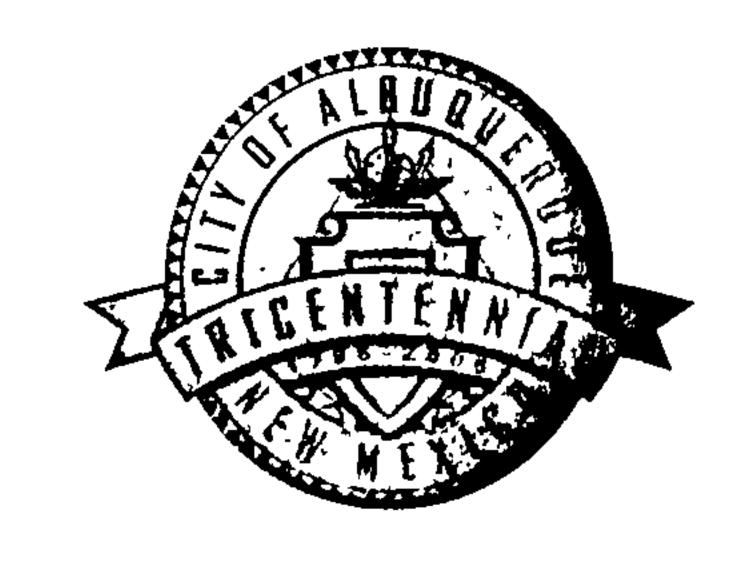
CITY OF ALBUQUERQUE



June 22, 2007

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

Re: Renaissance FedX Ground Grading and Drainage Plan Engineer's Stamp dated 6-4-07 (F16/D022)

Dear Mr. Biazar,

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Based upon the information provided in your submittal dated 6-5-07, the above referenced plan is approved for Grading Permit and Paving Permit.

Upon completion of the project, please provide an Engineer Certification for our files.

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

Sincerely,

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept.

Development and Building Services

file

Albuquerque - Making History 1706-2006

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (Rev. 12/05)

PROJECT TITLE:	Federal Express Ground	ZONE ATLAS/DRG. FILE #: F16 / D22
DRB #:	EPC #:	WORK ORDER #:
LEGAL DESCRIPTION:	3A3A2A1, Renaissance Center	
CITY ADDRESS:	1400 Mission Ave.	
ENGINEERING FIRM: ADDRESS:	Advanced Engineering and Consulting, LLC 4416 Anaheim Ave., NE	CONTACT: Shahab Biazar PHONE: (505) 899-5570
CITY, STATE:	Albuquerque, New Mexico	ZIP CODE: 87113
OWNER:		CONTACT:
ADDRESS: CITY, STATE:		PHONE: ZIP CODE:
ARCHITECT:		CONTACT: PHONE:
ADDRESS: CITY, STATE:		ZIP CODE:
		<u> </u>
SURVEYOR:		CONTACT:
ADDRESS: CITY, STATE:		PHONE: ZIP CODE:
CONTRACTOR:		CONTACT: PHONE:
ADDRESS: CITY, STATE:		ZIP CODE:
DRAINAGE PLAI CONCEPTUAL G X GRADING PLAN EROSION CONTI ENGINEER'S CE CLOMR / LOMR TRAFFIC CIRCU ENGINEER/ARCI	N 1ST SUBMITTAL N RESUBMITTAL RADING & DRAINAGE PLAN ROL PLAN RTIFICATION (HYDROLOGY)	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 CERTIFICATE OF OCCUPANCY (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL
ENGINEER/ARC	HITECT CERT (AA)	PAVING PERMIT APPROVAL
OTHER (SPECIT	Y)	WORK ORDER APPROVAL
WAS A PRE-DESIGN CONI YES X NO COPY PROVIDE		OTHER (SPECIFY) C
DATE SUBMITTED:	06 / 04 / 2007	BY: Shahab Biazar, P.E.

