HYDROLOGY H16/D29 2 PLANS

H16/D29

2 PLANS

Drainage Report Addendum

Office, Warehouse, Brunacini Indrustrial Park, Unit 5
2445 Manual Blvd. NE

The following are responses to your request for additions and changes to the referenced drainage report. Memorandum, Brian Burnett to Ray Harrison, dated August 12, 1981.

1a. Site delineated on the attached flood hazard map.

b. This site is the old path of the Embudo Arroyo and has about 20 feet of fill. The effect of this on drainage is unknown.

c. Offsite water shed. This site was reviewed when it was replated. It was agreed that Lot 2 would be graded to drain across Lot 1 at a 10 foot drainage easement at the North end of the tract, when developed. There is an agreement between the owner and the City in the City Engineer Files. The offsite drainage is delineated on the attached Flood hazard map.

d. There are no other conditions that effect offsite drainage.

e. See item c.

F. Ponding and dimensions are called out on the drawing.

g. See Item f

h. The discharge pipe is more clearly called out on the drawing. The retaining of low flow amounts on the site when ponding is landscaped or natural earth area is an excellent idea, The same ponding on pavement as in this case will cause maintance proplems.

k. The 100 year pond is outlined on the drawing.

l. Additional notes have been added to clarify the drawing.

Ray L. Harrison
Ray L. Harrison

RECEIVED
AUG 17 1981
CITY ENGINEER

SYSTEM
OFF
ELO
LOONEY
SITE
PROSPECT
AREA 2

SYSTEM
Lot 2
Lot 1
AREA 2

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

April 13, 1984

Mr. Ray Harrison
Ray Harrison & Associates
1517 A Girard NE
Albuquerque, New Mexico 87106

RE: REVISED GRADING & DRAINAGE PLAN FOR OFFICE/WAREHOUSE
FOR D. WALKER (H16-D29) RECEIVED MARCH 27, 1984

Dear Ray,

I have reviewed the above referenced plan and forward the following comments:

1. Before I can give final approval a standard 24 inch X 36 inch plan sheet for inclusion in the construction set will have to be provided to this office for review and approval.

2. This plan is called a revised drawing; however, the revision(s) is not identified. I don't know what was revised or why.

3. What is the capacity of Vassar Drive NE and where do the flows go?

Should you have any questions or comments, please contact me.

Yours truly,

Billy J. Goolsby

Billy J. Goolsby, P.E.
City/County Flood Ordinance Administrator

BJG/ca

INFORMATION SHEET
D. Walker

PROJECT TITLE Office Warehouse for TYPE OF SUBMITTAL Revised drawing

ZONE ATLAS PAGE NO. H 16 CITY ADDRESS 2445 Menual NE XXXXX

LEGAL DESCRIPTION Lot 1 Brunacini Industrial Park Unit 5

ENGINEERING FIRM Ray Harrison & Assoc CONTACT Ray Harrison

ADDRESS 1517 A Girard NE PHONE 265 4276

OWNER Dave Walker CONTACT Dave Walker

ADDRESS Unable t o find PHONE 883 1533

ARCHITECT Don't know CONTACT

ADDRESS PHONE

SURVEYOR Ray Harrison CONTACT same

ADDRESS PHONE

CONTRACTOR Dave Walker CONTACT Dave Walker

ADDRESS Unable to find PHONE 883 1533

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
___ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
X OTHER Revised Drawing (SPECIFY)

DATE SUBMITTED: 3/ 23/84

BY: Ray Harrison

RECEIVED
MAR 27 1984
HYDROLOGY SECTION

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

H16-D29

August 20, 1981

Mr. Ray Harrison
Ray Harrison & Associates
1517 Girard Blvd. N.E.
Albuquerque, N.M. 87106

RE: OFFICE/WAREHOUSE - BRUNACINI INDUSTRIAL TRACT, UNIT #5

Dear Ray:

The referenced drainage report is hereby approved based on the revised plans submitted on August 19, 1981. Please see that one copy of the revised plan is placed in the construction set so that sign-off of the plans will not be delayed. Also, please supply this office with a completed copy of the drainage covenant as soon as possible.

