HYDROLOGY E17/D12 GULTON INDUSTRIES PLANT EXPANSION

K17-D13

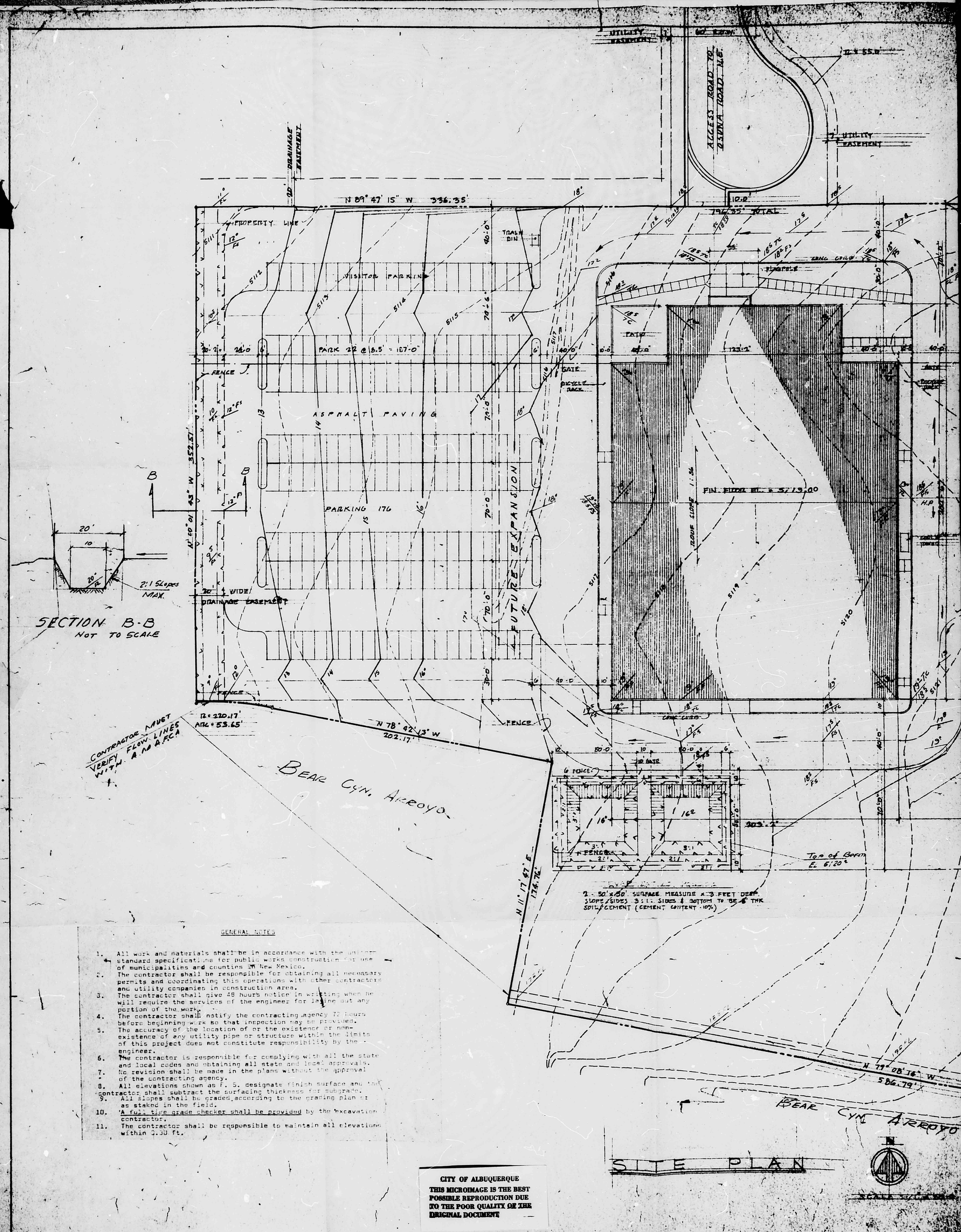
GULTON

INDUSTRIES

PLANT

EXPANSION

2 PLANS



GENERAL NOTES

1. All work and materials shall be in accordance with the uniform standard specifications for public works construction for use of municipalities and counties in New Mexico.
2. The contractor shall be responsible for obtaining all necessary permits and coordinating this operations with other contractors and utility companies in construction area.
3. The contractor shall give 48 hours notice in writing when he will require the services of the engineer for laying out any portion of the work.
4. The contractor shall notify the contracting agency 72 hours before beginning work so that inspection may be provided.
5. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
6. The contractor is responsible for complying with all the state and local codes and obtaining all state and local approvals.
7. No revision shall be made in the plans without the approval of the contracting agency.
8. All elevations shown as F. S. designate finish surface and the contractor shall subtract the surfacing thickness for subgrade.
9. All slopes shall be graded according to the grading plan or as staked in the field.
10. A full time grade checker shall be provided by the excavation contractor.
11. The contractor shall be responsible to maintain all elevations within 0.30 ft.

