

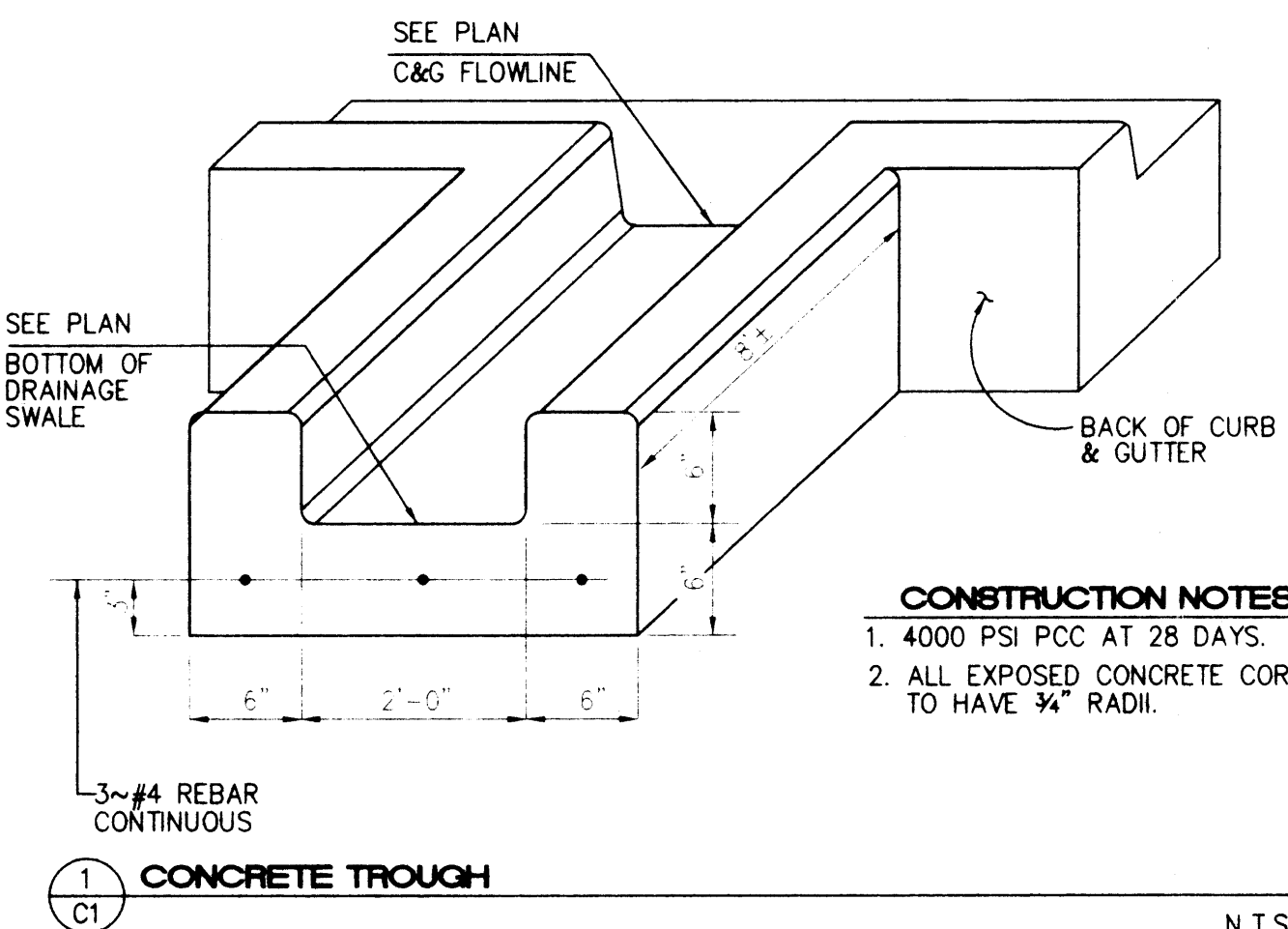
	KEYED NOTES
1	NEW ASPHALT TO MATCH EXISTING.
2	CURB AND GUTTER FLUSH THIS AREA.
3	2' WDE CURB CUT.
4	CONCRETE RUNDOWN PER 1/C1.
5	INSTALL 24" SIDEWALK CULVERT PER COA STD. 2236.
6	ROOF DRAIN.

 **CHAVEZ • GRIEVES**  
CONSULTING ENGINEERS, INC.  
5619 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109  
PHONE (505) 344-4080 • FAX (505) 343-8759









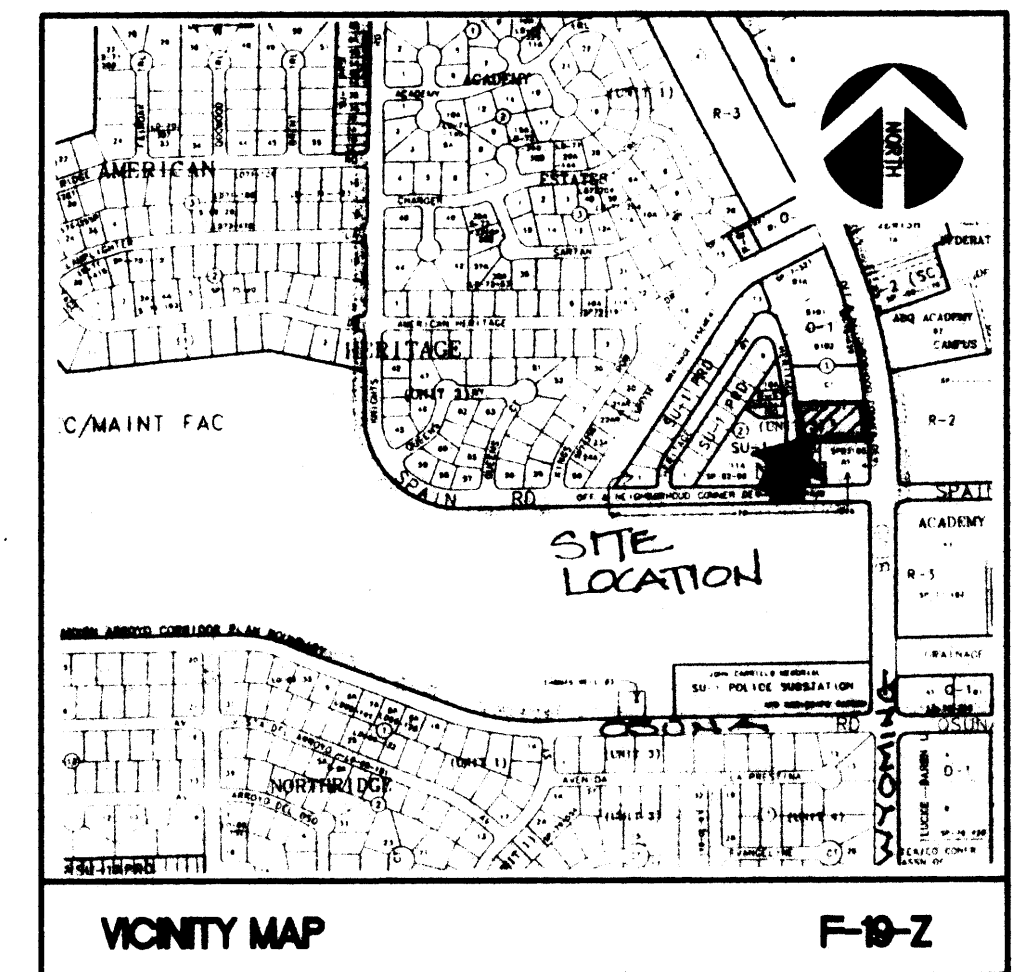
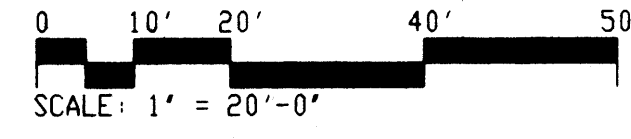
**CONSTRUCTION NOTES**  
 1. 4000 PSI PCC AT 28 DAYS.  
 2. ALL EXPOSED CONCRETE CORNERS TO HAVE 3/4" RADII.

