT THIS SITE.
6. TRANSITION FROM 8" CURB HEIGHTS TO STANDARD 6" CURB HEIGHTS SHALL BE PROVIDED OVER A MIN. DISTANCE OF 15'.

LEGEND

- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- EXISTING CURB
- ROOF LEADER
- NEW CONTOUR
- NEW SPOT ELEVATIONS
- DRAINAGE BOUNDARY
- CONCRETE

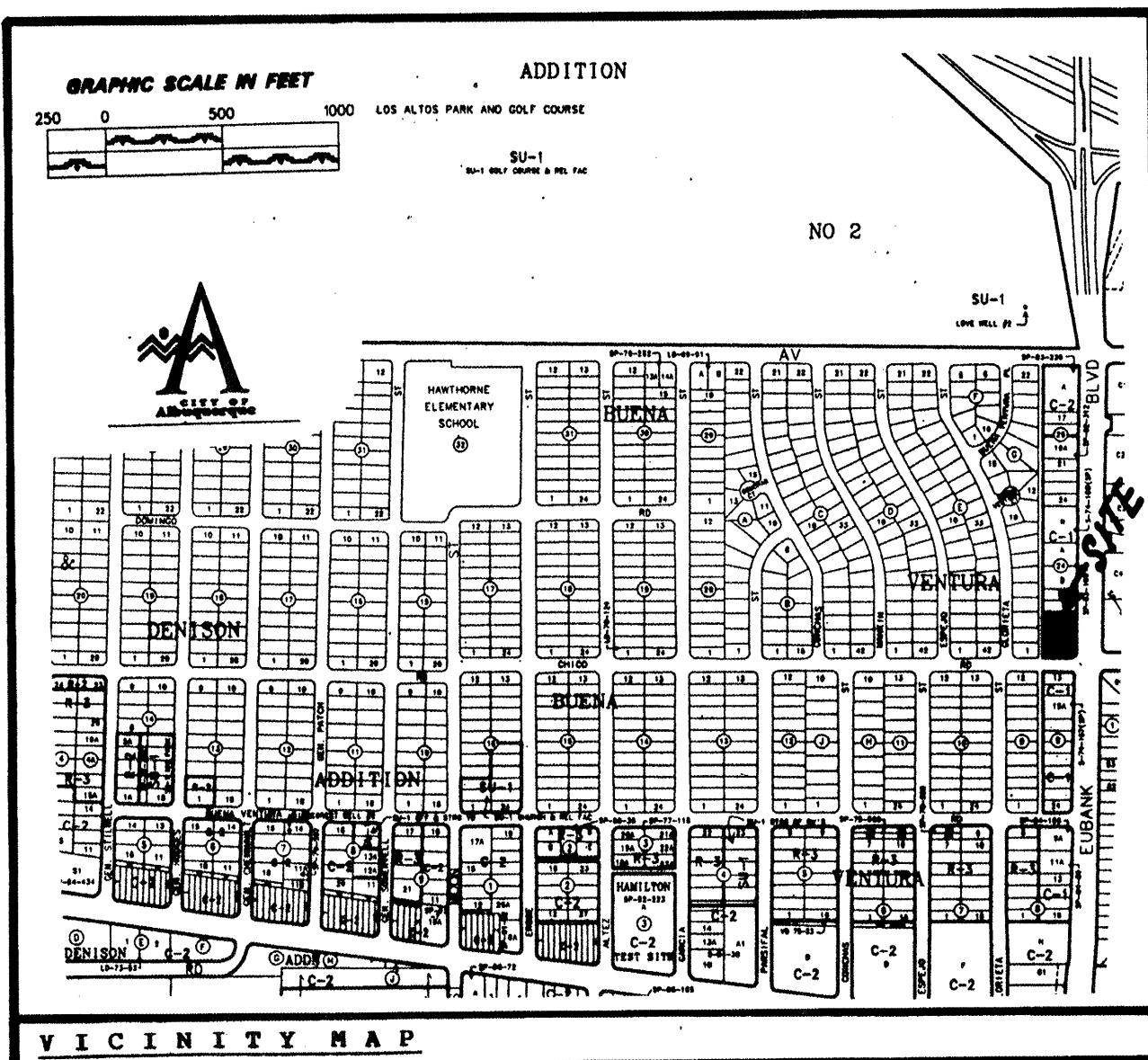
BURGER KING RESTAURANT  
GRADING & DRAINAGE PLAN

dmg D. MARK GOODWIN & ASSOCIATES, P.A.  
CONSULTING ENGINEERS & SURVEYORS  
P.O. BOX 90606  
ALBUQUERQUE, NEW MEXICO 87199  
(505) 828-2200

Designed: JMM	Drawn: STAFF	Checked: DMG	Sheet 1 of 1
Scale: 1"=20'	Date: 7/92	Job: 9252	

