CITY OF ALBUQUERQUE



June 29, 2006

Mr. Shahab Biazar, P.E.

ADVANCED ENGINEERING AND
CONSULTING, LLC

4416 Anaheim Avenue NE
Albuquerque, NM 87113

Re: SITIO BUSINESS PARK, BUILDINGS 1 & 2

6615 Edith Blvd. NE

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 09/20/2004 (E-15/D14)

Certification dated 06/28/2006

P.O. Box 1293

Dear Shahab,

Albuquerque

Based upon the information provided in your submittal received 06/29/2006, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

New Mexico 87103

If you have any questions, you can contact me at 924-3982.

www.cabq.gov

Sincerely,

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

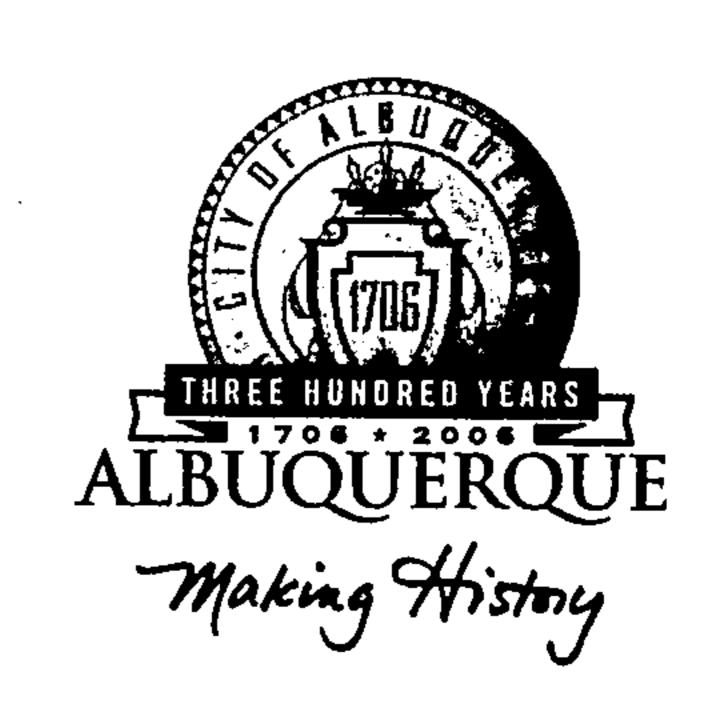
Development and Building Services

C:

C.O. Clerk

File

CITY OF ALBUQUERQUE



November 3, 2004

Shahab Biazar, P.E.
Advanced Engineering and Consulting, LLC
4416 Anaheim Ave. NE
Albuquerque, NM 87113

Re: SITIO Business Park, 6615 Edith Blvd NE, Grading and Drainage Plan Engineer's Stamp dated 9-20-04 (E15-D14)

Dear Mr. Biazar,

Based upon the information provided in your submittal received 9-23-04, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Before applying for Certificate of Occupancy, please submit a copy of the private drainage covenant to allow drainage into the pond. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

P.O. Box 1293

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

New Mexico 87103

If you have any questions, you can contact me at 924-3981.

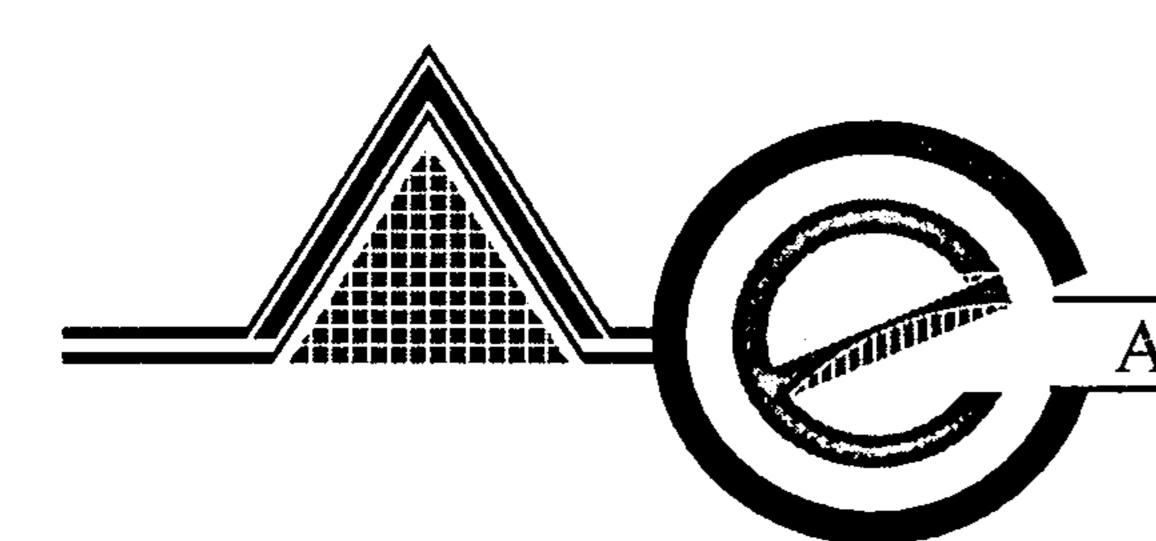
www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design File



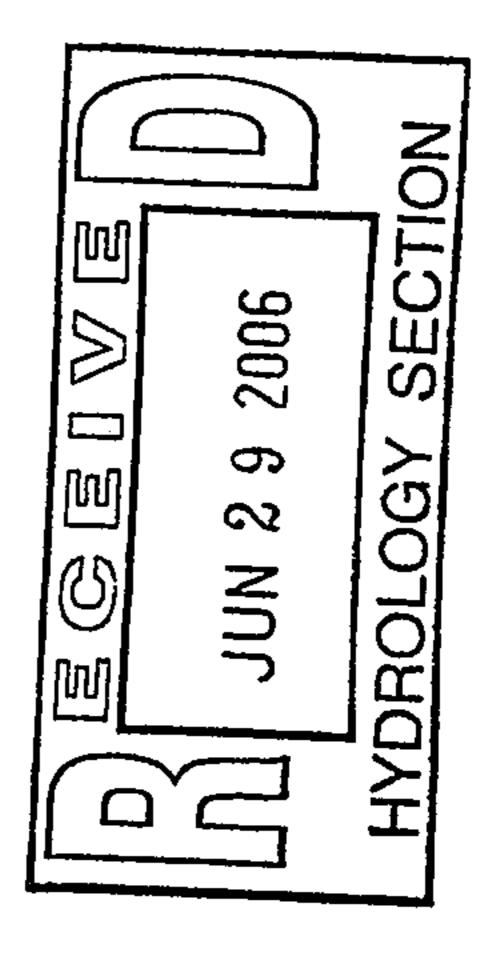
ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection

Surveying

June 28, 2006

Ms. Kristal Metro, P.E.
Senior Engineer Associate, Planning Dept.
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102



RE: FINAL CERTIFICATION OF OCCUPANCY FOR SITIO BUSINESS PARK. 6615 EDITH BOULEVARD NE (E15 / D14)

Dear Ms. Metro:

This letter is in request of Final Certification of Occupancy for the above mentioned project. The request for Final Certification is only for the southerly and westerly located buildings. The building located to the north is under the construction. The pavement around the northerly building is not in place. All the storm sewer infrastructure are constructed. All the pavement around the buildings were Final Certification is being requested is in place. I Shahab Biazar, NMPE, of the Advanced Engineering, LLC hereby certify that project has been graded and will drain in substantial compliance with and design intent of the approved plan dated 9/20/2004. See attached as-built grades.

Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours

Shahab Biazar, P.E.

2004148772 6162270 Page: 1 of 5 10/22/2004 12:02P 8k-A85 Pg-8360 #1

PRIVATE FACILITY DRAINAGE COVENANT

This Drainage Covenant, between [state the name of the present real property owner exactly as

| shown on the real estate document conveying title for example, "single person" "husband and to | wife," "corporation of the State of <u>NM</u> ," or |
|--|--|
| "partnership":] | |
| SITIO LTD. Co. | ("Owner"), |
| whose address is 5610 San Francisco NE, Al | Lb., NM 87109, and the City of Albuquerque, |
| a New Mexico municipal corporation ("City"), when the control of the corporation ("City"), when the corporation ("City"), wh | nose address is P.O. Box 1293, Albuquerque, New Mexico |
| | , New Mexico and is entered into as of the date Owner signs |
| this Covenant. | |
| | of the following described real property located at [give legal |
| description, and street address: | MRGCD Map # 29 |
| ILACC 43-b; | MINGCD M ZJ |
| | |
| in Bernalillo County, New Mexico (the "Property" | ') . |
| Pursuant to City ordinances, regulations | and other applicable laws, the Owner is required to construct |
| and maintain certain drainage facilities on the P | roperty, and the parties wish to enter into this Covenant to |
| establish the obligations and responsibilities of the | |
| 2. <u>Description and Construction of</u> | Drainage Facility. The Owner shall construct the following |
| | ner's sole expense in accordance with the standards, plans |
| and specifications approved by the City: | |
| Parking Lot Detention Pond | <u> </u> |
| (See Exhibit "A") | and in Evhibit A attached hereto and made a part hereof |
| The Drainage Facility is more particularly describ | ped in Exhibit A attached hereto and made a part hereof. |
| 3. <u>Maintenance of Drainage Facili</u> Owner's sole cost in accordance with the approx | ty. The Owner shall maintain the Drainage Facility at the red Drainage Report and plans. |
| | • |
| 4. Benefit to Property. The Owner | r acknowledges and understands that the Drainage Facility |
| required herein to be constructed on the Owne | r's property is for the private benefit and protection of the |
| Owner's property and that failure to maintain suc | ch facility could result in damage or loss to the Property. |
| 5. <u>Inspection of Drainage Facility</u> . | The City shall have no duty or obligation whatsoever to |
| perform any inspection, maintenance or repair of | the Drainage Facility, it being the duty of the Owner, its heirs, |
| | ntain the facility in accordance with approved plans and |
| specifications. | |
| 6. <u>Liability of City</u> . The Owner und | derstands and agrees that the City shall not be liable to the |

Mary Herrera

Owner, its heirs, successors or assigns, or to any third parties for any damages resulting from the Owner's failure to construct, maintain or repair the Drainage Facility.

