





1 inch = 20 ft.

INV

S/W

NOTES

- 1. THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY.
- 2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, EXCEPT AS NOTED.

PROJECT BENCHMARK

A STANDARD ACS ALUMINUM CAP STAMPED "15-H18 1989" SET FLUSH WITH THE CURB. THE STATION IS LOCATED ON THE SOUTHWEST QUADRANT OF THE INTERSECTION OF LOUISIANA AND MENAUL BLVD. ELEV.=5300.77'.

TEMPORARY BENCHMARK (TEM)

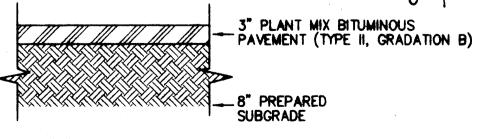
AN "X" CHISELED ON TOP OF CONCRETE CURB LOCATED AS SHOWN ON PLANS ELEV.=5306.90

SURVEY INFO.

TOPOGRAPHIC SURVEY PERFORMED BY CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. ALBUQUERQUE, NEW MEXICO APRIL 1998.

KEYED NOTES

- EXISTING ASPHALT TO BE REMOVED AND REPLACED PER DETAIL THIS SHEET. CONCRETE CURB TO REMAIN. PARKING LOT STRIPING TO BE REPLACED AS FOUND PRIOR TO DEMOLITION.
- 2 EXISTING CONCRETE WHEEL STOPS TO BE REMOVED PRIOR TO ASPHALT DEMOLITION. CONTRACTOR TO REPLACE CONCRETE WHEEL STOPS AT PRE-DEMOLITION LOCATIONS USING NEW ANCHORS.
- 3 CONTRACTOR TO SAW CUT EXISTING ASPHALT. JACK-HAMMERING WILL NOT BE ACCEPTED.

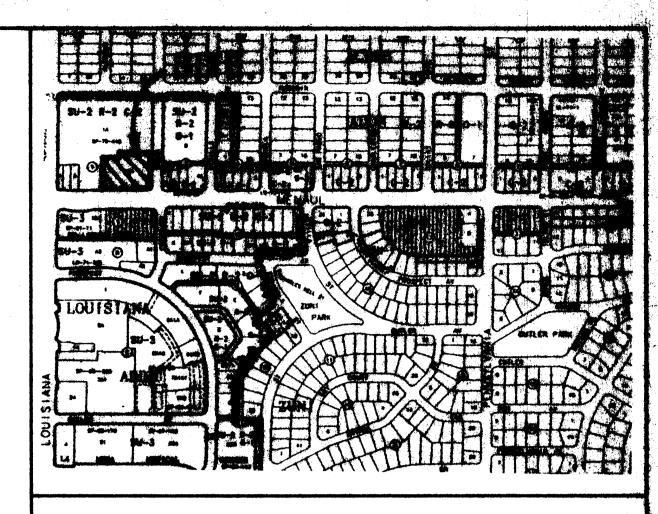


NOTES:

1. ASPHALTIC CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 401.

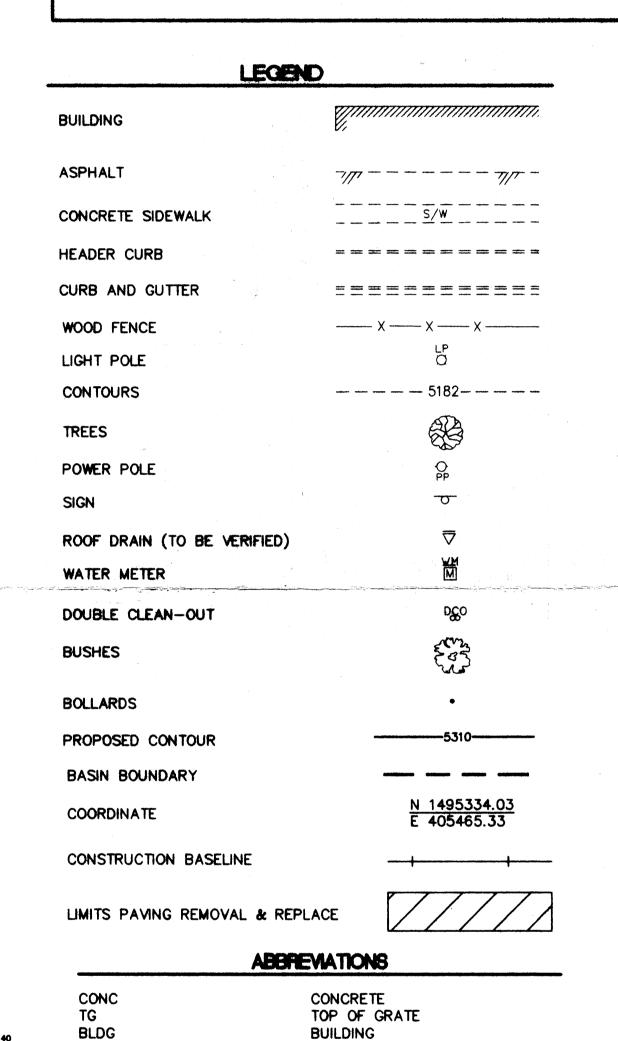
2. PREPARED SUBGRADE SHALL BE COMPACTED TO ASTM D-1557 95% DENSITY D-1557 95% DENSITY.