### GRADING AND DRAINAGE PLAN

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
  - BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
  - TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
  - SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
  - IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
  - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

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

- KEYED NOTES**
- NEW ASPHALT TO MATCH EXISTING.
  - CURB AND GUTTER FLUSH THIS AREA.
  - 2' WIDE CURB CUT.
  - CONCRETE RUNDOWN PER 1/C1.
  - INSTALL 24" SIDEWALK CULVERT PER COA STD. 2236.
  - ROOF DRAIN.



### LEGAL DESCRIPTION

TRACT "B" IN BLOCK NUMBERED ONE (1) OF AMERICAN HERITAGE NORTH UNIT 3, A SUBDIVISION OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON MAY 30, 1978, IN MAP BOOK D-8, FOLIO 138.

### BENCHMARK

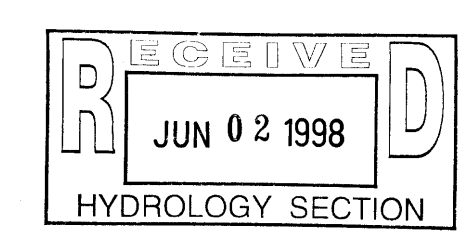
ACS 3-F19AB BRASS TABLET LOCATED ON TOP OF A CONCRETE POST AT THE INTERSECTION OF OSUNA RD. AND WYOMING BLVD. ELEV. = 5440.56'

### SURVEY INFO.

TOPOGRAPHIC SURVEY PERFORMED BY HARRIS SURVEYING, INC. ALBUQUERQUE, NEW MEXICO JANUARY 1996.

### LEGEND

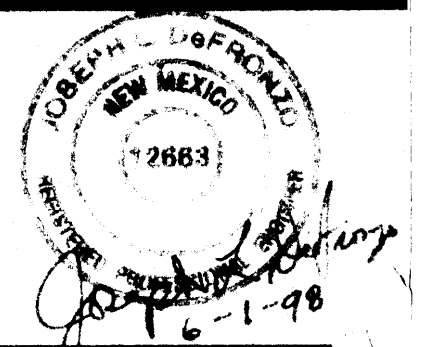
BUILDING	
EXISTING ASPHALT	
CONCRETE	
NEW ASPHALT	
CURB AND GUTTER	
EXISTING CURB AND GUTTER	
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	
EXISTING SANITARY SEWER	
EXISTING WATER LINE	
PROPERTY LINE	
CONTOURS	
BASIN BOUNDARY	
WATER BLOCK	



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 FAX: (505) 321-3880



WYOMING & SPAIN  
 PROPOSED BURGER KING  
 ALBUQUERQUE  
 NEW MEXICO  
 GRADING & DRAINAGE

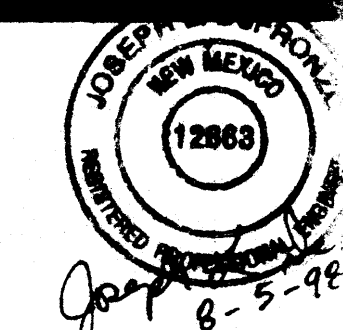
REVISIONS	
JOB NUMBER	9705
DATE	JUNE 1998
SHEET NUMBER	C1





ALBUQUERQUE  
525 SAN PEDRO NE, SUITE 110  
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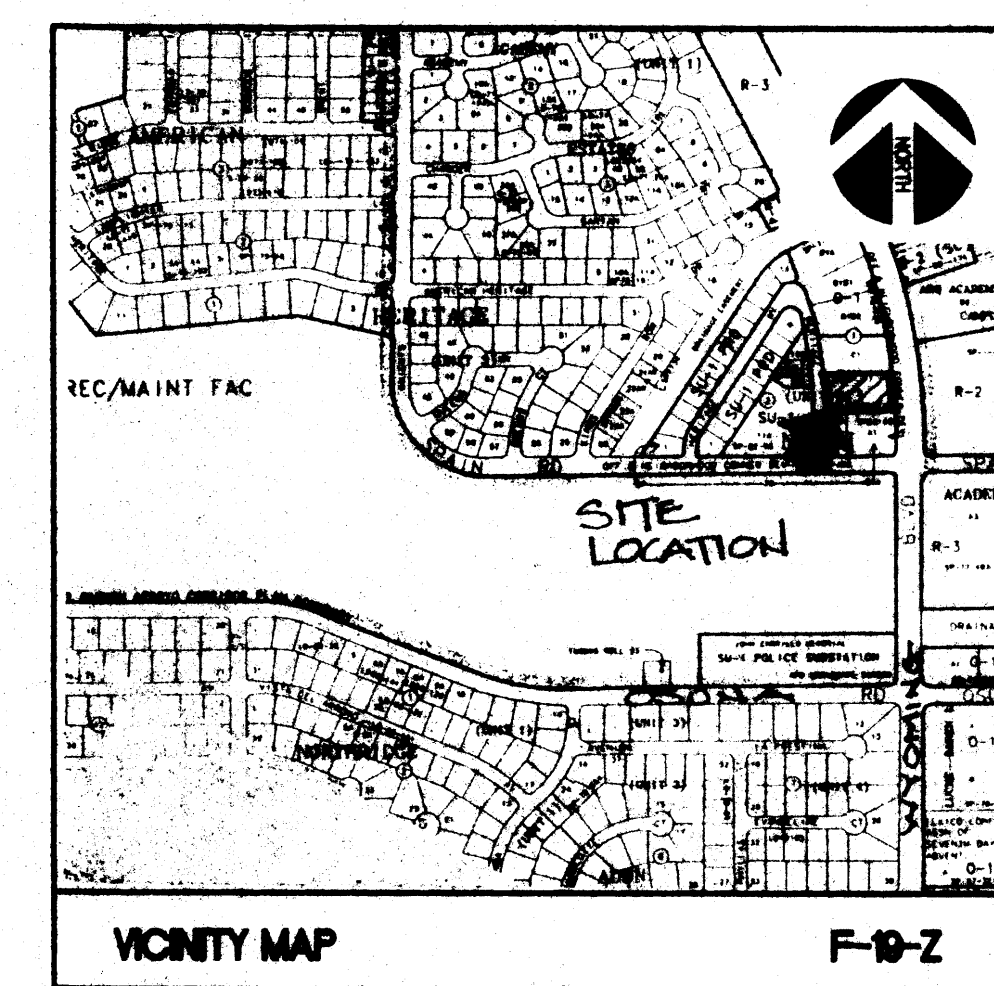
LAS CRUCES  
425-C N. TOLSON, SUITE 203  
LAS CRUCES, NEW MEXICO 88001  
(505) 521-3757  
FAX: (505) 521-3880



