HYDROLOGY E17/D12 GULTON INDUSTRIES PLANT EXPANSION

K17-D13

GULTON

INDUSTRIES

PLANT

EXPANSION

2 PLANS

RICHARD E. LEONARD
EXECUTIVE ENGINEER

G. H. SWINBURNE, CHAIRMAN
WILLIAM J. HENEFORD, VICE CHAIRMAN
FRANCIS McCOY, SECRETARY-TREASURER
VERNON DIAZ, DIRECTOR
RICHARD H. CLOUGH, DIRECTOR

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority
2600 PROSPECT AVE. N.E.
P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 344-3516

RECEIVED
AUG 02 1978
CITY ENGINEERS

August 1, 1978

Mr. John F. Esquibel
A & E Engineering, Inc.
5823 Lomas, N. E.
Albuquerque, New Mexico 87110

Dear Mr. Esquibel:

I have reviewed your proposed plan involving Gulton Industries, Inc. for discharging surface runoff water into the Bear Canyon Arroyo. I offer the following comments:

1. Due to the depth of your proposed ditches they cannot be contained within the easement widths shown on your plan without using very steep slopes. You may wish to review this situation.

2. A letter requesing a license or permit with a legal description for your proposed outlets will be required. This should be addressed to Mr. Richard Leonard, Executive Engineer, AMAFCA. Mr. Leonard has indicated his early approval upon receipt of your formal request.

3. The berm road must be restored to its present section and properly compacted after placement of the proposed 30" pipe culvert.

4. A headwall or end section should be provided for the inlet of the 30" pipe culvert outside AMAFCA property.

Please feel free to contact this office should you have any questions.

Sincerely,

Roy Copeland Jr

Roy Copeland, Jr., P.E.
Engineer

cc: Bruno Conegliano

RC:sls

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. E17-D13 DATE: 7/18/84

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Electronics Assembly Plant For Goulton Industries

WHO	REPRESENTING
ATTENDANCE: John Esquibel	
Billy Goolsby	

FINDINGS: ① Update to file & plan indicating proposed modification & Addition.
② Address change in drainage plan per DPM.

* Please provide a copy of recap w/submittal

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Billy G. Goolsby SIGNED: [illegible]

TITLE: CE/Hydrology TITLE: [illegible]

DATE: 7/18/84 DATE: 7/18/84

INFORMATION SHEET

PROJECT TITLE Gulton Industries TYPE OF SUBMITTAL UPGRADE. For New Addition

ZONE ATLAS PAGE NO. E-17 CITY ADDRESS 6600 Gulton

LEGAL DESCRIPTION LOT 3C Block A. UNIT II - Interstate Ind. Tract

ENGINEERING FIRM A&E Engr. Inc CONTACT John F Esquibel

ADDRESS 1330 San Pedro PHONE 266-8791

OWNER Gulton Industries CONTACT Mr Shannon

ADDRESS 6600 Gulton Ct. PHONE 821-1266

ARCHITECT CCOT CONTACT Richard Ingstrom

ADDRESS PHONE 255-5591

SURVEYOR A&E Engr. Inc. CONTACT John F Esquibel

ADDRESS 1330 San Pedro PHONE 266-8791

CONTRACTOR N/A CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

✓ YES
___ NO
✓ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
AUG 23 1984
HYDROLOGY SECTION

DATE SUBMITTED: 8/23/84

BY: John F Esquibel

This is only an addition over existing pavement. Original Report approved E-17-D-13 april 1978.

INFORMATION SHEET

PROJECT TITLE GULTON INDUSTRIES PLANT EXPANSION 3 TYPE OF SUBMITTAL REVISED SITE DRAINAGE PLAN.

ZONE ATLAS PAGE NO. E-17 D CITY ADDRESS 6600 GULTON COURT N.E.