- 7. Indemnification. The Owner owns and controls the Drainage Facility and shall not permit the Drainage Facility to constitute a hazard to the health or safety of the general public. The Owner agrees to indemnify, defend and hold harmless the City, its officials, agents and employees, from any claims, actions, suits or other proceedings arising from or out of the negligent acts or omissions of the Owner, its agents, representatives, contractors or subcontractors or arising from the failure of the Owner, its agents, representatives, contractor or subcontractors to perform any act or duty required of the Owner herein; provided, however, to the extent, if at all, Section 56-7-1 NMSA 1978 is applicable to this Agreement, this Agreement to indemnify will not extend to liability, claims, damages, losses or expenses, including attorney's fees, arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications by the respective indemnitee, or the agents or employees of the respective indemnitee; or (2) the giving of or the failure to give direction or instructions by the respective indemnitee, where such giving or failure to give directions or instructions is the primary cause of bodity injury to persons or damage to properly.
- 8. <u>Assessment.</u> Nothing in this Covenant shall be construed to relieve the Owner, its heirs, assigns and successors from an assessment against the Owner's Property for improvements to the Property under a duly authorized and approved Special Assessment District. The parties specifically agree that the value of the Drainage Facility will not reduce the amount assessed by the City.
- g. Binding on Owner's Property. The covenants and obligations of the Owner set forth herein shall be binding on the Owner, its heirs, assigns and successors and on the Owner's Property and constitute covenants running with the Owner's Property until released by the City. This Covenant can only be released by the City's Chief Administrative Officer with the concurrence of the City Engineer.
- 10. <u>Entire Covenant</u>. This Covenant contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral or written, whether previous to the execution hereof or contemporaneous herewith.
- 11. <u>Changes to Covenant</u>. Changes to this Covenant are not binding unless made in writing, signed by both parties.
- 12. <u>Effective Date of Covenant</u>. This Covenant shall be effective as of the date of signature of the Owner.

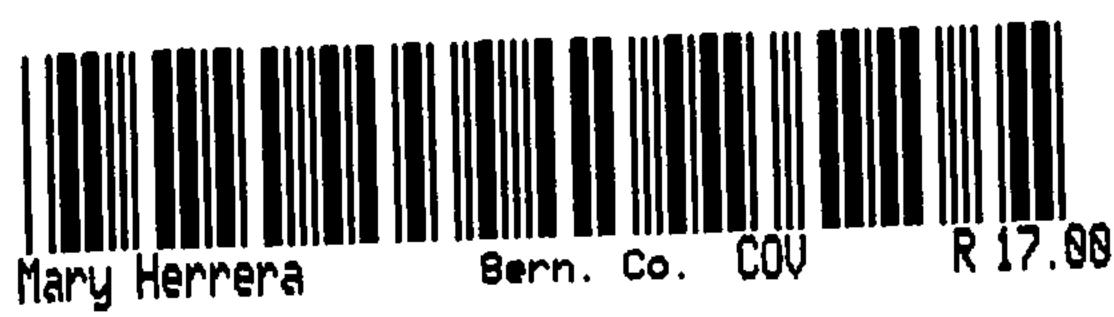
ppd4'pldrain1.cov (Revised by Leg



2004148772 6162270 Page: 2 of 5 10/22/2004 12:02P Bk-885 Pa-8360

| CITY OF ALBUQUERQUE: ACCEPTED: By: Jay J. Czar Chief Administrative Officer | OWNER: SITIO LID. Co. By: Acc. Title: President Dated: 9-23-04 |
|---|---|
| APPROVED: APPROVED: Lind Loud Director, Public Works Dept. | Reviewed by: City Engineer CITY'S ACKNOWLEDGMENT |
| STATE OF NEW MEXICO COUNTY OF BERNALILLO This instrument was acted the corporation. |) ss) ss) snowledged before me on Otaler 18, 2004 by Jay J. Czar ne City of Albuquerque, a New Mexico municipal corporation, on behalf of the Notary Public |
| My Commission Expires: 7・30・2008 | OFFICIAL SEAL |

rpd4\pldrain1.cov (Revised by Legal 8/97)



2004148772 6162270 Page: 3 of 5 10/22/2004 12:02P Bk-A85 Pg-8360

| OWNER'S | ACKNOWL | FOGMENT |
|----------|----------------|----------------|
| OWITER 3 | MODINORIL | EUGIVIEIV I |

STATE OF NEW MEXICO)) ss.
COUNTY OF BERNALILLO)

This instrument was acknowledged before me on Sept. 23, 2004, by Scott Hauguitz, President, on behalf of Sitio, Ltd.

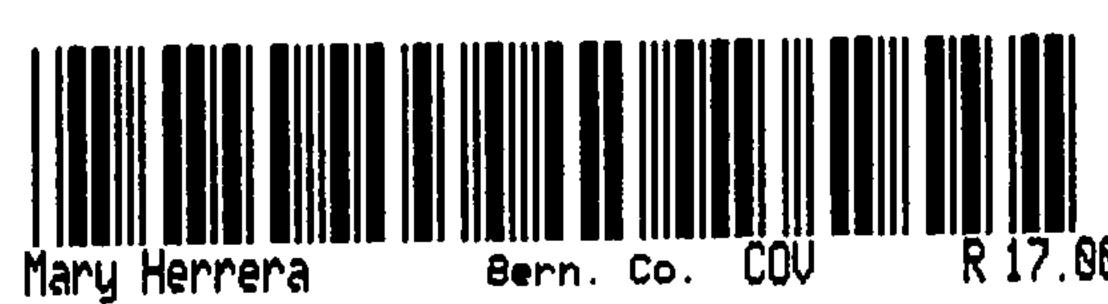
Notary Public

My Commission Expires

12/15/04

[EXHIBIT A ATTACHED]

rpd4\pldrain1.cov (Revised by Legal 8/97)