CITY OF ALBUQUERQUE
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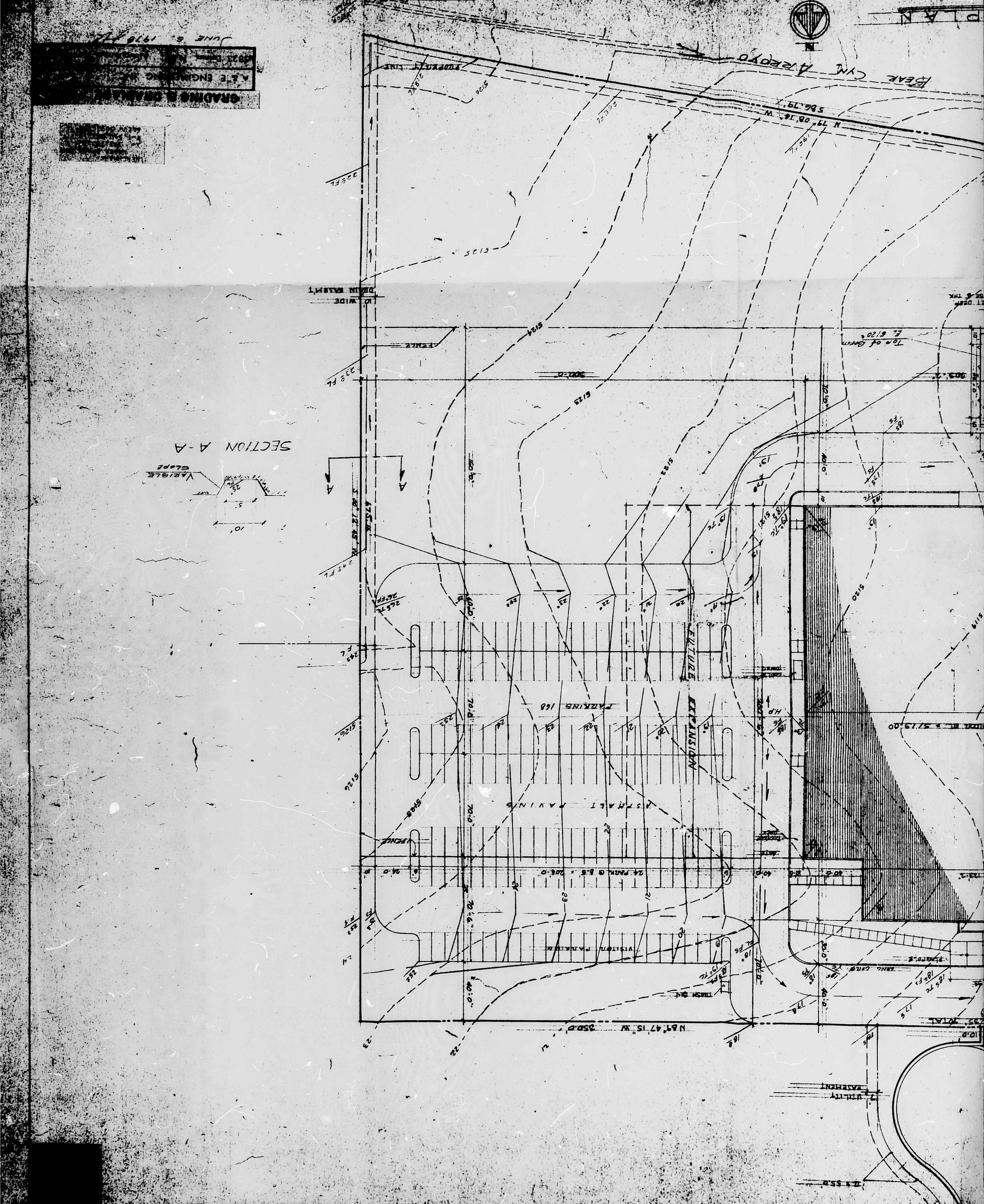
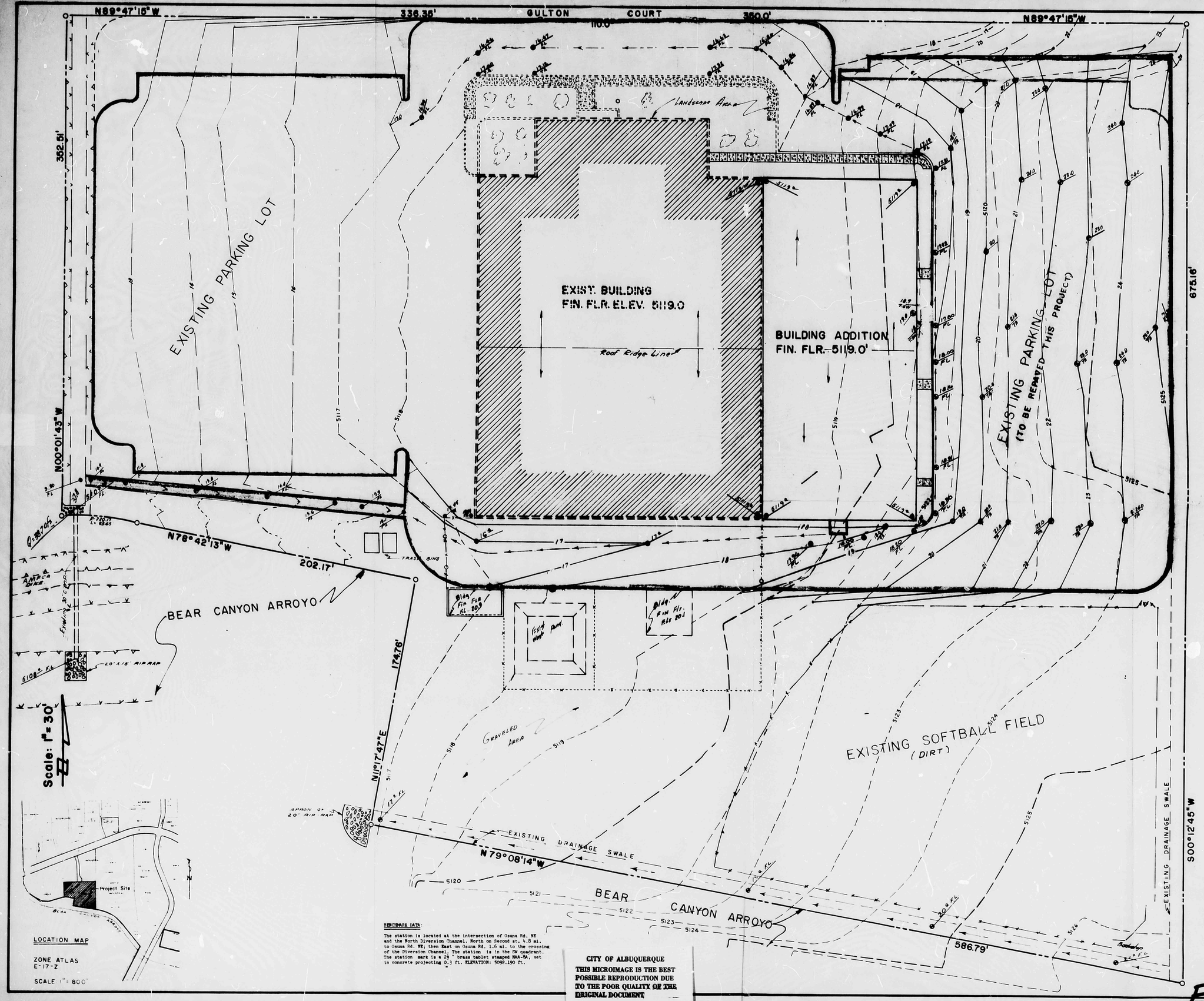