LEGAL DESCRIPTION LOT 3C BLOCK 'A' UNIT II INTERSTATE INDUSTRIAL TRACT

ENGINEERING FIRM H&E ENGINEERING CONTACT JOHN ESQUIBEL

ADDRESS 1330 SAN PEDRO NE SUITE 101 PHONE 266-8791

OWNER GULTON INDUSTRIES INC. CONTACT GEORGE FRIBERG

ADDRESS 6600 GULTON COURT N.E. PHONE

ARCHITECT CCIC DESIGN GROUP CONTACT DICK ENGSTROM

ADDRESS 3500 INDIAN SCHOOL ROAD PHONE 266-5521

SURVEYOR — CONTACT

ADDRESS PHONE

CONTRACTOR — CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

___ YES
X NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED
AUG 24 1984
HYDROLOGY SECTION

DATE SUBMITTED: August 24, 1984

BY: Doug Gallagher

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

September 21, 1984

John Esquibel
A & E Engineering
1330 San Pedro NE, Suite 101
Albuquerque, New Mexico 87110

RE: GULTON INDUSTRIES PLANT EXPANSION (E17-D13) RECEIVED AUGUST 28, 1984

Dear John,

The Above referenced plan, dated August 17, 1984 is approved.

Please attach a copy of this approved plan to the construction set prior to hydrology sign-off.

If I can be of further assistance, please contact me at 766-7644.

Yours truly,

Billy J. Goolsby

Billy J. Goolsby, PE
Civil Engineer/Hydrology

BJG/cl

FILE
E17-D13

Klinger Constructors, Inc.

Febrauary 28, 1985

Mr. Steve Chavez
City of Albuquerque
Hydrology Dept.

Re: 6600 Gulton Court

Dear Steve:

We, Klinger Constructors, Inc. and Gulton Industries, understand that the temporary certificate of occupancy issued by the Hydrology Department in no way relieves us of our commitment to complete the site work as shown on the plans. Further more, we understand that this work must be complete with-in 30 days of issuance of the temporary certificate of occupancy.

Klinger Constructors, Inc.

Don Hibbs for George Fiberg
Gulton Industries

American Financial Center • Bldg. #4, Suite 110 • 2400 Louisiana Blvd. N.E.
Box 35489 • Albuquerque, New Mexico 87176 • (505) 881-4961
N.M. License No. 20545

INFORMATION SHEET

E17-D-13

PROJECT TITLE Gulton Industries TYPE OF SUBMITTAL Updated Drainage Plan

ZONE ATLAS PAGE NO. E-17 CITY ADDRESS 6600 Gulton Ct. NE

LEGAL DESCRIPTION Lot 3 C Unit II Industrial Tract

ENGINEERING FIRM A&E Engr. Inc CONTACT John F Equitol / Bo Johnson / R G Lee

ADDRESS 1336 San Pedro PHONE 266-8791

OWNER Gulton Industries CONTACT Richard Engstrom

ADDRESS PHONE 843-7789

ARCHITECT RICHARD Engstrom A.I.A. CONTACT Dick Engstrom

ADDRESS 320 Central 112 PHONE 843-7789

SURVEYOR A&E Engr Inc CONTACT John F Equitol (Bo Johnson)

ADDRESS 1336 San Pedro NE PHONE 266-8791

CONTRACTOR Klinger Const. City CONTACT Mr Enstrom (843-7789

ADDRESS P.O Box 35489 PHONE 881 4961

PRE-DESIGN MEETING:

X YES
___ NO
___ COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED
APR 19 1985
HYDROLOGY SECTION

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY APPROVAL — updated grading & drainage
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 4/19/

BY: John F Equitol

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

May 2, 1985

Mr. Bo Johnson
A & E Engineering, Inc.
1330 San Pedro NE, Suite 208
Albuquerque, NM 87110

REF: CERTIFICATION FOR GULTON INDUSTRIES (E17-D13) RECEIVED APRIL 30, 1985

Dear Mr. Johnson:

Based on the information provided on your April 30, 1985 resubmittal, certification for the above referenced site is acceptable.

