CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

May 25, 2006

Christopher Gunning, Registered Architect
6801 Jefferson NE, Ste.100
Albuquerque, NM 87109

Re: Certification Submittal for Final Building Certificate of Occupancy for
Alvarado Transportation Center Phase II, [K-14 / D67]
320 1st Street SW
Architect's Stamp Dated 05/23/06

Dear Mr. Gunning:

The TCL / Letter of Certification submitted on May 23, 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.

Sincerely,

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

c: Engineer
Hydrology file
CO Clerk

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

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-14/D67

PROJECT TITLE: Alvarado Transportation Center Phase II ZONE MAP/DRG. FILE # K-14/D67
DRB #: 98-148 EPC#: WORK ORDER#:

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1
CITY ADDRESS: 320 1st St. SW

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Glenn Broughton
ADDRESS: 7500 Jefferson NE – Courtyard I PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: City of Albuquerque CONTACT: Demetrio Griego
ADDRESS: PHONE: 768-3838
CITY, STATE: ZIP CODE:

ARCHITECT: Dekker/Perich/Sabatini CONTACT: Tim Veltkamp
ADDRESS: 6801 Jefferson NE Suite 100 PHONE: 761-9700
CITY, STATE: Albuquerque, New Mexico ZIP CODE: 87109

SURVEYOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CONTRACTOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEERS CERTIFICATION (TCL)
X ENGINEERS 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
____ BUILDING PERMIT APPROVAL
X 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:

____ YES
X NO
____ COPY PROVIDED

RECEIVED
MAY 23 2006
HYDROLOGY SECTION

DATE SUBMITTED: May 23, 2006 BY: Tim Veltkamp

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.

May 22, 2006

Dekker/Perich/Sabatini
architecture
interiors
planning
engineering

Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development & Building Services; Planning Dept.
600 2nd Street NW
Albuquerque, NM 87102

Re: Traffic Certification for
Permanent Certification of Occupancy

Dear Mr. Fernandez:

I Chris Gunning, NMRA No. 3203, of the firm Dekker/Perich/Sabatini, hereby certify that this project has in substantial compliance with and in accordance with the design intent of the approved Site Development Plan dated March 19, 2004. I further certify that I have personally visited the project site on May 16, 2006 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certification of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Very truly yours,

Dekker/Perich/Sabatini Ltd.

Christopher R. Gunning, AIA
Principal

STATE OF NEW MEXICO
CHRISTOPHER R. GUNNING
NO. 3203
5/22/06
REGISTERED ARCHITECT

6801 Jefferson NE
Suite 100
Albuquerque NM
87109
505 761 9700
fax 761 4222
dps@dpsabq.com

CITY OF ALBUQUERQUE

May 25, 2006

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

Re: Alvarado Transportation Center Phase II: Depot/Maintenance Buildings, 320 1st Street SW, Address, Certificate of Occupancy
Engineer's Stamp dated 6-15-04 (K14-D67)
Certification dated 5-22-06

Dear Mr. Broughton,

Based upon the information provided in your submittal received 5-23-06, 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 924-3981.

Sincerely,

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

C: CO Clerk
File

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

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-14/D67

PROJECT TITLE: Alvarado Transportation Center Phase II ZONE MAP/DRG. FILE # K-14/D67
DRB #: 98-148 EPC#: WORK ORDER#:

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1
CITY ADDRESS: 320 1st St. SW

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Glenn Broughton
ADDRESS: 7500 Jefferson NE – Courtyard I PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

ARCHITECT: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

SURVEYOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CONTRACTOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
__X__ ENGINEER'S CERTIFICATION (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEERS CERTIFICATION (TCL)
____ ENGINEERS 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
____ BUILDING PERMIT APPROVAL
__X__ CERTIFICATE OF OCCUPANCY (PERM.)
____ CERTIFICATE OF OCCUPANCY (TEMP.)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ OTHER (SPECIFY)

RECEIVED
MAY 23 2006
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

____ YES
____ NO
____ COPY PROVIDED

DATE SUBMITTED: May 22, 2006 BY: Glenn Broughton

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.

CITY OF ALBUQUERQUE

THREE HUNDRED YEARS 1706 • 2006
ALBUQUERQUE
Making History

July 16, 2004

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

Re: Alvarado Transportation Center Phase II, Grading and Drainage Plan
Engineer's Stamp dated 6-15-04 (K14-D67)

Dear Mr. Broughton,

Based upon the information provided in your submittal received 7-15-04, 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. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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) or 768-3645 (Bryan Wolfe).

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

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

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

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

K-14/D67

PROJECT TITLE: Alvarado Transportation Center Phase II ZONE MAP/DRG. FILE # K-14/D67
DRB #: 98-148 EPC#: WORK ORDER#:

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1
CITY ADDRESS:

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Glenn Broughton
ADDRESS: 7500 Jefferson NE – Courtyard I PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

ARCHITECT: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

SURVEYOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CONTRACTOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL GRADING & DRAINAGE PLAN
__x__ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ ENGINEERS CERTIFICATION (TCL)
____ ENGINEERS 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
__x__ 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:
____ YES
____ NO
____ COPY PROVIDED

RECEIVED
JUL 1 5 2004

DATE SUBMITTED: July 7, 2004 (Resubmittal) BY: Glenn Broughton

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.

Bohannan ▲ Huston

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

CLIENT/COURIER TRANSMITTAL

To: Brad Bingham, P.E.
Drainage Section
Municipal Development Department
City of Albuquerque
600 Second Street NW - 2nd Floor West

Requested by: Glenn Broughton - am

Date: May 13, 2004

Time Due:
- ☒ This A.M.
- ☐ This P.M.
- ☐ Rush _____
- ☐ By Tomorrow

Phone: 924-3986

Job No.: 02 0185 006 JRT

Job Name: Alvarado Transportation Center

DELIVERY VIA

- ☒ Courier
- ☐ Federal Express
- ☐ Mail
- ☐ UPS
- ☐ Other

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	"Drainage Report for Alvarado Transportation Center" dated May 5, 2004.
2	1	Drainage Information Sheet..
3	1	Review fee (Check #130578 dated 5/13/04 payable to COA for $50).

COMMENTS / INSTRUCTIONS

RECEIVED
MAY 13 2004
HYDROLOGY SECTION

RECEIVED
JUL 15 2004
HYDROLOGY SECTION

REC'D BY: _____ *DATE:* _____ *TIME:* 3:33 pm.

ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

ONE STOP SHOP
CITY OF ALBUQUERQUE PLANNING DEPARTMENT
Development & Building Services

PAID RECEIPT

APPLICANT NAME Alvarado Transp. Ctr Phase II

AGENT Bohannan Huston.

ADDRESS 7500 Jefferson

PROJECT & APP #

PROJECT NAME Alvarado T

$ _____ 469099/4916000 Conflict Management Fee

$ _____ 441006/4983000 DRB Actions

$ _____ 441006/4971000 EPC/AA/LUCC Actions & All Appeals

$ _____ 441018/4971000 Public Notification

$ 50.00 441006/4983000 DRAINAGE PLAN REVIEW OR TRAFFIC IMPACT STUDY***
( )Major/Minor Subdivision ( )Site Development Plan (X)Bldg Permit
( ) Letter of Map Revision ( )Conditional Letter of Map Revision
( ) Traffic Impact Study

$ 50.00 TOTAL AMOUNT DUE

****NOTE: If a subsequent submittal is required, bring a copy of this paid receipt with you to avoid an additional charge.*

RECEIVED
JUL 15 2004
HYDROLOGY SECTION

BANK OF AMERICA
ALBUQUERQUE, NEW MEXICO
95-32 / 1070 130578

Bohannan ▲ Huston INC.
COURTYARD I, 7500 JEFFERSON STREET NE
ALBUQUERQUE, NM 87109-4335
505.823.1000

5/13/2004 NO. 130578

DUPLICATE
City Of Albuquerque
Treasury Division

PAY **********50 DOLLARS & **********00 CENTS $ **********50.00

BOHANNAN-HUSTON INC.
05/13/2004 3:33PM LOC: ANNX
RECEIPT# 00022647 WS# 006 TRANS# 0041
Account 441006 Fund 0110
Activity 4983000 TRSEJA
Trans Amt $50.00
J24 Misc $50.00
CK $50.00
Change $0.00

TO THE ORDER OF
CITY OF ALBUQUERQUE
PO Box 1313
Albuquerque, NM 87103-1313 US

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

⑈130578⑈ ⑆107000327⑆ 002806399404⑈

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

June 14, 2004

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

Re: Alvarado Transportation Center Phase II, Grading and Drainage Report
Engineer's Stamp dated 5-04-04 (K14-D67)

Dear Mr. Broughton,

Based upon the information provided in your submittal received 5-13-04, the above referenced report is approved for Building Permit. Any minor comments can be addressed during the work order process. Please attach a copy of this approved report to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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 Public Works Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Brian Wolfe).

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

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

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

PROJECT TITLE: Alvarado Transportation Center Phase II ZONE MAP/DRG. FILE # K-14/D67
DRB #: 98-148 EPC#: WORK ORDER#:

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1
CITY ADDRESS:

ENGINEERING FIRM: Bohannan Huston, Inc. CONTACT: Glenn Broughton
ADDRESS: 7500 Jefferson NE – Courtyard I PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

ARCHITECT: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

SURVEYOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CONTRACTOR: CONTACT:
ADDRESS: PHONE:
CITY, STATE: ZIP CODE:

CHECK TYPE OF SUBMITTAL:

x DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL GRADING & DRAINAGE PLAN
x GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEERS CERTIFICATION (TCL)
___ ENGINEERS 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
x BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM.)
___ CERTIFICATE OF OCCUPANCY (TEMP.)
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ OTHER (SPECIFY)

RECEIVED
MAY 13 2004
HYDROLOGY SECTION

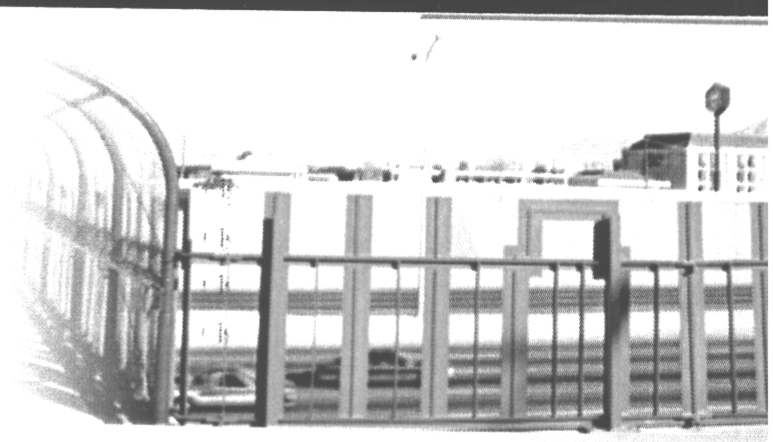
WAS A PRE-DESIGN CONFERENCE ATTENDED:
___ YES
___ NO
___ COPY PROVIDED

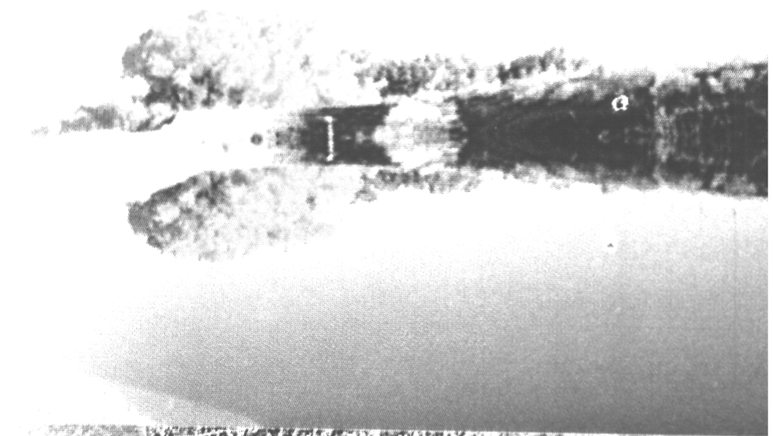
DATE SUBMITTED: May 10, 2004 BY: Glenn Broughton

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:

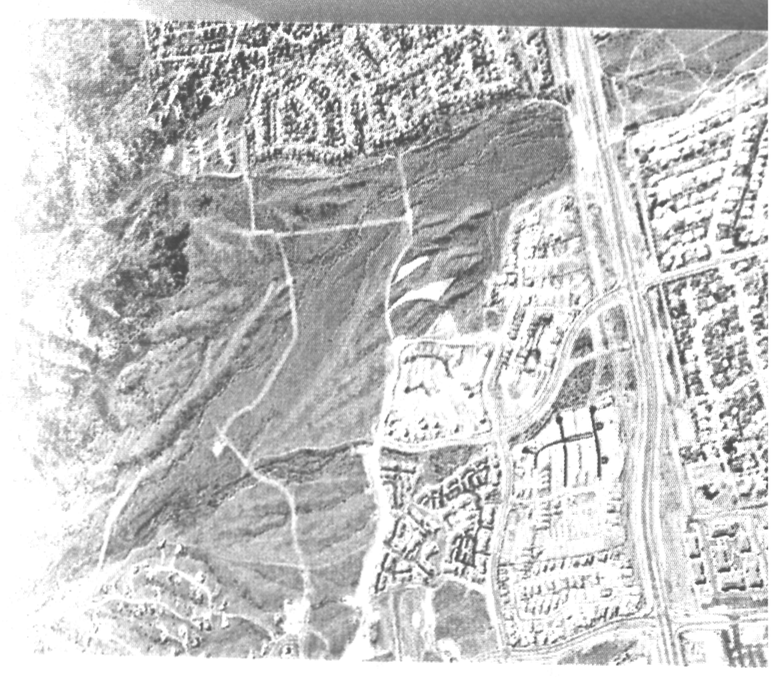
1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

DRAINAGE REPORT FOR ALVARADO TRANSPORTATION CENTER



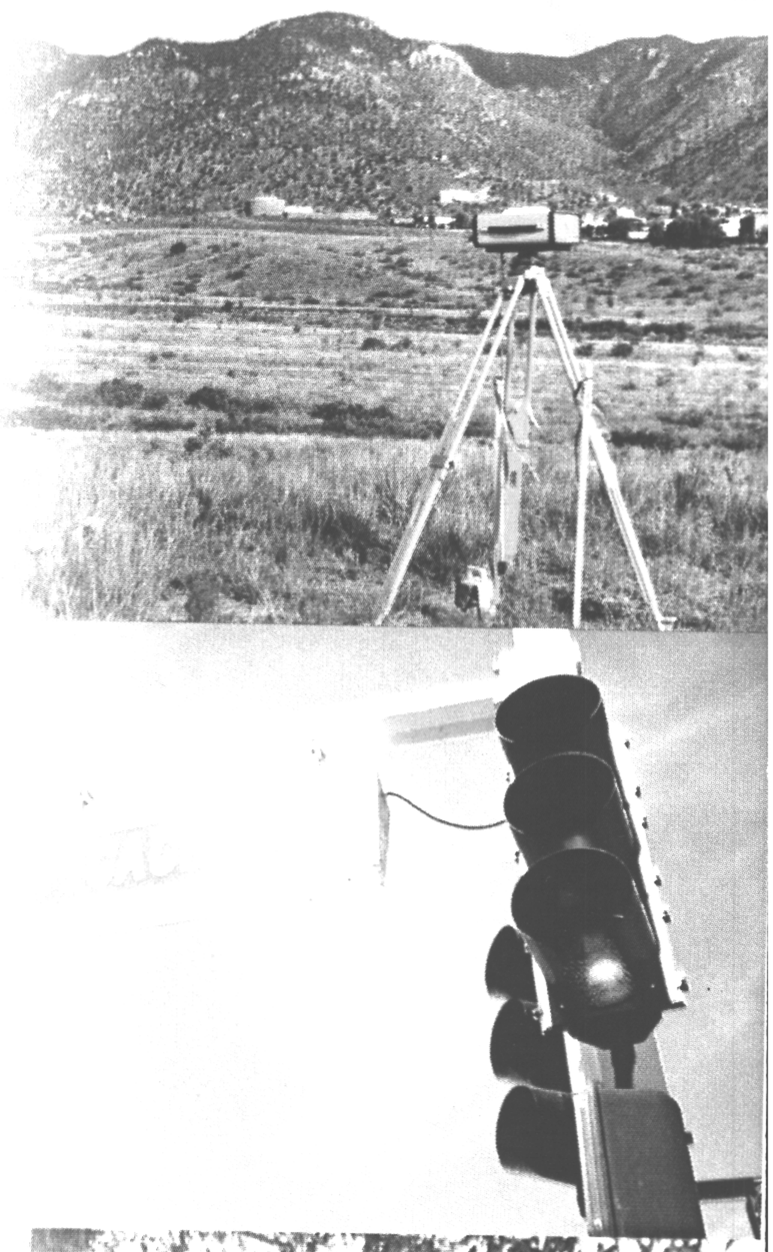


MAY 5, 2004



Prepared for:

City of Albuquerque Transit Dept.
c/o Dekker/Perich/Sabatini
6801 Jefferson NE - Suite 100
Albuquerque, NM 87109



Bohannan Huston INC.