Again, thank you for your cooperation in supplying the required drainage information.

Very truly yours,

Brian G. Burnett

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

cc: Mr. Dave Walker
10905 Central NE, 87123

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

DRAINAGE PLAN

August 4, 1981

AUG 0 4 1981

LOT 1,

BRUNACINI INDRUSTRIAL PARK UNIT 5
2445 Menual Blvd. NE

RECEIVED
AUG 0 4 1981
ENGINEERING

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

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE Office Warehouse for D Walker

ZONE ATLAS PAGE NO. H-16 CITY ADDRESS 2445 Menual NE

LEGAL ADDRESS Lot 1 Brunacini Indrustrial Park Unit5

ENGINEERING FIRM RAY HARRISON & ASSOCIATES CONTACT Ray Harrisonn

ADDRESS 1517 A Girard NE 87106 PHONE 265 4276

OWNER Dave Walker CONTACT Dave Walker

ADDRESS 10905 Central NE PHONE 292 5081

ARCHITECT/SURVEYOR Ray Harrison & Associates CONTACT Ray Harrison

ADDRESS Same PHONE Same

DATE SUBMITTED August 17,1981

BY Ray Harrison

RECEIVED
AUG 17 1981
CITY ENGINEER

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

H16-D29

August 18, 1981

Mr. Ray Harrison
Ray Harrison & Associates
1517 A Girard N.E.
Albuquerque, N.M. 87106

RE: OFFICE/WAREHOUSE - BRUNACINI INDUSTRIAL PARK UNIT 5 DRAINAGE REPORT

Dear Ray:

A review of your submittal of August 17, 1981 has resulted in the following comments:

1. Item h; my letter of August 12, 1981. The discharge pipe invert should be called out on SECTION 2/1.

2. Item i; my letter of August 12, 1981. Are there any existing structures and drainage facilities located on adjacent property?

3. Item j; my letter of August 12, 1981. I am still concerned about the area south of the building. It appears that water will stand in low spot indicated by the F.G. elevation 89.3. Could this elevation be raised as well as the F.G. 89.5 to the west? The plans should also:

   a. Indicate spot elevations through the planter to the 89 contour.

   b. Indicate the planter openings called out on the plans.

4. Item l; my letter of August 12, 1981. The ground cover for the easement channel should be called out on the plans. If the channel is to be earth lined, a rip-raped splash pad should be constructed at the discharge pipe outlet.

5. All other items listed in my letter have been adequately addressed.

I appreciate your cooperation in meeting the requirements set forth by this Department. If I can be of further help on the above items, please call.

Very truly yours,

Brian G. Burnett

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

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

H16-D29

August 18, 1981

Mr. Ray Harrison
Ray Harrison & Associates
1517 A Girard N.E.
Albuquerque, N.M. 87106

RE: OFFICE/WAREHOUSE - BRUNACINI INDUSTRIAL PARK UNIT 5 DRAINAGE REPORT

Dear Ray:

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Very truly yours,

Brian G. Burnett

Brian G. Burnett
Civil Engineer/Hydrology

BGB/tsl

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

H16-D29

August 12, 1981

Mr. Ray Harrison
Ray Harrison & Associates
1517 Girard Blvd. N.E.
Albuquerque, New Mexico 87106

Re: OFFICE/WAREHOUSE - BRUNACINI INDUSTRIAL PARK, UNIT 5
DRAINAGE REPORT

Dear Ray:

A review of the referenced drainage report has resulted in the comments listed below. The numbers correspond to the Drainage Report (DR) and Construction Plan (CP) checklists.

1. The following items should be addressed:

✓ a. The delineation of the site on a pertinent Flood Hazard Boundary Map placed on the plan (DR #4).