SCALE: 1"=20'  
BKR/GD20





K-20-Z

#### 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.

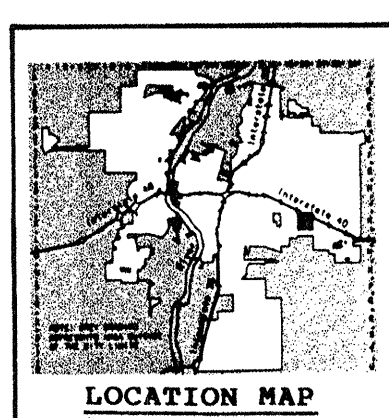
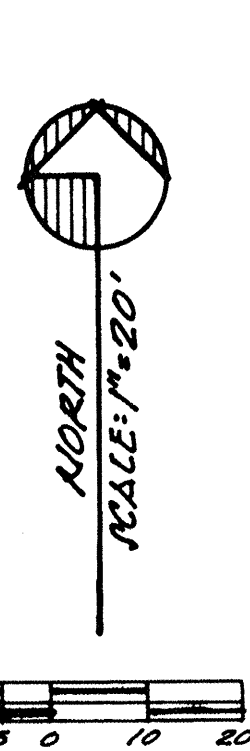
#### NOTICE TO CONTRACTOR:

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (765-1234) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		

#### CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OR SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) 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 ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.



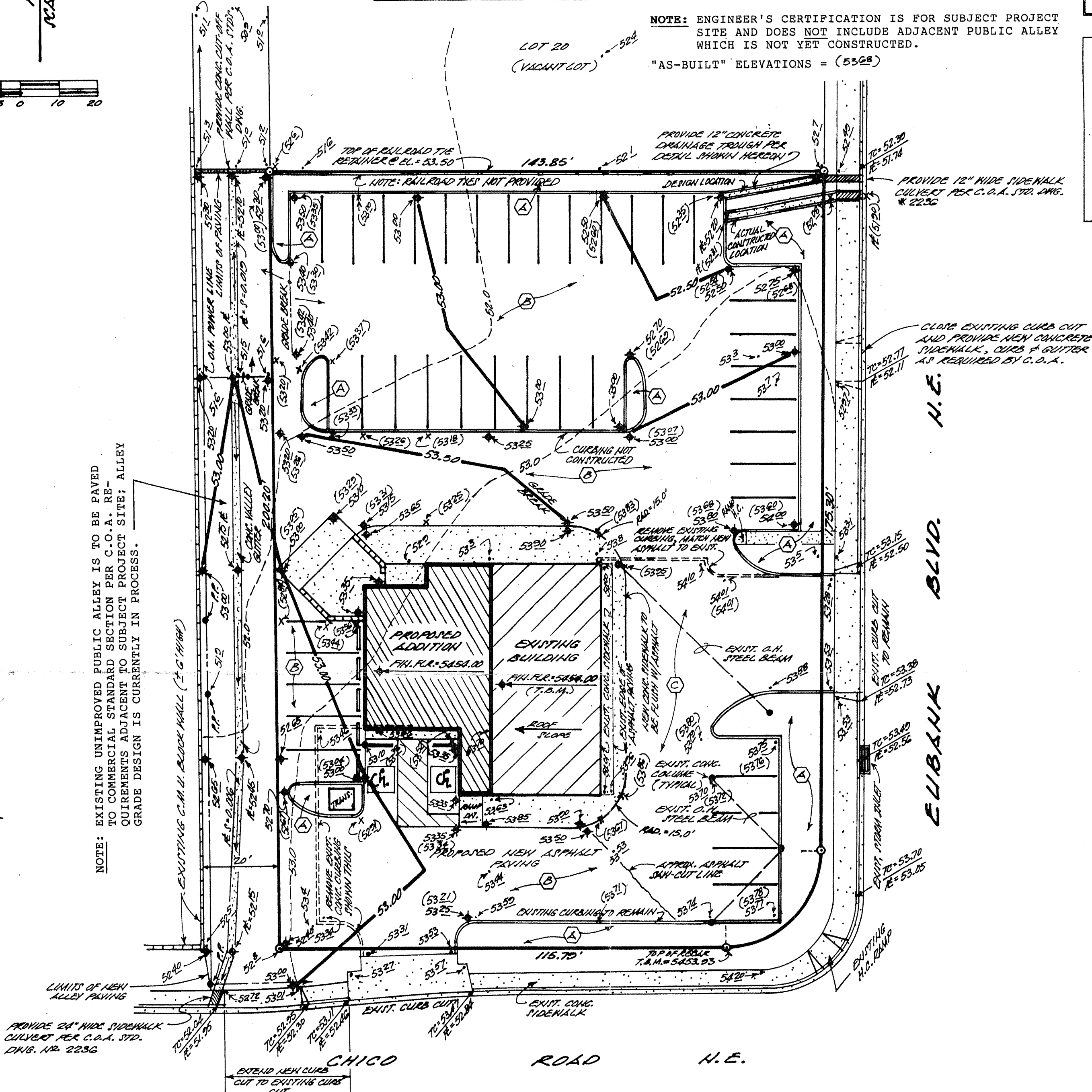
#### ENGINEER'S CERTIFICATION:

I, LEVI J. VALDEZ, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 5693, LICENSED AND REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT AN ACTUAL ON THE GROUND FIELD SURVEY OF THE GRADES OF THE NEW IMPROVEMENTS SHOWN HEREON VERIFY THAT SAID IMPROVEMENTS WERE CONSTRUCTED IN "SUBSTANTIAL COMPLIANCE" WITH THE APPROVED DRAINAGE PLAN FOR SAID SITE.