ENGINEERING
SPATIAL DATA
ADVANCED TECHNOLOGIES

DRAINAGE REPORT
FOR
ALVARADO TRANSPORTATION CENTER

MAY 5, 2004

Prepared for:

CITY OF ALBUQUERQUE TRANSIT DEPT.
C/O DEKKER/PERICH/SABATINI
6801 JEFFERSON NE - SUITE 100
ALBUQUERQ UE, NM 87109

Prepared by:

BOHANNAN HUSTON, INC.
COURTYARD I
7500 JEFFERSON NE
ALBUQUERQUE, NM 87109

GLENN S. BROUGHTON
NEW MEXICO
14171
REGISTERED PROFESSIONAL ENGINEER

PREPARED BY:

Jerome Marez, E.I. 5/7/04
Date

UNDER THE SUPERVISION OF:

Glenn Broughton, P.E. 5/7/04
Date

TABLE OF CONTENTS

FIGURES

APPENDICES

EXHIBITS

Table of Contents

I. INTRODUCTION

The purpose of this report is to provide a Drainage Management Plan for the proposed development of an intermodal transportation center, to be known as the Alvarado Transportation Center Phase II. The site is legally described as Tract A-1 Alvarado Transportation Center.

II. PURPOSE

This report and the final grading plan are submitted for Hydrology Division review in order to support building permit approval. No variances are requested with this submittal.

III. METHODOLOGIES AND REFERENCES

This report is prepared in accordance with DPM criteria; specifically, the procedure outlined in DPM Section 22.2.A for zone 2 was used. No AHYMO analysis was done for this site.

IV. SITE LOCATION AND CHARACTERISTICS

The proposed Alvarado Transportation Center is located downtown, between Silver Ave. and Coal Ave., and between First St and the railroad tracks. This is the second phase of the Albuquerque Intermodal Center and is located within City of Albuquerque Zone Atlas Map No. K-14. Please see the Vicinity Map, Figure 1 for exact location.

The site is rather flat, lacking vegetation, and well compacted by human activity. The site has most recently been used as a pay-for-use parking lot.

V. EXISTING CONDITIONS

The site as described above, behaves as an essentially developed site with a high degree of imperviousness and soil compaction. The existing basin has been identified on the enclosed Existing Basins and Existing Topography Map (Plate 2). The existing conditions dictate that the site acts as a single basin sloping from the railroad tracts from the East to West at approximately

0.7% slope. Basin A, approximately 4.21 acres, drains approximately 13.6 cfs to First Street in the 100-year storm event.

Once flows reach the First Street, they are collected by existing inlets and street gutters and carried away from the site. First Street flows south at an extremely flat slope of approximately 0.2%.

VI. PROPOSED CONDITIONS

The Alvarado Transportation Center proposes to construct a Greyhound Bus terminal and maintenance facility on the project site.

This Grading & Drainage Plan proposes for free discharge of developed flows to First Street and its existing storm drain system.

Due to the flat slopes on the site, a private on-site drainage system is necessary. The storm drain system will collect flow from the surface and roof drains carrying it via three underground pipes to an existing storm drain in First Street. An inlet in Basin 1 intercepts 0.42 cfs from the existing Curio building and new arcade. This inlet is connecting to a new Type 'A' with an 8" storm drain. This inlet will be constructed with a public work order and site demolition project. One on-site inlet (Basin 2) and one 6" roof drain (Basin 4) convey a total of 1.4 cfs of storm water via 12" storm drain into a manhole in Basin 3. Three 6" roof drains (Basins 5, 7, 8) collect a total of 1.43 cfs and convey the flow via an 8" storm drain and connects downstream of the same manhole located in Basin 3. Water harvesting manholes are proposed within the plaza. The volume of storm water that is captured within these manholes is nominal and not included in the calculations. An 18" storm drain carries a total of 2.83 cfs off the site into a new manhole in First Street that will be constructed with the public work order mentioned previously. Basin 10 drains into an inlet and conveys 1.59 cfs via a 12" storm drain to a storm drain manhole in basin 11. A total of 2.28 cfs from Basin 11 is collected by an inlet and conveyed via a 12" storm drain to a storm drain manhole in Basin 11. An inlet in Basin 16 collects 1.62 cfs and conveys these flows to another inlet in basin 13 where it is joined by flows from Basin 15 (0.64 cfs). Surface flows totaling 2.88 cfs from basin 13 is collected in an inlet in the parking lot and are conveyed via an 18" storm drain to the manhole

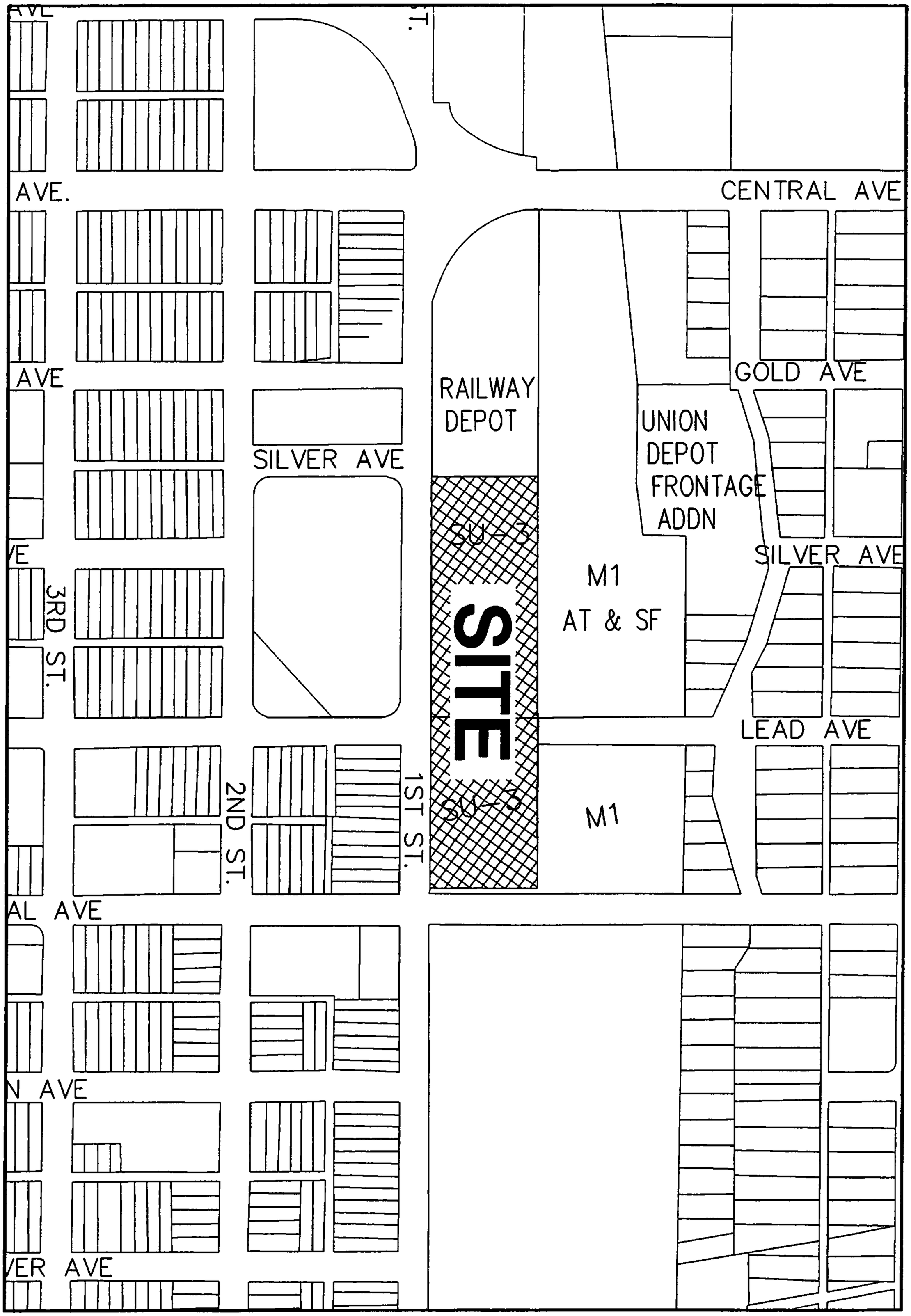
in basin 11. These four inlets (collecting runoff from Basins 10, 11, 13, 15, and 16) and one roof drain (Basin 15) tie into an 18" storm drain conveying a total of 9.02 cfs to a second manhole in First Street, which will also be constructed with the public work order project referenced above. A total of 5.30 cfs from all other basins (3, 6, 9, 12, 14 and 17) will drain into First Street and be collected by existing inlets in First Street. All on-site storm drainage systems have been designed to current hydrology and hydraulic standards to carry flows generated by the 100-year storm. All hydrologic and hydraulic calculations are provided in the appendix.

Should the downstream drainage systems preclude acceptance of the peak developed flows, finished floors of the buildings are set above the overflow points on the site. In that case, discharge from the site will overflow through the proposed entry drives to First Street prior to reaching finished floor elevations of buildings and critical pedestrian facilities.

Please see the Proposed Conditions Basin Map, Plate 3.

VII. CONCLUSION

This report has given a comprehensive drainage management plan for the proposed development that complies with previously approved conceptual plan, and the DPM. It is recommended that with this submittal, hydrology approval be granted for building permit.



VICINITY MAP
ZONE ATLAS MAP NO. K-14-Z

APPENDICES

APPENDIX 1 – EXISTING & PROPOSED CONDITION HYDROLOGIC CALCULATIONS

APPENDIX 2 - PROPOSED CONDITION HYDRAULIC CALCULATIONS

APPENDIX 1

EXISTING & PROPOSED CONDITION HYDROLOGIC CALCULATIONS

ALVARADO TRANSPORTATION CENTER

Existing Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone 2 Rainfall

BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100) (cfs/ac.)	Q(100) (CFS)
A	183318	4.21	0.0%	0.0%	93.9%	6.1%	3.24	*13.62*
Totals	183318	4.21					3.24	*13.62*

ALVARADO TRANSPORTATION CENTER

Proposed Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone 2 Rainfall

BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100) (cfs/ac.)	Q(100) (CFS)
1	4263	0.10	0.0%	0.0%	24.6%	75.4%	4.32	*0.42*
2	10287	0.24	0.0%	29.2%	24.6%	46.2%	3.61	*0.85*
3	12768	0.29	0.0%	0.0%	21.8%	78.2%	4.36	*1.28*
4	5062	0.12	0.0%	0.0%	0.0%	100.0%	4.70	*0.55*
5	4111	0.09	0.0%	0.0%	0.0%	100.0%	4.70	*0.44*
6	12768	0.29	0.0%	0.0%	54.6%	45.4%	3.85	*1.13*
7	4111	0.09	0.0%	0.0%	0.0%	100.0%	4.70	*0.44*
8	5083	0.12	0.0%	0.0%	0.0%	100.0%	4.70	*0.55*
9	8634	0.20	0.0%	6.8%	9.2%	84.0%	4.39	*0.87*
10	19973	0.46	0.0%	1.6%	76.5%	21.9%	3.47	*1.59*
11	21156	0.49	0.0%	0.0%	0.0%	100.0%	4.70	*2.28*
12	8019	0.18	0.0%	4.4%	59.4%	36.1%	3.67	*0.67*
13	27881	0.64	0.0%	0.4%	12.7%	86.9%	4.49	*2.88*
14	5861	0.13	0.0%	0.0%	100.0%	0.0%	3.14	*0.42*
15	6216	0.14	0.0%	0.0%	12.1%	87.9%	4.51	*0.64*
16	15251	0.35	0.0%	0.0%	4.2%	95.8%	4.64	*1.62*
17	11874	0.27	0.0%	0.0%	83.1%	16.9%	3.40	*0.93*
Totals	183318	4.21					4.20	*17.57*

APPENDIX 2

PROPOSED CONDITION HYDRAULIC CALCULATIONS

ANALYSIS PT	PIPE #	Size in.	Slope	Capacity[1] cfs	ACTUAL FLOW[2] cfs	PIPE LENGTH	START IN	END OUT
C1.1	P1	6	13.65%	2.07	0.55	21.00	*52.50*	49.63
C2	P2	12	1.64%	4.56	1.40	112.50	50.95	49.11
C3	P3	18	0.52%	7.57	2.83	106.40	49.11	48.56
C4	P4	12	0.58%	2.71	1.44	79.00	53.00	52.42
C4.1	P5	6	3.88%	1.11	0.44	25.00	53.50	52.53
C4.2	P6	6	3.38%	1.03	0.44	25.00	53.50	52.65
C4.3	P7	6	2.00%	0.79	0.55	25.00	53.50	53.00
C4.4	P8	12	1.97%	5.00	1.44	75.00	52.42	50.94
C4.5	P9	8	0.73%	1.03	0.36	32.00	51.35	51.12
C4.6	P10	8	0.73%	1.03	0.36	32.00	51.35	51.12
C4.7	P11	8	1.37%	1.42	0.36	32.00	50.94	50.50
C4.8	P12	8	0.94%	1.17	0.36	32.00	50.94	50.64
C4.9	P13	8	48.40%	8.41	1.44	5.00	51.00	48.58
C5	P14	10	1.42%	2.61	1.59	91.00	49.58	48.29
C6	P15	12	2.47%	5.60	2.28	51.00	49.55	48.29
C7	P17	18	2.16%	15.44	9.02	97.00	47.50	45.40
C8	P16	8	2.04%	1.73	0.64	57.00	49.96	48.80
C10	P18	12	0.90%	3.38	1.62	188.00	50.50	48.80
C11	P19	18	0.90%	9.97	5.14	144.00	48.80	47.50
C12	P20	8	4.00%	2.42	0.42	18.00	50.30	49.98