✓ b. The site soil identified (DR #5).

✓ c. The delineation of the off-site contributing watershed on City Ortho-Topo Maps -(DR #7). The off-site watershed is not clearly identified on the plans.

✓ d. Discussion of any off-site conditions or drainage facilities that affect site drainage (DR #10).

✓ e. Statement addressing treatment of off-site flows (DR #11). How are the off-site flows going to be diverted to the drainage easement? What type of conveyance structure is to be used for the diversion? Does the runoff contained in the easement channel drain onto Vassar?

✓ f. Location of required drainage facilities (DR #15B). The ponding area should be called out on the plans.

✓ g. Pond volume calculations (DR #15B1). The length of the pond does not scale to 105 ft. The distance between the curb faces is 100 ft.

h. Positive discharge of ponds. (DR #15B2). The location of the discharge pipe is not shown on the plans. Section 2/1 does not give adequate detail or dimensions to construct. (Note: This department is now requesting that low flow amounts be retained on-site. Therefore, the pipe invert should be placed slightly above the finished grade of the pond).

i. Identification of all existing structures and drainage facilities located on adjacent property (DR #21D and #21E).

j. Flow pattern defined by arrows (DR #21F). What is the flow pattern around the planter along the southern boundary? Won't water pond at the low point labelled 89.3? (Spot elevations are needed here).

k. 100 year pond depth outlined (DR #21G).

l. Notes defining property line, asphalt sidewalks, planting areas, ponding areas, and all other areas whose definition would increase clarity (DR #21H).

2. The City of Albuquerque is now requiring that the owner of the property be required to construct, maintain, and operate storm drainage facilities substantially in compliance with the approved drainage concepts. This document is contained in the drainage packet you received recently. We urge its completion at the earliest possible date.

3. We would also appreciate receiving a completed copy of the Drainage Report Information Sheet. This document is also contained in the drainage packet.

If I can answer any further questions concerning these matters, please call.

Very truly yours,

Brian G. Burnett

Brian G. Burnett
Civil Engineer/Hydrology

BGB/fs

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

H16-D29

August 12, 1981

Mr. Ray Harrison
Ray Harrison & Associates
1517 Girard Blvd. N.E.
Albuquerque, New Mexico 87106

Re: OFFICE/WAREHOUSE - BRUNACINI INDUSTRIAL PARK, UNIT 5
DRAINAGE REPORT

Dear Ray:

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   b. The site soil identified (DR #5).

   c. The delineation of the off-site contributing watershed on City Ortho-Topo Maps -(DR #7). The off-site watershed is not clearly identified on the plans.

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   e. Statement addressing treatment of off-site flows (DR #11). How are the off-site flows going to be diverted to the drainage easement? What type of conveyance structure is to be used for the diversion? Does the runoff contained in the easement channel drain into Vassar?

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If I can answer any further questions concerning these matters, please call.

Very truly yours,

Brian G. Burnett

Brian G. Burnett
Civil Engineer/Hydrology

BGB/fs

Americon Contracting Company, Inc.

file in H16-D29 D29

May 13, 1981

City of Albuquerque
Municipal Development Department
P.O. Box 1293
Albuquerque, New Mexico 87103

To Whom It May Concern:

If we develop Lot 2 of Tract T, Brunacini Industrial Park, amended Plat filed March 27, 1980, C16-122, we will drain the property into the drainage ditch on the north end of Lot 1, which drains into Vassar Drive, N.E.