WYOMING & SPAIN  
PROPOSED BURGER KING  
ALBUQUERQUE  
NEW MEXICO

REVISIONS	DATE	BY	DESCRIPTION

JOB NUMBER: 9705  
DATE: AUGUST 1998  
SHEET NUMBER: C2



### LEGAL DESCRIPTION

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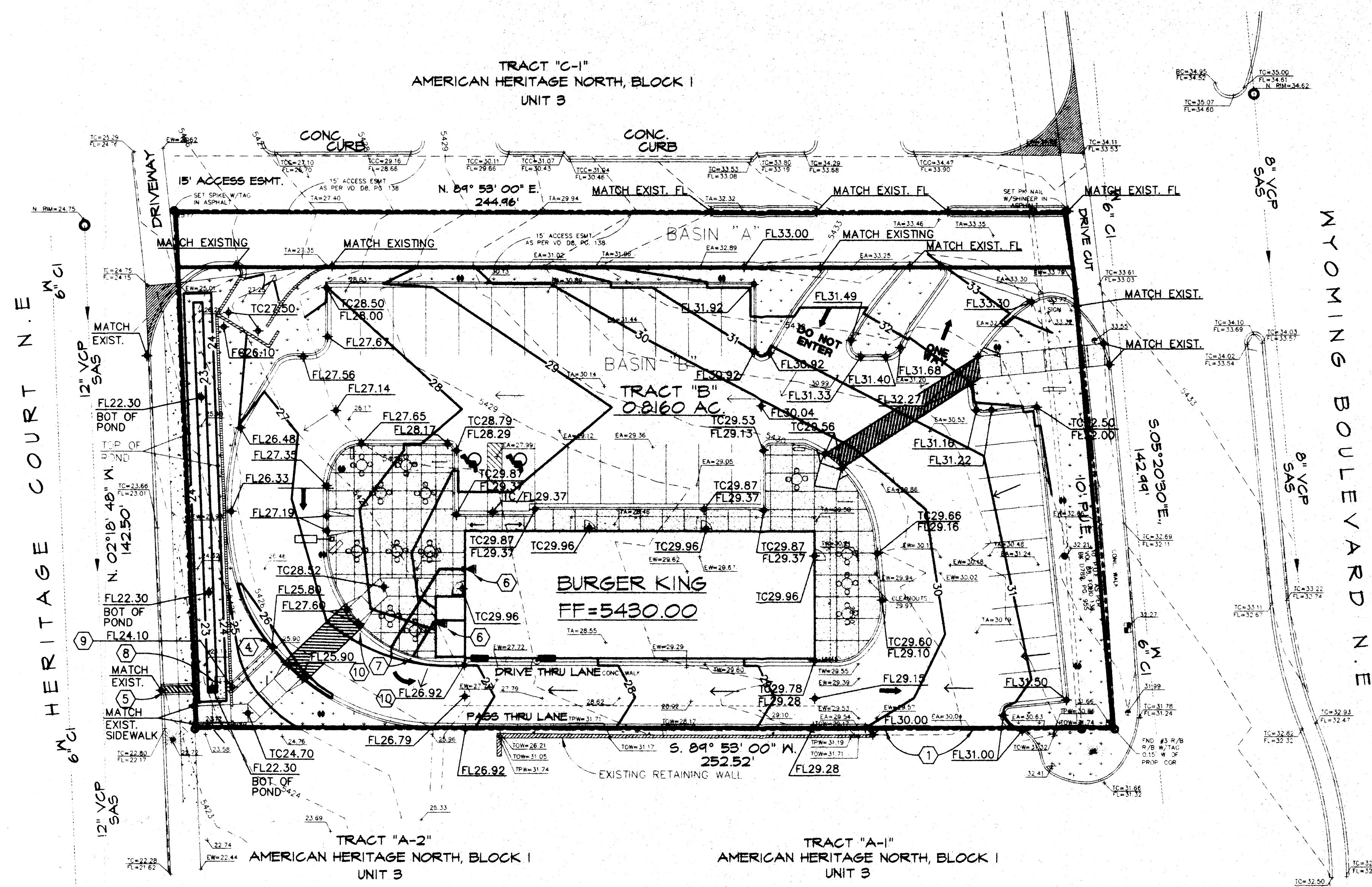
ACS 3-F19AB BRASS TABLET LOCATED ON TOP OF A CONCRETE POST AT THE INTERSECTION OF OSUNA RD. AND WYOMING BLVD. ELEV. = 5440.56'

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### LEGEND

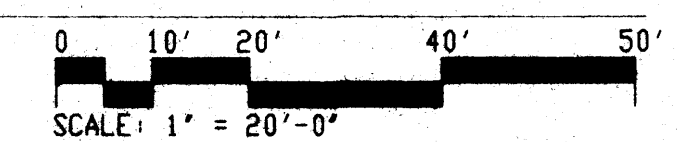
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EXISTING ASPHALT	[Symbol]
CONCRETE	[Symbol]
NEW ASPHALT	[Symbol]
CURB AND GUTTER	[Symbol]
EXISTING CURB AND GUTTER	[Symbol]
EXISTING SPOT ELEVATION	[Symbol] TA=28.55
PROPOSED SPOT ELEVATION	[Symbol] FL28.55
EXISTING SANITARY SEWER	[Symbol] SAS
EXISTING WATER LINE	[Symbol] W
PROPERTY LINE	[Symbol]
CONTOURS	[Symbol] 5192
BASIN BOUNDARY	[Symbol]
WATER BLOCK	[Symbol]
ROOF DRAIN	[Symbol]