2004148772 6162270 Page: 4 of 5 10/22/2004 12:02P R 17.00 Bk-A85 Pg-8360

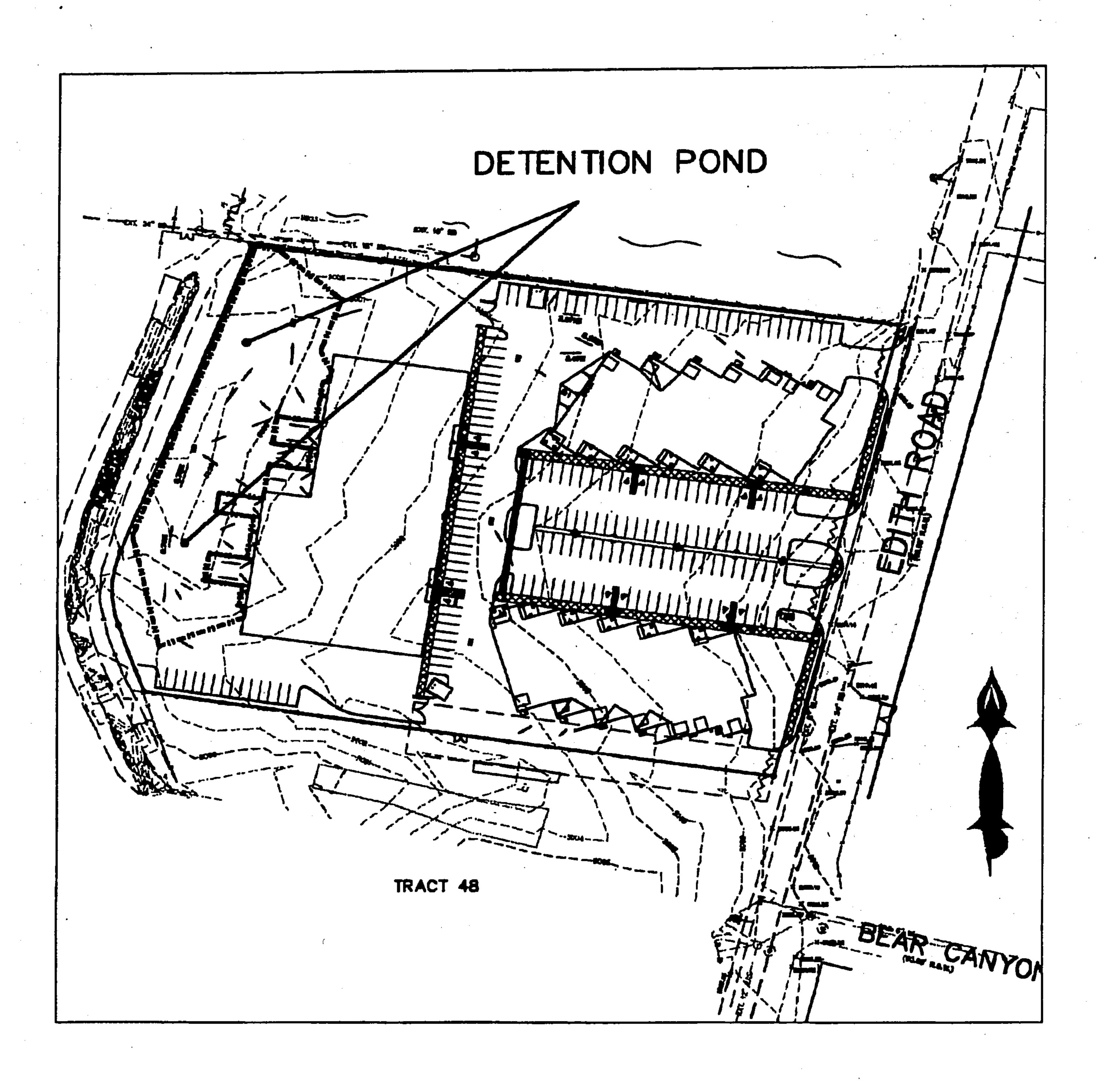


EXHIBIT "A"

NTS



Bern. Co. COV

2004148772 6162270 Page: 5 of 5 10/22/2004 12:02P Bk-A85 Pg-8360



1.126 AC-FT=

1.966

1.99288

1.013

.434

SUMMARY OUTPUT FILE (PONDING CONDITIONS)

| AHYMO PROGRA | M SUMMARY TABLE (= 200355pd | OMYHA) | 97) - | | _ | VERSION: | 1997.02d | RUN DATE USER NO.= | • | • | 23/2004 R31-AH |
|--------------------------------|---------------------------------|-------------------|-----------------|-----------------|----------------------------|----------------------------|----------|----------------------|--------------------|-----------------------|-----------------------|
| COMMAND | HYDROGRAPH IDENTIFICATION | FROM ID NO. | TO ID NO. | AREA (SQ MI) | PEAK DISCHARGE (CFS) | RUNOFF VOLUME (AC-FT | RUNOFF | TIME TO PEAK (HOURS) | CFS PER ACRE | PAGE = | |
| START RAINFALL TY COMPUTE NM F | YPE= 1 HYD 101.00 | | 1 | .00953 | 27.21 | 1.007 | 1.98165 | 1.500 | 4.460 | TIME= RAIN6= PER IMP= | .00 2.350 90.00 |

6.87

.00953

20

501.10

ROUTE RESERVOIR

FINISH

VOLUME CALCULATIONS

DETENTION POND

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

Volume = $Ab * D + 0.5 * C * D^2$

$$C = (At - Ab) / Dt$$

| Ab = | 13.59 |
|------|-----------|
| At = | 33,417.40 |
| Dt = | 1.50 |
| C = | 22269.21 |

| | | | | ٦ |
|---------|-------|---------|-------|---------------------------|
| ACTUAL | DEPTH | VOLUME | Q | |
| ELEV. | (FT) | (AC-FT) | (CFS) | |
| 4996.50 | 0 | 0 | 0.00 | |
| 4997.25 | 0.75 | 0.0002 | 1.89 | / \ |
| 4998.00 | 1.50 | 0.0005 | 3.78 | |
| 4998.50 | 2.00 | 0.0006 | 4 63 | |
| 4999.00 | 2.50 | 0.0008 | 5.35 | |
| 4999.25 | 2.75 | 0.0168 | -5.67 | 6.27 |
| 4999.50 | 3 | 0.0648 | 5.98 | |
| 4999.75 | 3.25 | 0.1448 | 6.27 | |
| 5000.00 | 3.5 | 0.2567 | 6.55 | |
| 5000.25 | 3.75 | 0.4006 | 6.82 | |
| 5000.50 | 4 | 0.5764 | 7.07 | |
| | | • | | $\mathbf{X}_{\mathbf{x}}$ |
| | | | | 7.56 |

Orifice Equation

$$Q = CA SQRT(2gH)$$

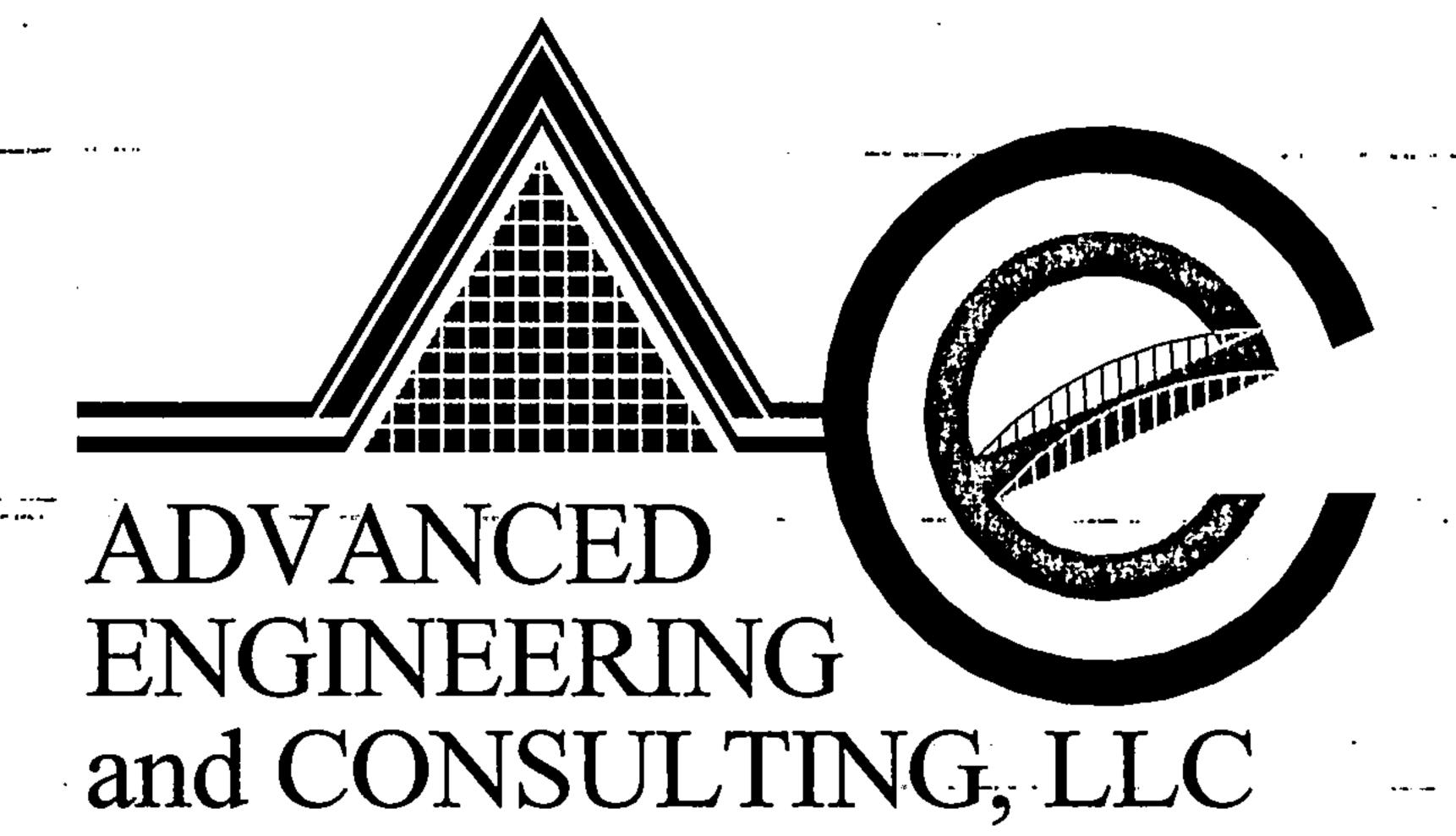
H (Ft) = Depth of water above center of orifice