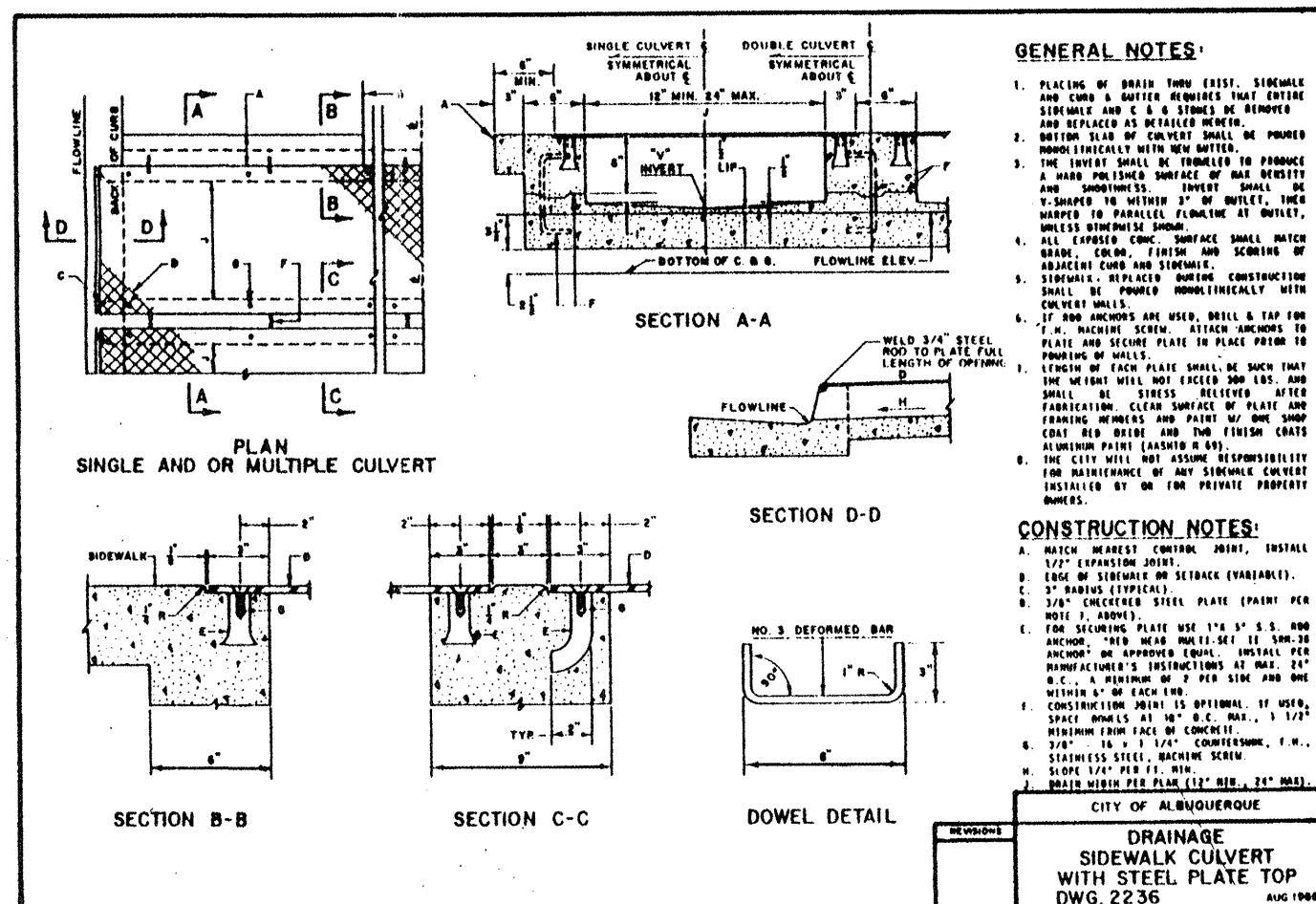
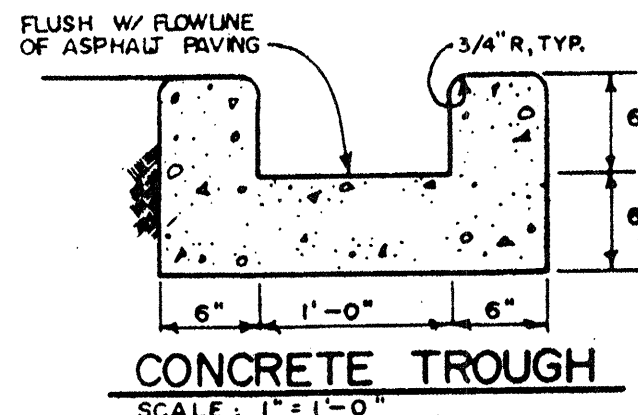


NOTE: ENGINEER'S CERTIFICATION IS FOR SUBJECT PROJECT SITE AND DOES NOT INCLUDE ADJACENT PUBLIC ALLEY WHICH IS NOT YET CONSTRUCTED.