Sincerely,

David Walker

David Walker

Judy Walker

Judy Walker, his wife

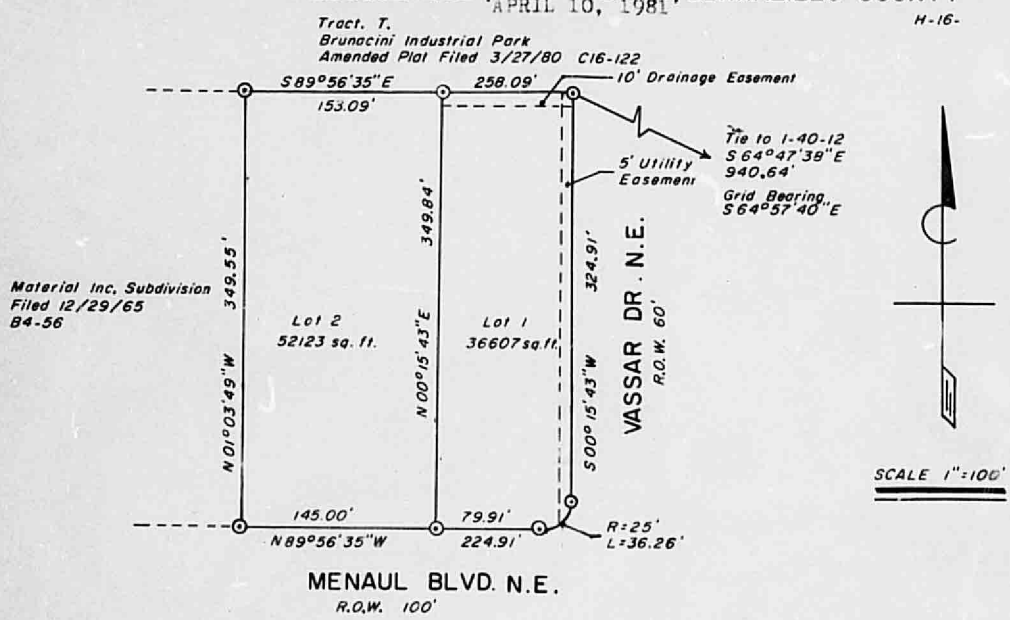
N. M. LIC. #14394 GB 98
P. O. BOX 11847 • ALBUQUERQUE, NEW MEXICO 87192 • (505) 345-3679

BRUNACINI INDUSTRIAL PARK , UNIT 5

ALBUQUERQUE , NEW MEXICO, BERNALILLO COUNTY

APRIL 10, 1981

H-16-



⊙ Set 5/8" Rebar w/cap.

Total Acres = 2.0370

Basis of Bearings. ADJACENT BRUNACINI INDRUSTRIAL PARK SUBDIVISIONS

DRAINAGE PLANS INCLUDING PONDING WILL BE SUBMITTED WITH THE CONSTRUCTION PLANS

THE SUBDIVISION OF THE TRACT OF LAND SHOWN HEREON AND DESCRIBED AS FOLLOWS:

A CERTAIN TRACT OF LAND SITUATED IN SECTION 10, T 10 N, R 3 E, N.M.P.M., ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.
BY SURVEY:
BEGINNING AT THE NORTHEAST CORNER OF THE TRACT, WHICH TIES TO STATE HIGHWAY DEPARTMENT MONUMENT I-40-12 (BRASS CAP) S 64° 47' 38" E 940.64 FEET,
THENCE S 00° 15' 43"W 324.91 FEET ALONG THE WEST RIGHT OF WAY LINE OF VASSAR DRIVE NE TO A POINT,
THENCE ON A CURVE TO THE RIGHT R = 25.00 L = 36.26 FEET TO A POINT
THENCE N 89° 56' 35" W 224.91 FEET ALONG THE NORTH RIGHT OF WAY LINE OF MENAUL BLVD. NE TO THE SOUTHWEST CORNER,
THENCE N 01° 03' 49" w 349.55 FEET TO THE NORTHWEST CORNER,
THENCE S 89° 56' 35" E 258.09 FEET TO THE NORTHEAST CORNER AND POINT OF BEGINNING, CONTAINING 2.0370 ACRES.

IS WITH FREE CONSENT AND ACCORDING TO THE DESIRES OF THE UNDERSIGNED OWNERS AND PROPRIETORS THEREOF AND SAID OWNERS AND PROPRIETORS DO GRANT EASEMENTS AS SHOWN.