Q(CFS)= Flow

DRAINAGE REPORT FOR

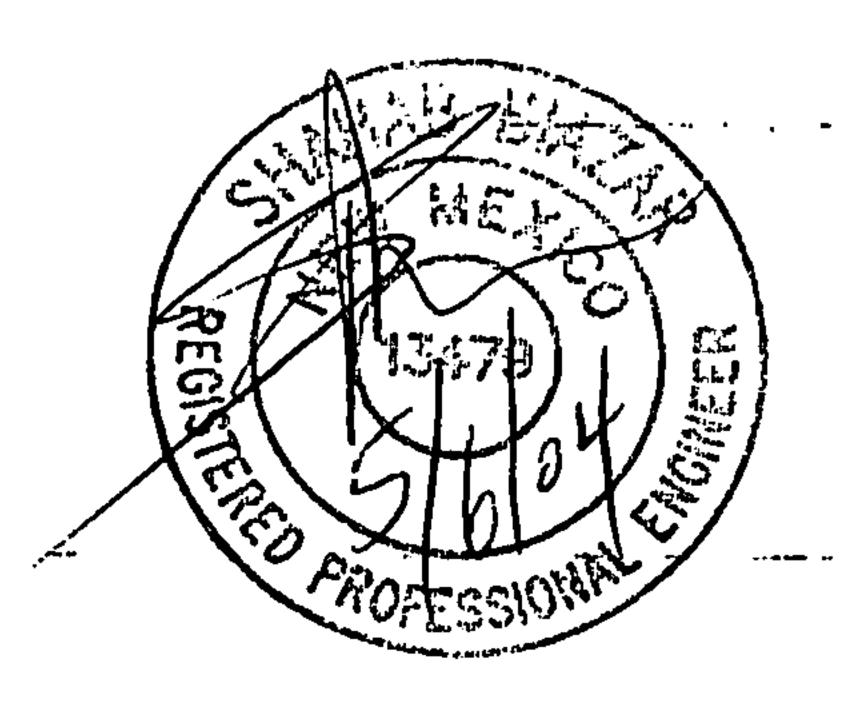
SITIO BUSINESS PARK (TRACT 45-B-1, MRGCD MAP NO. 29)

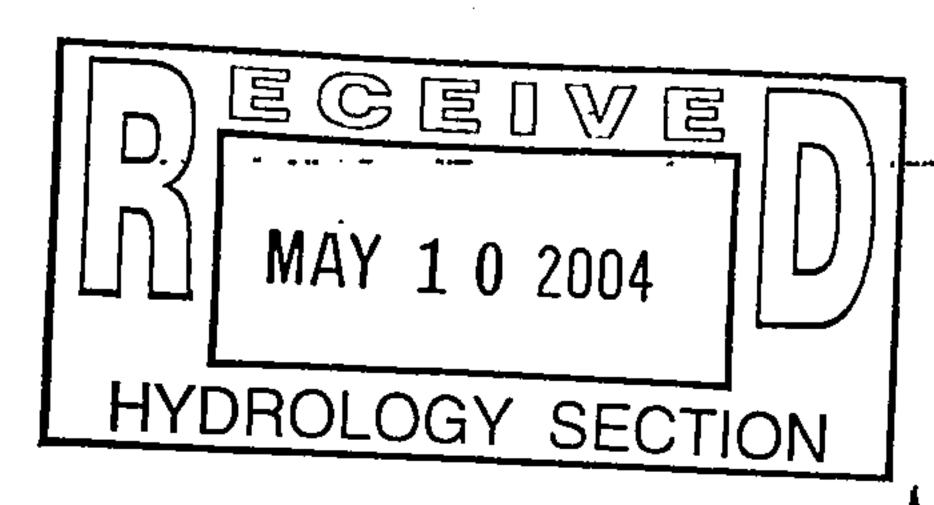
Prepared by:



4416 Anaheim Ave., NE Albuquerque, New Mexico 87113

May, 2004





Shahab Biazar PE NO. 13479

Location

SITIO Business Park is Tract 45-B, MRGCD Map No.-29, containing ± 6.10 acres, and, is located on the west side Edith Boulevard approximately ±800' north of Osuna Boulevard. See attached Zone Atlas page number E-15 for exact location. The owners are proposing to develop several office/warehouse buildings.

Purpose

The purpose of this drainage report is to present a grading and drainage solution for the proposed sites. We are requesting rough grading approval, site development plan for building permit approval, and building permit approval.

Existing Drainage Conditions

The site drains east to west. The site, under the existing conditions, generates a runoff of 9.50 cfs. On-site runoff mostly ponds within the site (northwest corner of the site), and then overflow to Alameda Laderal during large storms. The site does not fall within a designated 100-year floodplain. No offsite runoff enters the site. The runoff to the east is intercepted by Edith Boulevard and Edith Storm Drain System (Storm Drain Built According to the Edith Drainage Master Plan prepared by Boyle Engineering). The runoff from Edith which is not intercepted by the storm drain system drains south to Osuna Boulevard. The site to the south, drains east to west and does not drain to this site. The site to the north is an existing detention pond which detain some of the offsite runoff from the east of Edith

Boulevard and then discharges it at a flow rate of 7.50 cfs (Based on the Edith Drainage Master Plan prepared by Boyle Engineering). See end of this report for the portion of the Edith Boulevard Drainage Master Plan prepared by Boyle Engineering.

Proposed Conditions and On-Site Drainage Management Plan

Under the proposed conditions the site will drain from east to west. The site will generate a runoff of 27-21-cfs under the developed conditions. The runoff will be detained on site and then discharged a flow rate of 6.57 cfs to the existing 24" RCP (discharge pipe from the existing detention pond to the north). This discharge is less than discharge of 7.50 cfs which was intended for the discharge rate of the pond according to the Edith Master Drainage Plan. Since this site is located next to the pond (lowest point of the discharge location), no impact will occur to the capacity of the 24" RCP pipe. The runoff from our site will enter and exist the pond prior to the runoff arrival form the east. The peak runoff occurs between 1.60 and 2.40 hour and drains out within that same time period (less than one hour on-site ponding time).

Edith Boulevard Drainage

Northeast corner of the site is located near the highpoint on Edith Boulevard where then runoff drains to the north and to the south. Therefore, the runoff on Edith Boulevard fronting this project drains south to Osuna Boulevard. From the high point (on Edith Boulevard) to Osuna Boulevard, Edith Boulevard will only generate 8.73 cfs under the fully

developed conditions. Edith Boulevard has a drainage capacity of 38.55 cfs fronting this project and 63.17 cfs south of this project. See street flow capacity spread sheets.

Emergency Conditions

In the case of an emergency (if the inlet got clogged) the runoff will pond on site and then will overflow into the Alameda Lateral (like the existing conditions) located on the west side of the property.

Calculations

City of Albuquerque, Development Process Manuel, Section 22.2, Hydrology Section, was used for runoff calculations. See section this report for drainage calculations as well as AHYMO input and output files.

RUNOFF CALCULATIONS

(INPUT DATA FOR AHYMO CALCULATIONS)

The site is @ Zone 2

DEPTH (INCHES) @ 100-YEAR STORM

 $P_{60} = 2.01$ inches

 $P_{360} = 2.35$ inches

 $P_{1440} = 2.75 \text{ inches}$

DEPTH (INCHES) @ 10-YEAR STORM

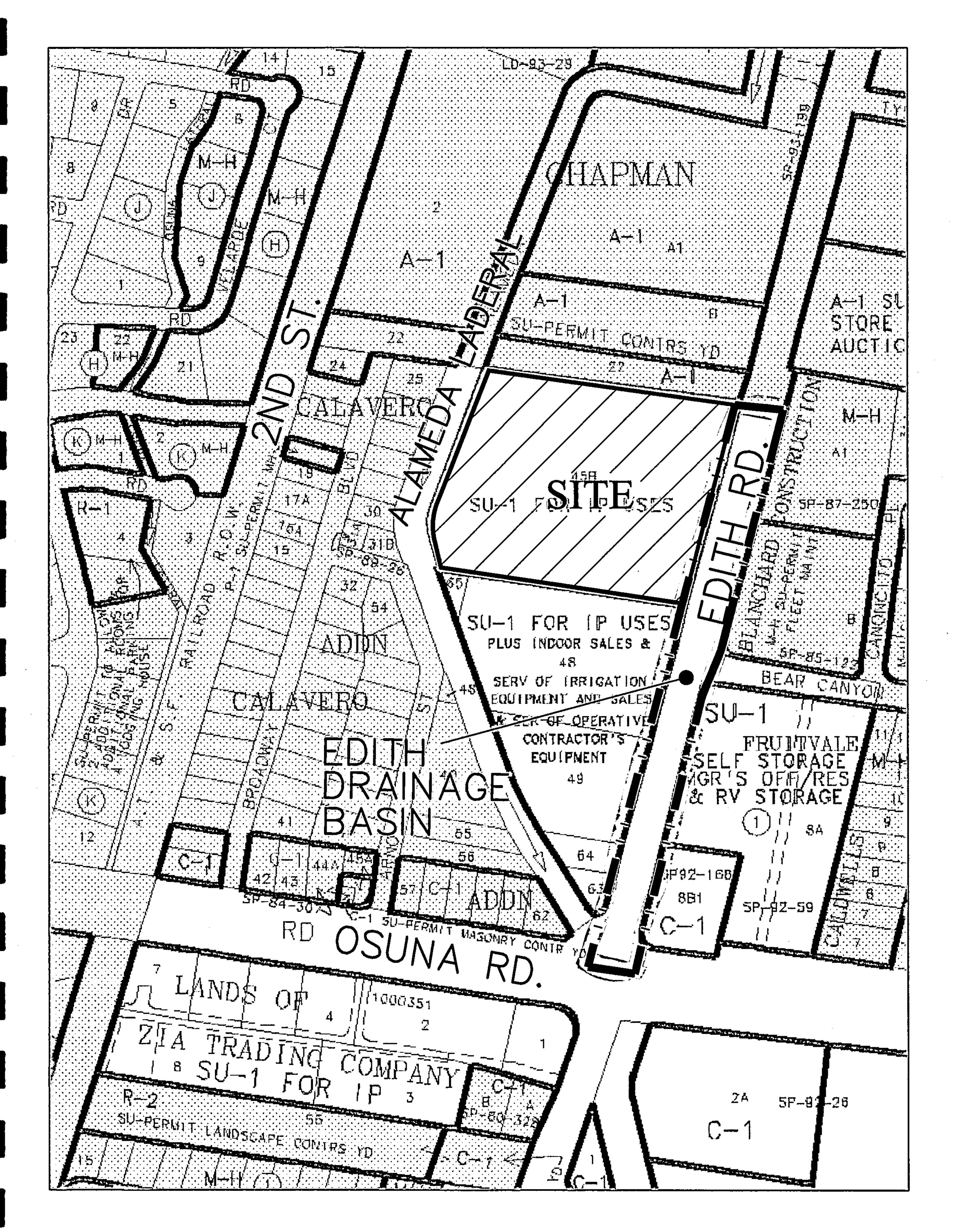
 $P_{60} = 2.01 \times 0.667$ = 1.34 inches

 $P_{360} = 1.57$

 $P_{1440} = 1.83$

See the summary output from AHYMO calculations.