"AS-BUILT" ELEVATIONS = (53.25)



- LANDSCAPED AREA PER ARCHITECT'S SITE PLAN
- PROPOSED NEW ASPHALT PAVED AREA, (REFER TO "ARCHITECT'S SITE PLAN" FOR PAVING AND CURBING DETAILS).
- EXISTING ASPHALT PAVING TO REMAIN; CONTRACTOR TO SAW-CUT EXISTING ASPHALT PAVING WHERE DESIRED AND/OR REMOVE EXISTING CONCRETE CURBING AND MATCH NEW ASPHALT PAVING TO EXISTING PAVING.

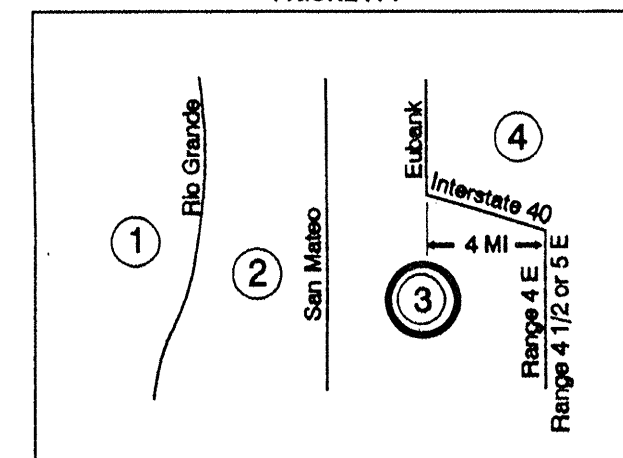


#### A.1 PRECIPITATION ZONES

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

FIGURE A-1



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

#### DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF EUBANK BLVD. N.E. AND CHICO AVENUE N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "K-20-Z").

THE SUBJECT SITE, 1.) IS PRESENTLY A PARTIALLY DEVELOPED COMMERCIAL PROPERTY, 2.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN, 3.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 4.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 5.) IS NOT LOCATED ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 6.) IS TO HAVE A PROPOSED "BOB'S BURGER" RESTAURANT AND ASSOCIATED IMPROVEMENTS CONSTRUCTED THEREON.

#### 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: 0.65 ACRES

PRECIPITATION ZONE: THREE (3), TABLE A-1.

PEAK INTENSITY: IN./HR. AT  $T_c$  = TWELVE (12) MINUTES, 100-YR. = 5.38

LAND TREATMENT METHOD FOR CALCULATION OF " $Q_p$ ", TABLES A-8 & A-9.

"LAND TREATMENT FACTORS", TABLE A-4.

#### EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	FACTORS	CFS
C	0.40	X 3.45	= 1.38
D	0.25	X 5.02	= 1.26

" $Q_p$ " = 2.64 CFS

#### PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	FACTOR	CFS
C	0.06	X 3.45	= 0.21
D	0.59	X 5.02	= 2.96

" $Q_p$ " = 3.17 CFS

\*\*\* INCREASE = 0.53 CFS

#### LEGAL DESCRIPTION:

LOTS NUMBERED 21, 22, AND 24-A, IN BLOCK NUMBERED TWENTY-FOUR (24), OF THE BUENA VENTURA SUBDIVISION, A SUBDIVISION TO THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

#### BENCH MARK REFERENCE:

ACS STATION "10-K20", LOCATED AT THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE INTERSECTION OF EUBANK BLVD. N.E. AND CHICO AVENUE N.E.; M.S.L.D. ELEVATION = 5454.32, (PROJECT T.B.M. AS SHOWN ON THE PLAN HEREON).

#### GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT PROPERTY OTHER THAN THOSE SHOWN ON THE PLAN HEREON.
- REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT DIMENSIONS OF THE PROPOSED IMPROVEMENTS.
- TOPOGRAPHY SURVEY INFORMATION PROVIDED BY TORRES SURVEYING COMPANY, TIJERAS, NEW MEXICO.