## GRADING AND DRAINAGE PLAN

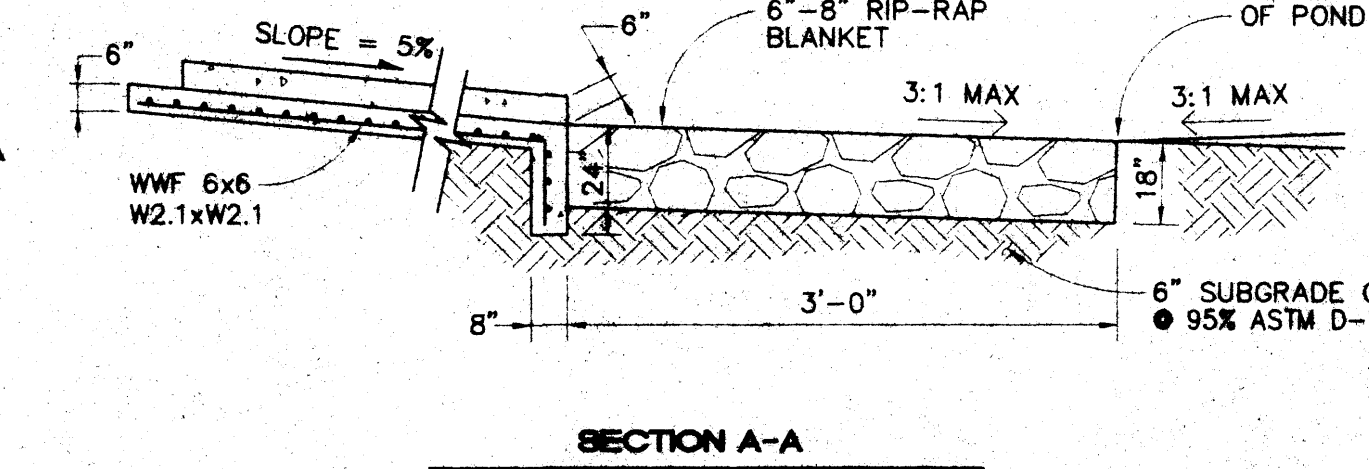
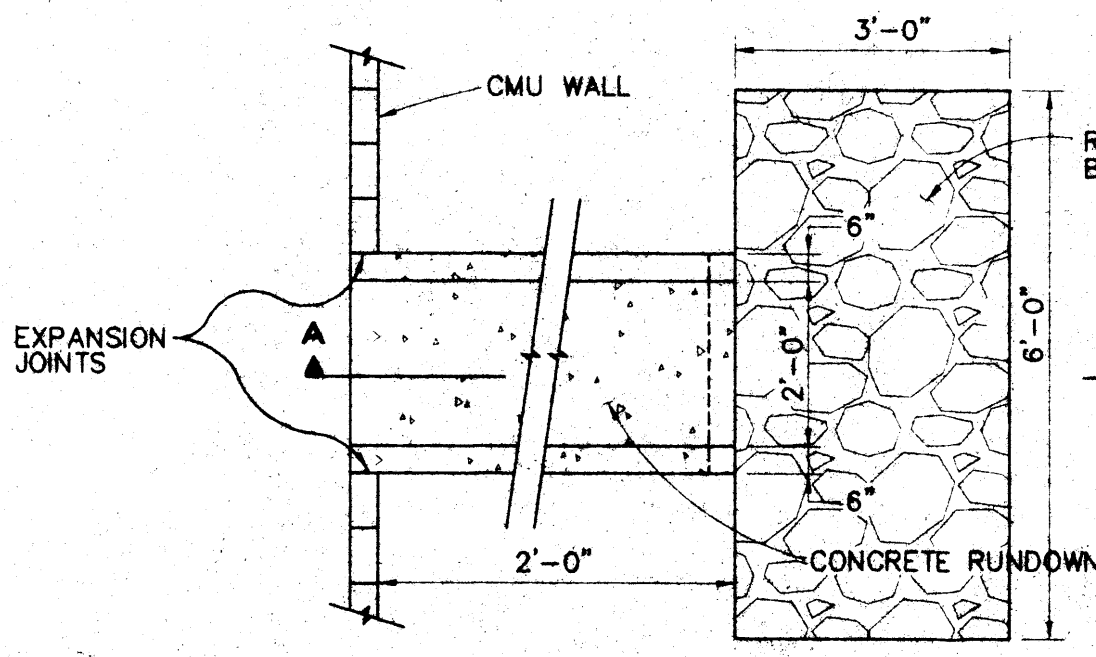
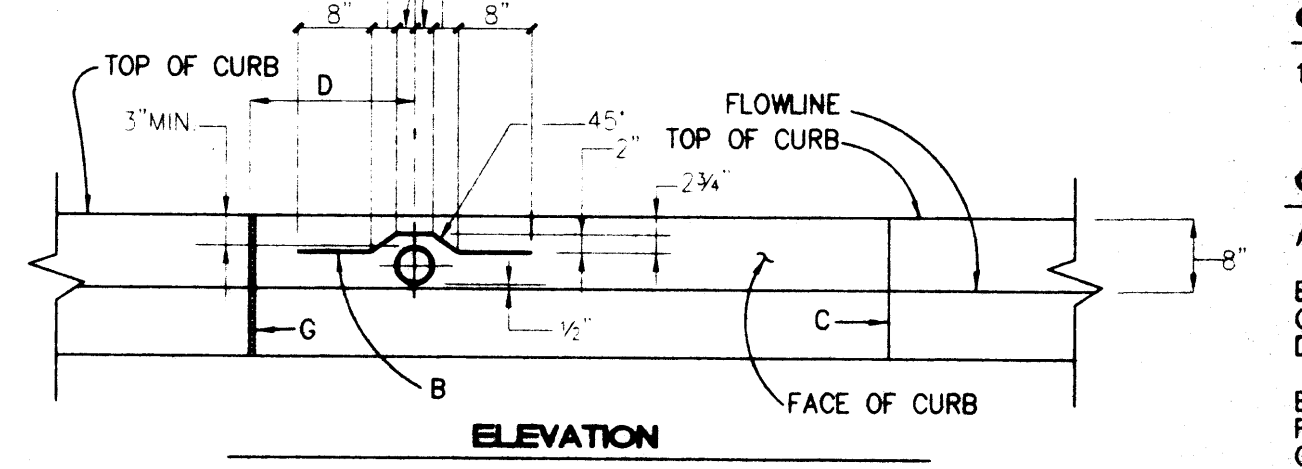
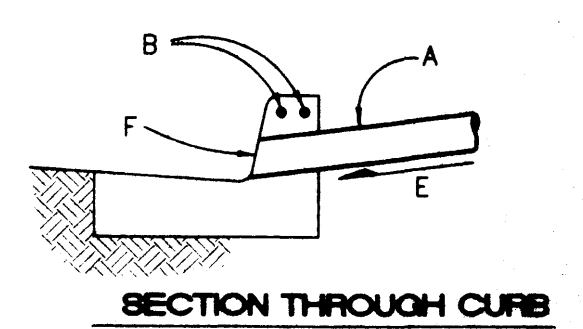
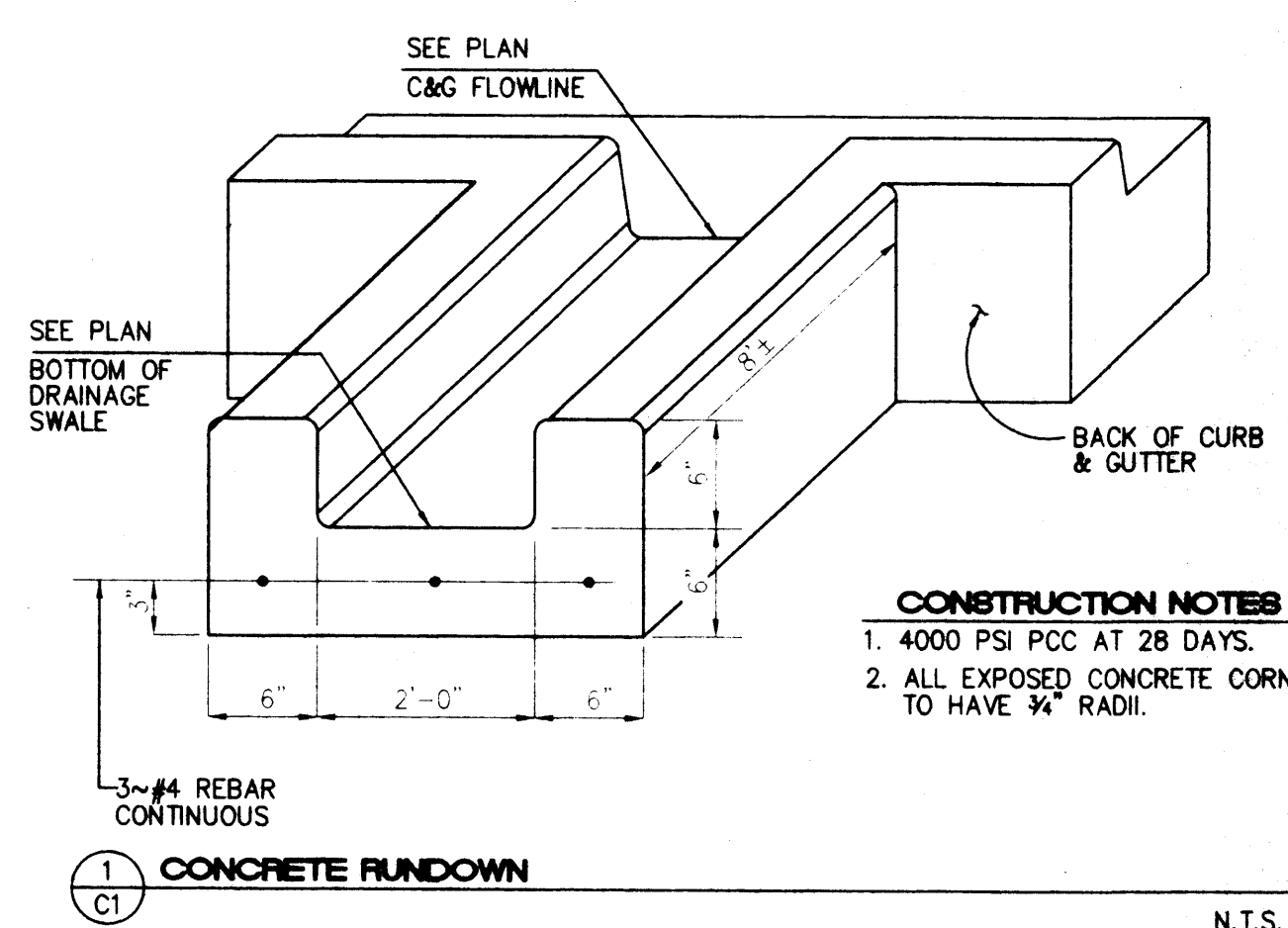
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  - TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
  - SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
  - IF CURB IS DERESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
  - ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

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



### KEYED NOTES

- NEW ASPHALT TO MATCH EXISTING GRADE AT PROPERTY LINE.
- CURB AND GUTTER FLUSH THIS AREA.
- 2' WIDE CURB CUT.
- CONSTRUCT CONCRETE RUNDOWN PER 1/C1.
- CONSTRUCT 24" SIDEWALK CULVERT PER COA STD. 2236.
- 4" ROOF DRAIN.
- CONSTRUCT ROOF DRAIN THROUGH CURB PER DETAIL 2/21.
- CONSTRUCT CONCRETE DRAINAGE RUNDOWN W/RIPRAP PER DETAIL 3/C1.
- PROVIDE 3' WIDE BY 16" HIGH OPENING IN CMU WALL.
- BEGIN TRANSITION FROM 6" CURB HEIGHT TO 8" IN 5'.