Also see the following summary tables.



EDITH DRAINAGE BASIN

RUNOFF CALCULATION RESULTS

| BASIN | AREA (SF) | AREA (AC) | AREA (MI²) |
|---------|-----------|-----------|------------|
| ON-SITE | 265737.49 | 6.1005 | 0.009532 |
| EDITH | 85133.30 | 1.9544 | 0.003054 |

PROPOSED

| BASIN Q-100 | | Q-10 | TREATMENT |
|-------------|-------|-------|------------------|
| | CFS | CFS | A, B, C, D |
| ON-SITE | 27.21 | 17.62 | 0%, 10%, 0%, 90% |

EXISTING

| BASIN | Q-100 | Q-10 | TREATMENT |
|---------|-------|------|------------------|
| | CFS | CFS | A, B, C, D |
| ON-SITE | 9.50 | 2.27 | 100%, 0%, 0%, 0% |

PROPOSED

| BASIN | Q-100 | TREATMENT |
|-------|-------|------------------|
| | CFS | A, B, C, D |
| EDITH | 8.73 | 0%, 10%, 0%, 90% |

SUMMARY OUTPUT FILE

| AHYMO PROGRAM SUMMAR INPUT FILE = 200355 | Y TABLE (A | AHYMO_ | 97) - | | | VERSION: 19 | | RUN DATE SER NO.= | • | /YR) =05/0 9702c01000 | 6/2004 R31-AH |
|---|------------|----------------|-------|----------------------|-----------|-------------|-----------|----------------------|-------|--------------------------|------------------|
| • | • | FROM | то | ÷ | PEAK | RUNOFF | | TIME TO | CFS | PAGE = | : 1 |
| HY | DROGRAPH | ID | ID | AREA | DISCHARGE | VOLUME | RUNOFF | PEAK | PER | | |
| COMMAND IDENTI | FICATION | NO. | NO. | (SQ MI) | (CFS) | (AC-FT) | (INCHES) | (HOURS) | ACRE | NOTATI | ON |
| START | | | | | | • | | | | TIME= | .00 |
| RAINFALL TYPE= 1 | | | | | | | | | | RAIN6= | 2.350 |
| COMPUTE NM HYD | 101.00, | _ | 1 | .00953 | 9.50 | .270 | .53121 | 1.533 | 1.557 | PER IMP= | .00 |
| START | i | | | | | į | | | | TIME= | .00 |
| RAINFALL TYPE= 1 | | | | | | | | | | RAIN6= | 2.350 |
| COMPUTE NM HYD | 101.00 | _ | 1 | .00953 | 27.21 | 1.007 | 1.98165 | 1.500 | 4.460 | PER IMP= | 90.00 |
| START | | | | | | | | | | TIME= | .00 |
| RAINFALL TYPE= 1 | | | | | | | | | | RAIN6= | 2.350 |
| COMPUTE NM HYD | 101.00 | _ | 1 | .00305 | 8.73 | .323, | 1.98165 | 1.500 | 4.466 | PER IMP= | 90.00 |
| START | | | | | | | | • | | TIME= | .00 |
| RAINFALL TYPE= 1 | | | | ţ. | | | | <u> </u> | | RAIN6= | 1.570 |
| COMPUTE NM HYD | 101.00 | | 1 | .00953 | 2.27 | .064 | .12517 | 1.533 | .372 | PER IMP≐ | .00 |
| START | r | | | <u>:</u> <u>:</u> | | · • | | ! ! | | TIME= | .00 |
| RAINFALL TYPE= 1 | ; ; | | | ; ; | | 1 ; | | <u>:</u> ! | | RAIN6= | 1.570 |
| COMPUTE NM HYD | 101.00 | - . | 1 | .00953 | 17.62 | .626 | . 1.23172 | 1.500 | 2.888 | PER IMP= | 90.00 |
| FINISH , | j i | | | | • | j i | | • | | | |

VOLUME CALCULATIONS

DETENTION POND

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

Volume =
$$Ab * D + 0.5 * C * D^2$$

$$C = (At - Ab) / Dt$$

$$Ab = 13.59$$
 $At = 26,245.98$
 $Dt = 0.71$
 $C = 36947.03$

| ACTUAL | DEPTH | VOLUME | 0 |
|---------|-------|---------|-------|
| ELEV. | (FT) | (AC-FT) | (CFS) |
| 4996.50 | 0 | 0 | 0.00 |
| 4997.25 | 0.75 | 0.0002 | 1.89 |
| 4998.00 | 1.50 | 0.0005 | 3.78 |
| 4998.50 | 2.00 | 0.0006 | 4.63 |
| 4999.00 | 2.50 | 0.0008 | 5.35 |
| 4999.25 | 2.75 | 0.0274 | 5.67 |
| 4999.50 | 3 | 0.1070 | 5.98 |
| 4999.75 | 3.25 | 0.2396 | 6.27 |
| 5000.00 | 3.5 | 0.4252 | 6.55 |
| 5000.25 | 3.75 | 0.6638 | 6.82 |
| 5000.50 | 4 | 0.9555 | 7.07 |

Orifice Equation $Q = CA \ \overline{S}QRT(2gH)$

C = 0.6Diameter (in) 12

Area (ft^2)= 0.7853981634 g = 32.2

H (Ft) = Depth of water above center of orifice

Q(CFS)=Flow

SUMMARY OUTPUT FILE (PONDING CONDITIONS)

| AHYMO PROGR INPUT FILE | | (AHYMO_ | 97) - | | | VERSION: | 1997.02d | RUN DATE USER NO.= | · | • | 5/2004 R31-AH |
|---------------------------|----------------|---------|----------|---------|-------------------|------------------|----------|--------------------|------------|----------|------------------|
| | HYDROGRAPH | FROM | TO ID | AREA | PEAK DISCHARGE | RUNOFF VOLUME | RUNOFF | TIME TO PEAK | CFS PER | PAGE = | 1 |
| COMMAND | IDENTIFICATION | | NO. | (SQ MI) | (CFS) | (AC-FT | _ | | ACRE | NOTATI | ON |
| START | | | | | | | - | | | TIME= | .00 |
| RAINFALL T | YPE= 1 | | | | | | | | | RAIN6= | 2.350 |
| COMPUTE NM | HYD 101.00 | _ : | 1 | .00953 | 27.21 | 1.007 | 1.98165 | 1.500 | 4.460 | PER IMP= | 90.00 |
| ROUTE RESER | VOIR 501.10 | 1 | 20 | .00953 | 6.57 | 1.013 | 1.99253 | 2.000 | 1.078 | AC-FT= | .447 |