NOTE

1 Max RCP flow (non-pressure, Full pipe), Table assumes Manning's N=0.013

2 All onsite storm Drains operate under gravity flow (see Proposed Conditions Basin Map for pipe flow lines)

EXHIBITS

PLATE 1 – FINAL DRAINAGE / GRADING PLANS

PLATE 2 – EXISTING CONDITIONS BASIN MAPS

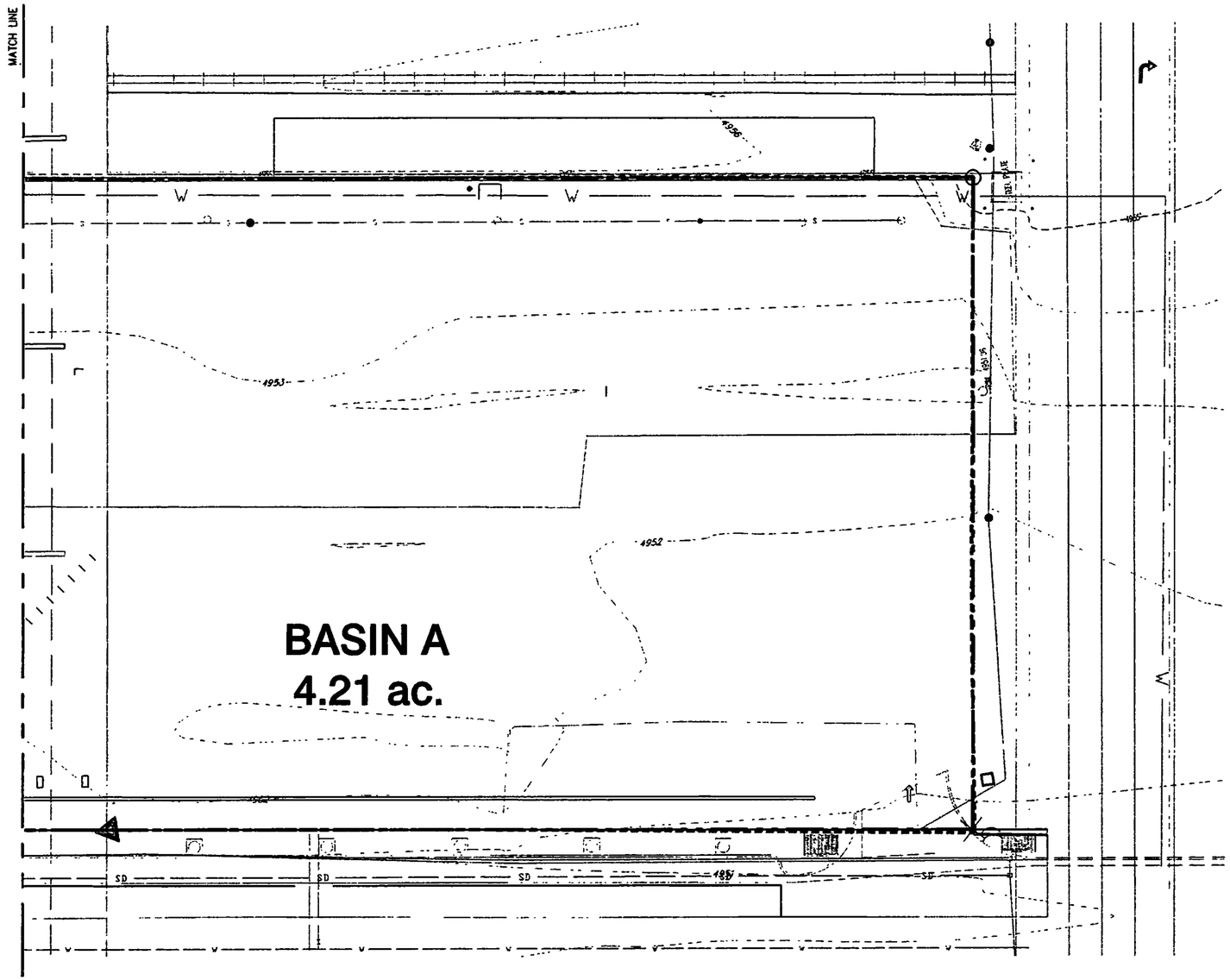
PLATE 3 – PROPOSED CONDITIONS BASIN MAPS

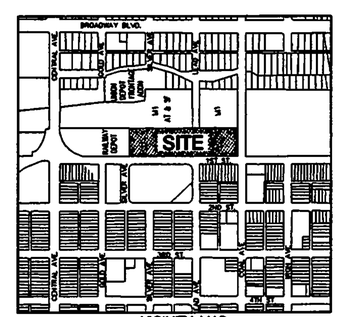
PLATE 1

FINAL DRAINAGE / GRADING PLAN

PLATE 2

EXISTING CONDITIONS BASIN MAP





VICINITY MAP
ZONE ATLAS MAP NO. K-14-Z

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

Dekker/Perich/Sabatini
architecture • interiors • planning • engineering
6801 Jefferson NE, Suite 100 Albuquerque, NM 87109
505 761-9700 fax 761-4222

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	CSB	DATE 4/27/04
DRAWN BY	KJW	DATE 4/27/04
CHECKED BY	BJS	DATE 4/27/04

ENGINEER'S SEAL

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

ACS STATION "3-K 14", ELEVATION=4950.564'
STANDARD CITY OF ALBUQUERQUE DISK SET IN A DRILLED HOLE IN THE SIDEWALK. LOCATED DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF 3RD ST & LEAD AVE, IN THE NE QUADRANT OF THIS INTERSECTION. STA. IS 7.0' EAST OF THE BACK OF CURB ON 3RD ST. & 9.0' NORTH OF THE BACK OF CURB ON LEAD AVE. GROUND COORDINATES X=380,362.8298 Y=1,485,812.1128

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S FIELD CHANGES BY		
VERIFICATION OF WORK BY		
CORRECTED BY		

MICRO-FILM INFORMATION

		DATE
RECORDED BY		
NO.		

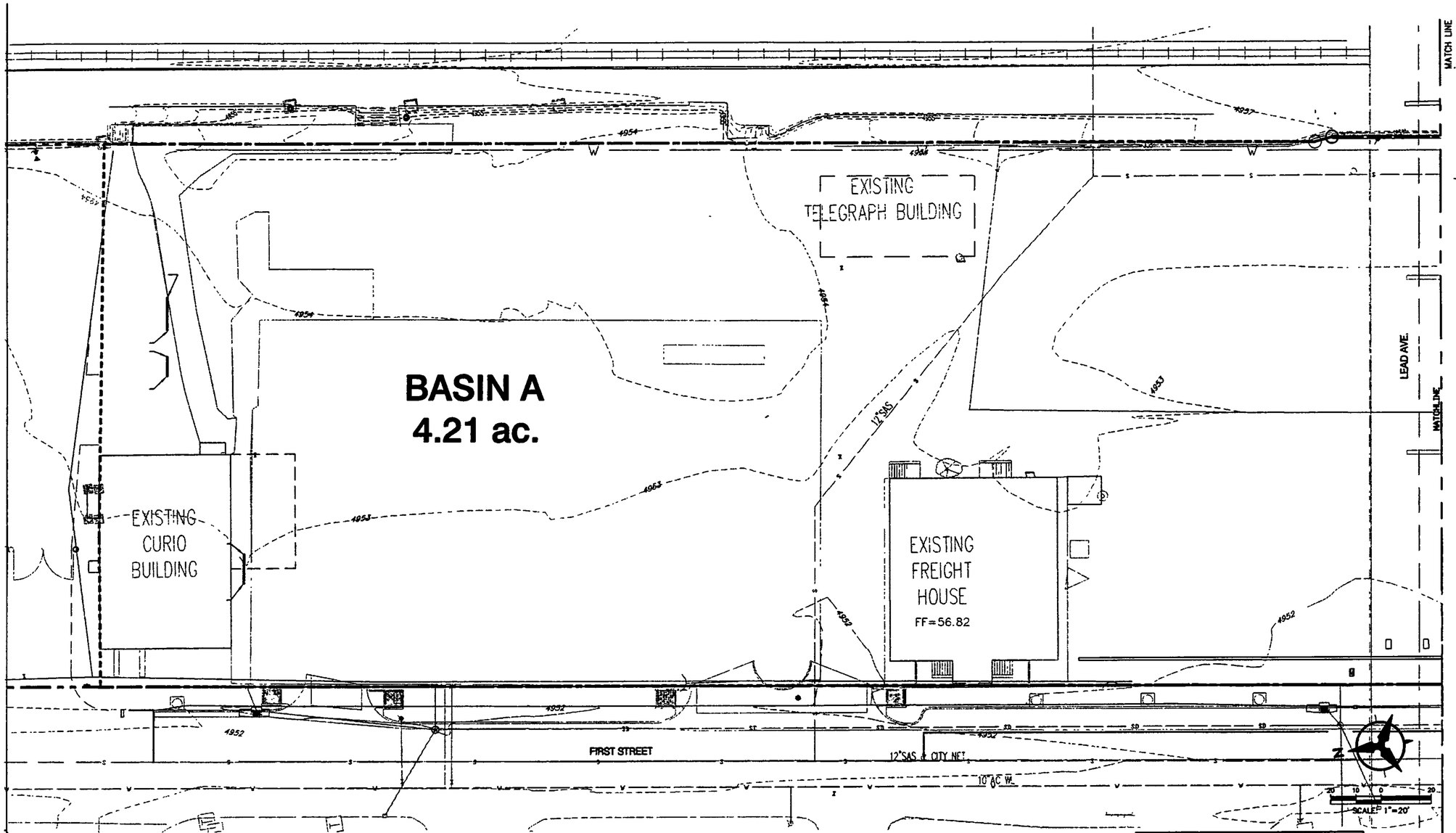
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ALVARADO TRANSPORTATION CENTER-PHASE II:DEPOT/MAINT. BLDGS.
EXISTING CONDITIONS BASIN MAPS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

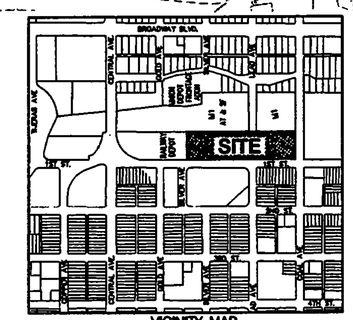
City Project No		Zone Map No.	Sheet
5842.94	C102	K-14-Z	OF

P:\020185\cdp\hydro\020185DMP.dwg



LEGEND

- PROPERTY LINE
- 5301 EXISTING CONTOURS
- X 5301.15 EX. GROUND SPOT ELEVATION
- EXISTING ELECTRICAL POLE
- EASEMENT
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING INLET
- EXISTING EASEMENT



VICINITY MAP
ZONE ATLAS MAP NO. K-14-Z

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

Dekker/Perich/Sabatini
architecture • interiors • planning • engineering
6801 Jefferson NE, Suite 100 Albuquerque, NM 87109
505 761-9700 fax 761-4222

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		
FIELD VERIFICATION BY		
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

		DATE
RECORDED BY		
NO.		

BENCH MARKS

ACS STATION "3-K 14", ELEVATION=4950.564'
STANDARD CITY OF ALBUQUERQUE DISK SET IN A DRILLED HOLE IN THE SIDEWALK, LOCATED DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF 3RD ST & LEAD AVE, IN THE NE QUADRANT OF THIS INTERSECTION, STA. IS 7.0' EAST OF THE BACK OF CURB ON 3RD ST. & 9.0' NORTH OF THE BACK OF CURB ON LEAD AVE. GROUND COORDINATES X=350,362.8298 Y=1,485,612.1128

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	CSB	4/27/04
DRAWN BY	KJW	4/27/04
CHECKED BY	BJS	4/27/04

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ALVARADO TRANSPORTATION CENTER-PHASE II:DEPOT/MAINT. BLDGS.
EXISTING CONDITIONS BASIN MAPS

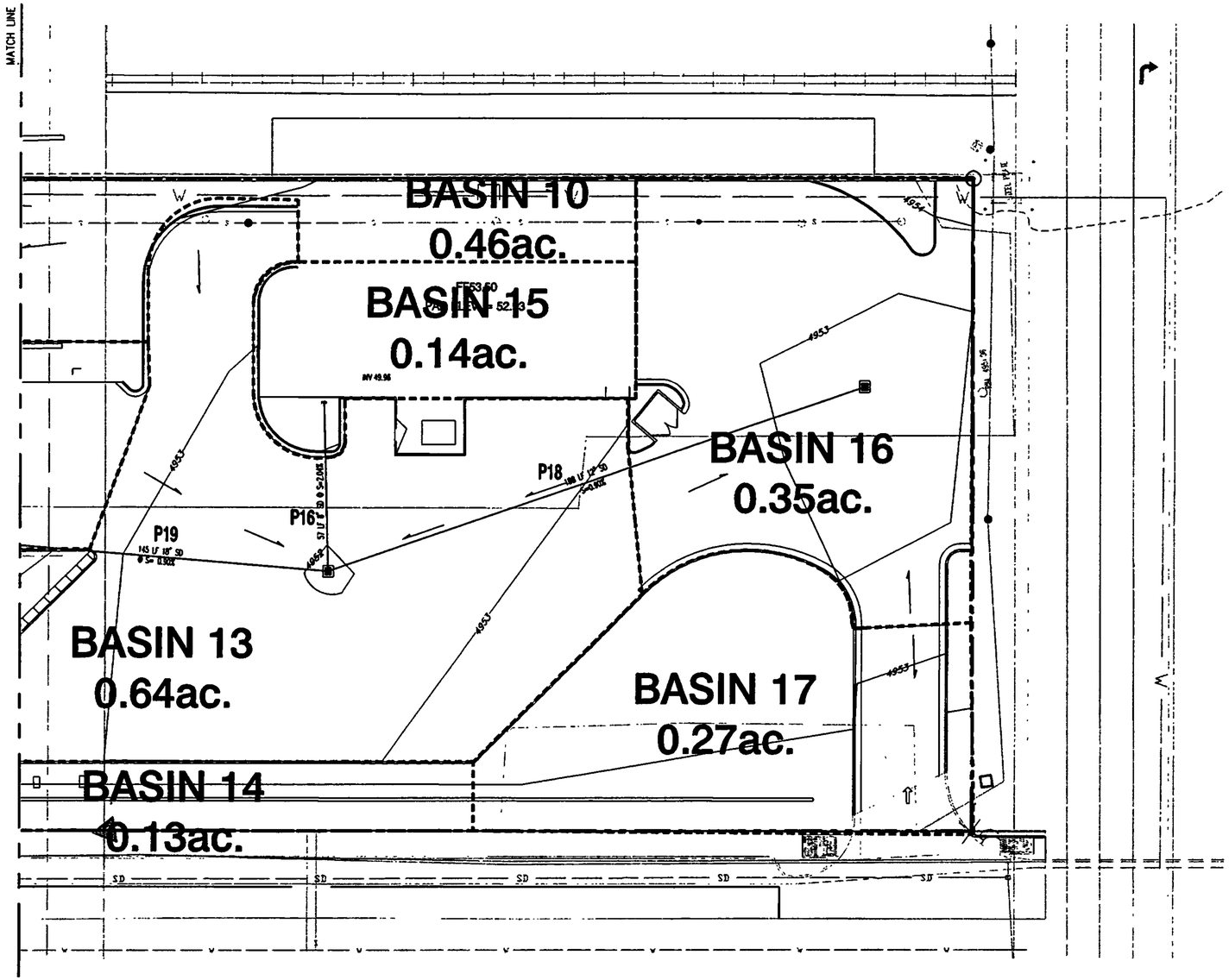
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr	Mo./Day/Yr