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CONSTRUCTION NOTES

GENERAL

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, INCLUDING A TOP SOIL DISTURBANCE PERMIT, PRIOR TO START OF CONSTRUCTION.

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.

REFERENCE MADE TO COA STD DWGS. REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS AS AMENDED THROUGH UPDATE #6.

REFERENCE MADE TO APWA REFERS TO AMERICAN PUBLIC WORKS ASSOCIATION.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR WOULD LIKE TO REMOVE FENCING TO FACILITATE CONSTRUCTION OPERATIONS, THIS MAY BE DONE WITH THE OWNER'S PERMISSION, AND THE CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION PRIOR TO THE CLOSE OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS REPLACED.

DIMENSIONS

ALL DIMENSIONS IN PARKING AREAS AND DRIVES ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO CENTERLINE OF RIGHT-OF-WAY UNLESS OTHERWISE NOTED.

ALL SLOPES AND GRADES ARE IN FEET/FOOT UNLESS OTHERWISE NOTED.

ELEVATIONS SHOWN FOR CURB AND GUTTER ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED. SEE DETAIL SHEET FOR CURB HEIGHT ABOVE FLOWLINE.

SOILS

UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPARED TO THE FOLLOWING PERCENTAGES OF THE ASTM D 1557 MAXIMUM DENSITY.

MATERIAL	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBASE FOR SLAB SUPPORT	95
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD PAVEMENT	95
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90
ROAD PAVEMENT SUBGRADE	95
SIDEWALK SUBGRADE	90
CURB AND GUTTER SUBGRADE	95

PAVING

WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVING TO EXISTING.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TV & SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.

UTILITIES

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED TO THE ENGINEER BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1 THROUGH 14-8, NMSA 1978.

THE EXISTING UTILITIES DEPICTED ON THESE PLANS WERE DERIVED FROM INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF PERTINENT UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY POTENTIAL DISRUPTIONS IN UTILITY SERVICE WITH THE UTILITY COMPANIES AFFECTED AT LEAST 24 HOURS PRIOR TO THE DISRUPTION.

EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM REGULATORY AGENCIES.

THE CONTRACTOR SHALL SECURE A "TOP SOIL DISTURBANCE PERMIT" FROM THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DIVISION PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO OTHER PROPERTY BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH RECLAMATION SEEDING.

SEEDING OF DISTURBED AREAS SHALL BE DONE IN ACCORDANCE WITH C.O.A. STANDARD SPECIFICATION #1012, "NATIVE GRASS SEEDING".

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW MEXICO SOLID WASTE ACT.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDES GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE AT 1-505-822-1558 OR 1-800-219-6157.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.

THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE/BERNALILLO COUNTY AIR QUALITY CONTROL BOARD (505-768-2638) LIMIT THE EMISSION OF PARTICULATES AND THE USE OF CUTBACK ASPHALT. THE CONTRACTOR SHALL APPRISE HIMSELF OF THESE REGULATIONS PRIOR TO BIDDING AND PERFORMING THE WORK.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATIONS.

PROJECT DESCRIPTION - RUN-OFF CALCULATIONS

1. EXISTING CONDITIONS

THE SITE CURRENTLY HAS AN EXISTING 1200 SF BUILDING WITH ASPHALT PARKING AND LANDSCAPING. THERE IS A FIFTEEN FOOT ACCESS EASEMENT ALONG THE NORTHERN PROPERTY LINE FROM WYOMING BOULEVARD TO HERITAGE COURT. SURROUNDING DEVELOPMENT INCLUDES A GAS STATION ON THE SOUTH SIDE AND AN OFFICE BUILDING ON THE NORTH SIDE.

THE SITE IS NOT ACCEPTING ANY OFF-SITE FLOW.

ALL ON-SITE RUNOFF FROM BASIN A AND BASIN B DISCHARGES TO HERITAGE COURT BY OVERLAND FLOW AT A 3-4% SLOPES. IT IS THEN CONVEYED TO SPAIN ROAD BY STREET FLOW. FROM THE INTERSECTION OF HERITAGE COURT AND SPAIN ROAD THE RUNOFF FLOWS WEST ON SPAIN ROAD IS COLLECTED BY A SERIES OF CATCH BASINS ON THE SOUTH SIDE OF SPAIN ROAD THAT LEAD TO BEAR TRIBUTARY ARROYO. AS SHOWN ON THE 1996 FIRM MAP, THE BEAR TRIBUTARY ARROYO HAS ENOUGH CAPACITY TO CONVEY THE 100 YEAR RUNOFF.

2. PROPOSED CONDITIONS

THE DEVELOPED SITE WILL BE A BURGER KING RESTAURANT WITH ASPHALT PARKING AND LANDSCAPING. THE STORM WATER RUNOFF WILL BE DISCHARGED TO HERITAGE COURT. IN ORDER TO DECREASE THE RUNOFF RATE FROM THE PROPOSED SITE TO BE LESS THAN EXISTING, A DETENTION POND WILL BE CONSTRUCTED ON THE WEST SIDE OF THE SITE. THE ATTENUATED RUNOFF WILL BE RELEASED FROM THE POND THROUGH A 24" SIDEWALK CULVERT, RELEASING RUNOFF ONTO HERITAGE COURT. A TOTAL PROPOSED RUNOFF OF 3.75 CFS WAS COMPUTED FOR BASIN A & B, WHEREAS THE EXISTING RATE OF RUNOFF WAS COMPUTED TO BE 3.30 CFS.

AS SHOWN BY PANEL 352 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS FOR THE CITY OF ALBUQUERQUE, NEW MEXICO DATED SEPTEMBER 20, 1986, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

THIS PROCEDURE IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 2, SECTION 22.2, "HYDROLOGY", PEAK DISCHARGE RATE FOR SMALL WATERSHEDS LESS THAN FORTY ACRES IN SIZE.

PRECIPITATION ZONE FROM FIGURE A-1: 3  
LAND TREATMENT DESCRIPTIONS ARE IN TABLE A-4.

1. RUNOFF RATE COMPUTATION

USE EQUATION A-10:  $QP = QPA \ AA + QPB \ AB + QPC \ AC + QPD \ AD$

VALUES OF QP ARE FROM TABLE A-9, AND ARE IN CFS/ACRE. AREA VALUES ARE IN ACRES.

BASIN	QPA	AA	QPB	AB	QPC	AC	QPD	AD	QP
EXISTING RATE OF RUNOFF (CFS)									
BASIN A	1.87	0.00	2.60	0.00	3.45	0.00	5.02	0.09	0.45 CFS
BASIN B	1.87	0.00	2.60	0.14	3.45	0.30	5.02	0.29	2.85 CFS
TOTAL									3.30 CFS

DEVELOPED RATE OF RUNOFF (CFS)									
BASIN A	1.87	0.00	2.60	0.00	3.45	0.00	5.02	0.09	0.45 CFS
BASIN B	1.87	0.00	2.60	0.15	3.45	0.00	5.02	0.58	3.30 CFS
TOTAL									3.75 CFS

2. RUNOFF VOLUME COMPUTATION

USE EQUATION A-5 TO COMPUTE WEIGHTED EXCESS PRECIPITATION:  
 $WEIGHTED \ E = "E" = (EA \ AA + EB \ AB + EC \ AC + ED \ AD) / (AA + AB + AC + AD)$   
 $(AA + AB + AC + AD) = \Sigma AI$

USE EQUATION A-6 TO COMPUTE THE VOLUME:  
 $V_{360} = "E" \times (AA + AB + AC + AD) \times 3630 \text{ FEET}^3/\text{ACRE-INCH}$

VALUES OF "E" ARE FROM TABLE A-8, AND ARE IN INCHES. AREA VALUES ARE IN ACRES.