#### LEGEND:

TOP OF CURB ELEVATION = 70'-52.77  
CURB FLOWLINE ELEVATION = 6'-52.11  
EXISTING SPOT ELEVATION = 54.21  
EXISTING CONTOUR ELEVATION = 52.0  
PROPOSED SPOT ELEVATION = 53.02  
PROPOSED CONTOUR ELEVATION = 53.0  
PROPOSED OR EXISTING CONCRETE SURFACE = 53.0  
EXISTING FENCE LINE OR BLOCK WALL =

ENGINEER'S CERTIFICATION

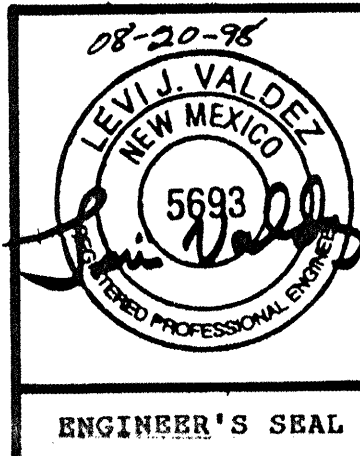
A PROPOSED GRADING-DRAINAGE PLAN

FOR

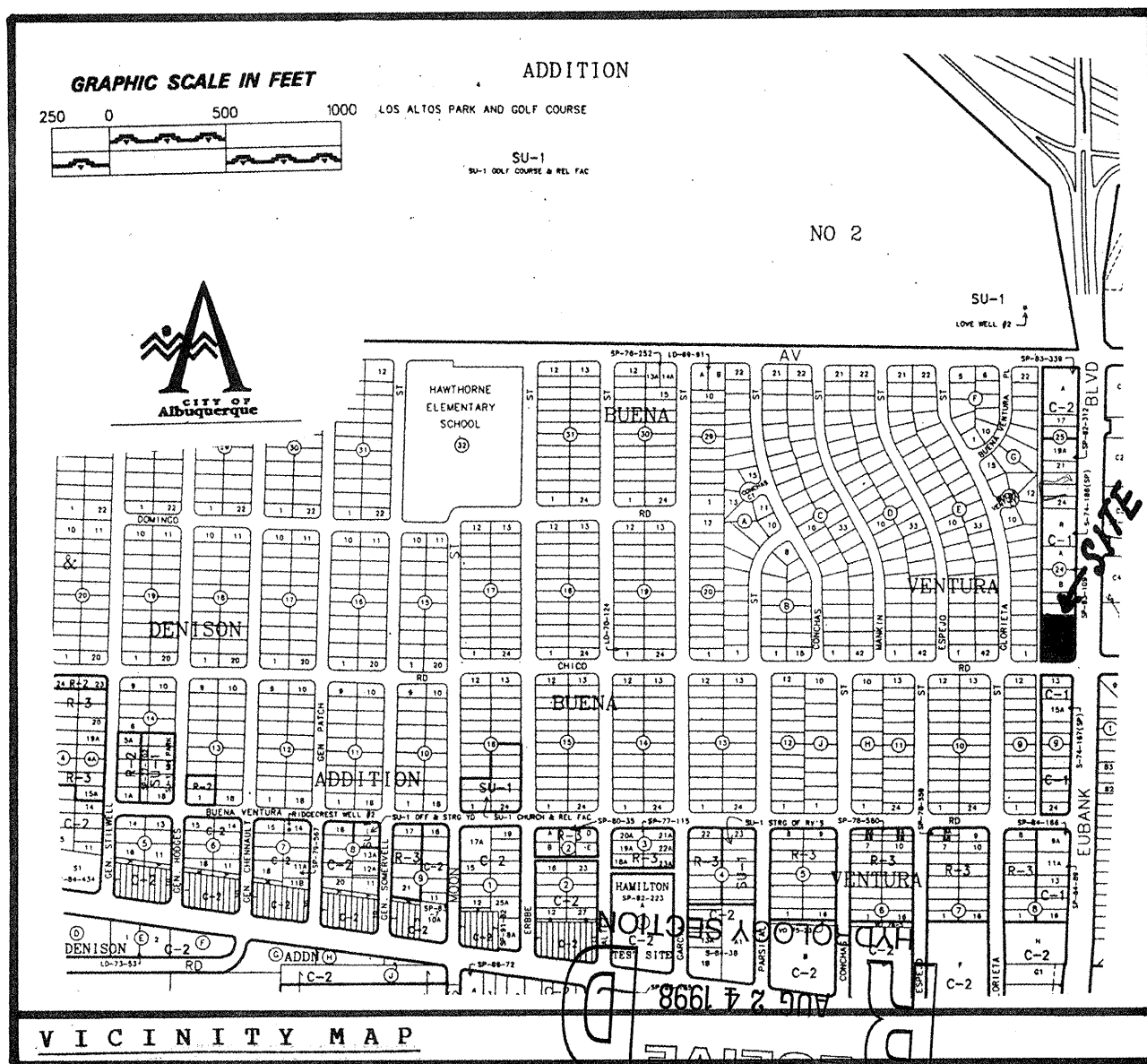
BOB'S BURGER  
(305 EUBANK BLVD. N.E.)  
ALBUQUERQUE, NEW MEXICO

AUGUST, 1998  
(CERTIFICATION: OCTOBER, 1998)

RECEIVED  
OCT 05 1998  
HYDROLOGY SECTION







#### 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.

#### NOTICE TO CONTRACTOR:

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THIS PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION OF THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATION - PUBLIC WORKS CONSTRUCTION - 1985.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (765-1234) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		

#### CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR THE ACTUAL FIELD LOCATION OF THE EXISTING SURFACE OR SUB-SURFACE UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION(S) 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 ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC STREET RIGHT-OF-WAY(S) SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.