FINISH

FINDING STREET CAPACITY

 $Q = 1.49 / n A (A/P)^{2/3} S^{1/2}$

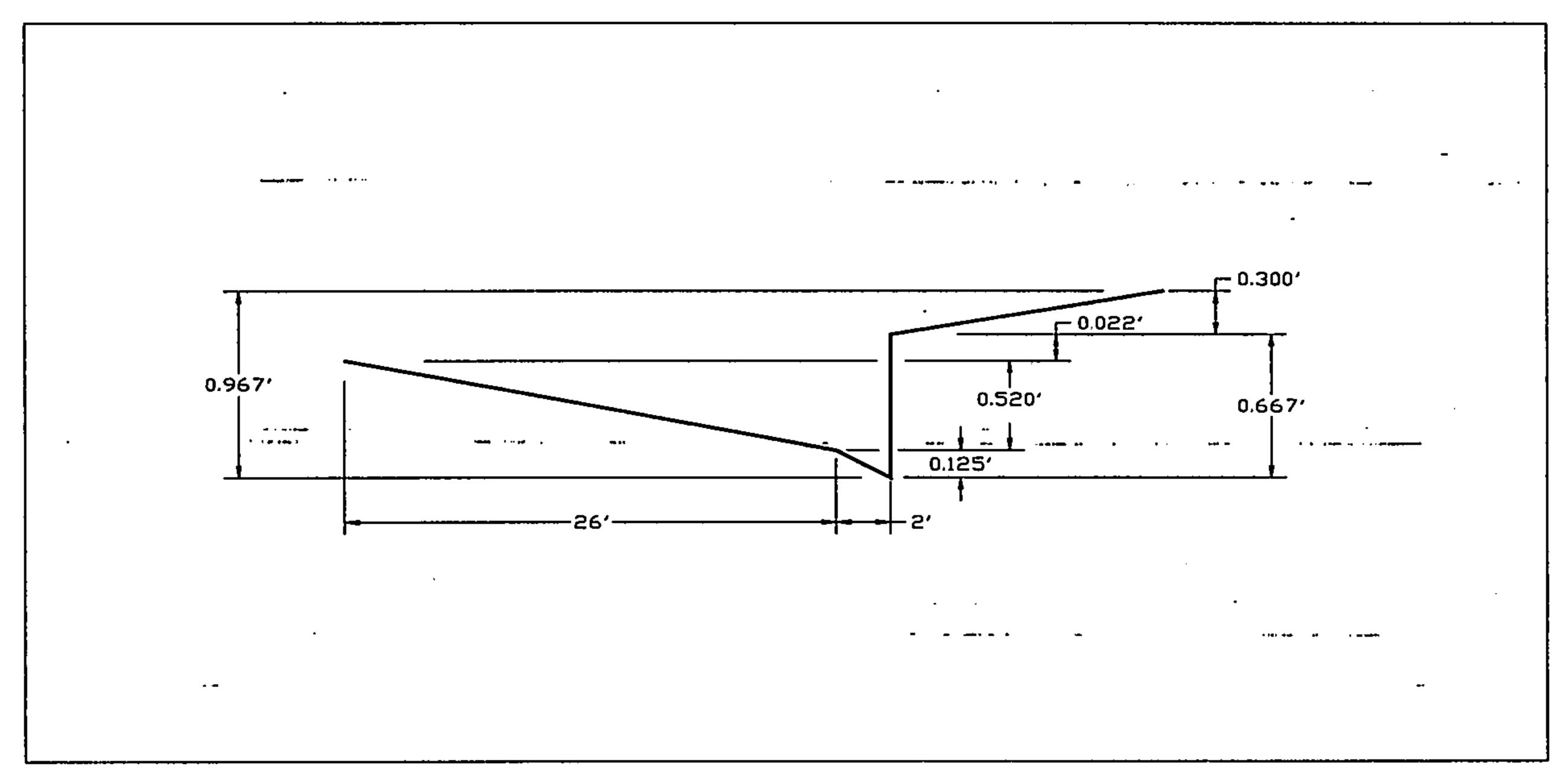
86 ROW - 56 FF STREET CROSS-SECTION HALF STREET DETAIL

n =

0.017

SLOPE =

0.00375



HALF STREET CALCULATION

@Y ≤0.125

 $A1 = \frac{1}{2} Y (Y / 0.0625) = 8 Y^{2}$

FULL STREET FLOW

 $P1 = SQRT(Y^2 + (Y / 0.0625)^2) + Y = SQRT(257 Y^2) + Y$

| | 1 | | | | | | | | |
|--------|--------|--------|-----------------------|-------|------|--------|--------------|------|------|
| Y (FT) | · A | Р | (A/P) ² /3 | Q | 2Q | V | Fr | D*V | D2 |
| 0.0250 | 0.0050 | 0.4258 | 0.0517 | 0.00 | 0.00 | 0.28 | 0.31 | 0.01 | 0.00 |
| 0.0500 | 0.0200 | 0.8516 | 0.0820 | 0.01. | 0,02 | _ 0.44 | 0.35 | 0.02 | 0.01 |
| 0.1250 | 0.1250 | 2.1289 | 0.1511 | 0.10 | 0.20 | 0.81 | 0.05 | 0.10 | 0.00 |

@ $0.125 < Y \le 0.265$ & Y1 = Y - 0.125

 $A2 = A1 + \frac{1}{2} Y1(Y1 / 0.02) + 2 Y1 = A1 + 25 Y1^2 + 2 Y1$

 $P2 = P1 + SQRT[Y1^2 + (Y1 / 0.01)^2] + Y1 = P1 + SQRT(2501 Y1^2) + Y1$

| C | 0.2000 | 0.4156 | 6.0797 | 0.1672 | 0.37 | 0.74 | 0.89 | 0.35 | 0.18 | 0.04 |
|---|--------|--------|---------|--------|-------|-------|------|------|------|------|
| C | 0.2500 | 0.7656 | 8.6302 | 0.1989 | 0.82 | 1.63 | 1.06 | 0.38 | 0.27 | 0.06 |
| C | 0.3500 | 1.8406 | 13.7312 | 0.2619 | 2.58 | 5.16 | 1.40 | 0.42 | 0.49 | 0.10 |
| C |).6450 | 7.9250 | 28.7791 | 0.4233 | 17.96 | 35.91 | 2.27 | 0.50 | 1.46 | 0.23 |

@ $0.645 < Y \le 0.6667 \& Y2 = Y - 0.645$

A3 = A2 + 16 Y2

P3 = P2 + Y2

| 0. | 6500 | 8.0050 | 28.7841 | 0.4261 | 18.26 | 36.51 | 2.28 | 0.50 | 1.48 | 0.24 |
|----|------|--------|---------|--------|-------|-------|------|------|------|------|
| 0. | 6600 | 8.1650 | 28.7941 | 0.4316 | 18.86 | 37.73 | 2.31 | 0.50 | 1.52 | 0.24 |
| 0. | 6667 | 8.2717 | 28.8008 | 0.4353 | 19.27 | 38.55 | 2.33 | 0.50 | 1.55 | 0.25 |

@ $0.6667 < Y \le 0.9667 & Y3 = Y - 0.6667$

 $A4 = A3 + 16 Y3 + \frac{1}{2} (Y3) (Y3 / 0.02) = A3 + 16 Y3 + 25 Y3^{2}$

 $P4 = P3 + SQRT(Y3^2 + (Y3 / 0.02)^2) = P3 + SQRT(2501 Y3^2)$

| 0.7000 | 8.8328 | 30.4676 | 0.4380 | 20.71 | 41.42 | 2.34 | 0.49 | 1.64 | 0.25 |
|--------|---------|---------|--------|-------|-------|------|------|--------|------|
| 0.7505 | 9.7887 | 32.9931 | 0.4448 | 23.31 | 46.62 | 2.38 | 0.48 | 1.79 | 0.26 |
| 0.8556 | 12.1870 | 38.2492 | 0.4665 | 30.43 | 60.86 | 2.50 | 0.48 | 2.14 | 0.29 |
| 0.9667 | 15.3227 | 43.8053 | 0.4964 | 40.72 | 81.44 | 2.66 | 0.48 | 2.57 _ | 0.33 |

FINDING STREET CAPACITY

 $Q = 1.49 / n A (A/P)^{2/3} S^{1/2}$

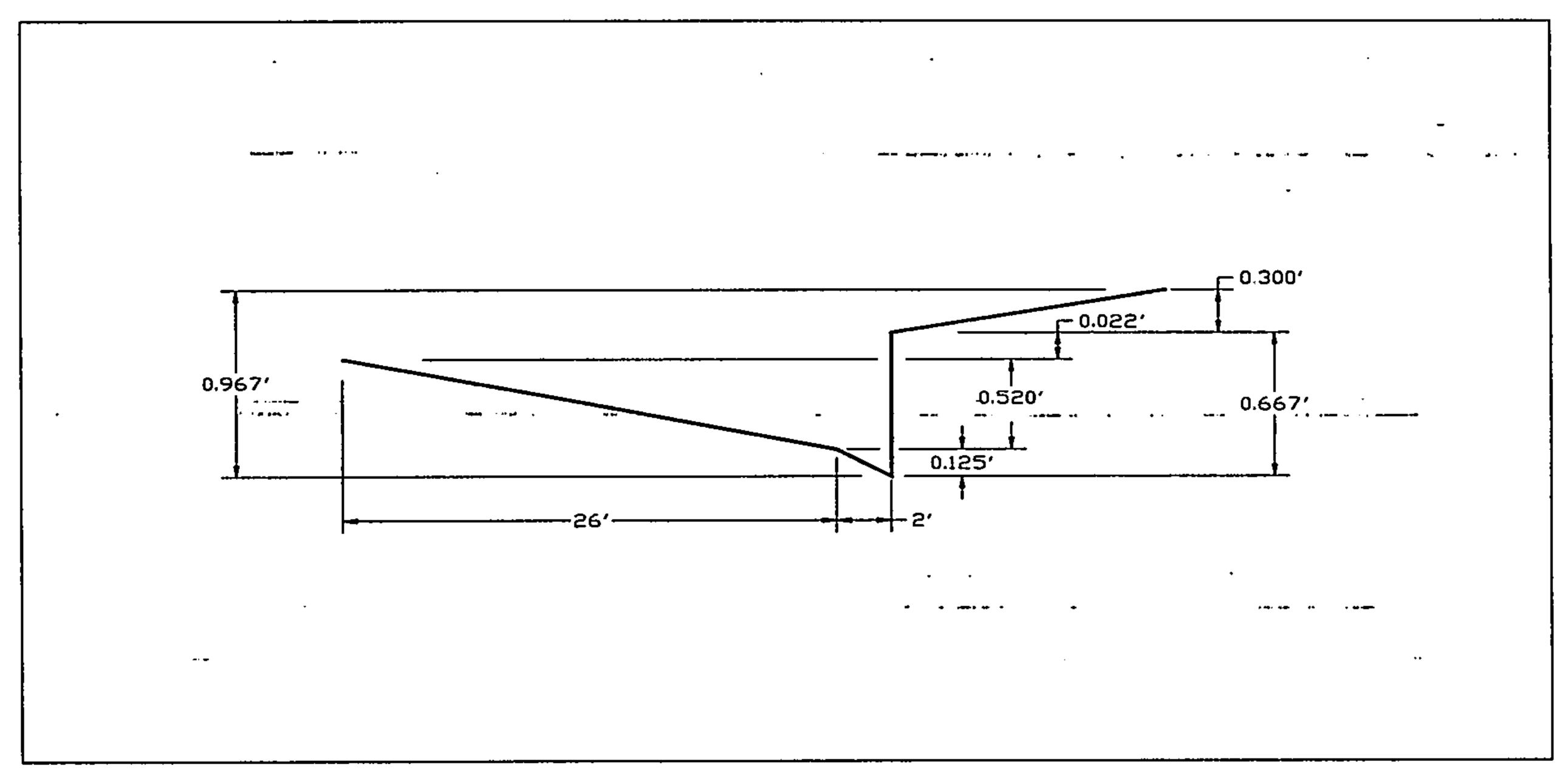
86 ROW - 56 FF STREET CROSS-SECTION HALF STREET DETAIL

