CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

July 31, 2007

Paul Michael Wymer, Registered Architect
Courtyard I
7500 Jefferson St. NE
Albuquerque, NM 87109

Re: Certification Submittal for Final Building Certificate of Occupancy for
Lofland Company of New Mexico, [H-14 / D81]
2300 1st Street NW
Architect's Stamp Dated 07/30/07

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Dear Mr. Wymer:

The TCL / Letter of Certification submitted on July 30, 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,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO
ZONE MAP/DRG. FILE #: H-14/D81
DRB #. 1004390 EPC#.
WORK ORDER #.

LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1st Street , N.W. Albuquerque, New Mexico

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CMC STEEL FABRICATORS, INC CONTACT:
ADDRESS: 2300 1ST STREET PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87102

ARCHITECT: DWL Architects & Planners, Inc. of New Mexico CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd. PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87112

CONTRACTOR: Michael S. Rich Contractors, Inc. CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E. PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87199

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1ST SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- X ENGINEER'S CERTIFICATION (TCL)
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- ____ OTHER

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- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- xx YES
- ____ NO
- xx COPY PROVIDED

RECEIVED
JUL 13 2007
HYDROLOGY SECTION

RECEIVED
JUL 30 2007
HYDROLOGY SECTION

DATE SUBMITTED: July 13, 2007 BY: Bruce J. Stidworthy, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

Bohannan Huston INC.

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

July 30, 2007

Wilfred Gallegos, P.E.
Traffic Engineer
City of Albuquerque
P O Box 1293
Albuquerque, NM 87103

Re: TCL: Lofland Steel Project: - 2300 First Street, NW

Dear Mr. Gallegos:

Enclosed is the TCL for the subject project. All improvements associated with this project have been completed. I inspected the site on Tuesday, June 26, 2007 and noted the following:

1. All required parking spaces have been installed in the location noted on the TCL.
2. The portion of required sidewalk on First Street towards the north end of the site has been completed.
3. All concrete and asphalt drive slabs have been built.
4. The middle vehicular entry gate and associated drive pad were not removed. At the request of our client, I met with you on September 11, 2006 to request that this access be allowed to remain. It was agreed that the access could remain as an "emergency" access only. I would be happy to discuss this with you further, should you require additional information.

With this submittal, we are requesting Transportation Development sign-off for the project's Certificate of Occupancy.

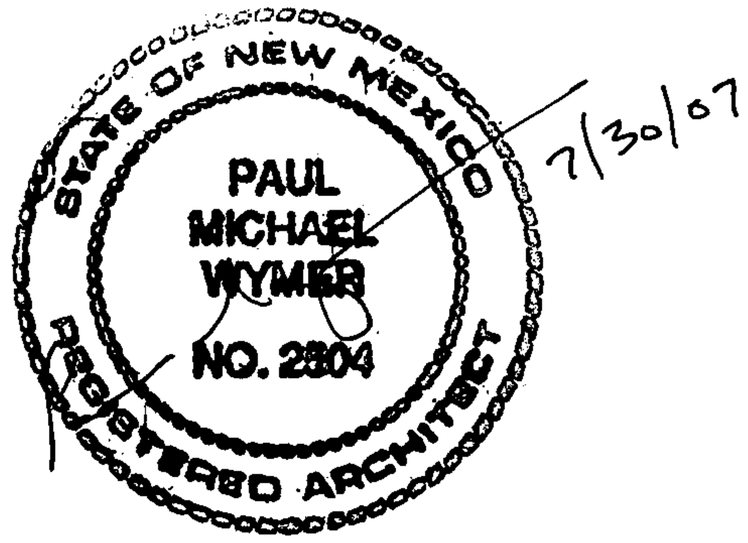
Thank you for your assistance in this matter. Please feel free to call with comments or questions.

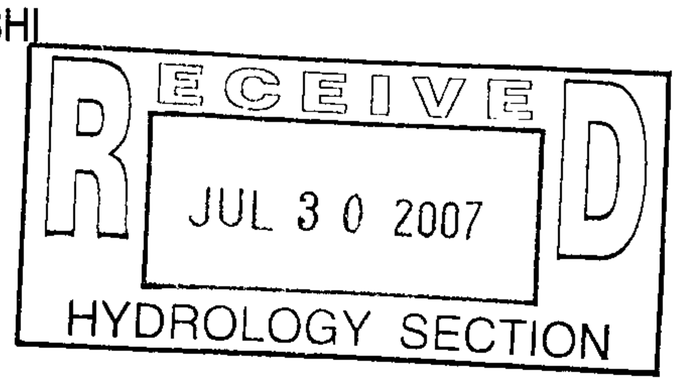
Sincerely,

Paul M. Wymer, AIA
Project Manager
Community Development and Planning

PMW/am
Enclosure

cc: Russell Reinhard, SMI-Texas
Bruce Stidworthy, BHI





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CITY OF ALBUQUERQUE

REC'D JUL 27 2007

Planning Department
Transportation Development Services Section

cc: Stephanie W.

July 16, 2007

Paul M. Wymer, Registered Architect
Bohannan Huston
Courtyard I
7500 Jefferson St. NE
Albuquerque, NM 87109-4335

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Lofland Steel Project, [H-14 / D81]
2300 1st Street NW
Architect's Stamp Dated 07/12/07

Dear Mr. Wymer:

P.O. Box 1293

Based on the information provided on your submittal dated July 13, 2007, the above referenced project is approved for a 90-day Temporary C.O.

Albuquerque

A Temporary C.O. has been issued allowing the Stamp (need Architect Stamp on letter of Certification) issue to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

New Mexico 87103

The Certification package for Final C.O. must include an ***exact*** copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

www.cabq.gov

If you have any questions, please call me at 924-3630.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

RECEIVED
JUL 30 2007
HYDROLOGY SECTION

c: Engineer
Hydrology file
CO Clerk

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

April 28, 2006

Paul Wymer
Bohannan Huston
7500 Jefferson St. NE
Albuquerque NM 87109-4335

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for Offices and Warehouse for Lofland Company of New Mexico [H-14/D-81] (2301 1st Street NW), Albuquerque, NM
Engineer's/Architect's Stamp Dated 04-28-2006

Dear Wymer,

The TCL submittal dated April 28, 2006 is approved for building permit. The plan is stamped and signed as approved. Two copies of the plan that is stamped as approved will be required: one for each of the building permit plans and the original to be kept by you to be used for certification of the site for final C.O. for Transportation. ***Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.***

If a temporary CO is needed then a copy of the original TCL that was stamped as approved by the City which includes a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance". This statement requires a NM registered architect or engineer stamp to be dated. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer needs stamp and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Wilfred A. Gallegos, PE
Development and Building Services

cc: Hydrology file
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Fil 06a032 cal Jcf

CITY OF ALBUQUERQUE

July 17, 2007

Bruce Stidworthy, P.E.
Bohannan Huston, Inc.
7500 Jefferson St. NE
Albuquerque, NM 87109

Re: Lofland Company of New Mexico, 2300 1st Street NW, Lot 1-a-1, Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 04/19/2006 (H-14/D081)
Certification dated 07/12/2007

Based upon the information provided in your submittal received 07/13/2007, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

Timothy Sims
Plan Checker, Planning Dept.
Development and Building Services

C: CO Clerk-Katrina Sigala
File

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO ZONE MAP/DRG. FILE #: H-14/D81
DRB #. 1004390 EPC#. WORK ORDER #.

LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1st Street , N.W. Albuquerque, New Mexico

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CMC STEEL FABRICATORS, INC CONTACT:
ADDRESS: 2300 1ST STREET PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87102

ARCHITECT: DWL Architects & Planners, Inc. of New Mexico CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd. PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87112

CONTRACTOR: Michael S. Rich Contractors, Inc. CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E. PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87199

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1ST SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERTIFICATION (TCL)
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CHECK TYPE OF APPROVAL SOUGHT:

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- ____ S. DEV. PLAN FOR SUB'D APPROVAL
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- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
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- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- xx YES
- ____ NO
- xx COPY PROVIDED

RECEIVED
JUL 13 2007
HYDROLOGY SECTION

DATE SUBMITTED: July 13, 2007 BY: Bruce J. Stidworthy, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

July 16, 2007

Paul M. Wymer, Registered Architect
Bohannan Huston
Courtyard I
7500 Jefferson St. NE
Albuquerque, NM 87109-4335

Re: Approval of Temporary Certificate of Occupancy (C.O.) for
Lofland Steel Project, [H-14 / D81]
2300 1st Street NW
Architect's Stamp Dated 07/12/07

Dear Mr. Wymer:

Based on the information provided on your submittal dated July 13, 2007, the above referenced project is approved for a 90-day Temporary C.O.

A Temporary C.O. has been issued allowing the Stamp (need Architect Stamp on letter of Certification) issue to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

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If you have any questions, please call me at 924-3630.

Sincerely,

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
CO Clerk

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Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO ZONE MAP/DRG. FILE #: H-14/D81
DRB #. 1004390 EPC#. WORK ORDER #.

LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/09/2006, Book 2006C, Page 48).
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HYDROLOGY SECTION

DATE SUBMITTED: July 13, 2007 BY: Bruce J. Stidworthy, PE

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Bohannan △ Huston INC.

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July 12, 2007

Wilfred Gallegos, P.E.
Traffic Engineer
City of Albuquerque
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Sincerely,

Paul M. Wymer, AIA
Project Manager
Community Development and Planning

PMW/am
Enclosure

cc: Russell Reinhard, SMI-Texas
Bruce Stidworthy, BHI

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

April 28, 2006

Paul Wymer
Bohannan Huston
7500 Jefferson St. NE
Albuquerque NM 87109-4335

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for Offices and Warehouse for Lofland Company of New Mexico [H-14/D-81] (2301 1st Street NW), Albuquerque, NM
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Development and Building Services

cc: Hydrology file
File

P.O. Box 1293
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DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/28/2003rd)

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- xx YES
- ____ NO
- xx COPY PROVIDED

RECEIVED
APR 28 2006
LAND DEVELOPMENT SECTION

RECEIVED
FEB 16 2006
HYDROLOGY SECTION

DATE SUBMITTED: February 16, 2006 BY: Bruce J. Stidworthy, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

File: 06d32 002 PLAT

CITY OF ALBUQUERQUE

May 2, 2006

Bruce Stidworthy, PE
Bohannan Huston, Inc.
7500 Jefferson St. NE
Albuquerque, NM 87109

Re: Lofland of New Mexico Grading and Drainage Plan
Engineer's Stamp dated 4-19-06 (H14/D81)

Dear Mr. Stidworthy,

Based upon the information provided in your submittal dated 4-19-06, 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.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions please visit http://www.cabq.gov/flood/npdesm.html or feel free to call the Municipal Development Department Hydrology Section at 768-3654 (Charles Caruso).

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne
Engineering Associate, Planning Dept.
Development and Building Services

BB

C: file
Charles Caruso, DMD

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO ZONE MAP/DRG. FILE #: H-14-Z D81
DRB #. 1004390 EPC#. WORK ORDER #.

LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1st Street , N.W. Albuquerque, New Mexico

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CMC STEEL FABRICATORS, INC CONTACT:
ADDRESS: 2300 1ST STREET PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87102

ARCHITECT: DWL Architects & Planners, Inc. of New Mexico CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd. PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87112

CONTRACTOR: Michael S. Rich Contractors, Inc. CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E. PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87199

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1ST SUBMITTAL, ***REQUIRES TCL or equal***
- XX DRAINAGE PLAN RESUBMITTAL
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERTIFICATION (TCL)
- ____ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- XX BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- xx YES
- ____ NO
- xx COPY PROVIDED

RECEIVED
APR 19 2006
HYDROLOGY SECTION

DATE SUBMITTED: April 19, 2006 BY: Bruce J. Stidworthy, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

Find file,
file for
Remain

Bohannan △ Huston Inc.

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

April 19, 2006

Ms. Kristal Metro
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

Re: Lofland of New Mexico, 2300 1st Street NW, Response to City Hydrology Comments, City Hydrology file # H14/D81

Dear Kristal:

This letter is provided in response to your review comments as provided in your letter to me dated April 6, 2006. Please note that a pre-design meeting was held between Richard Hall and Brad Bingham on Thursday September 15, 2005. The basic conclusion of that meeting was that this project is a simple urban infill project which will not adversely impact downstream conditions. A copy of the e-mail documenting that discussion is attached to this letter for your files. Below are responses to each of your comments:

1. An executive summary has been provided on the grading and drainage plan, it addresses the specific subjects that you requested.
2. Benchmark information has been provided on the plan.
3. A reduced scale copy of the applicable Flood Insurance Rate Map has been shown on the plan. It indicates that the nearest floodplain is at the corner of Arvada and 2nd Street. The site does drain to this floodplain, but based on pre-design discussions, we conclude that the project does not have an adverse impact.
4. The southernmost portion of the site is not being modified as a result of this project. It is almost entirely impervious. The hatch patterns and legend have been modified in order to clarify the various site conditions.
5. Finished floor elevations for all existing buildings have been provided. The only new structure is not a "building" per se. It is basically a "shade structure" to provide shelter from the sun and rain for steel fabrication work. However, the structure does not have a single finished floor elevation and it does not have walls.

With the comment responses provided in this letter and the revised grading and drainage plan, we are requesting your approval for grading and building permit. Please contact me or Paul Wymer if you have any questions.

Sincerely,

Bruce J. Stidworthy, P.E.
Vice President
Community Development and Planning

BJS/cc

cc: Paul Wymer, BHI
Russell Reinhard, SMI

RECEIVED
APR 19 2006
HYDROLOGY SECTION

P:\060132\cdp\corres\Letters\Kristal Metro Comment Respones.doc

Richard Hall

From: Bruce Stidworthy
Sent: Thursday, September 15, 2005 5:56 PM
To: Richard Hall
Subject: RE: Predesign for Lofland Steel

Richard: Excellent documentation. Please make sure this gets in the file. Thanks, Bruce.

From: Richard Hall
Sent: Thursday, September 15, 2005 4:26 PM
To: Smith, Tom (South Carolina); Keller, Kolin; Reinhard, Russell G.; 'Lindeman, Wade C'; BBingham@cabq.gov; Bruce Stidworthy
Subject: Predesign for Lofland Steel

To all concerned parties,

I met with Brad Bingham today to discuss the requirements for grading and drainage for the Lofland Steel expansion project. The result of the meeting was an agreement that free discharge would be allowed into First Street. First street has adequate width and slope to contain within the right of way all runoff discharged into the street. First street runoff is directed south toward existing drainage infrastructure. Ponding would not be required since the storm drain facilities located south of the site in Arvada and Second streets are available to accept flows from First Street. The flood plain shown on the maps at Arvada is contained within the right of way and will not be exceeded by this development. Secondly, this is an infill site and would not adversely affect the over integrity of the Storm drain management plan for this area. The estimated flow generated from the difference between the Historic flow rate based on Land Treatment Type C (soil compacted by human activity) and the developed Land Treatment Type D (impervious pavement and concrete) will have no effect on the downstream conditions.