BASIN	EA	AA	EB	AB	EC	AC	ED	AD	ΣA	"E"	V360
EXISTING VOLUME OF RUNOFF (CUBIC FEET)											
BASIN A	0.66	0.00	0.92	0.00	1.29	0.00	2.36	0.09	0.09	2.36	771 CU-FT
BASIN B	0.66	0.00	0.92	0.14	1.29	0.30	2.36	0.29	0.73	1.64	4357 CU-FT
TOTAL											5128 CU-FT

DEVELOPED VOLUME OF RUNOFF (CUBIC FEET)											
BASIN A	0.66	0.00	0.92	0.00	1.29	0.00	2.36	0.09	0.09	2.36	771 CU-FT
BASIN B	0.66	0.00	0.92	0.15	1.29	0.00	2.36	0.58	0.73	2.06	5470 CU-FT
TOTAL											6241 CU-FT



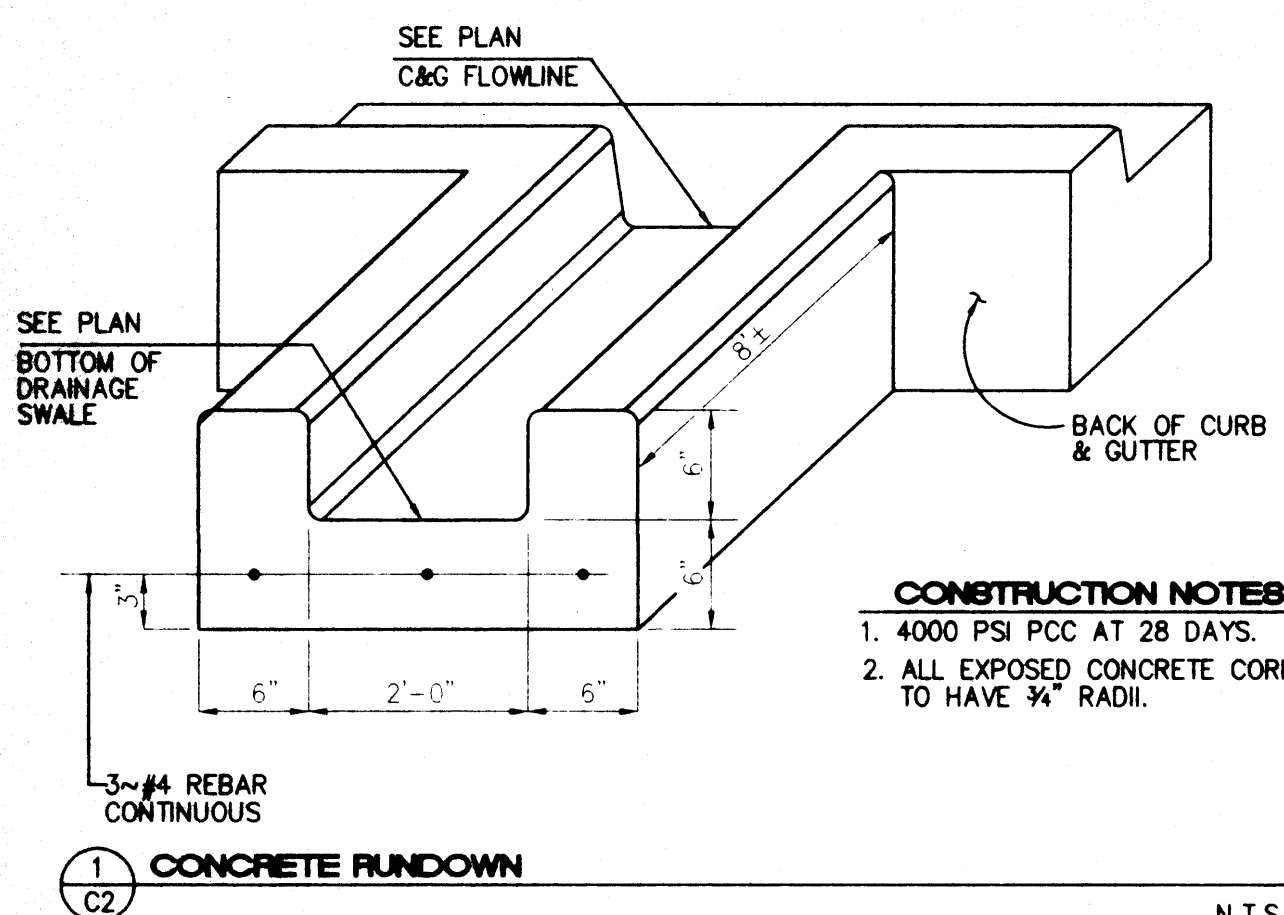
# KEYED NOTES

- 1 LIMITS OF NEW ASPHALT. MATCH EXISTING GRADE AT SAWCUT LINE.
- 2 CURB AND GUTTER FLUSH THIS AREA.
- 3 2' WIDE CURB CUT.
- 4 CONSTRUCT CONCRETE RUNDOWN PER 1/C2.
- 5 CONSTRUCT 24" SIDEWALK CULVERT PER COA STD. 2236.
- 6 4" ROOF DRAIN.
- 7 NOT USED.
- 8 CONSTRUCT CONCRETE DRAINAGE RUNDOWN W/RIPRAP PER DETAIL 3/C2.
- 9 PROVIDE 3' WIDE BY 16" HIGH OPENING IN CMU WALL.
- 10 BEGIN TRANSITION FROM 6" CURB HEIGHT TO 8" IN 5'.
- 11 REMOVE EXISTING CONCRETE CURB.
- 12 REMOVE EXISTING ASPHALT.
- 13 INSTALL (2) 6" PVC PIPES.

## THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSIONED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

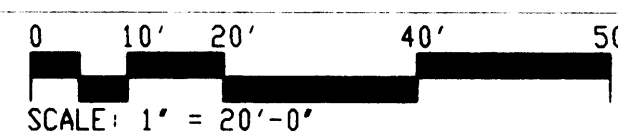
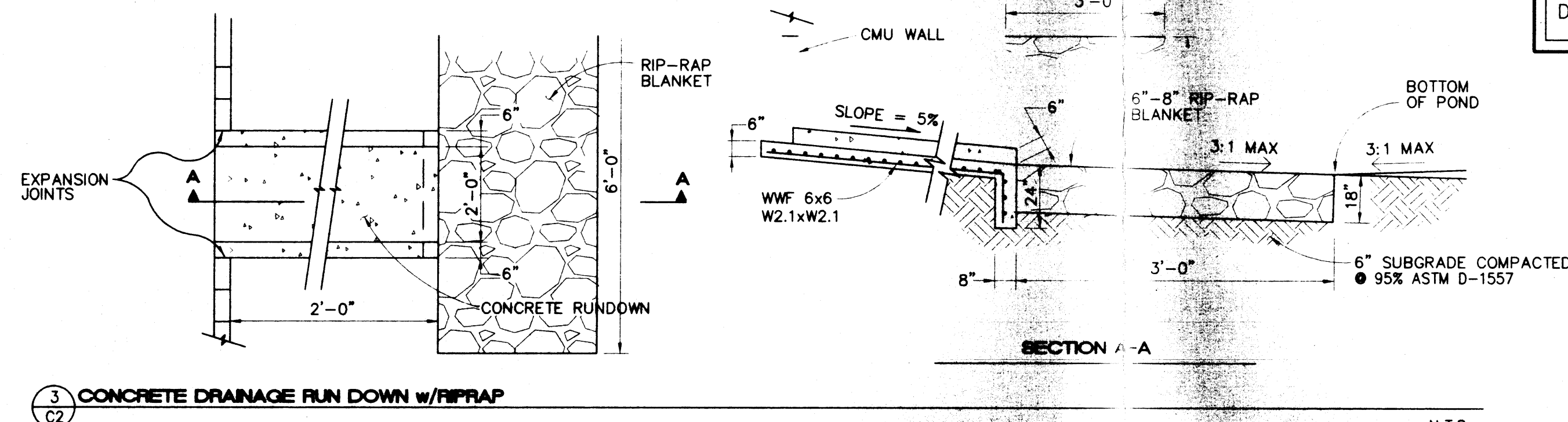
APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTOR		
A.C.E./FIELD		



- CONSTRUCTION NOTES**
1. 4000 PSI PCC AT 28 DAYS.
  2. ALL EXPOSED CONCRETE CORNERS TO HAVE 3/4" RADIUS.