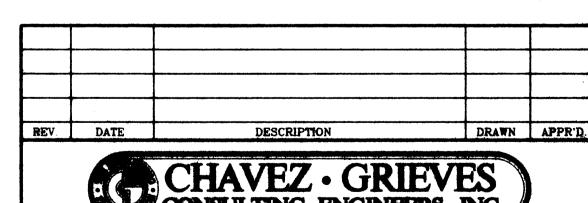
LIGHT TRAFFIC PAVING SECTION



VICINITY MAP

H-19-Z





TOP OF CURB

TOP OF CONCRETE

INVERT

FLOWLINE

SIDEWALK

CONSULTING ENGINEERS, INC

5639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109 PHONE (505) 344-4080 • FAX (505) 343-8759

CHILI'S PARKING LOT

ALBUQUERQUE, NEW MEXICO

DEMOLITION AND PAVING PLAN

DESIGNED BY DRAWN BY: U08-118-0098 REVIEWED BY:

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 DESCRIPTION THE EXPENSE. 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 CONTRACTORS'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.

<u>DIMENSIONS</u>

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.

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

MATERIAL		PERCENT	COMPAC
STRUCTURAL FILL IN THE BU	ILDING AREA	Capacitation and a second of the second of t	95
SUBASE FOR SLAB SUPPORT			95
MISCELLANEOUS BACKFILL BE		FILL	
OR ROAD PAVEM			95
MISCELLANEOUS BACKFILL BE			
NON-BUILDING A			90
ROAD PAVEMENT SUBGRADE			90 95
SIDEWALK SUBGRADE			
CURB AND GUTTER SUBGRAD	DE .		90 95
	-		

PAYING

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

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 NEAT 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. 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

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

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

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 CONTRACTORS RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTORS
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

THE PROPOSED IMPROVEMENTS TO THE CHILI'S PARKING LOT CONSIST OF REPLACING EXISTING ASPHALT PAVING ON THE NORTH SIDE OF THE BUILDING. THE NEW PAVEMENT WILL REPLACE EXISTING PAVEMENT WHICH WAS DAMAGED BY A RECENT WATERLINE BREAK. THE EXISTING ASPHALT WAS WASHED OUT AND THE SUBGRADE IN THE VICINITY HAS BECOME UNSTABLE, CAUSING FURTHER DAMAGE TO THE PAVEMENT. THE NEW PAVEMENT WILL BE PLACED ON EXISTING GRADES LEAVING THE DRAINAGE PATTERN OF THE SITE UNCHANGED. RUNOFF FROM BASIN-A, WHICH IS THE ONSITE BASIN INCLUDING THE PROPOSED AREA OF NEW PAVING, FLOWS SOUTH TO AN EXISTING DROP INLET ALONG MENAUL BOULEVARD. CALCULATIONS FOR BASIN—A HAVE BEEN PROVIDED. THE PEAK RUNOFF FROM THE BASIN DOES NOT CHANGE AS A RESULT OF THE NEW PAVING.

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 0.03 3.45 0.00 5.02 0.96 4.90 CFS DEVELOPED RATE OF RUNOFF (CFS) BASIN A 1.87 0.00 2.60 0.03 3.45 0.00 5.02 0.96 4.90 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:

 $V360 = "E" \times (AA + AB + AC + AD) \times 3630 \text{ FEET}^3/ACRE-INCH$

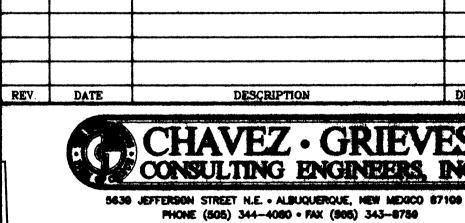
VALUES OF "E" ARE FROM TABLE A-8, AND ARE IN INCHES. AREA VALUES ARE IN ACRES.