John Brunacini Mary T. Brunacini

STATE OF NEW MEXICO
COUNTY OF BERNALILLO } SS

OFFICIAL SEAL
FAITH DWYER
NOTARY PUBLIC, NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires

Faith Dwyer

I CERTIFY THAT THIS PLAT WAS PREPARED BY ME FROM A FIELD SURVEY, SHOWS EASEMENTS OF RECORD MEETS CITY SURVEY STANDARDS AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ray L. Harrison
RAY L. HARRISON

APPROVALS: CITY OF ALBUQUERQUE

TALOS NO. 04 13 452

PROPERTY MANAGEMENT

RSH/[illegible] 5/14/81
CITY ENGINEER

APPROVAL AND CONDITIONAL ACCEPTANCE

PLANNING DIRECTOR

DATE

MAP NO. H 16

SUBDIVISION NO.

CITY

Check Signed &
AMAFCA
5/14/81
Kept. Letter

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. NA DATE:

PLANNING DIVISION NO.

CONFERENCE RECAP

SUBJECT: PARCEL AT Vassar & Hawk
Romancini Ind. Park Unit 5 Tr 1

ATTENDANCE: WHO	REPRESENTING
B. Coughlin	City of Albuq
Giulio Vincioni	

FINDINGS: Need Committment in writing from buyer that
(1) Assessment for Paving of Vassar against entire tract will not be protested (Paving will protect lot 2 from offsite waters)
(2) A comprehensive dr. report for both lots will be required since a dr. easement on lot 2 for lot 1 may be needed.
A letter outlining this understanding, duly recorded will allow release of the Summary plat
Advised to have Romancini talk w/ Leonard Tim re: a dr. easement. To give the property an or

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: SIGNED: Bruno Coughlin P.C

TITLE: TITLE:

DATE: DATE: 4/28/81

HYDROLOGY H14/D29 1 PLAN

H14/D29

1 PLAN

READING FILE

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

April 3, 1984

Mr. John Bettis
Enchantment Engineering
9910 Indian School Road NE
Albuquerque, NM 87108

REF: WAREHOUSE FOR LARRY VIGIL E 120' TRACTS 36, 37, 38 of BLOCK 14
FRANCISCAN ADDITION (H14-D29)

Dear Mr. Bettis:

Based on the information that you have provided on your April 2, 1984 resubmittal, the above referenced drainage plan is approved.

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

Sincerely,

Bernie J. Montoya
Hydrologic Engineering Tech, CE

BJM:mrk

INFORMATION SHEET

PROJECT TITLE Warehouse 989 TYPE OF SUBMITTAL

ZONE ATLAS PAGE NO. H-14 CITY ADDRESS 2421 1st st. NW

LEGAL DESCRIPTION East 120' of Tracts 36,37 & 38, Block 14, Franciscan Addn.

ENGINEERING FIRM Enchantment Engr. CONTACT John Bettis

ADDRESS 9910 Ind. Sch. NE PHONE 294-8859

OWNER Larry Vigil CONTACT Larry Vigil

ADDRESS 906 Ortega NW PHONE 898-6930

ARCHITECT Bill Buckley CONTACT Bill Buckley

ADDRESS 724 San Mateo NE PHONE 255-9196

SURVEYOR Oliver Trujillo CONTACT Oliver Trujillo

ADDRESS 221 Avalon Pl. NW PHONE 836-0328

CONTRACTOR Larry Vigil CONTACT Larry Vigil

ADDRESS 906 Ortega NW PHONE 898-6930

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
___ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 4-02-1984