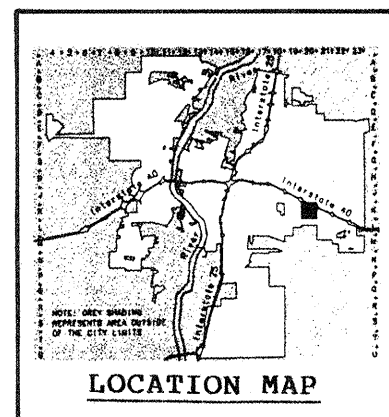
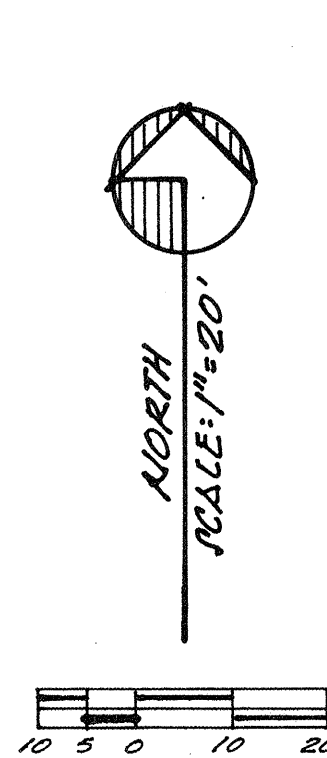


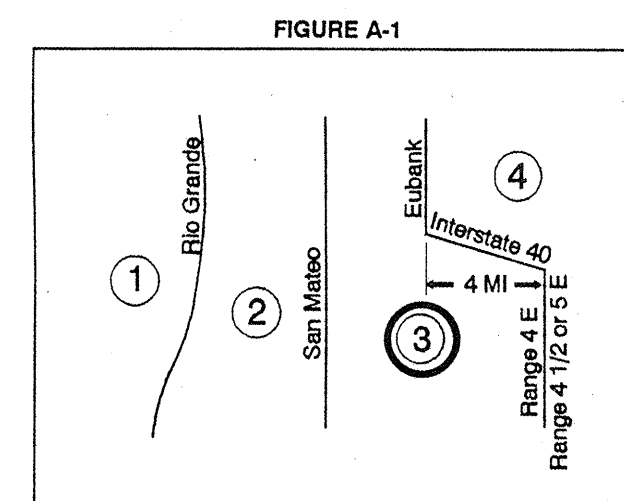
TABLE A-10. PEAK INTENSITY (INHR at $t_c = 0.2$ hour)		
Zone	Intensity	100-YR [2-YR, 10-YR]
1	4.70 [1.84, 3.14]	
2	5.95 [2.04, 3.41]	
3	5.38 [2.21, 3.65]	
4	5.61 [2.34, 3.83]	

TABLE A-9. PEAK DISCHARGE (cfs/acre)				
Zone	Treatment			
	A	B	C	D
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	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]	3.22 [0.36, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.57]

#### A1 PRECIPITATION ZONES

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

TABLE A-1. PRECIPITATION ZONES	
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.

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January, 1993  
Page A-4

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.

#### DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF EUBANK BLVD. N.E. AND CHICO AVENUE N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP "K-20-Z").

THE SUBJECT SITE, 1.) IS PRESENTLY A PARTIALLY DEVELOPED COMMERCIAL PROPERTY, 2.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN, 3.) DOES NOT CONTRIBUTE TO THE OFFSITE FLOWS OF ADJACENT PROPERTIES, 4.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 5.) IS NOT LOCATED ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 6.) IS TO HAVE A PROPOSED "BOB'S BURGER" RESTAURANT AND ASSOCIATED IMPROVEMENTS CONSTRUCTED THEREON.

#### 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: 0.65 ACRE

PRECIPITATION ZONE: THREE (3), TABLE A-1.

PEAK INTENSITY: IN./HR. AT  $T_c$  = TWELVE (12) MINUTES, 100-YR. = 5.38

LAND TREATMENT METHOD FOR CALCULATION OF " $Q_p$ ", TABLES A-8 & A-9.

"LAND TREATMENT FACTORS", TABLE A-4.