Richard V. Hall PE
Community Development & Planning
BOHANNAN HUSTON
7500 Jefferson St. NE
Office 823-1000 Fax 798-7988
email rhall@bhinc.com

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO ZONE MAP/DRG. FILE #: H-14-Z
DRB #. _____ EPC#. _____ WORK ORDER #. _____

LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1st Street , N.W. Albuquerque, New Mexico

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

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ADDRESS: 202 Central Ave. S.E., West Courtyard PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

SURVEYOR: Hall Surveying Co. CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd. PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87112

CONTRACTOR: Michael S. Rich Contractors, Inc. CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E. PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87199

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- xx DRAINAGE PLAN 1ST SUBMITTAL, ***REQUIRES TCL or equal***
- ____ DRAINAGE PLAN RESUBMITTAL
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- xx TRAFFIC CIRCULATION LAYOUT (TCL)
- ____ ENGINEER'S CERTIFICATION (TCL)
- ____ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ____ OTHER

↓ TCC not attached to Submittal DW

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SIA / FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
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- xx BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM.)
- ____ CERTIFICATE OF OCCUPANCY (TEMP.)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- xx YES
- ____ NO
- xx COPY PROVIDED

RECEIVED
FEB 16 2006
HYDROLOGY SECTION

DATE SUBMITTED: February 16, 2006 BY: Bruce J. Stidworthy, PE

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CITY OF ALBUQUERQUE

April 6, 2006

Bruce Stidworthy, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

Re: Lofland of New Mexico, 2300 1st Street NW, Grading and Drainage Plan
Engineer's Stamp dated 2-16-06 (H14-D81)

Dear Mr. Stidworthy,

Based upon the information provided in your submittal received 2-16-06, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. Provide an executive summary on the plan, defining the general project location, development concept for the site, drainage concept for the site, any master plans relevant to this site, how offsite flows will be handled, how onsite flows will be handled and discharged, downstream capacity and how it was determined, and impacts on or requirements of other jurisdictions (as per the Development Process Manual).
2. A benchmark must be provided.
3. Please identify the proximity of the site to a designated Flood Hazard Zone, including a copy of the relevant FEMA Flood Insurance Rate Map (FIRM). In addition, define whether or not the site drains to or has an adverse impact upon a designated Flood Hazard Zone.
4. Clarify whether the southernmost area is currently paved or not. The legend shown is unclear, as several hatchings are too similar. It is currently difficult to differentiate between existing and proposed conditions.
5. Provide finished floor elevations for all buildings, both existing and proposed.

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

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Richard Hall

From: Bruce Stidworthy
Sent: Thursday, September 15, 2005 5:56 PM
To: Richard Hall
Subject: RE: Predesign for Lofland Steel

Richard: Excellent documentation. Please make sure this gets in the file. Thanks, Bruce.

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Sent: Thursday, September 15, 2005 4:26 PM
To: Smith, Tom (South Carolina); Keller, Kolin; Reinhard, Russell G.; 'Lindeman, Wade C'; 'BBingham@cabq.gov'; Bruce Stidworthy
Subject: Predesign for Lofland Steel

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Richard V. Hall PE
Community Development & Planning
BOHANNAN HUSTON
7500 Jefferson St. NE
Office 823-1000 Fax 798-7988
email rhall@bhinc.com

9/16/2005

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 28, 1999

Chris Weiss Engineering Inc.
P.O. Box 97
Sandia Park, New Mexico 87047

RE: ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY FOR FIRST STREET FACILITY HAUSMAN CORP. (H-14/D81) ENGINEER CERTIFICATION STATEMENT 1/8/99

Dear Mr. Weiss:

Based on the information provided on your January 11, 1999 submittal, Engineer's Certification for the above referenced site is acceptable.

If I can be of any further assistance, please feel free to contact me at 924-3330.

Sincerely,

Andrew Garcia
Drainage Inspector

c: File

RESUBMITTAL
DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Lofland Company ZONE ATLAS / DRNG. FILE #: H14-D81

LEGAL DESCRIPTION: Lots 1-A, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: 2300 First Street NW

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

_____YES

__X__NO

_____COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO._____

EPC NO._____

PROJ. NO._____

TYPE OF SUBMITTAL:

_____DRAINAGE REPORT

_____DRAINAGE PLAN

_____CONCEPTUAL GRADING & DRAINAGE PLAN

_____GRADING PLAN

_____EROSION CONTROL PLAN

__X__ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____SKETCH PLAT

_____PRELIMINARY PLAT

_____SITE DEVELOPMENT PLAN

_____FINAL PLAT

_____BUILDING PERMIT

_____FOUNDATION PERMIT

__X__CERT. OF OCCUPANCY

_____ROUGH GRADING PERMIT

_____GRADING / PAVING PERMIT

_____OTHER_____

RECEIVED
JAN 11 1999
HYDROLOGY SECTION

DATE SUBMITTED: January 8, 1999

BY: C.L. Weiss Engineering, Inc.

1/28/99 Apr

DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation ZONE ATLAS / DRNG. FILE #: H-14 / 1481

LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

_____ YES

__X__ NO

_____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO._____

EPC NO._____

PROJ. NO._____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

__X__ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

__X__ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____SKETCH PLAT

_____PRELIMINARY PLAT

_____SITE DEVELOPMENT PLAN

_____FINAL PLAT

__X__ BUILDING PERMIT

_____FOUNDATION PERMIT

_____CERT. OF OCCUPANCY

_____ROUGH GRADING PERMIT

_____GRADING / PAVING PERMIT

_____OTHER_____

DATE SUBMITTED: September 19, 1996 - **RESUBMITTAL**

BY: C.L. Weiss Engineering, Inc.

C.L. Weiss Engineering, Inc
Post Office Box 97
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800
Alvarado Office (505) 266-3444

September 19, 1996

Bernie J. Montoya, CE
Engineering Associate
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: DRAINAGE RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 9/19/96

Dear Mr. Montoya:

Enclosed with this letter are two copies of the re-revised DG Plan for the above mentioned project. You previously approved this project in your letter dated June 7, 1996, and you approved a revision in your letter dated August 29, 1996. Since that time, the site plan has changed considerably and a new DG Plan was required.

The major change was an increase in the amount of impermeable pavement. This change required us to recalculate the proposed basins, pond design and pond outlet in order to maintain a historical discharge rate to First Street NW.

Please don't hesitate to call me at 266-3444 or Chris Weiss, Project Engineer at 281-1800 if you have any questions, comments or concerns.

Sincerely,

Bryan J. Bobrick, Project Manager
C.L. Weiss Engineering, Inc.

CITY OF
Albuquerque

September 24, 1996

Martin J. Chávez, Mayor

Chris Weiss
C.L. Weiss Engineering Inc.
P.O. Box 97
Sandia Park, NM 87047

RE: **DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 9/19/96.**

Dear Mr. Weiss:

Based on the information provided on your September 24, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
Arlene Portillo
File

CALCULATIONS:

Calculations are based on the Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 54346 SF = 1.25 Ac.

HISTORIC FLOWS:

On-Site Historic Land Condition

Area a	=	0	SF
Area b	=	0	SF
Area c	=	32396	SF
Area d	=	21950	SF
Total Area	=	54346	SF

DEVELOPED FLOWS:

On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	4059	SF
Area c	=	10853	SF
Area d	=	39434	SF
Total Area	=	54346	SF

EXCESS PRECIPITATION:

Precip. Zone 2

Ea = 0.53
Eb = 0.78
Ec = 1.13
Ed = 2.12

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Historic E =	1.53 in.	Developed E =	1.82 in.