PLAN
N
BEAR CYN ARROYO
N 79° 08' 18" W
586.79'
PROPERTY LINE
EXPANSION
FUTURE
ASPHALT PAVING
PARKING 168
VISITOR PARKING
24' PAVING B.S. = 206'-0
N 87° 47' 15" W 350'-0
SECTION A-A
Variable Slope
10'
5'
25'
GRADING & DRAINAGE
A.E. ENGINEERING
JUNE 6, 1978

E17

GRADING AND DRAINAGE PLAN
FOR
ELECTRONIC ASSEMBLY PLANT
AND OFFICE FOR
GULTON INDUSTRIES, INC.
6600 GULTON COURT
ALBUQUERQUE, NEW MEXICO

UPDATED APRIL 16, 1985



SITE DRAINAGE CRITERIA:

This is an updated Grading and Drainage Plan for Gulton Industries, Electronics Assembly Plant & Office. This Drainage report and Plan consist of a hydrologic study of the preballe 100-yr. storm affecting this proposed development on Lot -3-C, Block A, Unit II of the Interstate Industrial Tract. It is in conformance with the Drainage Report prepared by A & E Engineering, Inc. on June 14,1978.

The following items are required by the City of Albuquerque Drainage Section concerning this updated Drainage Plan:

A. Vicinity Map
B. Grading and Drainage Plan
C. Site Drainage Criteria

The site does not lie within a designated Flood Hazard Zone as is shown on Flood Hazard Map 35000C-0010

The Plan Shows:

A. Existing contours at one feet intervals
B. Proposed grades indicated by contours,& spot elevations.
C. Swales as indicated by the legend shown.
D. Grading and Drainage Plan.

LOCATION AND DESCRIPTION:

The property under study is a parcel of land zoned Industrial Park (IP) and contains approximately ten (10.0) acres. It is located approximately 600 feet South of Osuna Road NE, South of Bear Canyon Arroyo and 0.6 miles West of Jefferson Avenue NE. This property is more particularly described as Lot 3-C, Block A, Unit II, of the Interstate Industrial Tract; and is bordered by Lots 3-A and 3-B, Block A, Unit II, of the Interstate Industrial Tract on the North, Lot 2, Block A, Unit II, of the Interstate Industrial Tract on the East, tract 2, Group 9, Industrial Park and East tracter Property on the East, and by Bear Canyon Arroyo on the South.

The existing terrain for the parcel slopes to the east at about 1.0 per cent grade.

CALCULATED PEAK FLOW

ROOF AND PAVEMENT AREA 7.1 AC. = 313,632.0 S.F.
DIRT AREA (NATURAL GROUND AND LANDSCAPED AREA 2.9 AC. =122,969.0 S.F.
TOTAL DRAINAGE AREA = 10.0 AC. = 435600.0 S.F.

COMPOSITE "C" $\frac{0.9(7.1 \text{ AC.}) + 0.6(2.9)}{10.0 \text{ AC.}} = 0.81$

$Q_{peak\ 100} = CIA$; $C = 0.81$, $A = 10.0$ AC. $I = 4.65$
$= (.81)(4.65)(10.0) = 37.7$ cfs.

$Q_{10} = 0.657\ (37.7 \text{ cfs.}) = 24.7$ cfs.

NOTE:
THE NEW ADDITION OR NEW ROOF AREA REPLACES EXISTING PAVEMENT THEREFORE THE TOTAL RUNOFF DISCHARGED BY THIS SITE DID NOT CHANGE . THE 1978 REPORT INDICATED A Q = [illegible] cfs. WHILE THE PRESENT CALCULATED Q 100 = 37.7 cfs.

L E G E N D

- ASPHALT PAVING
- LANDSCAPING AREA
- PROPERTY LINE
- EXISTING CURB & GUTTER W/INDIVIDUAL
- 107.4 TL — EXISTING SPOT ELEVATION
- 09 — EXISTING CONTOUR
- 11.50 — PROPOSED SPOT ELEVATION
- 09 — PROPOSED FINISHED CONTOUR
- PROPOSED FLOW DIRECTION
- TOP OF ASPHALT
- BUILDING SPOT
- 7A

RECEIVED
APR 30 1985
HYDROLOGY SECTION

BENCHMARK DATA:

The station is located at the intersection of Osuna Rd. NE and the North Diversion Channel. North on Second st. 4.8 mi. to Osuna Rd. NE; then East on Osuna Rd. 1.6 mi. to the crossing of the Diversion Channel. The station is in the SW quadrant. The station mark is a 2½ " brass tablet stamped NAA-54. set in concrete projecting 0.3 ft. ELEVATION: 5092.190 ft.

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ENGINEER'S CERTIFICATION

I, BO K. JOHNSON DO HEREBY CERTIFY THAT THIS DRAINAGE PLAN IS CLOSE COMPLIANCE WITH THE APPROVED DRAINAGE PLAN AND THAT THE DRAINAGE WAS DIVERTED TO THE NORTH IN LIEU TO THE SOUTH AS ORIGINALLY APPROVED.

BO K. JOHNSON
NEW MEXICO
5042
REGISTERED PROFESSIONAL ENGINEER

4/26/85

UPDATED APRIL 16, 1985

A & E ENGINEERING, INC.
CIVIL ENGINEERING · SURVEYING · PLANNING
1330 SAN PEDRO NE · SUITE 208 266-8791
ALBUQUERQUE, NEW MEXICO 87110

E17/D13