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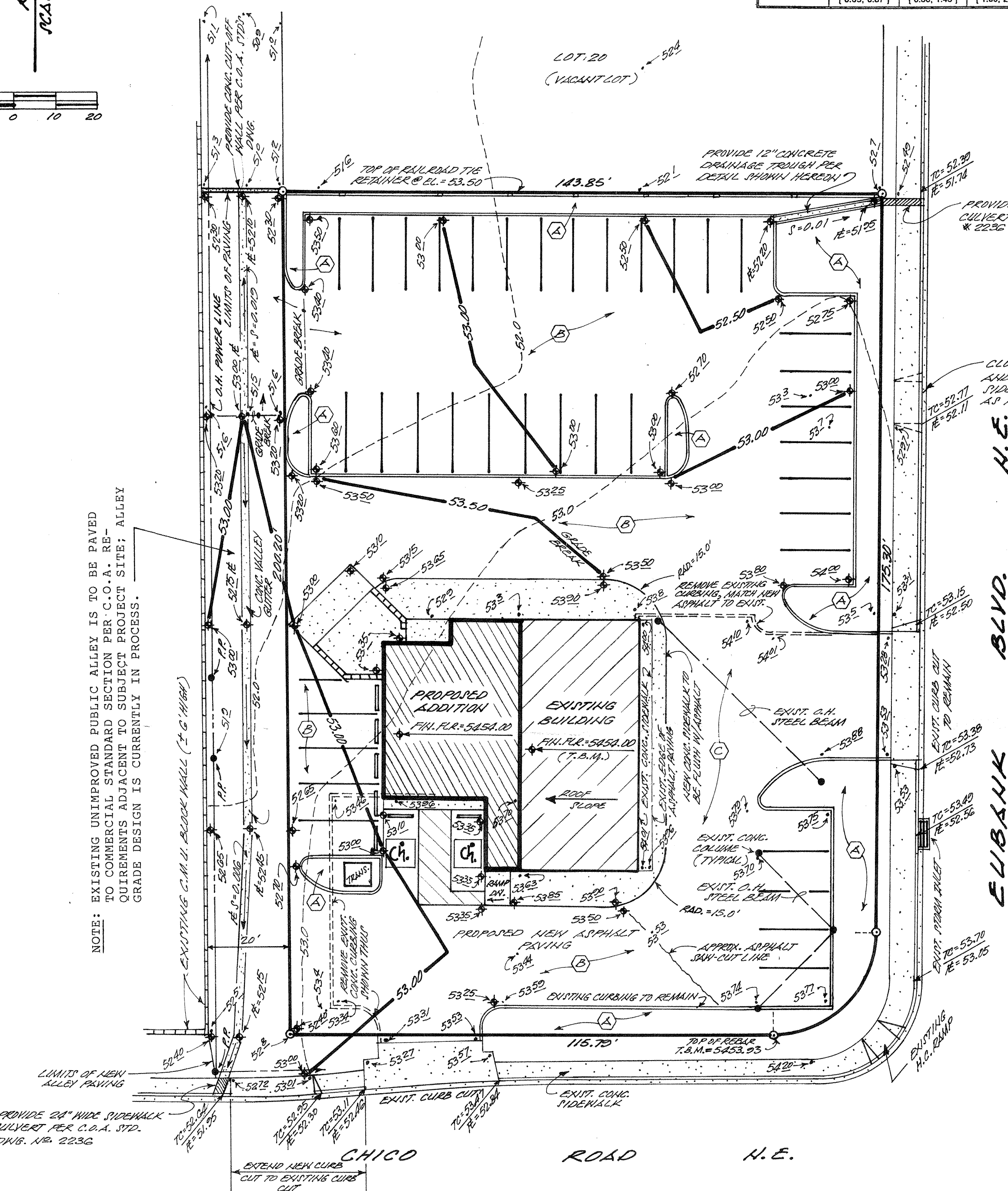
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#### GENERAL NOTES:

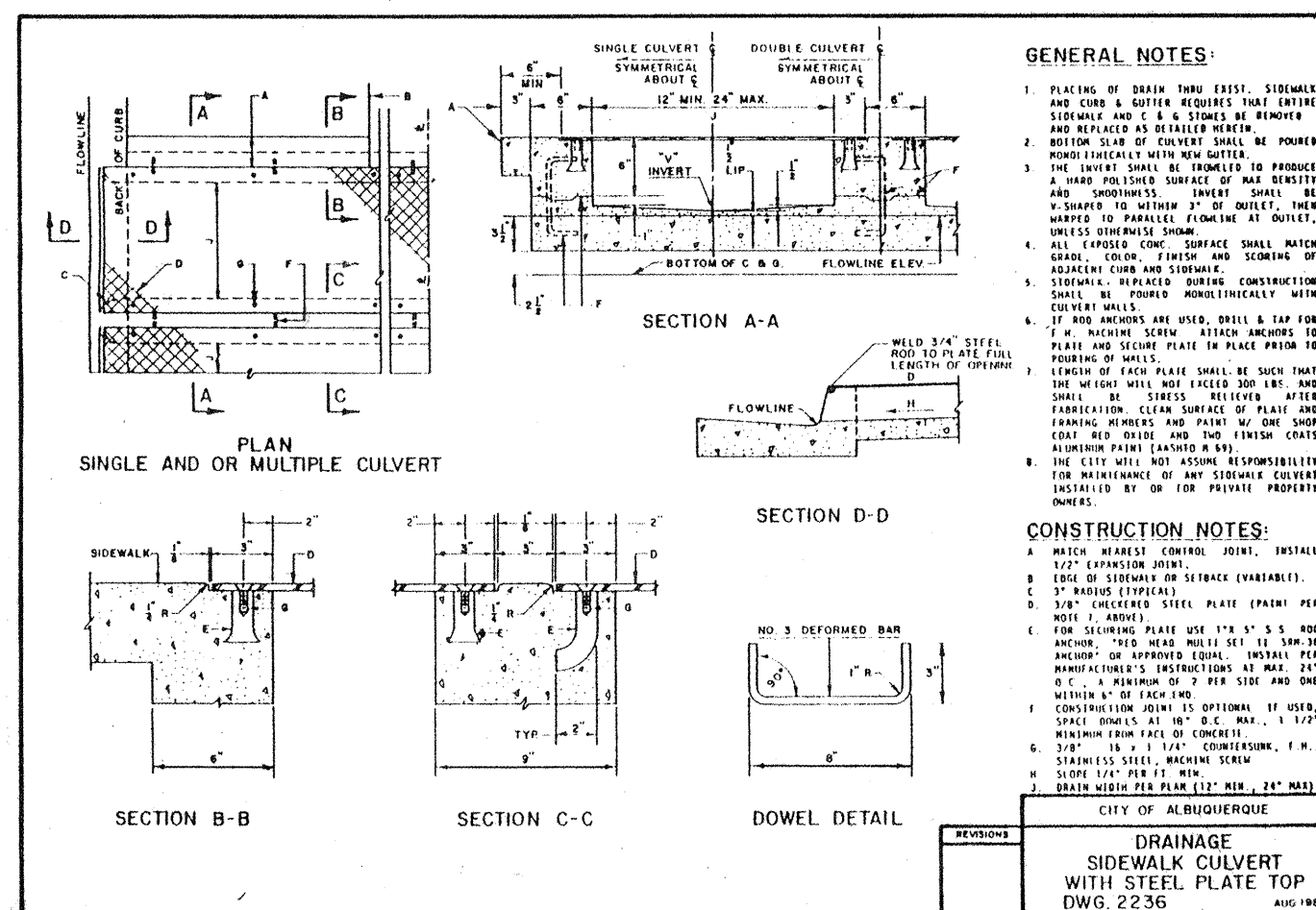
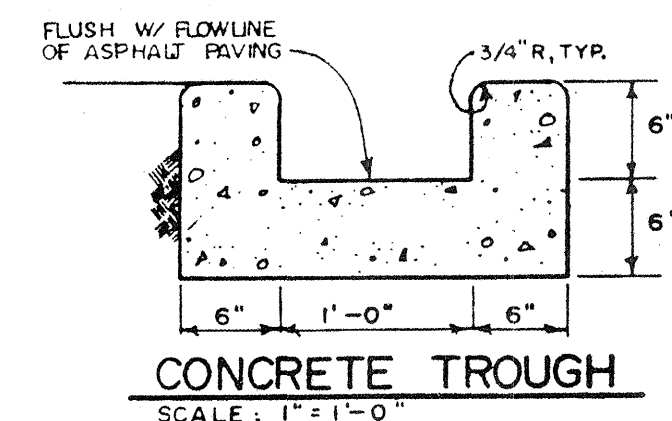
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- TOPOGRAPHY SURVEY INFORMATION PROVIDED BY TORRES SURVEYING, COMPANY, TIERRAS, NEW MEXICO.

#### LEGEND:

TOP OF CURB ELEVATION = 70-52.77  
CURB FLOWLINE ELEVATION = 70-52.11  
EXISTING SPOT ELEVATION = 70-52.00  
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PROPOSED SPOT ELEVATION = 70-53.00  
PROPOSED CONTOUR ELEVATION = 70-53.00  
PROPOSED OR EXISTING CONCRETE SURFACE = 70-53.00  
EXISTING FENCE LINE OR BLOCK WALL = 70-53.00



- LANDSCAPED AREA PER ARCHITECT'S SITE PLAN
- PROPOSED NEW ASPHALT PAVED AREA, (REFER TO "ARCHITECT'S SITE PLAN" FOR PAVING AND CURBING DETAILS).
- EXISTING ASPHALT PAVING TO REMAIN; CONTRACTOR TO SAW-CUT EXISTING ASPHALT PAVING WHERE DESIRED AND/OR REMOVE EXISTING CONCRETE CURBING AND MATCH NEW ASPHALT PAVING TO EXISTING PAVING.



#### GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE/BERNALILLO COUNTY STANDARDS AND PROCEDURES.
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RECEIVED  
AUG 24 1998  
HYDROLOGY SECTION

A PROPOSED GRADING-DRAINAGE PLAN  
FOR  
BOB'S BURGER  
(305 EUBANK BLVD. N.E.)  
ALBUQUERQUE, NEW MEXICO  
AUGUST, 1998

ENGINEER'S SEAL