On-Site Volume of Runoff: V360 = E*A / 12

Historic V360 =	6928 CF	Developed V360 =	8252 CF

On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560

For Precipitation Zone 2

Qpa =	1.56	Qpc =	3.14
Qbb =	2.28	Qpd =	4.70

Historic Qp =	4.7 CFS	Developed Qp =	5.2 CFS

See below for individual basin analysis.

BASIN 1 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 31050 SF = 0.7 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.85 in.

Off-Site Volume of Runoff (see formula above)

V360 = 4794 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 3.0 cfs

TREATMENT	
A =	0%
B =	0%
C =	27%
D =	73%

**Existing Basin 1 flows currently exit the site to 1st Street NW

BASIN 2 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 16248 SF = 0.4 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.13 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1530 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	100%
D =	0%

**Existing Basin 2 flows currently pond on site

BASIN 3 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 7048 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.15 in.

Off-Site Volume of Runoff (see formula above)

V360 = 675 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.5 cfs

TREATMENT	
A =	0%
B =	0%
C =	98%
D =	2%

**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O.W.

BASIN 1 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 13905 SF = 0.3 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.73 in.

Off-Site Volume of Runoff (see formula above)

V360 = 2009 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.3 cfs

TREATMENT	
A =	0%
B =	17%
C =	16%
D =	67%

**Proposed Basin 1 Flows to free discharge to 1st Street NW

BASIN 2 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 26823 SF = 0.6 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.90 in.

Off-Site Volume of Runoff (see formula above)

V360 = 4238 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 2.7 cfs

TREATMENT	
A =	0%
B =	0%
C =	23%
D =	77%

**Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" dia. storm drain. See additional calcs. below

PROPOSED POND SIZE

	POND VOLUME CALC		AREA (SF)	VOLUME (CF)
Area of contour	4969.5	=	9865	
	4969.0	=	3945	3453
	4968.5	=	16	990

Volume Provided:
4443

Flows will be released to 1st Street NW through 2 - 4" storm drains draining through a 1' wide sidewalk culvert. Pipe flow condition was checked by Orifice Equation and Cutters. Formula for circular pipes flowing full. The entrance controls the flowrate capacity at 0.5 cfs. Assuming a 30% clogging factor, the potential total flowrate = 0.7 cfs. See Inflow / Outflow Hydrograph for additional information.

BASIN 3 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 2393 SF = 0.1 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.13 in.

Off-Site Volume of Runoff (see formula above)

V360 = 225 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	100%
D =	0%

**Proposed Basin 3 flows to free discharge to 1st St. NW

BASIN 4 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 9773 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.84 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1497 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.9 cfs

TREATMENT	
A =	0%
B =	21%
C =	0%
D =	79%

**Proposed Basin 4 flows to free discharge to 1st St. NW

DISCHARGE TO 1ST STREET NW - COMPARISON

Free discharge comparison:

Existing:			Proposed		
Basin 1 only	=	3.0 cfs	Basin 1	=	1.3 cfs
			Basin 2 (pipe)	=	0.7 cfs
			Basin 3	=	0.2 cfs
			Basin 4	=	0.9 cfs
			TOTAL	=	3.1 cfs

HYDROGRAPH FOR SMALL WATERSHED
DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

$t_B = (2.107 * E * A_T / Q_P) - (0.25 * A_D / A_T)$

Where

E	=	1.9 inches
A_T	=	0.62 acres
A_D	=	0.48 acres
Q_P	=	2.7 cfs

t_B	=	0.73 hours

E is the excess precipitation in inches (from DPM TABLE A-8), Q_P is the peak flow, A_D is the area in treatment D, and AT is the total area in acres. Using the time of concentration, t_C (hours), the time to peak in hours is:

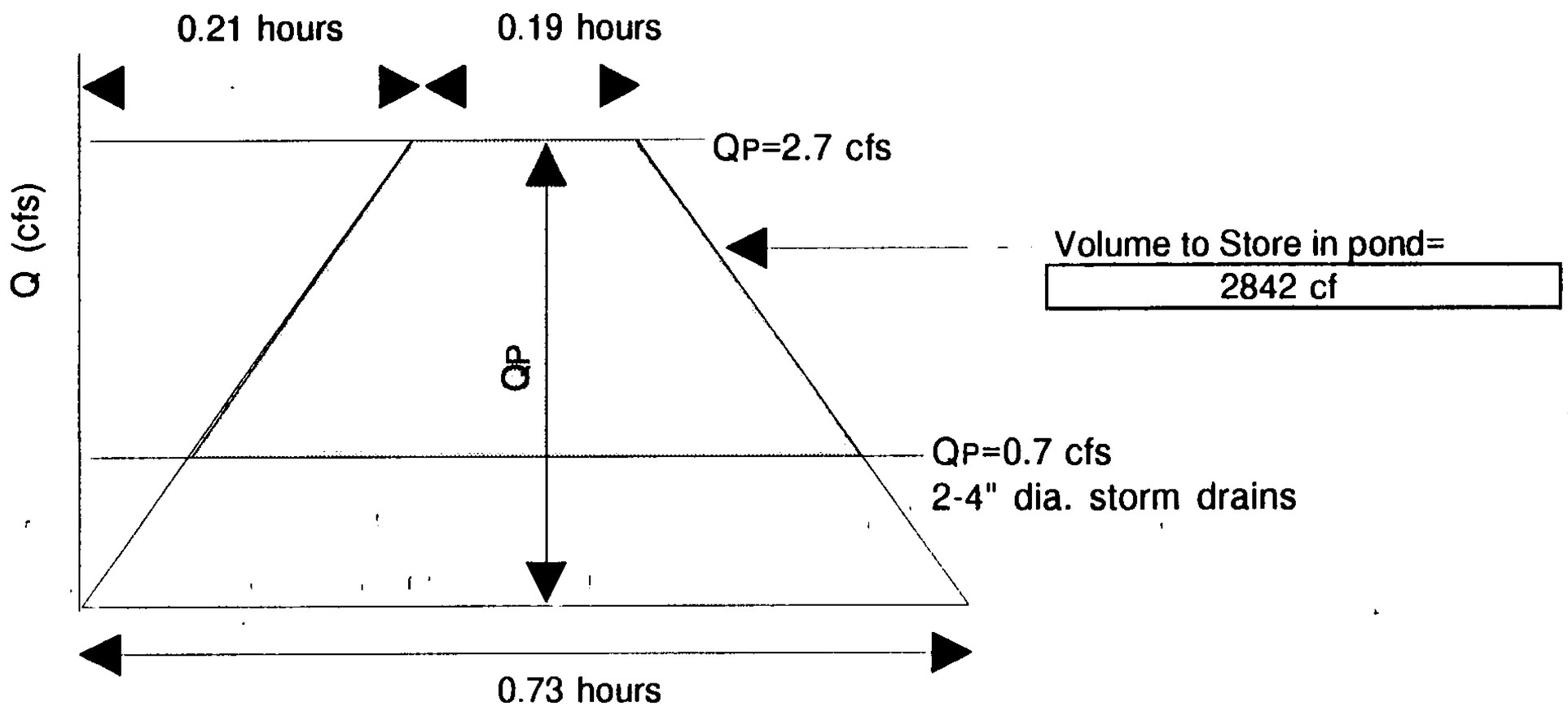
$t_P = (0.7 * t_C) + ((1.6 - (A_D / A_T)) / 12)$

Where

t_C	=	0.20 hours

t_P	=	0.21 hours

Continue the peak for 0.25 * AP / AT hours. When A_D is zero, the hydrograph will be triangular. When A_D is not zero, the hyrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

CITY OF
Albuquerque

August 29, 1996

Martin J. Chávez, Mayor

Chris Weiss
C.L. Weiss Engineering Inc.
P.O. Box 97
Sandia Park, NM 87047

RE: DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 8/19/96.