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 submittals may be required based on the following:

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

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

PAIDRECEIPT

APPLICANT N	AME
AGENT	ADVANCED ENGINEEPING & CONSULT 9
ADDRESS	· 446 ANAHEM AVE NE
PROJECT & A	PP#
PROJECT NAI	ME FEDERAL EXPRESS GROUND.
\$ <u>·</u>	441032/3424000 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 ()Bldg Permit () Letter of Map Revision ()Conditional Letter of Map Revision () Traffic Impact Study
\$ 50.00	TOTAL AMOUNT DUE
*** <u>NOTE</u> : If a additional ch	subsequent submittal is required, bring a copy of this paid receipt with you to avoid an narge.

水水水DUFLICATE涂水水City Of Albuquarque Treasury Division

\$6 CO

5/5/2007 -1:34PM RECEIPT# 00077611 WS# 006 TRANS# 0032 Account 441006 Fund 0110 Accivity 4983000 TRSCC3 ' Trans Ant. \$50.00 J24 Misc \$50.00 Ch \$50.00 CHASEE

Town You

Counterreceipt.doc 6/21/04

VOLUME CALCULATIONS

DETENTION POND

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

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

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

_						In let	
ACTUAL	DEPTH	VOLUME	Q		Bailom 0		
ELEV.	(FT)	(AC-FT)	(CFS)				
36.09	0	0.00000	0.0000		-10p of I	mer	
38.05	1.95	0.00027	0.1993		* *		
40.00	3.91	0.00054	0.2856	Ab =	16,779.58	@ ELEV.	5,04
40.25	4.16	0.09839	0.2948	At =	18,945.04	@ ELEV.	5,04
40.50	4.41	0.19936	0.3037	/ Dt =	1.00		
40.75	4.66	0.30342	0.3124		2,165.46		
41.00	4.91	0.41060	0.3208				
41.25	5.16	0.52630	0.3291	Ab =	18,945.04	@ ELEV.	5,04
41.50	5.41	0.65594	0.3371	At =	28,661.94	@ ELEV.	5,04
41.75	5.66	0.79953	0.3449	Dt =	1.00		
42.00	5.91	0.95705	0.3526	C =	9,716.90		

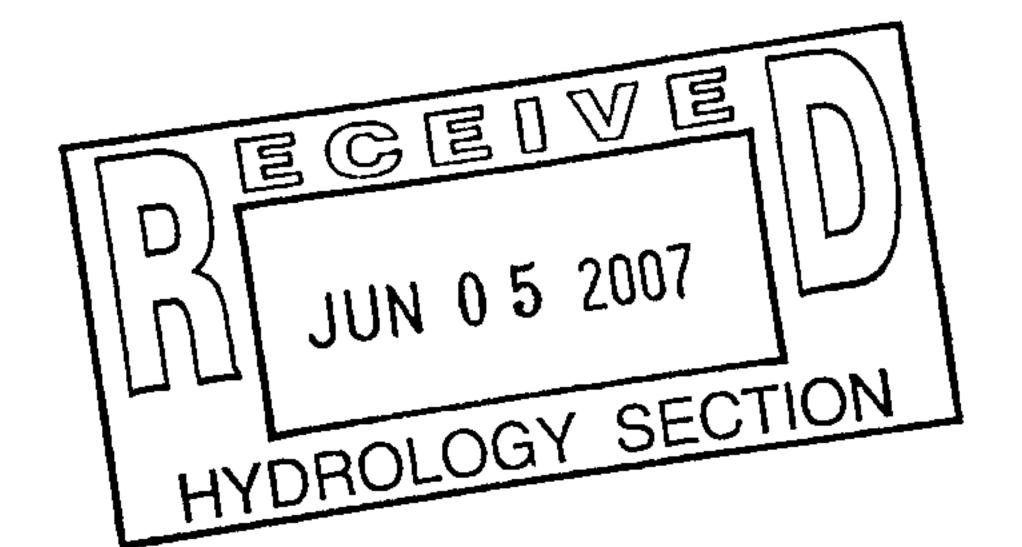
Orifice Equation

Q = CA SQRT(2gH)

C = 0.6Diameter (in) = 2.36
Area (ft^2)= 0.0304 g = 32.2

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

Q(CFS)= Flow



AHYMO INPUT FILE (PONDING CONDITIONS)