BASIN EA AA EB AB EC AC ED AD XA "E" **V360**

EXISTING VOLUME OF RUNOFF (CUBIC FEET) BASIN A 0.66 0.000 0.92 0.030 1.29 0.000 2.36 0.960 0.990 2.32 8337 CU-FT

DEVELOPED VOLUME OF RUNOFF (CUBIC FEET)

BASIN A 0.66 0.000 0.92 0.030 1.29 0.000 2.36 0.960 0.990 2.32 8337 CU-FT



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HYDROLOGY SECTION

CHILI'S PARKING LOT

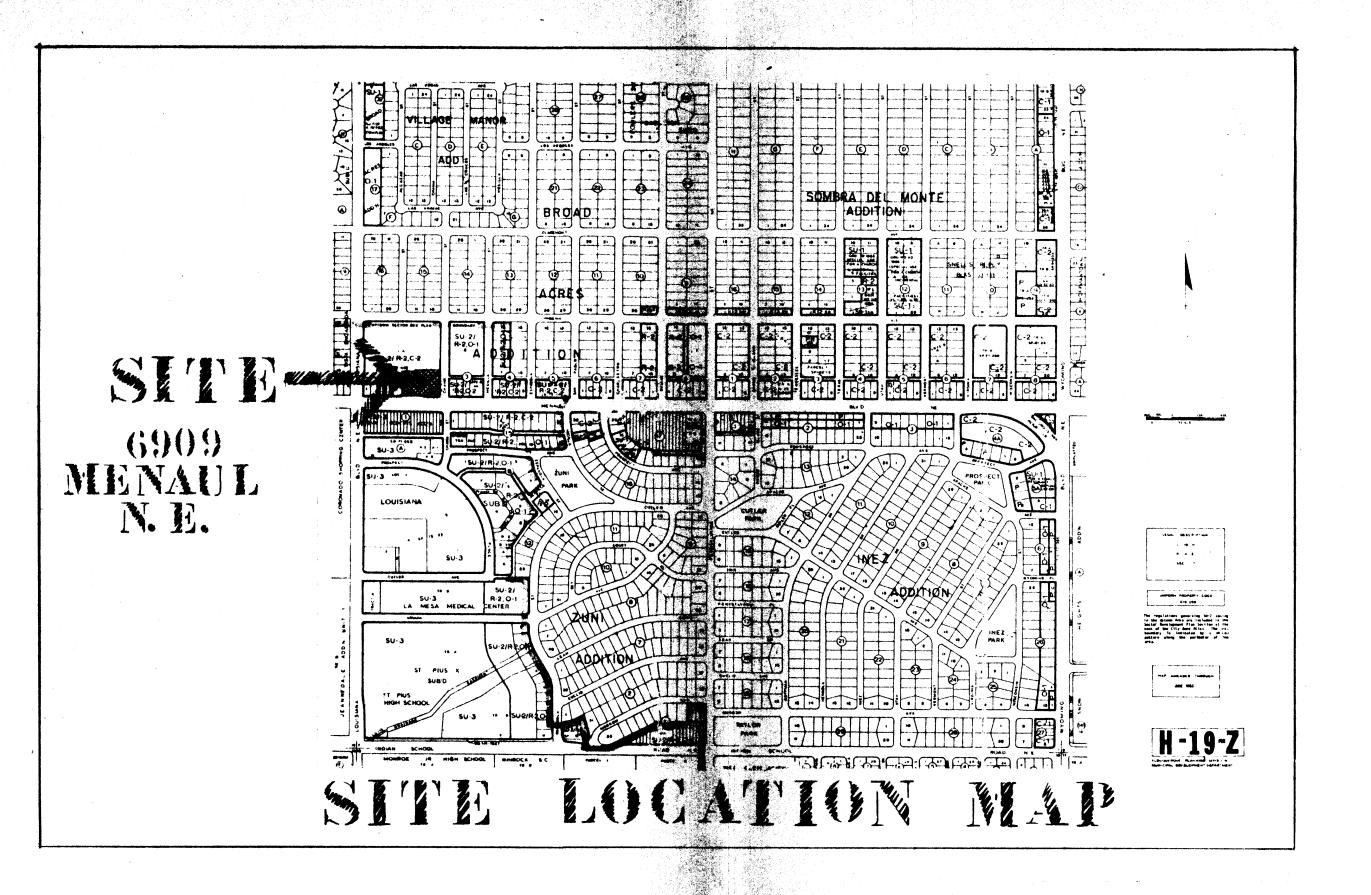
DRAWN APPRID

CIVIL NOTES, PROJECT DESCRIPTION AND HYDROLOGIC CALCULATIONS