Dear Mr. Weiss:

Based on the information provided on your August 20, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
Arlene Portillo
-File- - -

CITY OF
Albuquerque

June 7, 1996

Martin J. Chávez, Mayor

Chris Weiss
C.L. Weiss Engineering Inc.
P.O. Box 97
Sandia Park, NM 87047

RE: DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 5/30/96.

Dear Mr. Weiss:

Based on the information provided on your June 3, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
Arlene Portillo
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation ZONE ATLAS / DRNG. FILE #: H-14/D581

LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: Dubay Construction CONTACT:

ADDRESS: PHONE: 877-4155

PRE-DESIGN MEETING:

____ YES

_X_ NO

____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.____

EPC NO.____

PROJ. NO.____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

_X_ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

_X_ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT

____ PRELIMINARY PLAT

____ SITE DEVELOPMENT PLAN

____ FINAL PLAT

_X_ BUILDING PERMIT

____ FOUNDATION PERMIT

____ CERT. OF OCCUPANCY

____ ROUGH GRADING PERMIT

____ GRADING / PAVING PERMIT

____ OTHER____

DATE SUBMITTED: May 29, 1996

BY: C.L. Weiss Engineering, Inc.

Site Calculations-Hausman

CALCULATIONS:

Calculations are based on the Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 54346 SF = 1.25 Ac.

HISTORIC FLOWS:

On-Site Historic Land Condition

Area a	=	0	SF
Area b	=	0	SF
Area c	=	32396	SF
Area d	=	21950	SF
Total Area	=	54346	SF

DEVELOPED FLOWS:

On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	5435	SF
Area c	=	24207	SF
Area d	=	24704	SF
Total Area	=	54346	SF

EXCESS PRECIPITATION:

Precip. Zone 2

Ea = 0.53
Eb = 0.78
Ec = 1.13
Ed = 2.12

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Historic E	=	1.53 in.	Developed E	=	1.55 in.

On-Site Volume of Runoff: V360 = E*A / 12

Historic V360	=	6928 CF	Developed V360	=	6997 CF

On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560

For Precipitation Zone 2

Qpa = 1.56
Qbb = 2.28
Qpc = 3.14
Qpd = 4.70

Historic Qp	=	4.7 CFS	Developed Qp	=	4.7 CFS

There is no overall increase between the historic and developed volumes / flowrates. See below for individual basin analysis.

BASIN 1 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 31050 SF = 0.7 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.55 in.

Off-Site Volume of Runoff (see formula above)

V360 = 4004 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 2.4 cfs

TREATMENT	
A =	0%
B =	0%
C =	0%
D =	73%

**Existing Basin 1 flows currently exit the site to 1st Street NW

BASIN 2 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 16248 SF = 0.4 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.13 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1530 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	100%
D =	0%

**Existing Basin 2 flows currently pond on site

BASIN 3 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 7048 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.15 in.

Off-Site Volume of Runoff (see formula above)

V360 = 675 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.5 cfs

TREATMENT	
A =	0%
B =	0%
C =	98%
D =	2%

**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O.W.

BASIN 1 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 14167 SF = 0.3 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.78 in.

Off-Site Volume of Runoff (see formula above)

V360 = 2100 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.3 cfs

TREATMENT	
A =	0%
B =	7%
C =	25%
D =	68%

**Proposed Basin 1 Flows to free discharge to 1st Street NW

BASIN 2 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 27601 SF = 0.6 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.39 in.

Off-Site Volume of Runoff (see formula above)

V360 = 3191 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 2.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	74%
D =	26%

**Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" dia. storm drain. See additional calcs. below

PROPOSED POND SIZE

POND VOLUME CALC	AREA (SF)		VOLUME (CF)	
Area of contour	4969.5	=	5107	
	4969.0	=	3749	2214
	4968.5	=	364	1028

Volume Provided:	Req'd
3242	3191

Flows will be released to 1st Street NW through a 4" storm drain. Capacity = 0.19 cfs. At this rate, the pond will empty within 12 hours.

BASIN 3 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 5145 SF = 0.1 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.41 in.

Off-Site Volume of Runoff (see formula above)

V360 = 603 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.4 cfs

TREATMENT	
A =	0%
B =	0%
C =	72%
D =	28%

**Proposed Basin 3 flows to free discharge to 1st St. NW

BASIN 4 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 6542 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.88 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1024 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.6 cfs

TREATMENT	
A =	0%
B =	18%
C =	0%
D =	82%

**Proposed Basin 4 flows to free discharge to 1st St. NW

DISCHARGE TO 1ST STREET NW - COMPARISON

Free discharge comparison:

Existing:			Proposed		
Basin 1 only	=	2.4 cfs	Basin 1	=	1.3 cfs
			Basin 2 (pipe)	=	0.2 cfs
			Basin 3	=	0.4 cfs
			Basin 4	=	0.6 cfs
			TOTAL	=	2.6 cfs

Therefore, the increase in discharge rates is insignificant and will have a negligible affect on downstream facilities.

DuBay - Hausman
Worksheet for Circular Channel

Project Description	
Project File	c:\haestad\fmw\dubayhau.fm2
Worksheet	4" storm drain
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coefficient	0.010	
Channel Slope	0.006000	ft/ft
Depth	0.33	ft
Diameter	4.00	in

Results		
Discharge	0.19	cfs
Flow Area	0.09	ft²
Wetted Perimeter	1.05	ft
Top Width	0.00	ft
Critical Depth	0.25	ft
Percent Full	100.00	
Critical Slope	0.007423	ft/ft
Velocity	2.20	ft/s
Velocity Head	0.07	ft
Specific Energy	FULL	ft
Froude Number	FULL	
Maximum Discharge	0.21	cfs
Full Flow Capacity	0.19	cfs
Full Flow Slope	0.006000	ft/ft

DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation ZONE ATLAS / DRNG. FILE #: H-14/D181

LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

_____ YES

__X__ NO

_____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO._____

EPC NO._____

PROJ. NO._____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

__X__ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

__X__ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____SKETCH PLAT

_____PRELIMINARY PLAT

_____SITE DEVELOPMENT PLAN

_____FINAL PLAT

__X__ BUILDING PERMIT

_____FOUNDATION PERMIT

_____CERT. OF OCCUPANCY

_____ROUGH GRADING PERMIT

_____GRADING / PAVING PERMIT

_____OTHER_____

DATE SUBMITTED: August 19, 1996 - **RESUBMITTAL**

BY: C.L. Weiss Engineering, Inc.

RECEIVED

AUG 20 1996

Weiss Engineering

C.L. Weiss Engineering, Inc
Post Office Box 97
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800
Alvarado Office (505) 266-3444

August 19, 1996

Bernie J. Montoya, CE
Engineering Associate
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: DRAINAGE RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 8/19/96

Dear Mr. Montoya:

Enclosed with this letter are two copies of the revised DG Plan for the above mentioned project. You previously approved this project in your letter dated June 7, 1996. Since that time, the site plan has changed considerably and a new DG Plan was required.

The major change was a large increase in the amount of impermeable pavement. This change required us to recalculate the proposed basins and pond design in order to maintain an historical discharge rate to First Street NW.

Please don't hesitate to call me at 266-3444 or Chris Weiss, Project Engineer at 281-1800 if you have any questions, comments or concerns.