* ZONE 2 ************	**********	******	*****
	6-HR STORM (UNDE		TOMO
**********	****	*****	****
START	TIME=0.0		
RAINFALL	TYPE=2 RAIN QUAR'	TER=0.0 IN	
	RAIN ONE=2.01 IN	RAIN SIX= 2.35 IN	
	RAIN DAY=2.75 IN	DT=0.03333 HR	
* ON-STIE			
COMPUTE NM HYD		.0 AREA=0.009171	
	PER A=0.00 PER B	=13.00 PER C=13.0	0 PER D=74.00
	TP=0.1333 HR MAS	S RAINFALL=-1	
******	*****	*****	****
*	PONDING CONDITIO	N	*
******	*****	*****	****
ROUTE RESERVOIR	ID=30 HYD NO=501	.1 INFLOW ID=10 C	ODE=24
	OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.000	0.0000	5136.09
	0.1993	0.00027	5138.05
	0.2856	0.00054	5140.00
	0.2948	0.09839	5140.25
	0.3037	0.19936	5140.50
	0.3124	0.30342	5140.75
	0.3208	0.41060	5141.00
	0.3291	0.52630	5141.25
	0.3371	0.65594	5141.50
	0.3449	0.79953	5141.75
	0.3526	0.95705	5142.00

*			

FINISH

SUMMARY OUTPUT FILE (PONDING CONDITIONS)

AHYMO PROGRA	AM SUMMARY TABLE (= 721p-24	AHYMO_	97) -			VERSION: 199	7.02d (RUN DATE (JSER NO.= A		-	
COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE =	
START RAINFALL TY COMPUTE NM H ROUTE RESERV		- 10	10 30	.00917	24.54	1.004	2.05361 1.06637	1.500	4.181 .059	TIME= RAIN24= PER IMP= AC-FT=	.00 2.750 74.00 .800

AHYMO OUTPUT FILE (PONDING CONDITIONS)

- Version: 1997.02d AHYMO PROGRAM (AHYMO 97) -RUN DATE (MON/DAY/YR) = 06/04/2007USER NO. = AHYMO-I-9702c01000R31-AH START TIME (HR:MIN:SEC) = 09:56:44INPUT FILE = 721p-24* ZONE 2 6-HR STORM (UNDER PROPOSED CONDITIONS) 100-YEAR. ************** TIME=0.0START TYPE=2 RAIN QUARTER=0.0 IN RAINFALL RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.75 IN DT=0.03333 HR COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR. 19.964670 HOURS END TIME = .033330 HOURS DT =.0049 .0102 .0066 .0084 .0033 .0016 .0000 .0241 .0199 .0219 .0158 .0178 .0139 .0120 .0411 .0358 .0384 .0333 .0263 .0286 .0309 .0631 .0561 .0596 .0529 .0467 .0497 .0439 .1066 .0866 .0930 .0807 .0669 .0709 .0751 .8106 .4644 .6186 .1840 .2514 .3434 .1371 1.6174 1.5602 1.4982 1.3533 1.4300 1.2624 1.0449 1.9273 1.8102 1.8514 1.8904 1.7200 1.7664 1.6704 2.0915 2.0976 1.9622 1.9953 2.0566 2.0850 2.0268 2.1329 2.1191 2.1239 2.1285 2.1140 2.1033 2.1088 2.1604 2.1531 2.1568 2.1494 2.1454 2.1373 2.1414 2.1706 2.1802 2.1832 2.1739 2.1771 2.1639 2.1673 2.2002 2.2028 2.1947 2.1975 2.1891 2.1919 2.1862 2.2154 2.2178 2.2202 2.2105 2.2130 2.2054 2.2080 2.2336 2.2358 2.2293 2.2315 2.2225 2.2248 2.2270 2.2440 2.2460 2.2480 2.2399 2.2420 2.2379 2.2612 2.2631 2.2557 2.2576 2.2594 2.2538 2.2519 2.2752 2.2735 2.2718 2.2684 2.2701 2.2666 2.2648 2.2866 2.2850 2.2834 2.2785 2.2818 2.2802 2.2769 2.2958 2.2973 2.2928 2.2943 2.2912 2.2881 2.2897 2.3074 2.3060 2.3045 2.3017 2.3031 2.2987 2.3002 2.3143 2.3156 2.3169 2.3129 2.3088 2.3102 2.3115 2.3261 2.3248 2.3222 2.3235 2.3183 2.3196 2.3209 2.3348 2.3335 2.3311 2.3323 2.3273 2.3286 2.3298 2.3431 2.3419 2.3384 2.3396 2.3408 2.3360 2.3372 2.3511 2.3477 2.3488 2.3500 2.3466 2.3443 2.3454 2.3591 2.3557 2.3568 2.3580 2.3534 2.3546 2.3523 2.3669 2.3658 2.3636 2.3647 2.3602 2.3613 2.3625 2.3746 2.3735 2.3713 2.3724 2.3702 2.3680 2.3691 2.3822 2.3811 2.3790 2.3801 2.3768 2.3779 2.3757 2.3897 2.3886 2.3865 2.3876 2.3854 2.3833 2.3844 2.3970 2.3939 2.3949 2.3960 2.3928 2.3918 2.3907 2.4043 2.4032 2.4012 2.4022 2.4001 2.3981 2.3991 2.4114 2.4104 2.4094 2.4083 2.4053 2.4063 2.4073 2.4184 2.4174 2.4154 2.4164 2.4124 2.4134 2.4144 2.4253 2.4243 2.4224 2.4233 2.4214 2.4194 2.4204 2.4321 2.4312 2.4292 2.4302 2.4282 2.4273 2.4263 2.4388 2.4379 2.4369 2.4350 2.4360 2.4341 2.4331 2.4455 2.4436 2.4445 2.4426 2.4408 2.4417 2.4398 2.4511 2.4502 2.4464 2.4474 2.4483 2.4492 2.4585 2.4566 2.4575 2.4539 2.4548 2.4557 2.4529 2.4648 2.4639 2.4630 2.4621 2.4603 2.4612 2.4594 2.4711 2.4702 2.4693 2.4666 2.4675 2.4684 2.4657 2.4773 2.4764 2.4756 2.4729 2.4738 2.4747 2.4720 2.4834 2.4826 2.4799 2.4808 2.4817 2.4791 2.4782 2.4895 2.4878 2.4886 2.4869 2.4843 2.4852 2.4860 2.4946 2.4955 2.4929 2.4938 2.4921 2.4903 2.4912