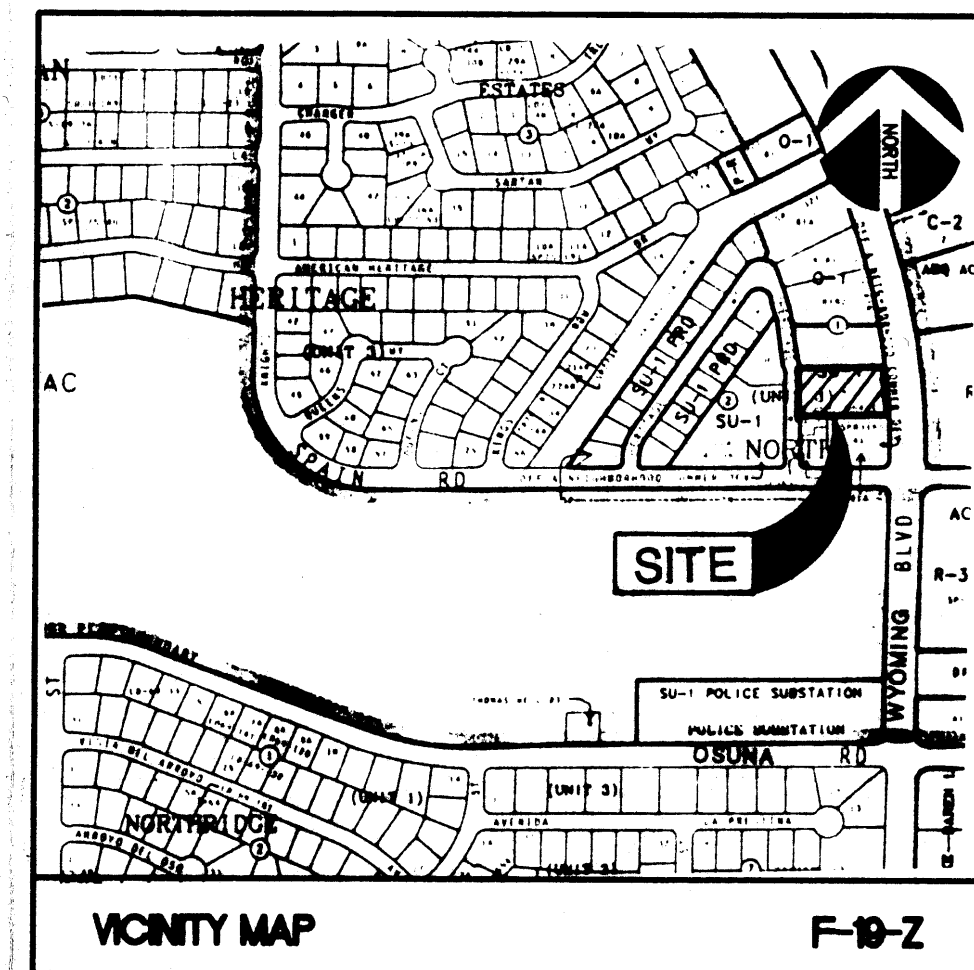
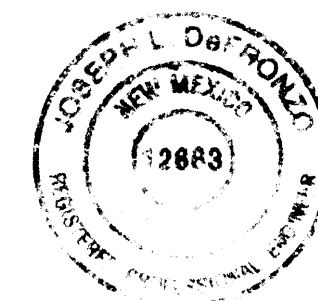


## GRADING AND DRAINAGE PLAN



I HEREBY CERTIFY THAT THIS PLAN IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN.

SIGNED: *Joseph L. DeFronzo*  
DATE: 1-13-99



## LEGAL DESCRIPTION

TRACT "B" IN BLOCK NUMBERED ONE (1) OF AMERICAN HERITAGE NORTH UNIT 3, A SUBDIVISION OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON MAY 30, 1978, IN MAP BOOK D-8, FOLIO 138.

## BENCHMARK

ACS 3-F19AB BRASS TABLET LOCATED ON TOP OF A CONCRETE POST AT THE INTERSECTION OF OSUNA RD. AND WYOMING BLVD. ELEV. = 5440.56'

## SURVEY INFO.

TOPOGRAPHIC SURVEY PERFORMED BY HARRIS SURVEYING, INC. ALBUQUERQUE, NEW MEXICO JANUARY 1996.

## LEGEND

- BUILDING
- EXISTING ASPHALT
- CONCRETE
- NEW ASPHALT
- NEW CURB AND GUTTER
- EXISTING CURB
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- PROPERTY LINE
- EXISTING CONTOURS
- NEW CONTOURS
- BASIN BOUNDARY
- WATER BLOCK
- ROOF DRAIN
- LIMITS OF NEW ASPHALT
- AS-BUILT ELEVATION

**CHAVEZ • GRIEVES**  
CONSULTING ENGINEERS, INC.  
5639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109  
PHONE (505) 344-4080 • FAX (505) 343-8759