BY: John L. Garcia for Larry Vigil

REGISTERED PROFESSIONAL ENGINEER
NO. 3441
NEW MEXICO
JOHN W. BETTIS

RECEIVED
APR 02 1984
HYDROLOGY SECTION

DRAINAGE REPORT FOR THE EAST 120 FEET OF TRACTS 36,37 AND 38

BLOCK 14, FRANCISCAN ADDITION, ALBUQUERQUE, NEW MEXICO

RECEIVED
APR 02 1984
HYDROLOGY SECTION

DRAINAGE REPORT FOR THE EAST 120 FEET OF TRACTS 36, 37 AND 38, BLOCK 14, FRANCISCAN ADDITION, ALBUQUERQUE, NEW MEXICO

The area covered in this report consists of a tract of land 75 by 120 feet and being identified as the East 120 feet of Tracts 36, 37 and 38, Block 14, Franciscan Addition filed in the office of the County Clerk of Bernalillo County, New Mexico on December 17, 1934.

Soils in the area are of the Glendale series, though for the purposes of this report the soil types have little effect, other than that of foundation suitability. The entire tract will be covered by buildings or pavement.

The tract has a two to two and one half foot block wall topped with a six foot chain link fence on the North, South and West sides. The tract is from one to one and one half feet higher than the surrounding land. Historical use of the tract was a parking lot for an ambulance company.

It is proposed to retain the existing walls, fences and building and erect a warehouse on the Western portion of the tract. A paved parking and driveway area will cover most of the remaining land. The existing curb and gutter, sidewalk and driveway will be retained also.

All drainage from the buildings and parking lot will be directed toward the driveway into 1st. Street. There is no contributing offsite drainage. The point of discharge into

1st Street is presently subjected to flows emanating from Menaul Street and the area directly North of the proposed development. No quantifications were included for these flows since the only area they drain comprises about one and one half acres. It was felt that the forty foot paving width on 1st Street was capable of handling the drainage from one and one half acres. From the point of discharge into 1st Street the generated drainage flows South, eventually emptying into a Storm drain at the intersection of Indian School and 1st Street.

Existing and after development drainage quantities on the proposed development are shown on the grading plan which is part of this report. It is felt that the low volume of runoff generated by the development will have little effect on existing flows on 1st street.

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

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

March 21, 1984

Mr. John Bettis
Enchantment Engineering
9910 Indian School Road NE
Albuquerque, NM 87108

REF: WAREHOUSE FOR LARRY VIGIL E 120' TRACTS 36, 37, & 38, BLOCK 14
FRANCISCAN ADDITION (H14-D29)

Dear Mr. Bettis:

Based on the information that you have provided on your submittal of March 2, 1984, certain items listed below will have to be addressed before final approval is granted:

1. Complete information sheet with resubmittal.

2. Professional's stamp with signature and resubmittal date.

3. Recompute on-site conditions showing undeveloped and developed flow volumes and rates (use DPM guidelines).

4. Show location of existing and proposed roof drains.

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya
Hydrologic Engineering Tech.
C.E.

BJM:mrk

INFORMATION SHEET

PROJECT TITLE Tracts 36,37-38 Blk 14, Franciscan Addn TYPE OF SUBMITTAL _____

ZONE ATLAS PAGE NO. H-14 CITY ADDRESS 2421 1st St NW

LEGAL DESCRIPTION E 120' Tracts 36,37+38, Blk 14 Franciscan Addn

ENGINEERING FIRM Enchantment Engr. CONTACT John Bettis

ADDRESS 9910 Ind. Sch Rd NE PHONE _____

OWNER Larry Vigil CONTACT Larry Vigil

ADDRESS 906 Ortega NW PHONE 898-6930

ARCHITECT _____ CONTACT _____

ADDRESS _____ PHONE _____

SURVEYOR John Bettis CONTACT _____

ADDRESS 9910 Ind. Sch Rd NE PHONE _____

CONTRACTOR Larry Vigil CONTACT _____

ADDRESS 906 Ortega NW 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
✓ BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

RECEIVED MAR 02 1984 HYDROLOGY SECTION

DATE SUBMITTED: 3-02-1984

BY: John L. Garcia for Larry Vigil