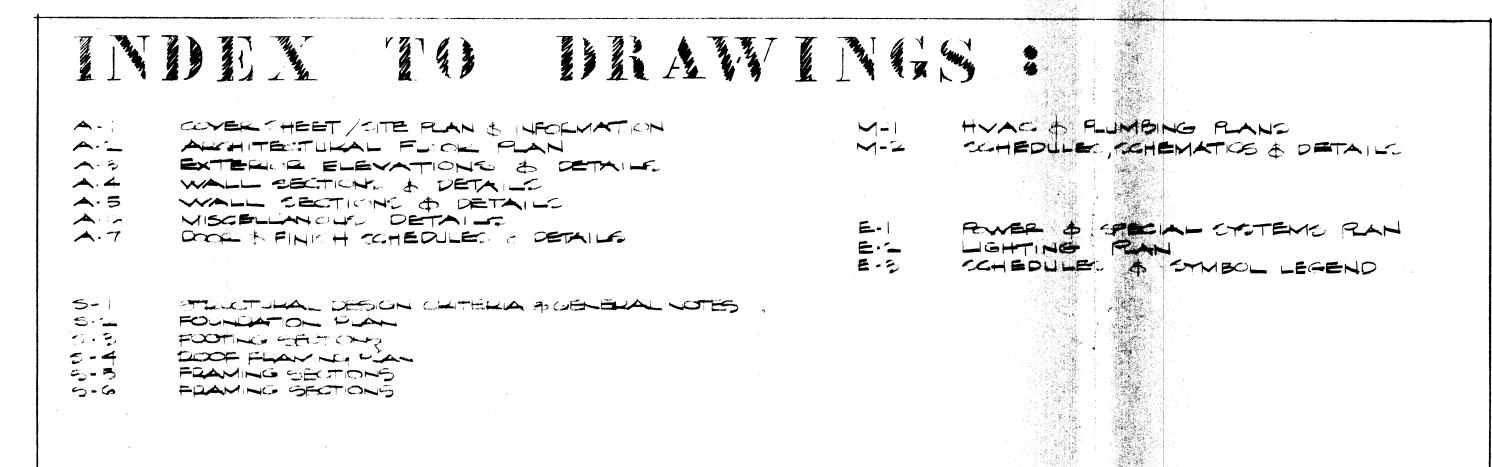
ALBUQUERQUE, NEW MEXICO

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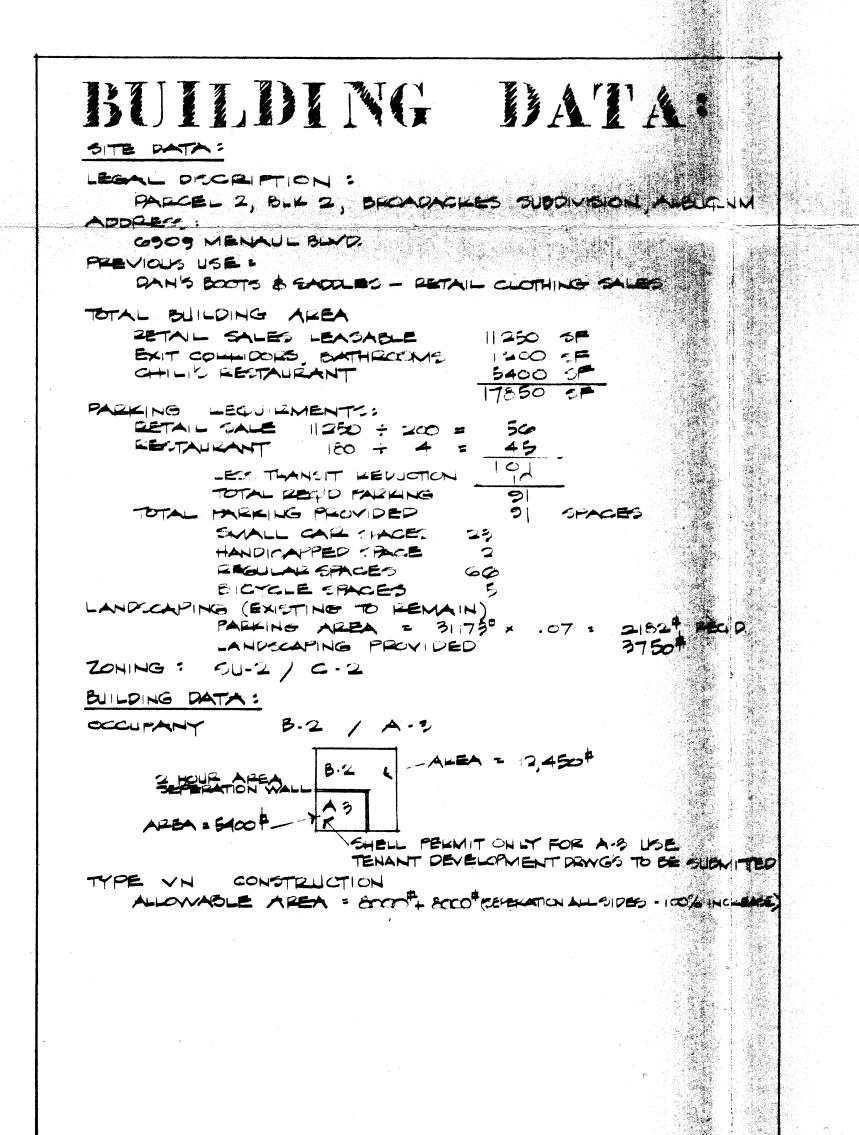
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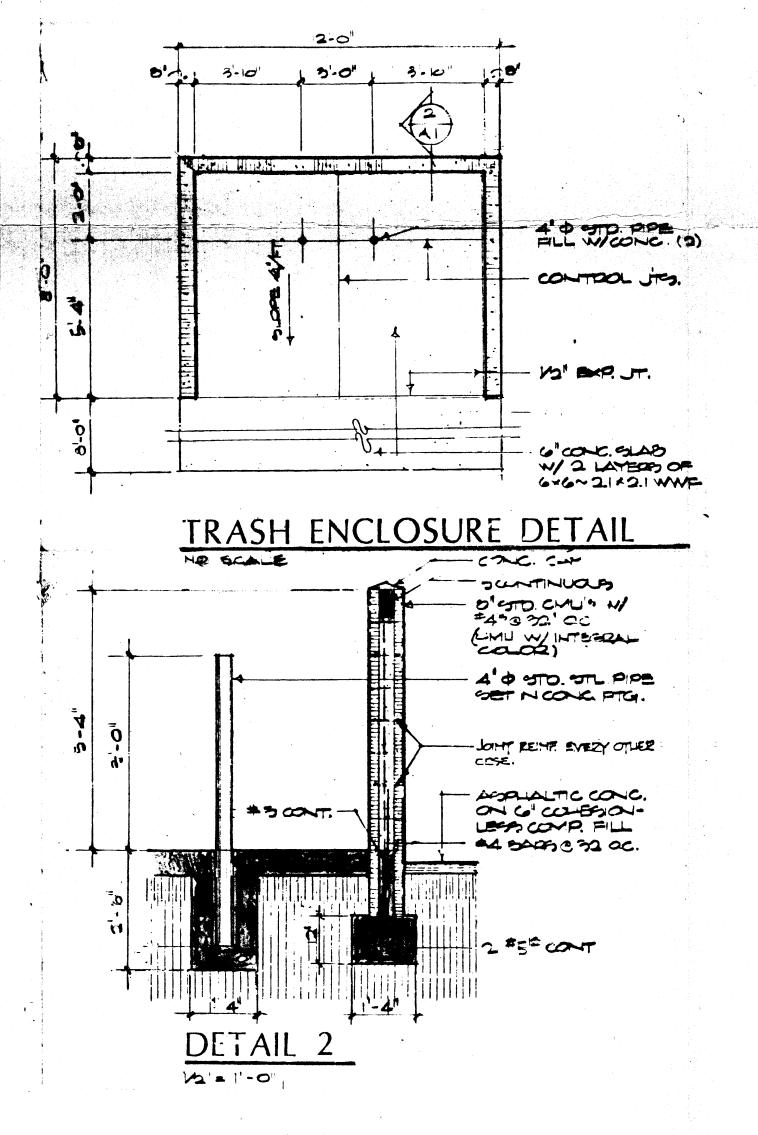