**NIMS, CALVANI & ASSOCIATES, P.A.**  
ARCHITECTS • PLANNERS • P.A.

WYOMING & SPAIN  
PROPOSED BURGER KING

GRADING & DRAINAGE

- REVISIONS
- OVERALL GRADING
  - ADDED KEYNOTES
  - AS-BUILTS

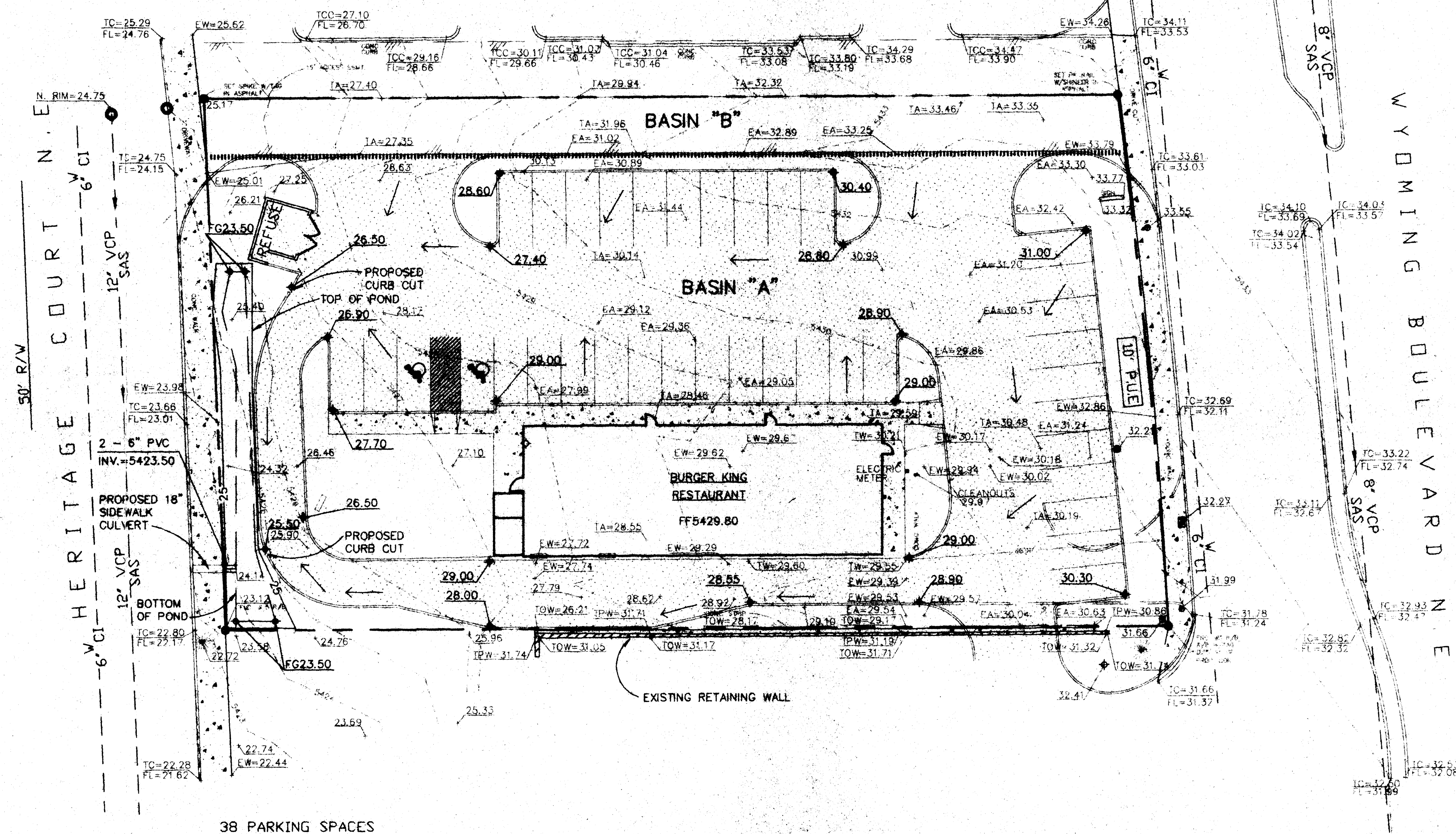
JAN 13 1999

AUGUST 1998

C2



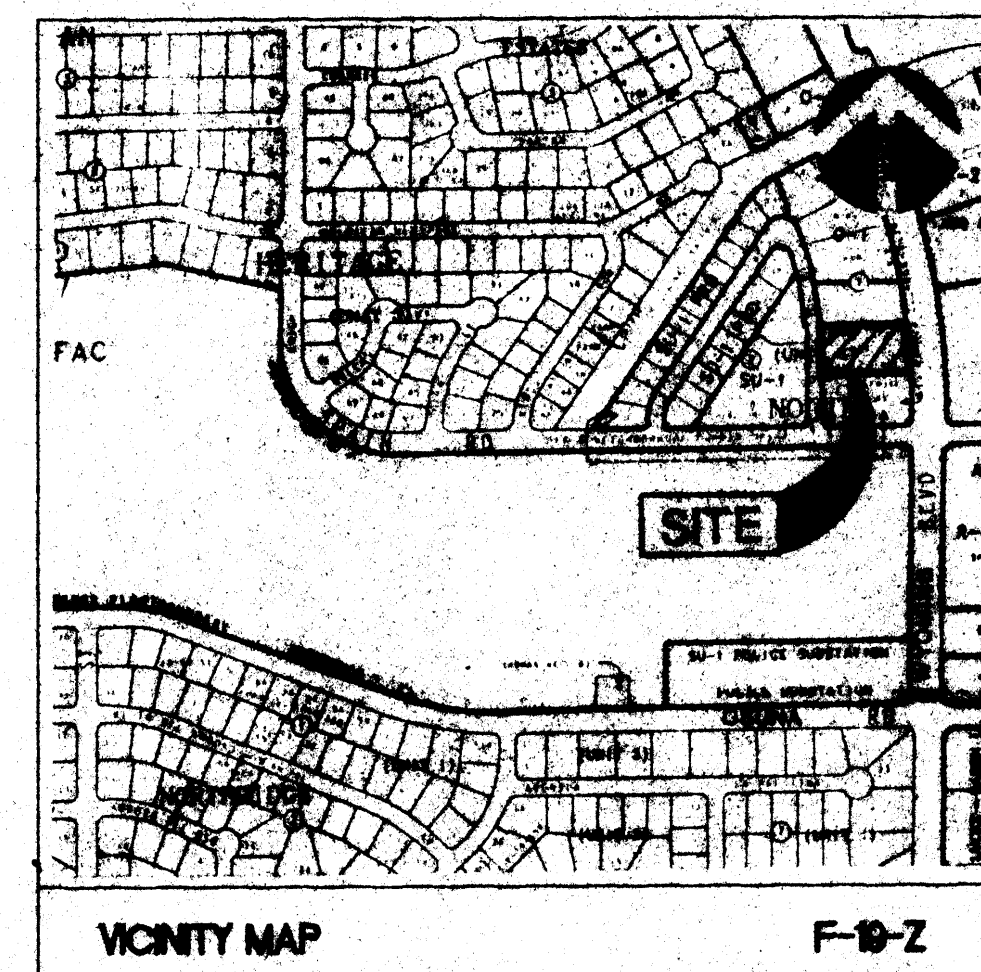
NOTE  
ALL SPOT ELEVATIONS ARE TOP  
OF ASPHALT UNLESS OTHERWISE  
INDICATED.



38 PARKING SPACES

## CONCEPTUAL GRADING PLAN

*100 year WSP  
on plan  
over*



### LEGAL DESCRIPTION

TRACT "B" IN BLOCK NUMBERED ONE (1) OF AMERICAN HERITAGE NORTH UNIT 3, A SUBDIVISION OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON MAY 30, 1978, IN MAP BOOK D-8, FOLIO 138.

### BENCHMARK

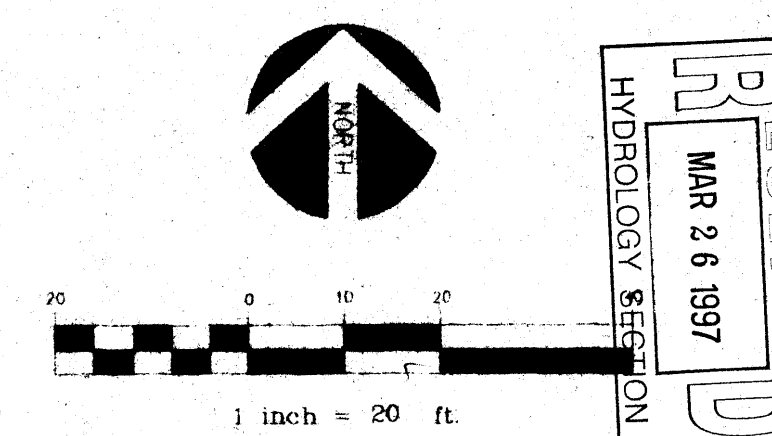
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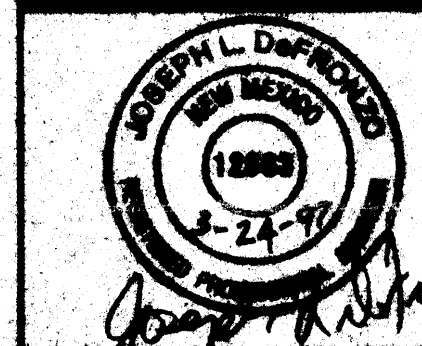
BUILDING	
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NEW ASPHALT	
CURB AND GUTTER	
EXISTING CURB AND GUTTER	
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PROPOSED SPOT ELEVATION	
EXISTING SANITARY SEWER	
EXISTING WATER LINE	
PROPERTY LINE	
CONTOURS	
BASIN BOUNDARY	



**NIMS, CALVANI & ASSOCIATES, P.A.**  
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(505) 521-3757  
FAX (505) 521-3880



WYOMING AND OSUNA  
PROPOSED BURGER KING

Albuquerque, New Mexico  
Conceptual Grading Plan

REVISIONS	DATE	BY

C1.0