If you have any questions or comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Engineering Asst. C.E., Hydrology

BJM:mrk

DRAINAGE REPORT

FOR

GULTON INDUSTRIES,

ELECTRONICS ASSEMBLY PLANT & OFFICE

ALBUQUERQUE, NEW MEXICO

PREPARED FOR:

CHANT CORPORATION

6207 PAN AMERICAN FREEWAY NE

ALBUQUERQUE, NEW MEXICO

BY:

A & E ENGINEERING, INC.

5823 LOMAS BOULEVARD NE

ALBUQUERQUE, NEW MEXICO

Theodore M. Conrardy

THEODORE M. CONRARDY

REGISTERED PROFESSIONAL

ENGINEER NO. 2933

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 2933 NEW MEXICO T. M. CONRARDY

A&E ENGINEERING INC.
CIVIL ENGINEERING, LAND PLANNING, AND SURVEYING

June 14, 1978

Chant Corporation
6207 Pan American Freeway NE
Albuquerque, New Mexico 87110

Dear Sir:

We are transmitting this drainage report on the Gulton Industries Electronics Assembly Plant and Office in Albuquerque, New Mexico, located on Lot 3-C, Block A, Unit II of the Interstate Industrial Tract. The control of the runoff shall comply with the requirements of the Albuquerque Metropolitan Arroyo Flood Control Authority and with present City of Albuquerque policies.

We do appreciate this opportunity to serve you. If any questions develop, we will be available to assist you in your response.

Very truly yours,

A & E ENGINEERING, INC.

John F. Esquibel,
President

JFE/lk

5823 LOMAS N.E. ALBUQUERQUE, NEW MEXICO 87110 505/266-8791

DRAINAGE REPORT

FOR

GULTON INDUSTRIES

ELECTRONICS ASSEMBLY PLANT AND OFFICE

ALBUQUERQUE, NEW MEXICO

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GENERAL:

This drainage report consists of a hydrologic study of a probable 100- year storm affecting this proposed development on Lot 3-C, Block A, Unit II of the Interstate Industrial Tract.

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 620 feet South of Osuna Road NE, North of Bear Canyon Arroyo and 0.4 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 West, tract B, Group 9, Industrial Park and Rust tractor Property on the East, and by Bear Canyon Arroyo on the South.

The existing terrain for the parcel slopes to the West at about 1.8 per cent grade.

PROPOSED DEVELOPMENT:

This parcel of land is to be developed into Gulton Industries Electronics Assembly Plant and Office. It will be graded, paved, and landscaped to shed storm water off the property, so that the runoff drains to a Channel on the West side and thence South to the Bear Canyon Arroyo.

PROPOSED DRAINAGE PLANS:

In order to control the on-site drainage developed by this proposed development, the area has been designed with limiting grades in order to reduce run off velocities.

On-site run off will flow west to a channel in a 20 foot drainage easement and thence south and into the Bear Canyon Arroyo.

Off-site run off from the East will flow south to the Bear Canyon Arroyo in a 10 foot wide drainage easement with channel on the East edge of the development.

DISCUSSION OF METHOD:

Development of this area will be controlled by the guidelines set forth in the recent Resolution of the Albuquerque Metropolitan Arroyo Flood Control Authority and the City of Albuquerque.

The amount of storm water is computed by using a 100-year storm, this being a storm consisting of 100-year 6 hours precipitation as shown by the rainfall frequency maps for New Mexico, June 1967, published by the Special Studies Branch, Office of Hydrology, United States Weather Bureau.

The entire lot drains immediately into the Bear Canyon Arroyo and therefore requires no ponding of excess run off created by development of this area.