City Project No		Zone Map No	Sheet
5842.94	C101	K-14-Z	OF

P:\020185\cdp\hydro\020185DMP.dwg

PLATE 3

PROPOSED CONDITIONS BASIN MAP



LEGEND

- PROPERTY LINE
- 5301 — EXISTING CONTOURS
- 5301.15 — EX. GROUND SPOT ELEVATION
- EXISTING ELECTRICAL POLE
- 65.23 — PROPOSED SPOT ELEVATION
  TC=TOP OF CURB, FL=FLOW LINE
  FGH=FINISHED GRADE @ HIGH SIDE OF WALL
  FGL=FINISHED GRADE @ LOW SIDE OF WALL
  EX=EXISTING, TG=TOP OF GRATE
  TS=TOP OF SIDEWALK
- S=2.0% — PROPOSED DIRECTION OF FLOW
- WATER BLOCK
- PROPOSED RETAINING WALL
- PROPOSED CURB & GUTTER
- EASEMENT
- EXISTING SANITARY MANHOLE
- PROPOSED LIGHTING
- SD — PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- EXISTING STORM DRAIN MANHOLE
- EXISTING INLET
- EXISTING EASEMENT

Dekker/Perich/Sabatini
architecture • interiors • planning • engineering
5801 Jefferson NE, Suite 100
Albuquerque, NM 87109
505 761-9700
fax 761-4222

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4385
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S FIELD CHANGE BY	DATE
VERIFICATION OF AS BUILTS BY	DATE
CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS STATION "3-K 14", ELEVATION=4950.564'
STANDARD CITY OF ALBUQUERQUE DISK SET IN A DRILLED HOLE IN THE SIDEWALK. LOCATED DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF 3RD ST & LEAD AVE, IN THE NE QUADRANT OF THIS INTERSECTION. STA. 15 7.0' EAST OF THE BACK OF CURB ON 3RD ST. & 9.0' NORTH OF THE BACK OF CURB ON LEAD AVE. GROUND COORDINATES X=380,362.8298 Y=1,485,612.1128

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

		DATE
DESIGNED BY	GSB	4/27/04
DRAWN BY	KJW	4/27/04
CHECKED BY	BJS	4/27/04

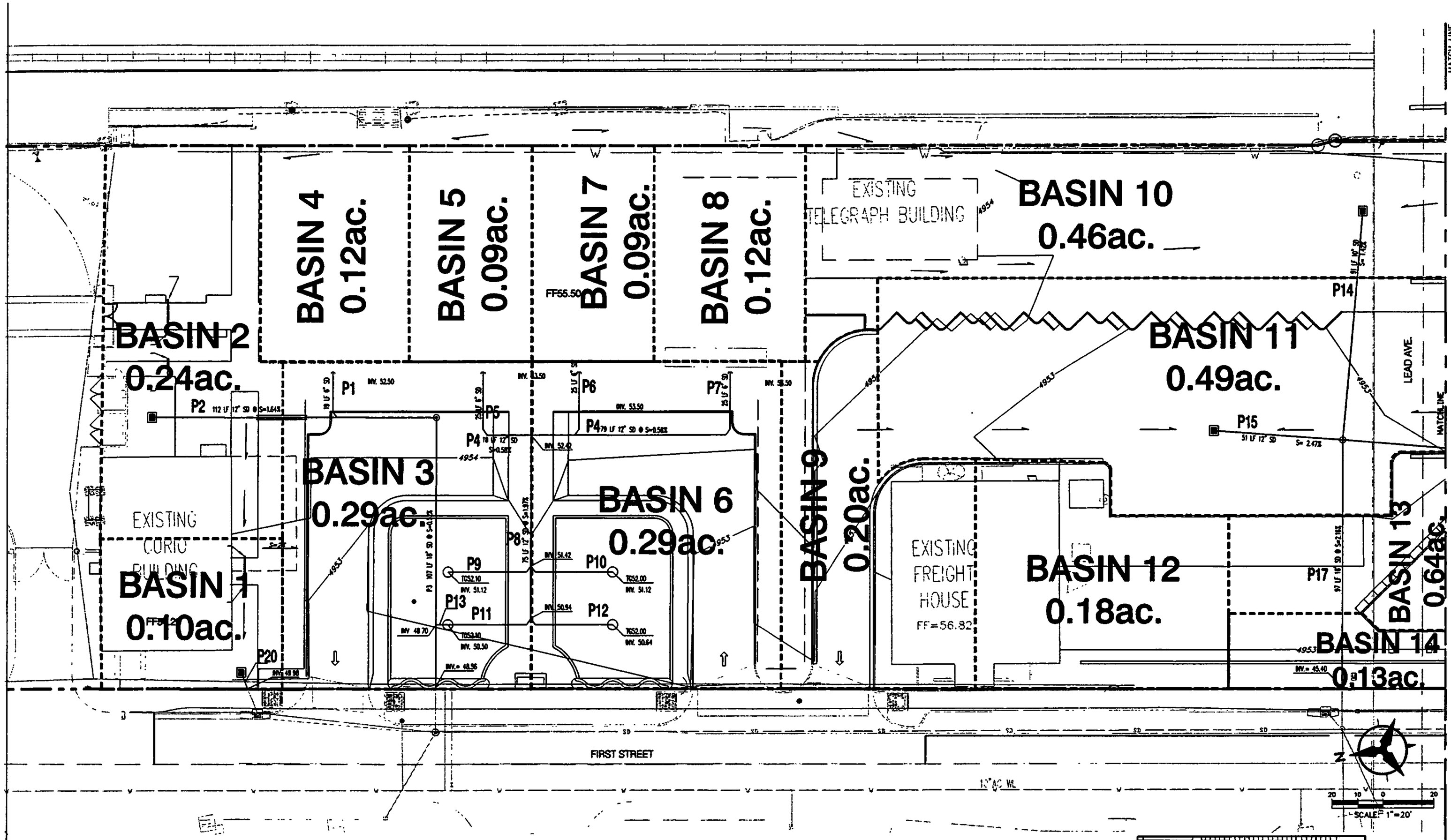
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ALVARADO TRANSPORTATION CENTER-PHASE II: DEPOT/MAINT. BLDGS.
PROPOSED CONDITIONS BASIN MAPS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr | Mo./Day/Yr

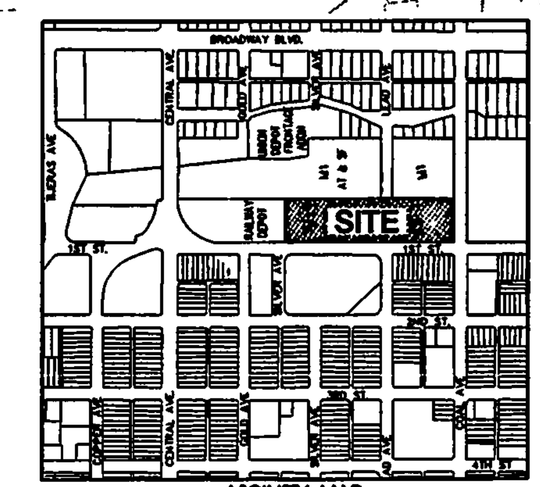
City Project No		Zone Map No.	Sheet
5842.94	C102	K-14-Z	OF

P:\020185\cdp\hydro\020185CMP.dwg



LEGEND

- PROPERTY LINE
- 5301 EXISTING CONTOURS
- 5301.15 EX. GROUND SPOT ELEVATION
- EXISTING ELECTRICAL POLE
- 65.23 PROPOSED SPOT ELEVATION
  TC=TOP OF CURB, FL=FLOW LINE
  FGH=FINISHED GRADE @ HIGH SIDE OF WALL
  FGL=FINISHED GRADE @ LOW SIDE OF WALL
  EX=EXISTING, TG=TOP OF GRATE
  TS=TOP OF SIDEWALK
- S=2.0% PROPOSED DIRECTION OF FLOW
- WATER BLOCK
- PROPOSED RETAINING WALL
- PROPOSED CURB & GUTTER
- EASEMENT
- EXISTING SANITARY MANHOLE
- PROPOSED LIGHTING
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- EXISTING STORM DRAIN MANHOLE
- EXISTING INLET
- EXISTING EASEMENT



VICINITY MAP
ZONE ATLAS MAP NO. K-14-Z

Bohannan ▲ Huston INC
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

Dekker/Perich/Sabatini
architecture • interiors • planning • engineering
6801 Jefferson NE, Suite 100 Albuquerque, NM 87109
505 761-9700 fax 761-9222

AS BUILT INFORMATION
CONTRACTOR DATE
WORK STAKED BY DATE
INSPECTOR'S FIELD CHANGE BY DATE
VERIFICATION OF FIELD CHANGES BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS STATION "3-K 14", ELEVATION=4950.584'
STANDARD CITY OF ALBUQUERQUE DISK SET IN A DRILLED HOLE IN THE SIDEWALK. LOCATED DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF 3RD ST & LEAD AVE, IN THE NE QUADRANT OF THIS INTERSECTION. STA. IS 7.0' EAST OF THE BACK OF CURB ON 3RD ST. & 9.0' NORTH OF THE BACK OF CURB ON LEAD AVE. GROUND COORDINATES X=380,362.8298 Y=1,485,612.1128

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY CSB DATE 4/27/04
DRAWN BY K.JW DATE 4/27/04
CHECKED BY BJS DATE 4/27/04

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ALVARADO TRANSPORTATION CENTER-PHASE II DEPOT/MAINT. BLDGS.
PROPOSED CONDITIONS BASIN MAPS

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr | Mo./Day/Yr

City Project No 5842.94 | C101 | Zone Map No K-14-Z | Sheet OF

P:\020185\cdp\hydro\020185DMP.dwg

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

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Public Works Department
Transportation Development Services Section

August 5, 2002

Steven J. Perich, Registered Architect
6801 Jefferson N.E.
Albuquerque, NM 87109

Re: Certification Submittal for Final Building Certificate of Occupancy for
Alvarado Transportation Center, [K-14 / D067]
100 First St. S.W.
Architect's Stamp Dated 05/15/02

Dear Mr. Perich:

The TCL / Letter of Certification submitted on August 5, 2002 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to Building and Safety and final C.O. has been logged in by Vicki Chavez in the Building Safety Section downstairs.
For future reference please fully complete the Drainage and Transportation Information Sheet and making sure individuals submitting the Certification for your office have a copy of the D & T Info Sheet or that they have the information to fully complete the sheet in their possession.

Sincerely,

Mike Zamora, Commercial Plan Checker
Development and Building Services
Planning Department

c: Engineer
Hydrology file
Mike Zamora

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/11/2002)

PROJECT TITLE: Alvarado Transportation Ctr. ZONE MAP/DRG. FILE #: K14 / D067
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Alvarado Transp. Ctr., Tr. A1
CITY ADDRESS: 100 First St. S.W.

ENGINEERING FIRM: Bohannan Huston
ADDRESS: 7500 Jefferson NE
CITY, STATE: _____
CONTACT: Bruce Stidworthy
PHONE: _____
ZIP CODE: 87109

OWNER: City of Albuq. - Transit Dept
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: Dekker, Perich & Sabatini
ADDRESS: 6801 Jefferson NE
CITY, STATE: City
CONTACT: Steven J. Perich
PHONE: _____
ZIP CODE: 87109

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT (TCL)
- X ENGINEERS CERTIFICATION (TCL)
- ____ ENGINEERS 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
- ____ BUILDING PERMIT APPROVAL
- X 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
- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED AUG 05 2002 HYDROLOGY SECTION

DATE SUBMITTED: Aug. 5, 2002 BY: Lucie Ortiz (M. Zamora)

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature , location and scope ot 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
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5)
3. **Drainage Report**: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

8/9/02 - Called GT to Vicki; 8/14 - Sent letter (Dated Aug 5, 02): V. Cogordan

Dekker/Perich/Sabatini
architecture
interiors
planning
engineering

October 26, 2001

Project: **Alvarado Transportation Center**
Project No: DPS: 95014.300
COA: 5842.92

Mike Zamora
Traffic Department
Building & Safety Division
600 2nd Street NW
Albuquerque, NM 87102

RE: **Request for Full Certificate of Occupancy**

Alvarado Transportation Center
100 First Street SW

We are hereby requesting a Full Certificate of Occupancy for the above reference project. At this time all site and vehicular circulation work is complete per the attached site plan.

The attached site plan is not the original site plan as approved by the DRC. This is due to a major change that occurred during construction, wherein the location of First Street within the right-of-way was moved approximately 10' closer to the Transportation Center. This change was made by others outside this contract for construction. At that time a change order proposal was issued to the Contractor for the Transportation Center and a Change Order issued for the change. The site plan attached is the one issued with that Change Order.

Steven J Perich
Dekker/Perich/Sabatini

5/15/02
Date

STATE OF NEW MEXICO
STEVEN J. PERICH
No. 2225
5/15/02
REGISTERED ARCHITECT

Attachments: Sheet C1.1 - Site Plan

Cc: Bruce Rizzieri – COA Transit
Peter Chang – PWD
Dan Kemme – DPS
Bill Jenkins – DPS
Tom Sjoholm – Telstar
Ron Ashlock - RJT

S:\95014.01\ca\correspondence\L011026_Traffic Cert #2 doc

RECEIVED
AUG 05 2002
HYDROLOGY SECTION

② Call Vicki
① Need to log in, stop

6801 Jefferson NE
Suite 100
Albuquerque NM
87109
505 761.9700
fax 761.4222
dps@dpsabq.com

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Public Works Department
Transportation Development Services Section

October 22, 2001

K-14/D67

Steven J. Perich, Registered Architect,
Dekker, Perich, Sabatini, Architects
6801 Jefferson N.E.
Albuquerque, N.M 87109

Re: Certification submittal for final building Certificate of Occupancy for
Alvarado Transportation Center, [DRB No. XXXXX]
100 First Street S.W.,
Architect's Stamp dated 10/08/2001.

Dear Mr. Perich,

The Letter of Certification submitted is not sufficient for acceptance by this office for Final Certificate of Occupancy(C.O.). Procedure calls for submittal of a stamped, approved Traffic Circulation Layout (TCL) or approved DRB Site Plan along with every letter of certification.

The TCL (or DRB Plan) submitted for Final C.O. needs to be the *exact* copy of the approved TCL in the planset approved for the building permit. This will be the *latest*, *most current* edition, which will have all approved, red-lined comments, initialled and dated by the designer-of-record.

Projects eligible for Final Certificate of Occupancy must be 100% complete in circulation areas of site, including all concrete, asphalt and H.C. parking. This particular site is incomplete as regarding pavement of main roadway leading from Central Ave. It should be clear to this office what time period will be involved for installation of pavement surface course and barricading for pedestrian safety will need to be placed. A layout plan of this barricading is needed when the information regarding time frame is submitted.