n =

0.017

SLOPE =

0.01007



HALF STREET CALCULATION

@Y ≤0.125

 $A1 = \frac{1}{2} Y (Y / 0.0625) = 8 Y^{2}$

FULL STREET FLOW

P1 = $SQRT[Y^2 + (Y / 0.0625)^2] + Y = <math>SQRT(257 Y^2) + Y$

| Y (FT) | Α | Р | (A/P) ² /3 | Q | 2Q | V | Fr | D*V | D2 |
|--------|--------|--------|-----------------------|------|------|------|------|------|------|
| 0.0250 | 0.0050 | 0.4258 | 0.0517 | 0.00 | 0.00 | 0.45 | 0.51 | 0.01 | 0.01 |
| 0.0500 | 0.0200 | 0.8516 | 0.0820 | 0.01 | 0.03 | 0.72 | 0.57 | 0.04 | 6.02 |
| 0.1250 | 0.1250 | 2.1289 | 0.1511 | 0.17 | 0.33 | 1.33 | 0.04 | 0.17 | 0.00 |

@ $0.125 < Y \le 0.265 & Y1 = Y - 0.125$

 $A2 = A1 + \frac{1}{2} Y1(Y1 / 0.02) + 2 Y1 = A1 + 25 Y1^2 + 2 Y1$

 $P2 = P1 + SQRT[Y1^2 + (Y1 / 0.01)^2] + Y1 = P1 + SQRT(2501 Y1^2) + Y1$

| | | | | | | | | | |
|--------|--------|---------|----------|-------------|-------|-------------|-------|------|------|
| 0.2000 | 0.4156 | 6.0797 | 0.1672 | 0.61 | 1.22 | 1.47 | 0.58 | 0.29 | 0.09 |
| 0.2500 | 0.7656 | 8.6302 | - 0.1989 | - 1.34 | 2.67- | 1.74 | -0.61 | 0.44 | 0.13 |
| 0.3500 | 1.8406 | 13.7312 | 0.2619 | 4.23 | 8.46 | 2.30 | 0.68 | 0.80 | 0.21 |
| 0.6450 | 7.9250 | 28.7791 | 0.4233 | 29.42 | 58.85 | 3.71 | 0.81 | 2.39 | 0.49 |

@ $0.645 < Y \le 0.6667 \& Y2 = Y - 0.645$

A3 = A2 + 16 Y2

P3 = P2 + Y2

| 3-12-12 | | | | | · | | | <u> </u> | · |
|-------------|--------|---------|--------|-------|-------|------|------|----------|---------------|
| 0.6500 | 8.0050 | 28.7841 | 0.4261 | 29.92 | 59.83 | 3.74 | 0.82 | 2.43 | 0.49 |
| 0.6600 | 8.1650 | 28.7941 | 0.4316 | 30.91 | 61.83 | 3.79 | 0.82 | 2.50 | 0.50 |
| 0.6667 | 8.2717 | 28.8008 | 0.4353 | 31.58 | 63.17 | 3.82 | 0.82 | 2.55 | 0.51 |

@ $0.6667 < Y \le 0.9667 & Y3 = Y - 0.6667$

 $A4 = A3 + 16 Y3 + \frac{1}{2} (Y3) (Y3 / 0.02) = A3 + 16 Y3 + 25 Y3^{2}$

 $P4 = P3 + SQRT(Y3^2 + (Y3 / 0.02)^2) = P3 + SQRT(2501 Y3^2)$

| 0.7000 | 8.8328 | 30.4676 | 0.4380 | 33.94 | 67.88 | 3.84 | 0.81 | 2.69 | 0.52 |
|--------|---------|---------|--------|-------|--------|------|------|------|------|
| 0.7505 | 9.7887 | 32.9931 | 0.4448 | 38.20 | 76.39 | 3.90 | 0.79 | 2.93 | 0.55 |
| 0.8556 | 12.1870 | 38.2492 | 0.4665 | 49.87 | 99.74 | 4.09 | 0.78 | 3.50 | 0.61 |
| 0.9667 | 15.3227 | 43.8053 | 0.4964 | 66.73 | 133.45 | 4.35 | 0.78 | 4.21 | 0.69 |

CITY OF ALBUQUERQUE



September 17, 2007

Shahab Biazar, P.E.
Advanced Engineering & Consulting, Inc.
4416 Anaheim Ave NE
Albuquerque, NM 87113

Re: SITIO Business Park, 6615 Edith Blvd. NE, Building 3,
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 09/20/04 (E-15/D014)

Certification dated 9/7/07

Mr. Biazar,

P.O. Box 1293

Based upon the information provided in your submittal received 9/18/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

New Mexico 87103

(i)

Sincerely,

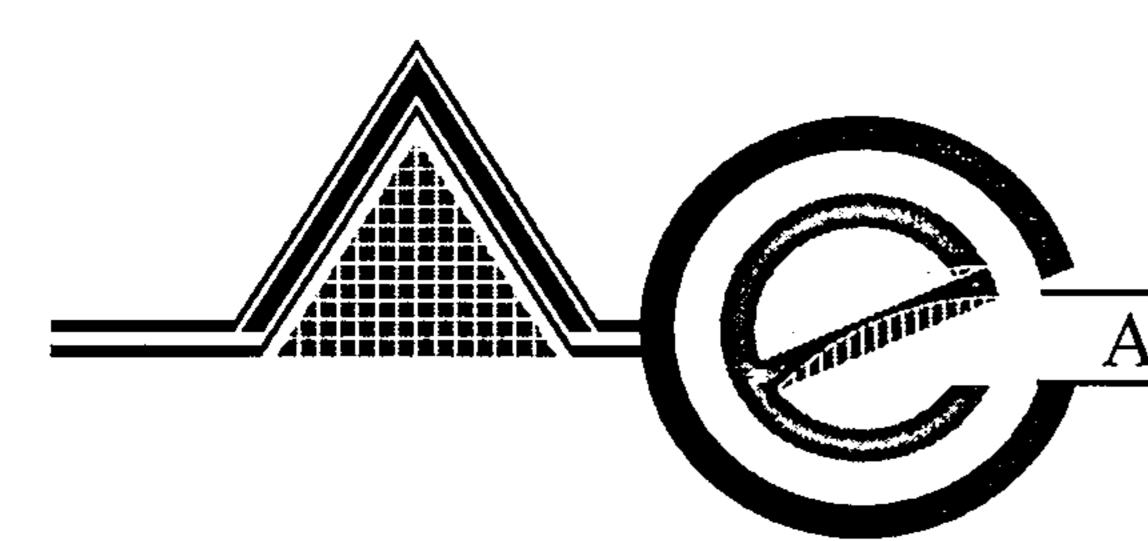
www.cabq.gov

Timothy Sims'
Plan Checker - Hydrology

Development and Building Services

C: CO Clerk - Katrina Sigala

File



ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

September 11, 2007

Ms. Kristal Metro, P.E.
Senior Engineer Associate, Planning Dept.
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: FINAL CERTIFICATION OF OCCUPANCY FOR SITIO BUSINESS PARK. 6615 EDITH BOULEVARD NE (E15 / D14)