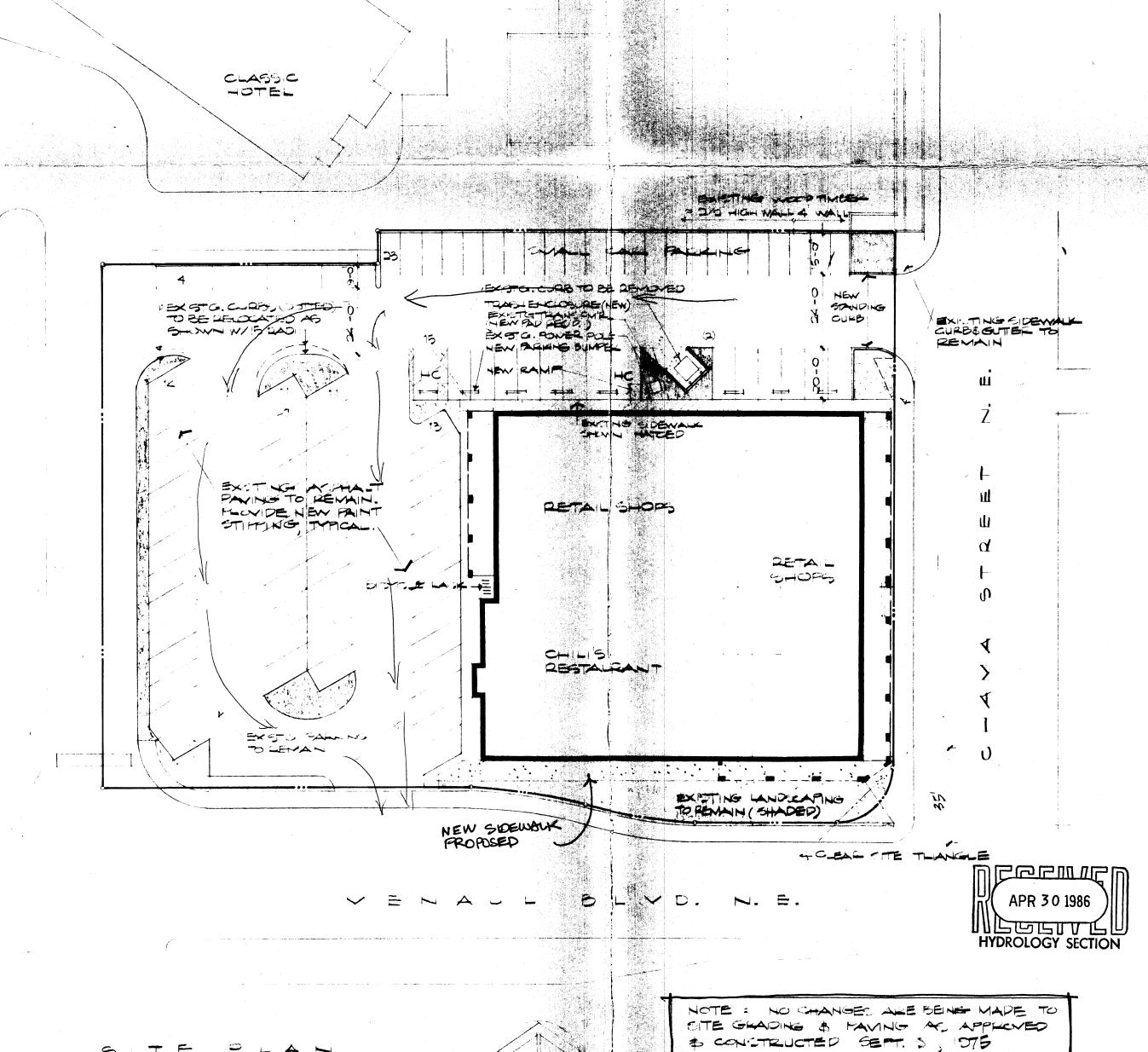
ADDITONS & REMODELING CHIEF SEEDS IN THE



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