All routes of vehicular traffic and pedestrian circulation shown on approved plan must be complete and cleared of all materials and debris. Also, for this site to be "finalled" the barricade in this roadway, at Central, must be removed and entrance here must be complete, per plan.

Any changes made on site, not shown on approved TCL, must be shown in red ink on the TCL required.

A 30-day Temporary C.O. can be issued, however, a copy of the approved TCL/DRB Plan, highlighting the areas of not yet completed. Submit with letter requesting 30-day temp

Sincerely,

Mike Zamora,
Commercial Plan Checker

cc:
Engineer
Terri Martin
Office File

October 26, 2001

Dekker/Perich/Sabatini
architecture
interiors
planning
engineering

Project: **Alvarado Transportation Center**
Project No: DPS: 95014.300
COA: 5842.92

Mike Zamora
Traffic Department
Building & Safety Division
600 2nd Street NW
Albuquerque, NM 87102

RE: **Request for Temporary Certificate of Occupancy**

Alvarado Transportation Center
100 First Street SW

We are hereby requesting a Temporary Certificate of Occupancy for the above reference project. The duration of the Certificate requested is 60 days. At this time there are a few areas of the site vehicular circulation improvements that are not complete. These areas are itemized here based upon information from the General Contractor, and indicated on the attached site plan.

1. A small portion of the curb at the southeast corner of the site (due to be completed by October 29, 2001).
2. The curb and handicap ramp at the northeast corner of the Sun Van drop-off island (due to be completed by October 29, 2001).
3. The northern curb of the south bus drive (due to be completed by October 29, 2001).
4. The curb and handicap ramp at First Street and the south bus drive (cue to be completed by October 29, 2001).
5. The traffic signage will be completed by October 29, 2001.
6. The pavement striping and lane markings within the site will be completed by November 29, 2001.

These incomplete areas will be barricaded for safety by the General Contractor as required by OSHA until construction is completed. Additionally, the two existing bus drive gates are operational and kept locked during non-construction hours. Transit has assured us that buses will not utilize the site bus drive path until the above construction is complete.

The attached site plan is not the original site plan as approved by the DRC. This is due to a major change that occurred during construction, wherein the location of First Street within the right-of-way was moved approximately 10' closer to the Transportation Center. This change was made by others outside this contract for construction. At that time a change order proposal was issued to the Contractor for the Transportation Center and a Change Order issued for the change. The site plan attached is the one issued with that Change Order.

Steven J Perich
Dekker/Perich/Sabatini

10/26/01
Date

STATE OF NEW MEXICO
STEVEN J.
PERICH
No. 2225
10/26/01
REGISTERED ARCHITECT

Attachments: None

Cc: Bruce Rizzieri – COA Transit
Dave Cates – PWD
Dan Kemme – DPS
Bill Jenkins – DPS
Tom Sjoholm – Telstar

10/26/01 - Called in GOT
- Sent letter

S:\95014 01\ca\correspondence\L011026_Traffic Cert #2 doc

6801 Jefferson NE
Suite 100
Albuquerque NM
87109
505 761.9700
fax 761.4222
dps@dpsabq.com

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ALVARADO TRANSPORTATION CENTER ZONE MAP/DRG. FILE #: _____
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: 100 1ST STREET

ENGINEERING FIRM: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

OWNER: CITY OF ALBUQUERQUE CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: DEKKER PERICH SABATINI CONTACT: BILL JENKINS
ADDRESS: 6801 JEFFERSON NE SUITE 100 PHONE: 761-9700
CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87109

SURVEYOR: _____ CONTACT: _____
ADDRESS _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: TELSTAR CONSTRUCTION CONTACT: CLAYTON HATSCH
ADDRESS: 8701 WASHINGTON PHONE: 821-5600
CITY, STATE: ALBUQUERQUE NM ZIP CODE: 87114

CHECK TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION
- ____ CLOMR/LOMR
- ✓ TRAFFIC CIRCULATION LAYOUT (TCL) PRELIMINARY
- ____ OTHER

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

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
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ✓ OTHER (SPECIFY) 30 DAY TEMPORARY C.O.

DATE SUBMITTED: _____ BY _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature , location and scope ot 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.

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Public Works Department
Transportation Development Services Section

October 22, 2001

Steven J. Perich, Registered Architect,
Dekker, Perich, Sabatini, Architects
6801 Jefferson N.E.
Albuquerque, N.M 87109

Re: Certification submittal for final building Certificate of Occupancy for
Alvarado Transportation Center, [DRB No. XXXXX]
100 First Street S.W.,
Architect's Stamp dated 10/08/2001.

K-14/D67

Dear Mr. Perich,

The Letter of Certification submitted is not sufficient for acceptance by this office for Final Certificate of Occupancy(C.O.). Procedure calls for submittal of a stamped, approved Traffic Circulation Layout (TCL) or approved DRB Site Plan along with every letter of certification.

The TCL (or DRB Plan) submitted for Final C.O. needs to be the *exact* copy of the approved TCL in the planset approved for the building permit. This will be the *latest*, *most current* edition, which will have all approved, red-lined comments, initialled and dated by the designer-of-record.

Projects eligible for Final Certificate of Occupancy must be 100% complete in circulation areas of site, including all concrete, asphalt and H.C. parking. This particular site is incomplete as regarding pavement of main roadway leading from Central Ave. It should be clear to this office what time period will be involved for installation of pavement surface course and barricading for pedestrian safety will need to be placed. A layout plan of this barricading is needed when the information regarding time frame is submitted.

All routes of vehicular traffic and pedestrian circulation shown on approved plan must be complete and cleared of all materials and debris. Also, for this site to be "finalled" the barricade in this roadway, at Central, must be removed and entrance here must be complete, per plan.

Any changes made on site, not shown on approved TCL, must be shown in red ink on the TCL required.

A 30-day Temporary C.O. can be issued, however, a copy of the approved TCL/DRB Plan, highlighting the areas of not yet completed. Submit with letter requesting 30-day temp

Sincerely,

Mike Zamora,
Commercial Plan Checker

cc:
Engineer
Terri Martin
Office File

Dekker/Perich/Sabatini
architecture
interiors
planning
engineering

October 8, 2001

Project: **Alvarado Transportation Center**
Project No: DPS: 94027
COA: 5842.92

Mike Zamora
Traffic Department
Building & Safety Division
600 2nd Street NW
Albuquerque, NM 87102

RE: **ARCHITECTS CERTIFICATION**

Alvarado Transportation Center
100 First Street SW

I, Steven J Perich, licensed under the laws of the State of New Mexico, do hereby certify that this project was constructed in substantial compliance with the approved Permit Drawings for the Alvarado Transportation Center.

Steven J Perich
Dekker/Perich/Sabatini

10/8/01
Date

STATE OF NEW MEXICO
STEVEN J. PERICH
No. 2225
10/8/01
REGISTERED ARCHITECT

Attachments: None

Cc: Bruce Rizzieri – COA Transit
Dave Cates – PWD
Dan Kemme – DPS
Bill Jenkins – DPS
Tom Shejolm – Telstar

S \95014 01\ca\correspondence\L010627_NTP_PR #039.doc

10/10/01 – No C.O. Site Not Clean, Letter Needed stating
10/16/01 – Arrived Date. No Warning Shown for 30 day temp. according to Tony Loyd.
10/ /01 – Sent Letter Rejecting Cert., Not Complete As Stated

6801 Jefferson NE
Suite 100
Albuquerque NM
87109
505 761.9700
fax 761.4222
dps@dpsabq com

Transmittal

Alvarado Transportation Center

Project No.: 95014

Date: October 8, 2001

From: Bill Jenkins

☐ To: **Telstar Construction**
8601 Washington, NE, Suite A
Albuquerque, NM 87113
Attn: Tom Sjoholm
Michelle Moran
Hal Burwinkle
Clayton Katsch
Tel: 821-5600
Fax: **821-0677**
Site Trailer
Attn. Phil Dix
Tel 848-9136
Fax: **848-9146**

☐ To: **C of A Transit Dept.**
601 Yale Blvd., SE
Albuquerque, NM 87106
Attn: Bruce Rizzieri
Tel. 764-6123
Fax: **764-6146**

☐ To: **Const. Management Division**
P.O. Box 1293
Albuquerque, NM 87103
Attn: Dave Cates
Ron Rutledge
Tel: 768-2519
Fax: **768-2502**

☐ To: **Bohannon Huston**
Courtyard One 7500 Jefferson, NE
Albuquerque, NM 87109
Attn: Bruce Stidworthy
Attn: Andrew Gallegos
Attn: Richard Bangor
Tel: 823-1000
Fax: **821-0892**

☐ To: **Chavez/Grieves Engineers**
5639 Jefferson St. NE
Albuquerque, NM 8710
Attn: Bill Griffith
Tel: 344-4080
Fax: **343-8759**

☐ To: **Telcon Engineers**
4800 Juan Tabo Blvd. NE Ste A
Albuquerque, NM 87111
Attn: Donald Gallegos
Iven Archuleta
Tel: 292-3202
Fax: **292-3904**

☐ To: **Sites Southwest**
5150 A San Fransisco, NE
Albuquerque, NM 87109
Attn: Patrick Gay
Tel: 822-8200
Fax: **822-8282**

☐ To: **4 Seasons**
4320 Paseo Del Norte NE
Albuquerque, NM 87113
Attn: Chuck Morga
798-0103/**Fax: 798-0102**

SENT VIA:

☐ First Class Mail ☐ Fax
☐ UPS ☐ Hard copy will be mailed
☐ Federal Express ☒ Messenger/Courier
☐ Pony Express ☐ Other /Pick-up/Hand Delivered

THIS TRANSMITTAL IS BEING SENT:

☐ For Your Use ☐
☐ As Requested ☐
☐ Review and Comment ☐

THIS TRANSMITTAL INCLUDES:

Copies /Pages	Date	Description
1c/1p	10/08/01	D/P/S Letter RE: Architects Certification

COMMENTS

RECEIVED
OCT 08 2001
HYDROLOGY SECTION

☐ To: **GST Telecom**
3830 Singer Blvd., NE, Ste. 1000
Albuquerque, NM 87110
Attn: Vincent Herrera

☐ To: **C of A**
Public Works Department
Engineering Group, Construction Division
P.O. Box 1293
Albuquerque, NM 87103
Attn: Martin Barker, P.E.

☐ To: **SCI/Video Scan, Inc.**
4415 Hawkins NE, Suite B
Albuquerque, NM 87109
Attn: Daved Levine
Tel: 998-1150
Fax: **998-1156**

October 15, 2001

BOHANNAN-HUSTON, INC

Courtyard One

7500 JEFFERSON NE

Albuquerque

NM 87109-4335

voice 505 823 1000

fax 505 821 0892

Brad Bingham, P.E.
Hydrology/Utility Development
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Alvarado Transportation Center Site at the Southeast Corner of 1st and Central

K-14/D67

Dear Brad:

The purpose of this letter is to provide a drainage certification for a permanent Certificate of Occupancy approval. Having inspected the site, I have found that all of the drainage improvements are in place. The grading and drainage improvements for the site appear to have been constructed in substantial compliance with the approved grading and drainage plan.

We are, therefore, requesting a permanent Certificate of Occupancy approval. In addition, please disregard the letter of October 9, 2001, regarding this matter.

If you have any questions, please contact me at 823-1000.

Sincerely,
Bohannan Huston, Inc.

Bruce Stidworthy, P.E.
Community Development
and Planning Group

BS/ca

P:\97186\cdp\B Bingham 101501 doc

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

October 15, 2001

Bruce Stidworthy, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ALVARADO TRANSPORTATION CENTER- (Sector 1) (K-14/D067)
(1st St. Between Central and Silver SE)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 3/23/1999
ENGINEERS CERTIFICATION DATED 10/9/2001

Dear Mr. Stidworthy:

Based upon the information provided in your Engineers Certification submittal dated 10/10/2001, the above referenced site is approved for a Permanent Certificate of Occupancy.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin

Teresa A. Martin
Hydrology Plan Checker
Public Works Department
BLB

C: Vickie Chavez, COA
drainage file
approval file

Bohannan ▲ Huston

FACSIMILE TRANSMITTAL COVER SHEET

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.798.7988

Date: October 15, 2001

To: Terri Martin, Project Administrator

Company: COA

Fax No.: 924-3864

From: Bruce Stidworthy

Project No: 97 186 **Project Name:** Alvarado Transportation

Number of Pages (Including Cover): 2

Re: 10/15/01 letter to Mr. Brad Bingham

Comments:

Original to Follow: ☒ **Yes**

If you do not receive all pages, please contact Carol at 823-1000.

October 15, 2001

BOHANNAN-HUSTON, INC.
Courtyard One
7500 JEFFERSON NE
Albuquerque
NM 87109-4335
voice 505.823.1000
fax 505.821 0892

Brad Bingham, P.E.
Hydrology/Utility Development
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Alvarado Transportation Center Site at the Southeast Corner of 1st and Central

Dear Brad:

The purpose of this letter is to provide a drainage certification for a permanent Certificate of Occupancy approval. Having inspected the site, I have found that all of the drainage improvements are in place. The grading and drainage improvements for the site appear to have been constructed in substantial compliance with the approved grading and drainage plan.

We are, therefore, requesting a permanent Certificate of Occupancy approval. In addition, please disregard the letter of October 9, 2001, regarding this matter.

If you have any questions, please contact me at 823-1000.

Sincerely,
Bohannan Huston, Inc.

Bruce Stidworthy, P.E.
Community Development
and Planning Group

BS/ca
Enclosures

****
*** RX REPORT ***
****

RECEPTION OK

TX/RX NO	6657
CONNECTION TEL	15057987988
SUBADDRESS	
CONNECTION ID	
ST. TIME	10/15 15:41
USAGE T	00'36
PGS.	2
RESULT	OK

October 9, 2001

BOHANNAN-HUSTON, INC

Courtyard One

7500 JEFFERSON NE

Albuquerque

NM 87109-4335

voice 505.823 1000

fax 505 821 0892

Brad Bingham, P.E.
Hydrology/Utility Development
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Alvarado Transportation Center Site at the Southeast Corner of 1st and Central

Dear Brad:

The purpose of this letter is to provide a drainage certification for a permanent Certificate of Occupancy approval. Having inspected the site, I have found that all of the critical drainage improvements are in place. The grading and drainage improvements for the site appear to have been constructed in substantial compliance with the approved grading and drainage plan.

We are, therefore, requesting a permanent Certificate of Occupancy approval. If you have any questions, please contact me at 823-1000.

Sincerely,
Bohannan Huston, Inc.