Sincerely,

Bryan J. Bobrick, Project Manager
C.L. Weiss Engineering, Inc.

::reviewed and approved by C.L. Weiss, P.E.
Principle Engineer

AUG 20 1996

HYDROGRAPH FOR SMALL WATERSHED
DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

$t_B = (2.107 * E * A_T / Q_P) - (0.25 * A_D / A_T)$

Where

E	=	1.86 inches
A_T	=	0.61 acres
A_D	=	0.45 acres
Q_P	=	2.6 cfs

t_B	=	0.74 hours

E is the excess precipitation in inches (from DPM TABLE A-8), QP is the peak flow, A_D is the area in treatment D, and AT is the total area in acres. Using the time of concentration, tc (hours), the time to peak in hours is:

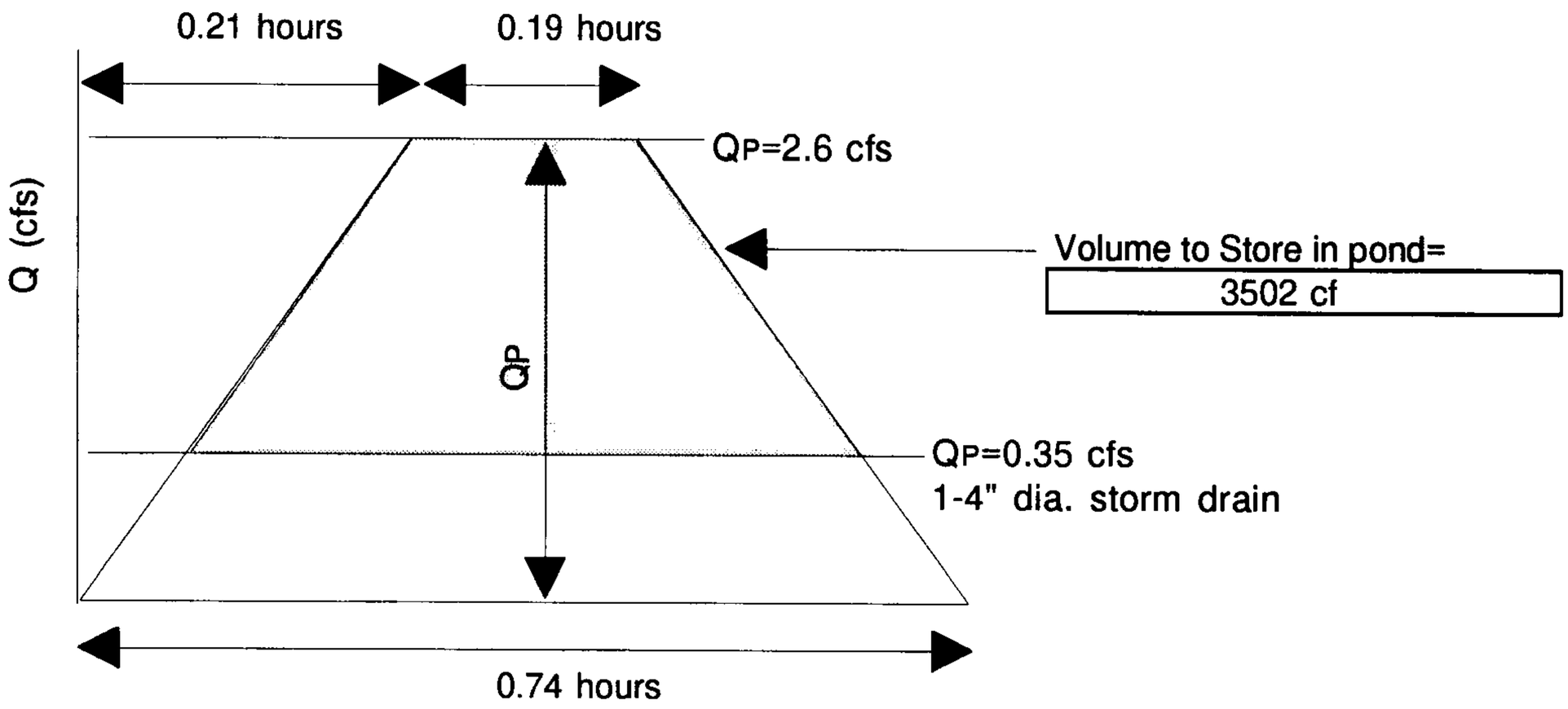
$t_P = (0.7 * t_C) + ((1.6 - (A_D / A_T)) / 12)$

Where

t_C	=	0.20 hours

t_P	=	0.21 hours

Continue the peak for 0.25 * AP / AT hours. When A_D is zero, the hydrograph will be triangular. When A_D is not zero, the hyrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

CALCULATIONS:

Calculations are based on the Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 54346 SF = 1.25 Ac.

HISTORIC FLOWS:

On-Site Historic Land Condition

Area a	=	0	SF
Area b	=	0	SF
Area c	=	32396	SF
Area d	=	21950	SF
Total Area	=	54346	SF

DEVELOPED FLOWS:

On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	3160	SF
Area c	=	13186	SF
Area d	=	38000	SF
Total Area	=	54346	SF

EXCESS PRECIPITATION:

Precip. Zone 2

Ea = 0.53
Eb = 0.78
Ec = 1.13
Ed = 2.12

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Historic E	=	1.53	in.
Developed E	=	1.80	in.

On-Site Volume of Runoff: V360 = E*A / 12

Historic V360	=	6928	CF
Developed V360	=	8160	CF

On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560

For Precipitation Zone 2

Qpa	=	1.56	Qpc	=	3.14
Qbb	=	2.28	Qpd	=	4.70

Historic Qp	=	4.7	CFS
Developed Qp	=	5.2	CFS

See below for individual basin analysis.

BASIN 1 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 31050 SF = 0.7 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.85 in.

Off-Site Volume of Runoff (see formula above)

V360 = 4794 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 3.0 cfs

TREATMENT	
A =	0%
B =	0%
C =	27%
D =	73%

**Existing Basin 1 flows currently exit the site to 1st Street NW

BASIN 2 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 16248 SF = 0.4 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.13 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1530 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	100%
D =	0%

**Existing Basin 2 flows currently pond on site

BASIN 3 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 7048 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right taken from the approved Drainage / Grading Plan (PWD-91-39)

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.15 in.

Off-Site Volume of Runoff (see formula above)

V360 = 675 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.5 cfs

TREATMENT	
A =	0%
B =	0%
C =	98%
D =	2%

**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O.W.

2 0 1995

BASIN 1 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 14039 SF = 0.3 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.74 in.

Off-Site Volume of Runoff (see formula above)

V360 = 2038 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 1.3 cfs

TREATMENT	
A =	0%
B =	14%
C =	19%
D =	67%

**Proposed Basin 1 Flows to free discharge to 1st Street NW

BASIN 2 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 26650 SF = 0.6 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.86 in.

Off-Site Volume of Runoff (see formula above)

V360 = 4138 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 2.6 cfs

TREATMENT	
A =	0%
B =	0%
C =	26%
D =	74%

**Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" dia. storm drain. See additional calcs. below

PROPOSED POND SIZE

	POND VOLUME CALC		AREA (SF)		VOLUME (CF)
Area of contour	4969.5	=	9606		
	4969.0	=	2860	3117	
	4968.5	=	10	718	

Volume Provided:
3834

Flows will be released to 1st Street NW through a 4" storm drains. Capacity = 0.35 cfs each.

See Inflow / Outflow Hydrograph for additional information.

BASIN 3 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 6022 SF = 0.1 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.85 in.