On-Site Drainage Calculations:

The quantity of on-site runoff that will low into the proposed drainage channel on the west edge of the subject property was determined by using the rational formula:

$$Q = CIA \text{ (Pational Formula method)}$$

$$t_c = \left(\frac{11.2\ (L)^3}{H}\right)^{0.385}$$

$$I = \frac{189}{t_c + 25} \quad \text{(100 year frequency)}$$

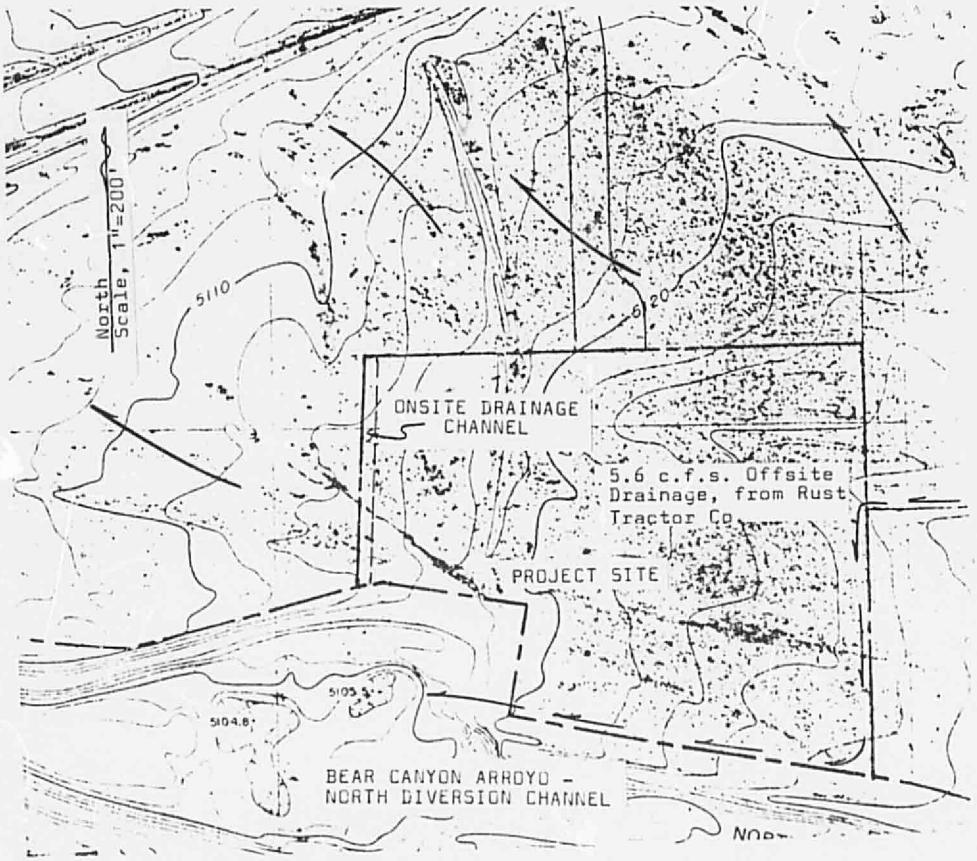
Developed Area

A = 5.580 Ac.	H = 14 ft.	L = 0.150 Mi.
t_c = 0.102	I = 7.529	C = 0.90

$$Q = CIA = 0.90 \times 7.529 \times 5.580 = 37.81 \text{ c.f.s.}$$

CHANNEL CHART
2:1 b = 10 FT.
VELOCITY F.P.S.
Vn SCALE
20' DRAINAGE E'MENT
n = .03
1' MAX. DEPTH
2:1
10'
DEPTH IN FEET
CRITICAL CURVE
SLOPE - FEET PER FOOT
DISCHARGE CUBIC FEET PER SECOND - Q
Qn
Q
CHART 23

OFFSITE DRAINAGE PLAN



CHANNEL CHART
2:1 b = 3 FT.

SUMMARY:

It is recommended that this development be approved since the computations show that the proposed design is adequate to satisfactorily handle a 100-year storm.