Bruce Stidworthy, P.E.
Community Development
and Planning Group

BS/ca
Enclosures

RECEIVED
OCT 1 0 2001
HYDROLOGY SECTION

P:\97186\cdp\B Bingham 100901 doc

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Alvarado Transportation Center ZONE ATLAS/DRNG. FILE # K14 – D67

DRB #: 98-148 EPC #: _____ WORK ORDER #: 584291

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1

CITY ADDRESS: 1st Street Between Central and Silver

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: Bruce Stidworthy

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: City of Albuquerque Transit Dept. CONTACT: Bruce Rizerri

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN
- ____ FINAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- X ENGINEER'S CERTIFICATION
- ____ OTHER

PRE-DESIGN MEETING:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SKETCH PLAT APPROVAL
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUBD. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ S.A.D. DRAINAGE REPORT
- ____ DRAINAGE REQUIREMENTS
- ____ SUBDIVISION CERTIFICATION
- ____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10/09/01

BY: Bohannan Huston, Bruce Stidworthy

RECEIVED
OCT 10 2001
HYDROLOGY SECTION

Revised 02/98

CLIENT/COURIER TRANSMITTAL

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.798.7988

To: Brad Bingham
Hydrology/Utility Development
City of Albuquerque
600 2nd Street NW, 2nd Floor
Albuquerque, NM

Phone: 924-3986

Job No.: 97 186

Requested By: Bruce Stidworthy / ca

Date: October 10, 2001

Time Due: ☒ This A.M. ☐ This P.M.
☐ Rush ___ ☐ By Tomorrow

Job Name: Alvarado Transportation Center

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____
_____

ITEM NO.	QUANTITY	DESCRIPTION
	1	10/09/01 letter with attachment to Mr. Bingham

COMMENTS / INSTRUCTIONS

REC'D BY: _____ RECEIVED OCT 1 0 2001 HYDROLOGY SECTION *DATE:* _____ *TIME:* _____

CITY OF ALBUQUERQUE
NOTICE OF D.R.C. MEETING

2-26-99 (DATE) 3|2

DRB NO: N/A
PROJECT NO: 584292
ZONE ATLAS: K-14

PROJECT NAME: ALVARADO TRANSPORTATION
LOCATION: CENTRAL & 1ST ST.

TYPE OF PROJECT: AHBA ____ CIP ✓ PWC ____ SAD ____ ALL PRIVATE ____

Contact Person: BRUCE RIZZIERI **Phone:** 764-6123
Firm: TRANSIT

✓ Scheduled with the D.R.C. on 3-11-99 at 1:30 Plaza Del Sol/2nd Fl.
____ No DRC Meeting Scheduled. Please return any comments by _____

The Project Is Scheduled For:

/ / Design Report Review
/ / Pre-Design Meeting
/ / Preliminary Plan Review
/ / Final Plan Review
/ / Signoff of Plans
/ / _____

The Project Relates To:

/ / Water / / San. Sewer / / Paving / / Storm Drainage / / _____

The Attached Package Includes:

/D/ Drawings /S/ Spec's /E/ Estimate /R/ Report /M/ Memo Only

Indicated below are the Departments/Divisions that have received project documents and/or are invited to attend. It will be the Project Managers responsiblity to notify consulting engineering firms of date and time of scheduled meetings.

D/ DRC Chairman	Project Review Section	All Drawings
D/ Traffic Repres	Transportation Development	All Drawings
/ / Utility Dev.(Bob Kane)	Utility Design	All AHBA Drawings
D/ Utility Dev.(Keith Reed)	Utility Design	All CIP Drawings
~~D/ Hydro Repres.~~ MURRAY	Hydrology	All Drawings
/ / Const. Repres.	Construction	All Drawings
/ / Ray Chavez	Traffic Operations	All Drawings
/ / Sergio Miranda	Water (Shutoff Plan)	All Water Shutoff
/ / CIP/Parks Repres.	Parks & Recreation	ALL Landscaping
/ / Andre Houle	Street Maintenance	All Paving
/ / Kevin Broderick	Utility Coordinator	ALL PWC & CIP
/ / Jim Hamel	Transit Department	CIP/Memo
/ / Joe Luehring	Construction Coordinator	CIP/Memo
/ / Jim Fink	Line Maintenance	CIP & SAS/Memo
D/ George Gee	City Architect	Arch. Drawings
/ / Lee Lunsford	SAD Engineer	SAD/Memo
/ / Tom Ellis	Park Mangement	Parks/Community Ctrs/APS
/ / Gene Bustamante	General Services Dept.	Arch. Drawings
D/ Greg Smith	PWD/Legal	Specs & Dwgs.
/ / Richard Sertich	Planning Department	CIP/Memos
M CIP Project Manager	CIP	CIP/Memos
/ / Donald Bartlett	Risk Management	Arch. Drawings
/ / _____	_____	_____

DRCNOTIC. 10/19/95

NEED Stamped G&D Plan in set for sign-off. JM

CITY OF
Albuquerque

June 15, 1998

James Topmiller, P.E.
Bohannan-Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: ALVARADO TRANSPORTATION CENTER (K14-D67). CONCEPTUAL GRADING AND DRAINAGE PLAN FOR PRELIMINARY PLAT, SITE DEVELOPMENT PLAN FOR BUILDING PERMIT, AND FINAL PLAT APPROVALS. ENGINEER'S STAMP DATED MAY 7, 1998.

Dear Mr. Topmiller:

Based on the information provided on your May 7, 1998 submittal, the above referenced project is approved for Preliminary and Final Plats, and Site Development Plan for Building Permit.

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

Prior to Certificate of Occupancy approval, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

John P. Murray, P.E.
Hydrology

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ALVARADO TRANSPORTATION CENTER ZONE ATLAS/DRNG. FILE #: K-14-67

DRB #: 98-148 EPC #: WORK ORDER #:

LEGAL DESCRIPTION: TRACT A RAILWAY DEPOT

CITY ADDRESS:

ENGINEERING FIRM: BOHANNAN-HUSTON CONTACT: BRUCE STIDWORTHY

ADDRESS: 7500 Jefferson SA. PHONE: 823-1000

OWNER: City of Albuquerque CONTACT: Bruce Rizzieri

ADDRESS: PO Box 1293 PHONE: 764-6123

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
✓ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION
____ OTHER _____

PRE-DESIGN MEETING:

____ YES
____ NO
____ COPY PROVIDED

RECEIVED
MAY 07 1998
HYDROLOGY SECTION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL
✓ 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
____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ S.A.D. DRAINAGE REPORT
____ DRAINAGE REQUIREMENTS
____ SUBDIVISION CERTIFICATION
____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 5/7/98

BY: James Topmiller for Bruce S.

Albq Intermodal
Center
4901.90
* K-14
NO Action Record.

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505 823 1000
fax 505 821 0892

May 7, 1998

Fred Aguirre, P.E.
City Hydrologist
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

Re: Alvarado Transportation Center Conceptual Drainage Plan Submittal

Dear Fred:

The purpose of this letter is to submit to you a conceptual drainage plan for the proposed Alvarado Transportation Center, a combined public/private project located on 1st Street between Coal and Central Avenues.

With this submittal, we are requesting site development plan approval, preliminary and final plat approval and infrastructure list approval for the project. Although it is not common for conceptual level plan to be satisfactory for preliminary plat and infrastructure list approval, we believe that the proposed platting and infrastructure requirements are of such a basic nature and clearly identifiable through only a brief site review and conceptual level drainage planning. A copy of the proposed infrastructure list is enclosed for review.

NOT SO.

Accordingly, we request your review and approval/comment on the enclosed plan. The drainage management scheme proposed is one where site drainage flows are freely discharged to 1st Street in accordance with historical drainage patterns for the property. Minor on-site drainage systems will also be utilized due to the low slopes within the area.

If I can answer any questions, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

for: Bruce Stidworthy, E.I.
Community Development
and Planning Group

BS/kc
Enclosures - Conceptual Drainage Plan
Infrastructure List

cc: Chris Gunning, Dekker/Perich & Associates

RECEIVED
MAY 07 1998
HYDROLOGY

P \97186\cdp\a02-prelim grd_drng plans\corres\aguirre ltr.doc

Bohannan Huston

FACSIMILE TRANSMITTAL COVER SHEET

Rec'd from Fred A 6/15/98

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.821.0892

Date: June 12, 1998

To: Bruce Rizzieri, COA, Transit Department, 764-6146
Fred Aguirre, P.E., COA, Hydrology Division/PWD, 924-3864

From: Bruce Stidworthy

Project No: 97186 C2.03 2400 **Project Name:** Alvarado Transportation Center

Number of Pages to follow (including cover) 2

Re: Infrastructure List Verbiage

Comments:

Original to Follow: ☐ Yes

If you do not receive all pages, please contact Rebecca @ x7910 at 823-1000

DRB Case No. 98-148
DRC Project No. 5842.91
Date Submitted 6/16/98

Figure 12
INFRASTRUCTURE LIST

Alvarado Transportation Center for Preliminary/Final Plat Approval

EXHIBIT "A"
TO SUBDIVISION IMPROVEMENTS AGREEMENT
DEVELOPMENT REVIEW BOARD (D.R.B.) REQUIRED INFRASTRUCTURE LIST

Following is a summary of Public/Private Infrastructure required to be constructed or financially guaranteed to be constructed for the above development. This summary is not necessarily a complete listing. During the design process, if the City determines that appurtenant items have not been included in the summary, those items will be included in the listing and related financial guarantee, if the items normally are Subdivider responsibility. In addition, any unforeseen items which arise during construction which are necessary to complete the project and which normally are the Subdivider's responsibility are the responsibility of the Subdivider and will be included in the financial guarantee provided to the City.

1. RECONSTRUCT THE GOLD STREET/FIRST STREET INTERSECTION TO STRAIGHTEN FIRST STREET (TO CENTRAL AVENUE) AND 'TEE' GOLD STREET INTO FIRST STREET. (SEE SITE DEVELOPMENT PLAN).

2. RELOCATE EXISTING SANITARY SEWER, WATER AND STORM FACILITIES AS REQUIRED TO ACCOMODATE ROADWAY CHANGES DESCRIBED IN ITEM 1 ABOVE. (SEE SITE DEVELOPMENT PLAN)

3. ABANDON EXISTING UTILITY LINES WHERE NO LONGER NEEDED DUE TO RELOCATIONS DESCRIBED IN ITEM 2 ABOVE.

4. REMOVE EXISTING PRIVATE FIRE HYDRANTS ON THE SITE

5. DRAINAGE CERTIFICATION PER DPM REQUIREMENTS

6. STREET LIGHTS PER THE SITE PLAN

BY SIGNING BELOW I, ANNE WATKINS, DIRECTOR OF THE TRANSIT DEPARTMENT FOR THE CITY OF ALBUQUERQUE, RECOGNIZE THAT MY DEPARTMENT IS FINANCIALLY RESPONSIBILE FOR THE CONSTRUCTION OF THE ABOVE LISTED IMPROVEMENTS.

Signature *Date*

Development Review Board Member Approval

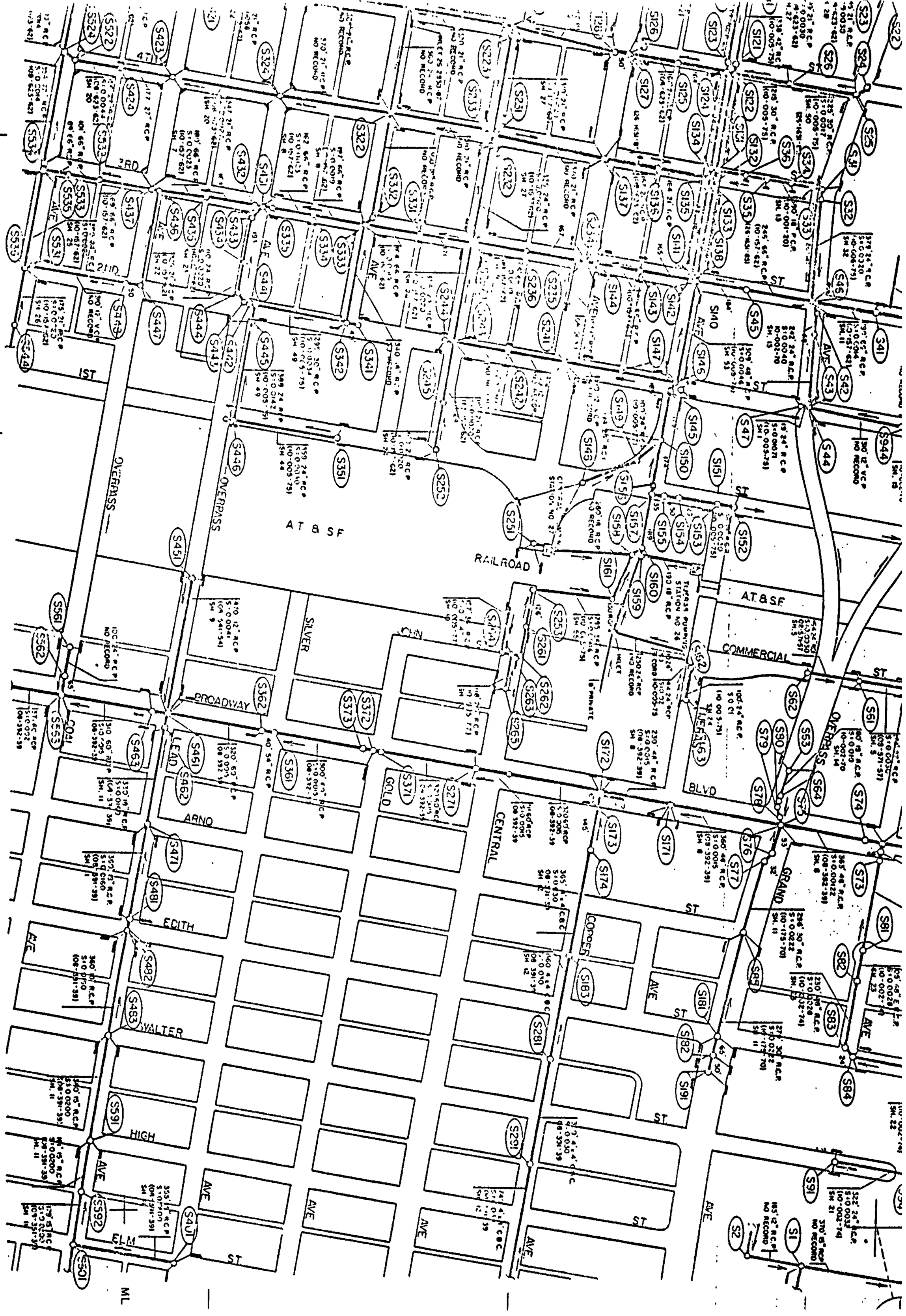
Transportation Development *Date*

Utility Development *Date*

Parks & Gen. Serv. *Date*

City Engineer/AMAFCA *Date*

DRB Chair *Date*


AT & SF
RAILROAD
OVERPASS
IST
2ND
3RD
4TH
AVE
ST
AT.&S.F.
COMMERCIAL
BLVD
GRAND
CENTRAL
COPPER
SILVER
GOLD
ARNO
EDITH
VALTER
HIGH
ELM
LEAD
BROADWAY
TUCRASS

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

April 15, 1998

James Topmiller, P.E.
Bohannan-Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

Attn: Bruce Stidworthy, E.I.

RE: ALVARADO TRANSPORTATION CENTER (K14-D67). DRAINAGE REPORT, FINAL GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED MARCH 23, 1999.

Dear Mr. Topmiller:

Based on the information provided on your March 23, 1999 submittal, the above referenced project is approved for Building Permit. (BP covers Grading Permit.)