Off-Site Volume of Runoff (see formula above)

V360 = 930 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.6 cfs

TREATMENT	
A =	0%
B =	17%
C =	4%
D =	79%

**Proposed Basin 3 flows to free discharge to 1st St. NW

BASIN 4 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 6780 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Off-Site Weighted Excess Precipitation (see formula above)

Weighted E = 1.91 in.

Off-Site Volume of Runoff (see formula above)

V360 = 1077 CF

Off-Site Peak Discharge Rate: (see formula above)

Qp = 0.7 cfs

TREATMENT	
A =	0%
B =	16%
C =	0%
D =	84%

**Proposed Basin 4 flows to free discharge to 1st St. NW

DISCHARGE TO 1ST STREET NW - COMPARISON

Free discharge comparison:

Existing:			Proposed		
Basin 1 only	=	3.0 cfs	Basin 1	=	1.3 cfs
			Basin 2 (pipe)	=	0.4 cfs
			Basin 3	=	0.6 cfs
			Basin 4	=	0.7 cfs
			TOTAL	=	2.9 cfs

Therefore, the increase in discharge rates is insignificant and will have a negligible affect on downstream facilities.

JUNE 9, 1998

SUPPLEMENTAL CALCULATIONS

FOR

DuBay - 2300 FIRST STREET NW ALBUQUERQUE, NEW MEXICO

BY

C.L WEISS ENGINEERING, INC.
Post Office Box 97 * Sandia Park, NM 87047
Phone / Fax (505) 281-1800
1100 Alvarado Dr. NE * Albuquerque, NM 87110
Phone / Fax (505) 266-3444

Calculations are based on the Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE

AREA OF SITE: 54346 SF = 1.25 Ac.

HISTORIC FLOWS:

On-Site Historic Land Condition

Area a	=	0	SF
Area b	=	0	SF
Area c	=	32396	SF
Area d	=	21950	SF
Total Area	=	54346	SF

DEVELOPED FLOWS:

On-Site Developed Land Condition

Area a	=	0	SF
Area b	=	4059	SF
Area c	=	10853	SF
Area d	=	39434	SF
Total Area	=	54346	SF

EXCESS PRECIPITATION:

Precip. Zone 2

Ea = 0.53
Eb = 0.78
Ec = 1.13
Ed = 2.12

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{EaAa + EbAb + EcAc + EdAd}{Aa + Ab + Ac + Ad}$$

Historic E	=	1.53 in.	
Developed E	=	1.82 in.	

On-Site Volume of Runoff: V360 = E*A / 12

Historic V360	=	6928 CF	
Developed V360	=	8252 CF	

On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560

For Precipitation Zone 2

Qpa = 1.56
Qbb = 2.28
Qpc = 3.14
Qpd = 4.70

Historic Qp	=	4.7 CFS	
Developed Qp	=	5.2 CFS	

See below for individual basin analysis.

BASIN 1 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 31050 SF = 0.7 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Weighted Excess Precipitation (see formula above)

Weighted E = 1.85 in.

Volume of Runoff (see formula above)

V360 = 4794 CF

Peak Discharge Rate: (see formula above)

Qp = 3.0 cfs

TREATMENT	
A =	0%
B =	0%
C =	27%
D =	73%

**Existing Basin 1 flows currently exit the site to 1st Street NW

BASIN 2 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 16248 SF = 0.4 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Weighted Excess Precipitation (see formula above)

Weighted E = 1.13 in.

Volume of Runoff (see formula above)

V360 = 1530 CF

Peak Discharge Rate: (see formula above)

Qp = 1.2 cfs

TREATMENT	
A =	0%
B =	0%
C =	100%
D =	0%

**Existing Basin 2 flows currently pond on site

BASIN 3 - EXISTING

From Site Topographic Survey:

Area of Basin flows = 7048 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right.

Weighted Excess Precipitation (see formula above)

Weighted E = 1.15 in.

Volume of Runoff (see formula above)

V360 = 675 CF

Peak Discharge Rate: (see formula above)

Qp = 0.5 cfs

TREATMENT	
A =	0%
B =	0%
C =	98%
D =	2%

**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O.W.

BASIN 1 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 12021 SF = 0.3 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Weighted Excess Precipitation (see formula above)

Weighted E = 1.78 in.

Volume of Runoff (see formula above)

V360 = 1781 CF

Peak Discharge Rate: (see formula above)

Qp = 1.1 cfs

TREATMENT	
A =	0%
B =	0%
C =	34%
D =	66%

**Proposed Basin 1 Flows to free discharge to 1st Street NW

BASIN 2 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 30105 SF = 0.69 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Weighted Excess Precipitation (see formula above)

Weighted E = 1.88 in.

Volume of Runoff (see formula above)

V360 = 4722 CF

Peak Discharge Rate: (see formula above)

Qp = 3.0 cfs

TREATMENT	
A =	0%
B =	0%
C =	24%
D =	76%

**Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" dia. storm drain. See additional calcs. below

PROPOSED POND SIZE

	POND VOLUME CALCS		AREA (SF)	VOLUME (CF)
Area of contour	4969.5	=	8095	
	4969.0	=	4757	3213
	4968.5	=	10	1192

Volume Required:
4231
Volume Provided:
4405

Flows will be released to 1st Street NW through 2 - 4" storm drains draining through a 1' wide sidewalk culvert. Pipe flow condition was checked by Orifice Equation and Kutters Formula for circular pipes flowing full. Controlling factor is friction loss for a maximum discharge of 0.15 cfs per pipe (total 0.3 cfs). See Inflow / Outflow Hydrograph for additional information.

BASIN 3 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 4438 SF = 0.1 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Weighted Excess Precipitation (see formula above)

Weighted E = 1.76 in.

Volume of Runoff (see formula above)

V360 = 650 CF

Peak Discharge Rate: (see formula above)

Qp = 0.4 cfs

TREATMENT	
A =	0%
B =	27%
C =	0%
D =	73%

**Proposed Basin 3 flows to free discharge to 1st St. NW

BASIN 4 - PROPOSED

From Site Topographic Survey:

Area of Basin flows = 7782 SF = 0.2 Ac. Precip. Zone 2

The following calculations are based on Treatment areas as shown in table to the right

Weighted Excess Precipitation (see formula above)

Weighted E = 1.93 in.

Volume of Runoff (see formula above)

V360 = 1253 CF

Peak Discharge Rate: (see formula above)

Qp = 0.8 cfs

TREATMENT	
A =	0%
B =	14%
C =	0%
D =	86%

**Proposed Basin 3 flows to free discharge to 1st St. NW

DISCHARGE TO 1ST STREET NW - COMPARISON

Free discharge comparison:

Existing:			**Proposed**		
Basin 1 only	=	3.0 cfs	Basin 1	=	1.1 cfs
			Basin 2 (pipe)	=	0.3 cfs
			Basin 3	=	0.4 cfs
			Basin 4	=	0.8 cfs
			TOTAL	=	2.6 cfs

HYDROGRAPH FOR SMALL WATERSHED
DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

$t_B = (2.107 * E * A_T / Q_P) - (0.25 * A_D / A_T)$

Where

E	=	1.88 inches
A_T	=	0.69 acres
A_D	=	0.53 acres
Q_P	=	3.0 cfs

t_B	=	0.73 hours

E is the excess precipitation in inches (from DPM TABLE A-8), QP is the peak flow, AD is the area in treatment D, and AT is the total area in acres. Using the time of concentration, tC (hours), the time to peak in hours is:

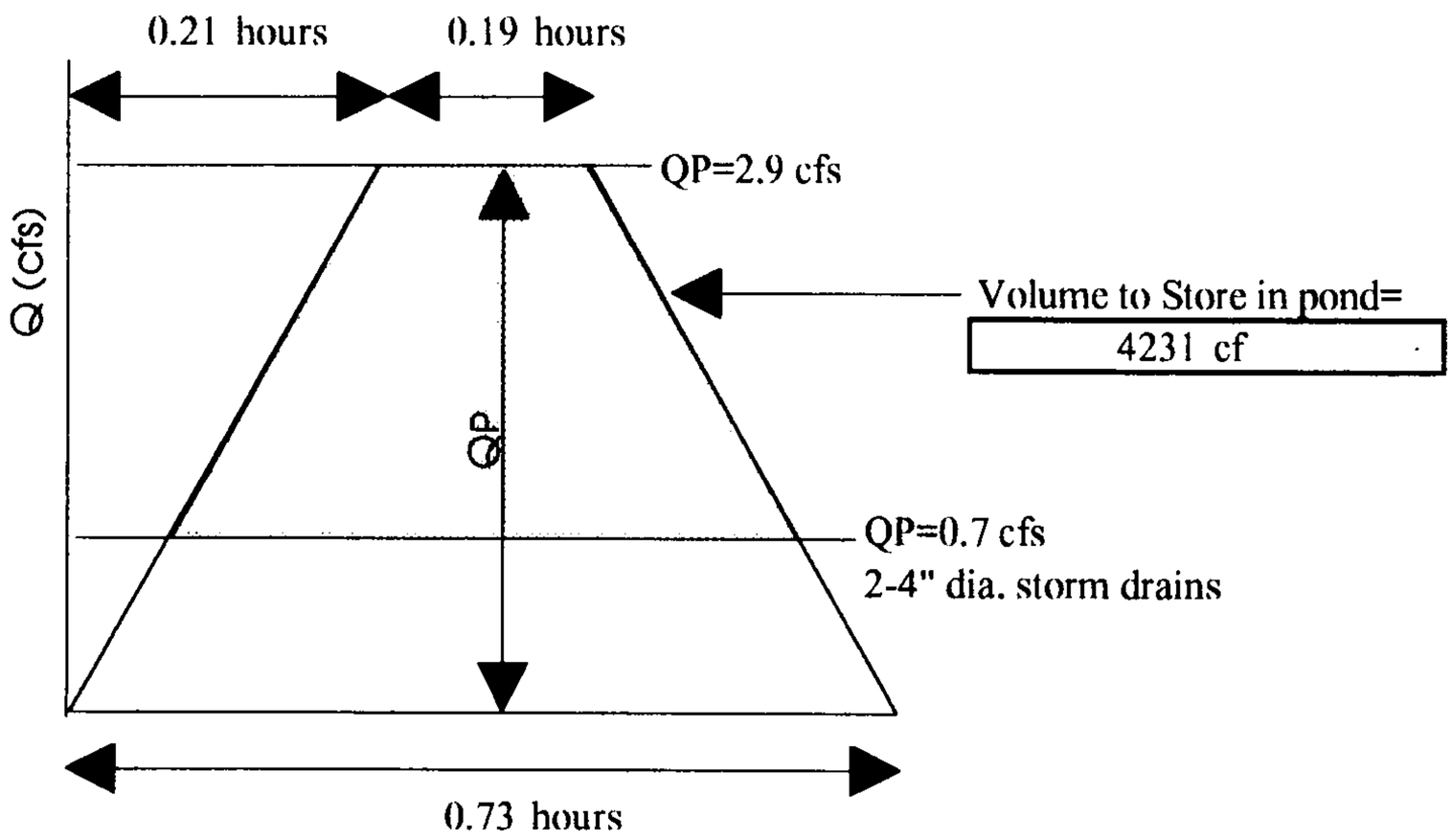
$t_P = (0.7 * t_C) + ((1.6 - (A_D / A_T)) / 12)$

Where

tC	=	0.20 hours

tP	=	0.21 hours

Continue the peak for 0.25 * AP / AT hours. When AD is zero, the hydrograph will be triangular. When AD is not zero, the hyrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

RESUBMITTAL
DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation ZONE ATLAS / DRNG. FILE #: H14-D81

LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: N/A

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

_____YES

__X__NO

_____COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO._____

EPC NO._____

PROJ. NO._____

TYPE OF SUBMITTAL:

_____DRAINAGE REPORT

__X__DRAINAGE PLAN

_____CONCEPTUAL GRADING & DRAINAGE PLAN

__X__GRADING PLAN

_____EROSION CONTROL PLAN

_____ENGINEER'S CERTIFICATION

RECEIVED
MAY 06 1998
HYDROLOGY SECTION

CHECK TYPE OF APPROVAL SOUGHT:

_____SKETCH PLAT

_____PRELIMINARY PLAT

_____SITE DEVELOPMENT PLAN

_____FINAL PLAT

__X__BUILDING PERMIT

_____FOUNDATION PERMIT

_____CERT. OF OCCUPANCY

_____ROUGH GRADING PERMIT

_____GRADING / PAVING PERMIT

_____OTHER_____

DATE SUBMITTED: May 6, 1998 - **RESUBMITTAL**

BY: C.L. Weiss Engineering, Inc.

C.L. Weiss Engineering, Inc
Post Office Box 97
Sandia Park, N.M. 87047

Phone / Fax (505) 281-1800
Alvarado Office (505) 266-3444

May 6, 1998

Bernie Montoya
City of Albuquerque Hydrology Dept.
PO Box 1293
Albuquerque, NM 87103

RE: DRAINAGE PLAN RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81).

Dear Mr. Montoya,

Mike DuBay asked us to resubmit this plan with a current date on the engineer's stamp to obtain a new building permit. I have reviewed the plan and all notes and calculations are based on current COA requirements. No changes have been made other than the updated engineer's stamp. Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions or comments.

Sincerely,

Bryan J. Bobrick
C. L. Weiss Engineering, Inc.

CITY OF
Albuquerque

June 22,1998

Chris Weiss
C.L.Weiss Engineering Inc.
P.O. Box 97
Sandia Park, new Mexico 87047

RE: REVISED DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORP.
(H14-D81) REVISION DATED 5/9/98

Dear Mr. Weiss:

Based on the information provided on your June 9,1998 resubmittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, I will need concurrence from the sidewalk inspector for the sidewalk culverts that have already been installed.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

RESUBMITTAL
DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation ZONE ATLAS / DRNG. FILE #: H14-D81

LEGAL DESCRIPTION: Lots 1-A, Block 12, Franciscan Addition, Albuquerque, New Mexico

CITY ADDRESS: 2300 First Street NW

ENGINEERING FIRM: C.L. Weiss Engineering CONTACT: Chris Weiss

ADDRESS: P.O. Box 97, Sandia Park NM, 87047 PHONE: 281-1800

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Forstbauer Surveying Co. CONTACT: Ron Forstbauer

ADDRESS: 1100 Alvarado Dr. NE - 87110 PHONE: 268-2112

CONTRACTOR FIRM: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

_____YES

__X__NO

_____COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO._____

EPC NO._____

PROJ. NO._____

TYPE OF SUBMITTAL:

_____DRAINAGE REPORT

__X__DRAINAGE PLAN

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__X__BUILDING PERMIT

_____FOUNDATION PERMIT

_____CERT. OF OCCUPANCY

_____ROUGH GRADING PERMIT

_____GRADING / PAVING PERMIT

_____OTHER_____

DATE SUBMITTED: June 9, 1998 - **RESUBMITTAL**

BY: C.L. Weiss Engineering, Inc.

RECEIVED
JUN 09 1998
HYDROLOGY SECTION