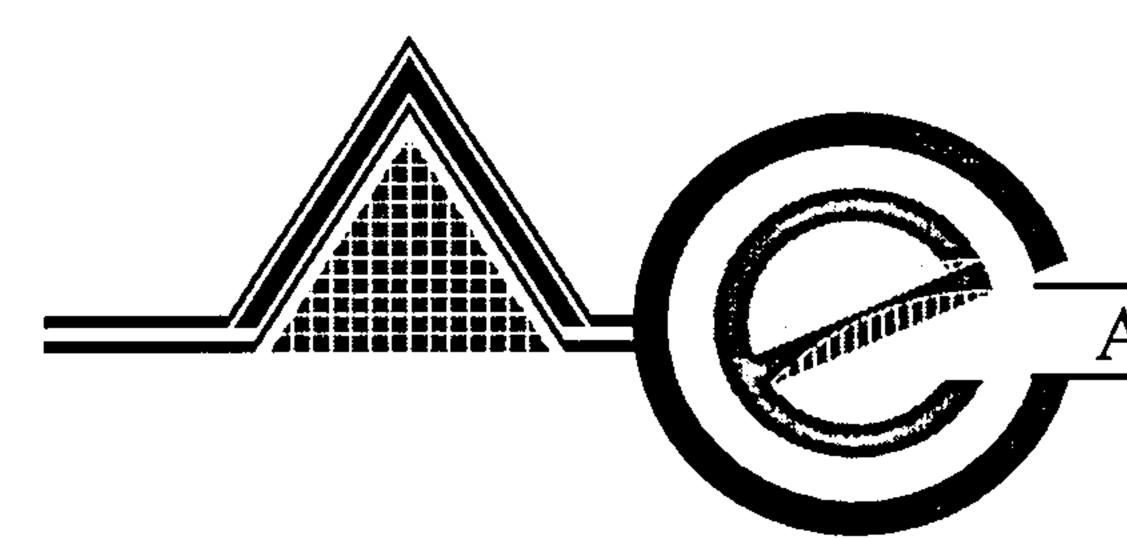
Dear Ms. Metro:

This letter is in request of Final Certification of Occupancy for the above mentioned project. The request is Final Certification of Occupancy for the northerly building. The southerly and westerly buildings were previously certified. The entire site is constructed. I Shahab Biazar, NMPE, of the Advanced Engineering, LLC hereby certify that project has been graded and will drain in substantial compliance with and design intent of the approved plan dated 9/20/2004. See attached as-built grades.

Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours

Shahab Biazar, P.E.



ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

September 11, 2007

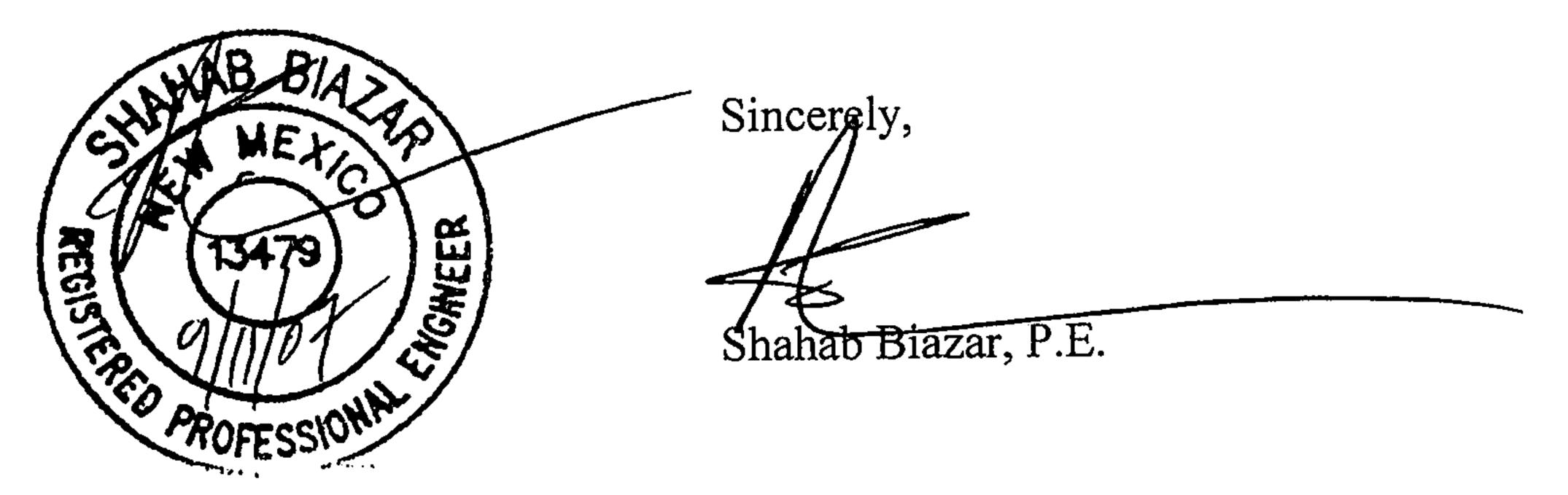
Mr. Nilo Salgado, P.E. City Transportation Department 600 Second Street NW Albuquerque, New Mexico 87102

Re: SITE PLAN CERTIFICATION FOR FINAL CERTIFICATION OF OCCUPANCY FOR SITIO BUSINESS PARK. 6615 EDITH BOULEVARD NE (E15 / D14)

Dear Mr. Salgado:

This letter is in request of Final Certification of Occupancy for the above mentioned project. The request is Final Certification of Occupancy for the northerly building. The southerly and westerly buildings were previously certified. The entire site is constructed. Enclosed please find copy of the as-built Site Plan for the above mentioned site. This site plan was approved at DRB on 07/14/2004. The project was inspected by Advanced Engineering and Consulting, LLC on September 07, 2007. I certify that the project was built in substantial compliance to the approved site plan.

Should you have any questions, please do not hesitate to contact our office.



CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

June 29, 2006

Shahab Biazar, P.E. 4416 Anaheim Ave. NE Albuquerque, NM 87113

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Sitio Business Park (bldg 1 & 2), [E-15/D14]

6615 Edith Blvd NE

Engineer's Stamp Dated 06/28/06

P.O. Box 1293

Dear Mr. Biazar:

The TCL / Letter of Certification submitted on June 29, 2006 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Albuquerque

Sincerely,

New Mexico 87103

Nilo E. Salgadø-Fernandez, P.E.

Senior Traffic Engineer

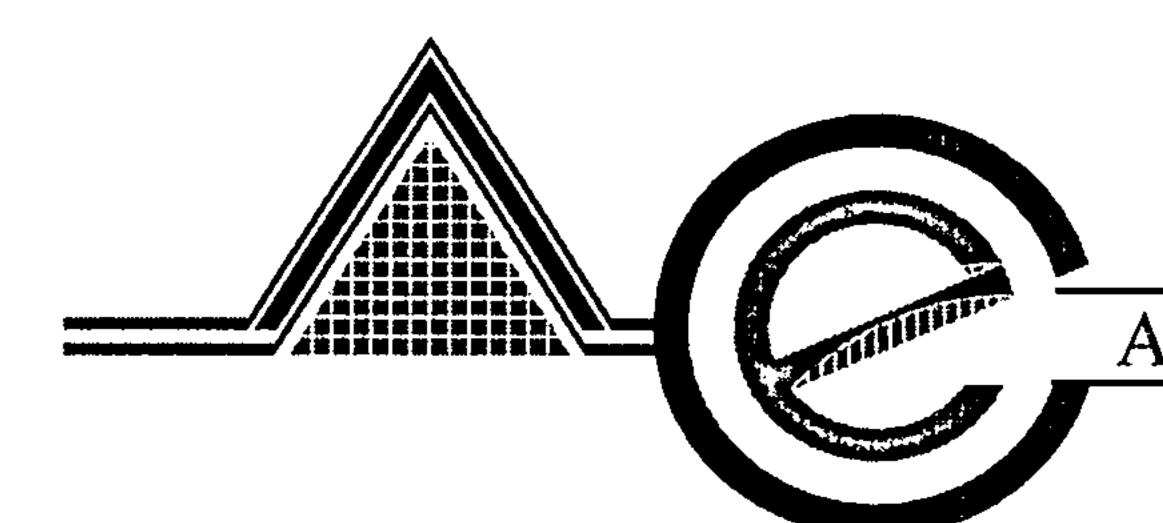
www.cabq.gov

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk



ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

June 28, 2006

Mr. Nilo Salgado, P.E. City Transportation Department 600 Second Street NW Albuquerque, New Mexico 87102

REGIS

Re: SITE PLAN CERTIFICATION FOR FINAL CERTIFICATION OF OCCUPANCY FOR

SITIO BUSINESS PARK. 6615 EDITH BOULEVARD NE (E15 / D14)

Dear Mr. Salgado:

This letter is in request of Final Certification of Occupancy for the above mentioned project. The request for Final Certification is only for the southerly and westerly located buildings. The building located to the north is under construction. The pavement around the northerly building is not in place. Enclosed please find copy of the as-built Site Plan for the above mentioned site. This site plan was approved at DRB on 07/14/2004. The project was inspected by Advanced Engineering and Consulting, LLC on June 29, 2006. I certify that the project was built in substantial compliance to the approved site plan.

Sincerely

Should you have any questions, please do not hesitate to contact our office.

Shahab Biazar, P.E.

CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

September 18, 2007

Shahab Biazar, P.E. Advanced Engineering and Consulting, LLC 4416 Anaheim Ave. NE Albuquerque, NM 87113

Certification Submittal for Final Building Certificate of Occupancy for Re:

Sitio Business Park, [E-15 / D14]

6615 Edith Blvd NE

Engineer's Stamp Dated 09/11/07

P.O. Box 1293

Albuquerque

Dear Mr. Biazar:

The TCL / Letter of Certification submitted on September 18, 2007 is sufficient for

acceptance by this office for final Certificate of Occupancy (C.O.). Notification

has been made to the Building and Safety Section.

Sincerely,

New Mexico 87103

Nilo E. Salgadó-Fernandez, P.E.

www.cabq.gov

Senior Traffic Engineer
Development and Building Services

Planning Department

Engineer

Hydrology file CO Clerk