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

Prior to Certificate of Occupancy approval, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

John P. Murray, P.E.
Hydrology

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Alvarado Transportation Center ZONE ATLAS/DRNG. FILE #: K14 – D67

DRB #: 98-148 EPC #: _____ WORK ORDER #: 584291

LEGAL DESCRIPTION: Alvarado Transportation Center Tract A-1

CITY ADDRESS: 1st Street Between Central and Silver

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: Bruce Stidworthy

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: City of Albuquerque Transit Dept. CONTACT: Bruce Rizerri

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- X DRAINAGE REPORT
- ___ DRAINAGE PLAN
- X FINAL GRADING & DRAINAGE PLAN
- ___ GRADING PLAN
- ___ EROSION CONTROL PLAN
- ___ ENGINEER'S CERTIFICATION
- ___ OTHER

PRE-DESIGN MEETING:

- ___ YES
- ___ NO
- ___ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ___ SKETCH PLAT APPROVAL
- ___ 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
- X BUILDING PERMIT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY APPROVAL
- X GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ S.A.D. DRAINAGE REPORT
- ___ DRAINAGE REQUIREMENTS
- ___ SUBDIVISION CERTIFICATION
- ___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/23/99

BY: Bohannan Huston, Bruce Stidworthy

RECEIVED
MAR 23 1999
HYDROLOGY SECTION

Revised 02/98

CLIENT/COURIER TRANSMITTAL

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.821.0892

To: John P. Murray
PWD / Hydrology Division
City of Albuquerque
600 2nd St. NW - 2nd Floor
Albuquerque, NM 87103

phone: 924-3984

Requested By: Bruce Stidworthy

Date: March 23, 1999

Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush ___ ☐ By Tomorrow

Job No.: 97186A.07

Job Name: Alvarado Transportation Center

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____

_____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Drainage Report dated March 23, 1999.
2	1	Drainage Information Sheet.

COMMENTS / INSTRUCTIONS

RECEIVED
MAR 23 1999
HYDROLOGY SECTION

REC'D BY: _____ ***DATE:*** _____ ***TIME:*** _____

ALVARADO TRANSPORTATION CENTER
DRAINAGE REPORT

MARCH 23, 1999

PREPARED FOR:

CITY OF ALBUQUERQUE TRANSIT DEPT.
c/o DEKKER/PERICH/SABATINI
6801 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

DRAINAGE REPORT FOR
ALVARADO TRANSPORTATION CENTER

MARCH 23, 1999

Prepared for:

City of Albuquerque Transit Dept.
c/o Dekker/Perich/Sabatini
6801 Jefferson NE, Suite 100
Albuquerque, NM 87109

Prepared by:

Bohannan Huston, Inc.
Courtyard I
7500 Jefferson NE
Albuquerque, NM 87109

PREPARED BY:

Bruce Stidworthy 3/23/99

Bruce Stidworthy, E.I. Date

UNDER THE SUPERVISION OF:

James R. Topmiller, P.E. Date

3-23-99

TABLE OF CONTENTS

FIGURES

APPENDICES

EXHIBITS

I. INTRODUCTION

The purpose of this report is to provide a Drainage Management Plan for the proposed development of an intermodal transportation center, to be known as the Alvarado Transportation Center. The site is legally described as Tract A-1 Alvarado Transportation Center.

II. PURPOSE

This report and the final grading plan are submitted for Hydrology Division review for the purpose of obtaining rough grading and building permit approval. No variances are requested with this submittal.

III. METHODOLOGIES AND REFERENCES

This report is prepared in accordance with DPM criteria; specifically, the procedure outlined in DPM Section 22.2.A was used. No AHYMO analysis was done for this site. This report is in compliance with the approved conceptual grading and drainage plan, dated 5/7/98 (City drainage file K-14/D67).

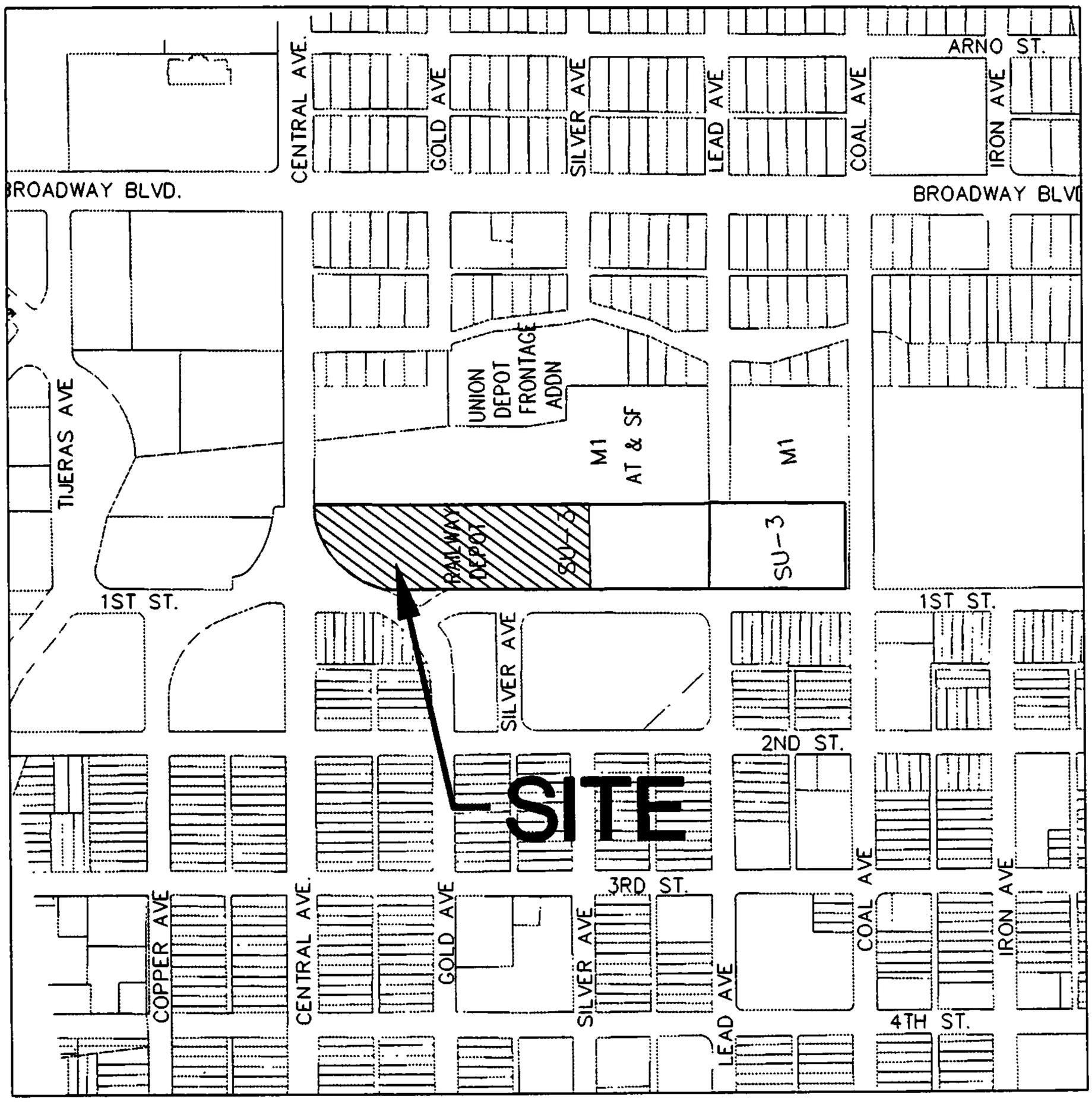
IV. SITE LOCATION AND CHARACTERISTICS

The proposed Alvarado Transportation Center is located downtown, between Central and Gold, and between First and the railroad tracks, within City of Albuquerque Zone Atlas Map No. K-14. Please see the Vicinity Map, Figure 1 for exact location.

The site is fairly flat and unvegetated. The site has most recently been used as a pay-for-use parking lot.

V. EXISTING CONDITIONS

The site as described above, behaves as an essentially developed site with a high degree of imperviousness and soil compaction. The existing basins have been identified on the enclosed



VICINITY MAP

ZONE ATLAS K-14-Z

FIGURE 1

Existing Basins and Existing Topography Map (Plate 2). Basin A, approximately 0.46 acres on the northern portion of the property drains approximately 1.5 cfs to Central Ave in the 100-year storm event. Basin B (2.1 acres), consists of the southern portion of the property, and drains approximately 6.9 cfs to 1st Street.

Once flows reach the public streets, they are collected by existing inlets and street gutters and carried away from the site.

VI. PROPOSED CONDITIONS

The Alvarado Transportation Center proposes to construct an intermodal transportation facility on the project site.

In accordance with the conceptual Drainage/Grading Plan (dated 5/7/98, City drainage file K14-D67), the drainage management scheme for the development allows for free discharge of developed flows to 1st Street and its existing storm drain system. As under existing conditions, a small portion of the site will discharge to Central Avenue.

Due to the flatness of the site, a private on-site drainage system is necessary. The storm drain system will collect flow from the surface and carry it via underground pipe to an existing manhole in 1st Street. One on-site inlet (Basin 1) collects 0.38 cfs and conveys the flows via an 8" storm drain to an inlet in Central Ave. All on-site storm drainage systems have been designed to current hydrology and hydraulic standards to carry flows generated by the 100-year storm. All hydrologic and hydraulic calculations are provided in the appendix.

Should the downstream drainage systems preclude acceptance of the peak developed flows, finished floors of the buildings and key pedestrian facilities are set above the overflow points on the site. In that case, discharge from the site will overflow through the proposed entry drives to 1st Street prior to reaching finished floor elevations of buildings and critical pedestrian facilities.

Please see the Proposed Conditions Basin Map, Plate 3.

VII. CONCLUSION

This report has given a comprehensive drainage management plan for the proposed development that complies with previously approved conceptual plan, and the DPM. It is recommended that with this submittal, rough grading and building permit approvals be granted.

APPENDICES

APPENDIX 1 – EXISTING & PROPOSED CONDITION HYDROLOGIC CALCULATIONS

APPENDIX 2 - PROPOSED CONDITION HYDRAULIC CALCULATIONS

APPENDIX 1

EXISTING & PROPOSED CONDITION HYDROLOGIC CALCULATIONS

ALVARADO TRANSPORTATION CENTER

Proposed Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone 2 Rainfall

BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100) (cfs/ac.)	Q(100) (CFS)
1	4120	0.09	0.0%	20.0%	15.0%	65.0%	3.98	*0.38*
2	9650	0.22	0.0%	10.0%	5.0%	85.0%	4.38	*0.97*
3	8670	0.20	0.0%	2.0%	3.0%	95.0%	4.60	*0.92*
4	7950	0.18	0.0%	2.0%	3.0%	95.0%	4.60	*0.84*
5	14170	0.33	0.0%	5.0%	5.0%	90.0%	4.50	*1.46*
6	3060	0.07	0.0%	0.0%	0.0%	100.0%	4.70	*0.33*
7	12150	0.28	0.0%	2.0%	3.0%	95.0%	4.60	*1.28*
8	3890	0.09	0.0%	0.0%	0.0%	100.0%	4.70	*0.42*
9	4010	0.09	0.0%	0.0%	0.0%	100.0%	4.70	*0.43*
10	7780	0.18	0.0%	0.0%	0.0%	100.0%	4.70	*0.84*
11	5750	0.13	0.0%	2.0%	3.0%	95.0%	4.60	*0.61*
12	29890	0.69	0.0%	2.0%	3.0%	95.0%	4.60	*3.16*
Totals	111090	2.55					4.56	*11.64*

97186\CDP\A07\BASINS.XLS

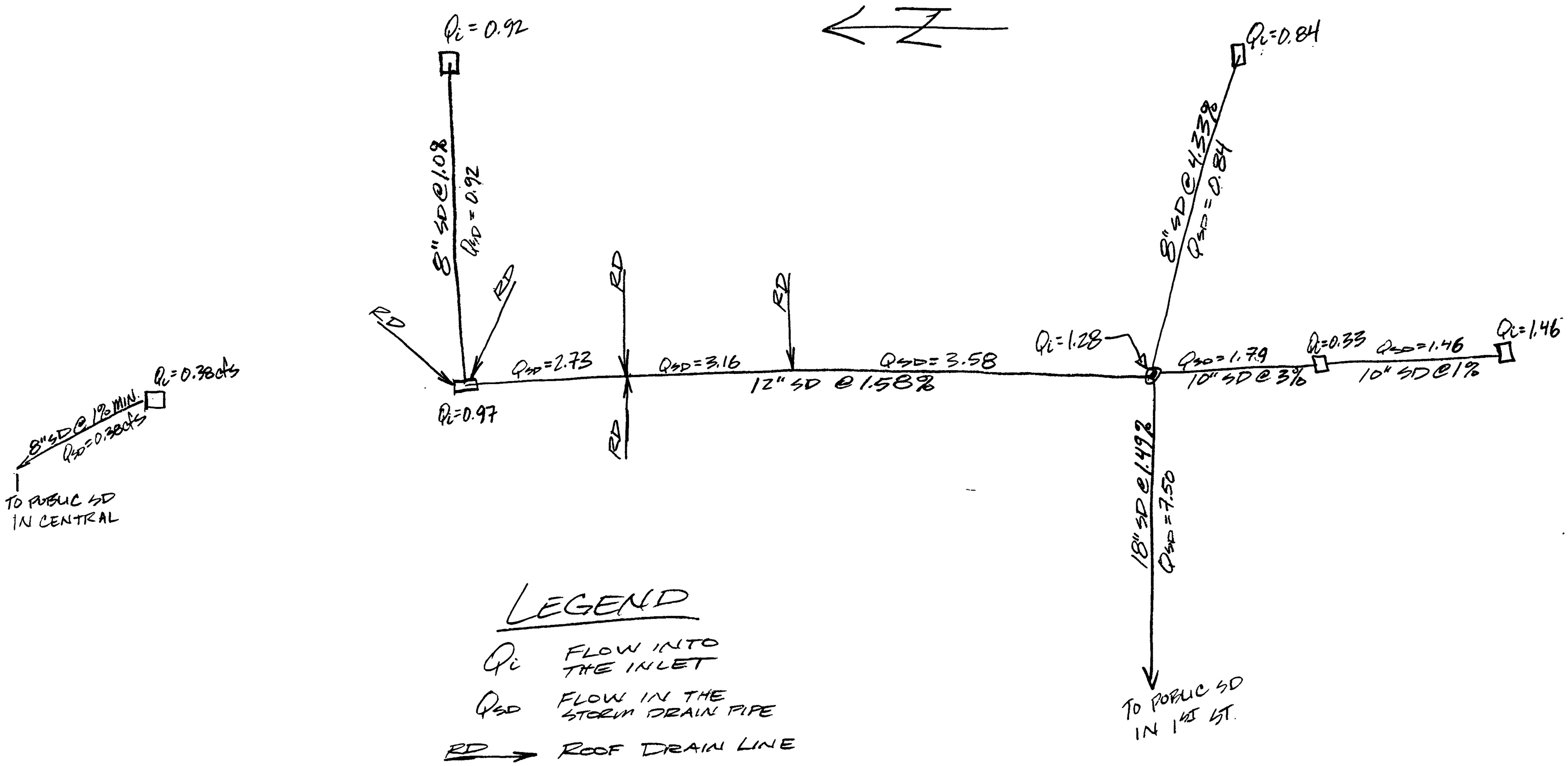
Existing Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone 2 Rainfall

BASIN	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100) (cfs/ac.)	Q(100) (CFS)
A	20250	0.46	0.0%	0.0%	90.0%	10.0%	3.30	*1.53*
B	91230	2.09	0.0%	0.0%	90.0%	10.0%	3.30	*6.90*
Totals	111480	2.56					3.30	*8.44*

APPENDIX 2

PROPOSED CONDITION HYDRAULIC CALCULATIONS



ATC STORM DRAIN SCHEMATIC

Single D inlet, in sump condition:
Open Area (for orifice calc in sq. ft.): 3.93
Length of Weir (feet): 5.35

Head (ft)	Head (in)	Weir Q	Orifice Q	Control Q
0.05	0.6	0.16	4.23	0.16
0.1	1.2	0.45	5.99	0.45
0.15	1.8	0.83	7.33	0.83
0.2	2.4	1.28	8.47	1.28
0.25	3	1.79	9.46	1.79
0.3	3.6	2.36	10.37	2.36
0.35	4.2	2.97	11.20	2.97
0.4	4.8	3.63	11.97	3.63
0.45	5.4	4.33	12.70	4.33
0.5	6	5.07	13.39	5.07
0.55	6.6	5.85	14.04	5.85
0.6	7.2	6.67	14.66	6.67
0.65	7.8	7.52	15.26	7.52

NOTE: NO INLET ONSITE TAKES MORE THAN 1.5 CFS.

ALL ONSITE INLETS HAVE ≥ 6" OF HEAD AVAILABLE, THEREFORE, ALL INLETS HAVE ≥ 2X REQ'D CAPACITY.

Neenah R-1792-FG

Open Area (for orifice calc in sq. f	1.7
Length of Weir (feet):	3.3
Weir Coeficient :	2.68

Head (ft)	Head (in)	Weir Q	Orifice Q	Control Q
0.05	0.6	0.10	1.83	0.10
0.1	1.2	0.28	2.59	0.28
0.15	1.8	0.51	3.17	0.51
0.2	2.4	0.79	3.66	0.79
0.25	3	1.11	4.09	1.11 → Q_{100} = 1.28 CFS
0.3	3.6	1.45	4.48	1.45
0.35	4.2	1.83	4.84	1.83
0.4	4.8	2.24	5.18	2.24
0.45	5.4	2.67	5.49	2.67
0.5	6	3.13	5.79	3.13
0.55	6.6	3.61	6.07	3.61
0.6	7.2	4.11	6.34	4.11
0.65	7.8	4.63	6.60	4.63
0.7	8.4	5.18	6.85	5.18

AVAILABLE HEAD > 6". THEREFORE THE GRATE HAS > 2X REQ'D CAPACITY

Max RCP flow (non-pressure, full pipe)

Table assumes Manning's n = 0.013

	Pipe Size						
Slope	6	8	10	12	18	24	30
0.50%	0.40	0.86	1.55	2.53	7.45	16.04	29.08
1.00%	0.56	1.21	2.20	3.57	10.53	22.68	41.13
1.50%	0.69	1.48	2.69	4.38	12.90	27.78	50.37
2.00%	0.80	1.71	3.11	5.05	14.90	32.08	58.16
2.50%	0.89	1.92	3.47	5.65	16.65	35.87	65.03
3.00%	0.97	2.10	3.81	6.19	18.24	39.29	71.23
3.50%	1.05	2.27	4.11	6.68	19.70	42.44	76.94
4.00%	1.13	2.42	4.39	7.14	21.07	45.37	82.26
4.50%	1.19	2.57	4.66	7.58	22.34	48.12	87.24
5.00%	1.26	2.71	4.91	7.99	23.55	50.72	91.96
5.50%	1.32	2.84	5.15	8.38	24.70	53.20	96.45

THIS TABLE ILLUSTRATES THAT THE ONSITE STORM DRAIN OPERATES UNDER GRAVITY FLOW. (SEE THE STORM DRAIN SCHEMATIC)

EXHIBITS

PLATE 1 - FINAL DRAINAGE/GRADING PLAN

PLATE 2 - EXISTING CONDITIONS BASIN MAP

PLATE 3 – PROPOSED CONDITIONS BASIN MAP

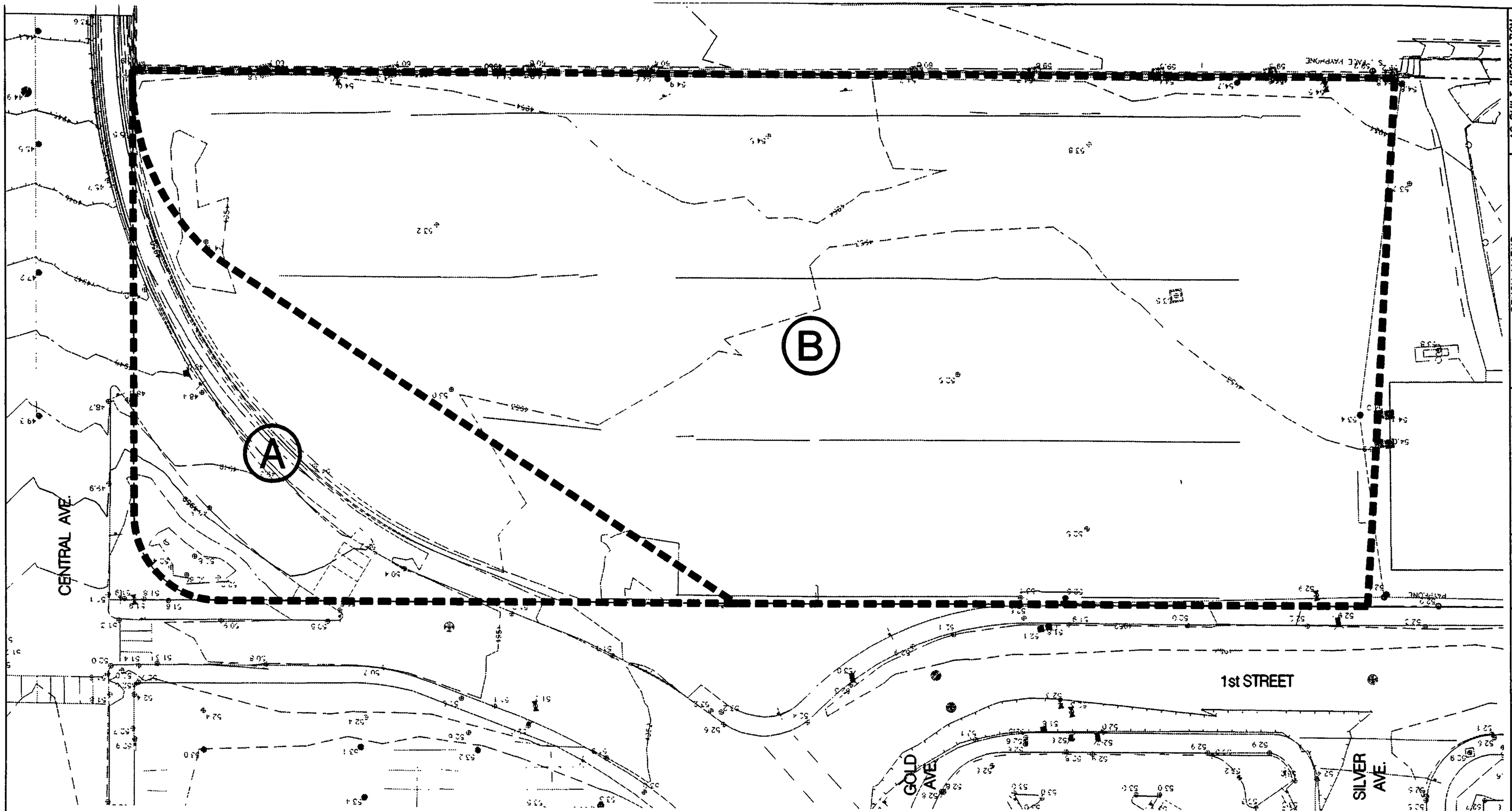
PLATE 4 - PLAT

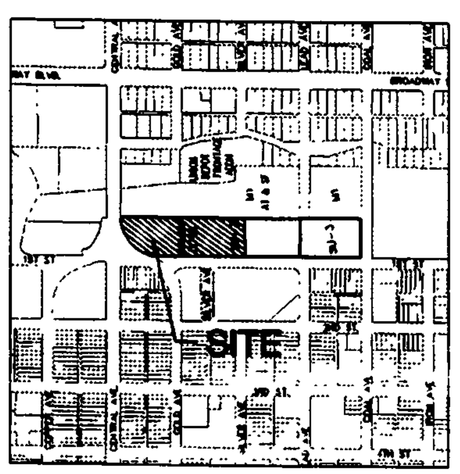
PLATE 1

FINAL DRAINAGE/GRADING PLAN

PLATE 2

EXISTING CONDITIONS BASIN MAP





VICINITY MAP
ZONE ATLAS K-14-Z

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SWALE
- EXISTING SPOT ELEVATION
- EXISTING BASIN BOUNDARY

NOT TO SCALE

LEGAL DESCRIPTION

TRACT A-1, ALVARADO TRANSPORTATION CENTER

Dekker / Perich
architecture interiors planning
6801 Jefferson NE, Suite 100
Albuquerque, New Mexico 87109
(505) 761-9700
Fax 761-4222

Bohannan ^ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALVARADO TRANSPORTATION CENTER
EXISTING CONDITIONS BASIN MAP

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL

DRAWING NO. C2.1 | MAP NO. K-14-Z | SHEET | OF

AS BUILT INFORMATION
CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO.

BENCH MARKS
ACS ALUMINUM CAP STAMPED "18-K14, 1986"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 381,330.57, Y= 1,485,990.88
GROUND-TO-GRID FACTOR = 0.999678646
Δα = -0°13'41"
SLD 1929 ELEVATION = 4960.723

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

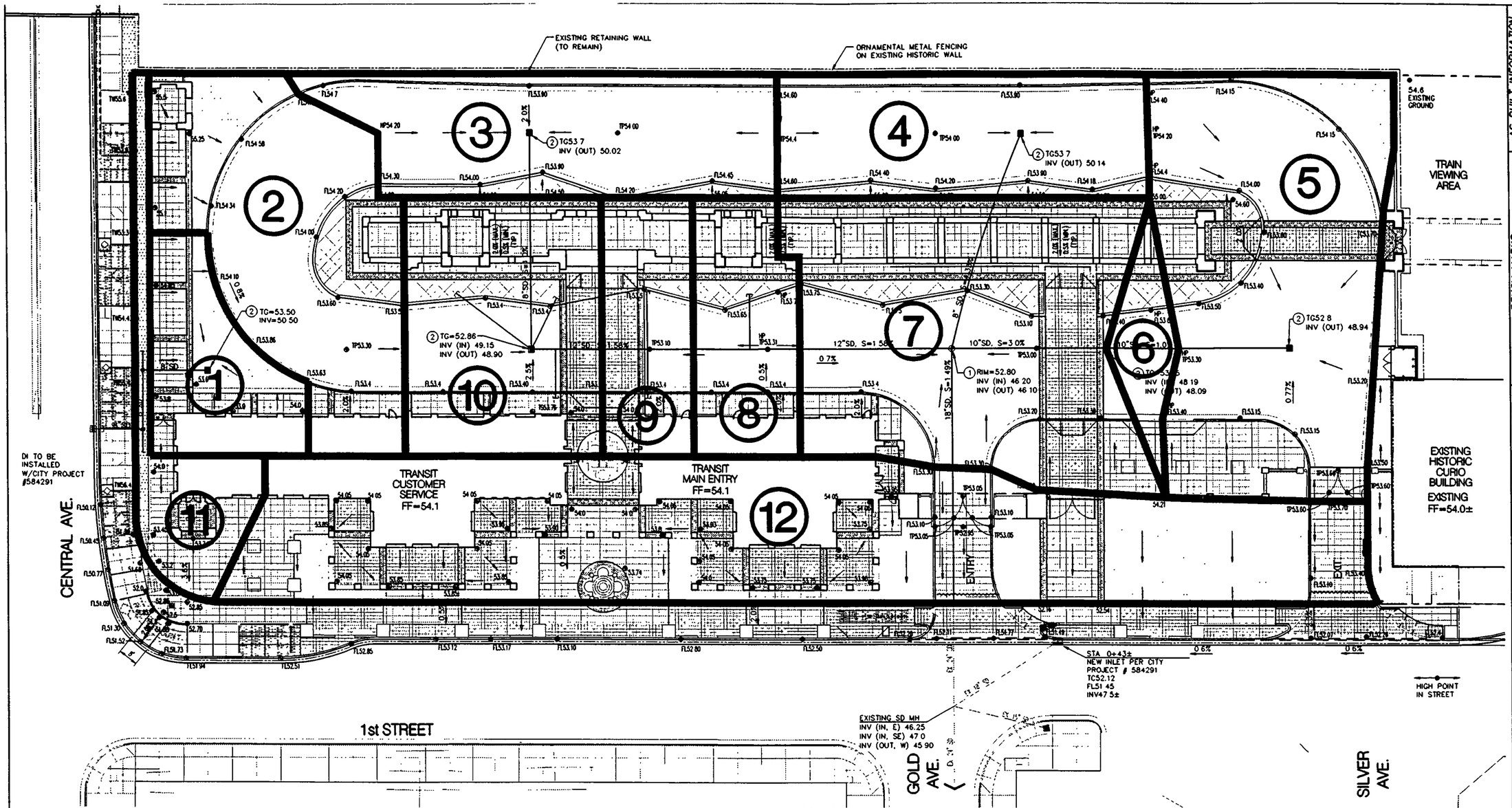
DESIGN
DESIGNED BY BS | DATE 2/16/1999
DRAWN BY LR | DATE 2/16/1999
CHECKED BY JRT | DATE 2/16/1999

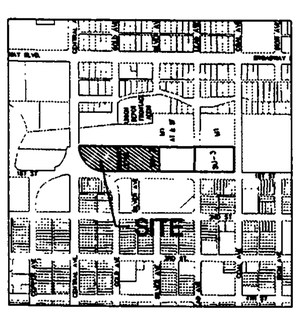
P:\97186\CDP\GENERAL\97186EBSN01.dwg 3/22/99

PLATE 2

PLATE 3

PROPOSED CONDITIONS BASIN MAP





VICINITY MAP
ZONE ATLAS K-14-Z

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING SWALE
- EXISTING SPOT ELEVATION
- SD PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MH
- PROPOSED STORM DRAIN INLET
- PROPOSED CLEANOUT
- 33.52 PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TS=TOP OF SIDEWALK, TP=TOP OF PAVEMENT, TG=TOP OF GRATE
- PROPOSED BASIN BOUNDARY

NOT TO SCALE

LEGAL DESCRIPTION

TRACT A-1, ALVARADO TRANSPORTATION CENTER

Dekker / Perich
architecture interiors planning
6801 Jefferson NE, Suite 100 Albuquerque, New Mexico 87109
(505) 781-9700 Fax 781-4222

Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALVARADO TRANSPORTATION CENTER PROPOSED CONDITIONS BASIN MAP

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	
DRAWING NO. C2.1	MAP NO. K-14-Z	SHEET OF

AS BUILT INFORMATION
CONTRACTOR DATE
SURVEY BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS ALUMINUM CAP STAMPED "16-K14, 1986"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X= 381,330.57, Y= 1,485,990.08
GROUND-TO-GRID FACTOR = 0.99967846
$\Delta\alpha$ = -00°13'41"
SLD 1929 ELEVATION = 4980.723

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY BS DATE 2/16/1999
DRAWN BY LR DATE 2/16/1999
CHECKED BY JRT DATE 2/16/1999

P:\97186\CDP\GENERAL\97186PRSN01.dwg 3/22/99

PLATE 3

PLATE 4

PLAT