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                         2.6836
                                 2.6841
                2.6830
2.6818
        2.6824
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* ON-STIE

COMPUTE NM HYD ID=10 HYD NO=112.0 AREA=0.009171 SQ MI PER A=0.00 PER B=13.00 PER C=13.00 PER D=74.00 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420 UNIT PEAK = 26.794 CFS UNIT VOLUME = .9989 B = 526.28 P60 = 2.0100AREA = .006787 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOURRUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .119767HR TP = .133300HR K/TP RATIO = .898476 SHAPE CONSTANT, N = 3.944947 UNIT PEAK = 6.2873 CFS UNIT VOLUME = .9983 B = 351.48 P60 = 2.0100AREA = .002384 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

```
*************
              PONDING CONDITION
*****************
              ID=30 HYD NO=501.1 INFLOW ID=10 CODE=24
ROUTE RESERVOIR
              OUTFLOW (CFS) STORAGE (AC-FT) ELEVATION (FT)
                                0.00000 5136.09
                 0.0000
                                0.00027 5138.05
                 0.1993
                                0.00054
                                          5140.00
                 0.2856
                                          5140.25
                                0.09839
                 0.2948
                                          5140.50
                                0.19936
                 0.3037
                                          5140.75
                                0.30342
                 0.3124
                                0.41060
                                          5141.00
                 0.3208
                                          5141.25
                                0.52630
                 0.3291
                                          5141.50
                                0.65594
                 0.3371
                                          5141.75
                                0.79953
                 0.3449
                                          5142.00
                                0.95705
                 0.3526
```

*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

TIME	INFLOW	ELEV	VOLUME	OUTFLOW		
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)		
.00	.00	5136.09	.000	.00		
.80	.00	5136.09	.000	.00		
1.60	17.20	5141.02	.418	.32		
2.40	.99	5141.73	.791	.34		
3.20	.20	5141.75	.797 *-	. 34		
4.00	.12	5141.72	.784	.34		
4.80	.12	5141.70	.769	.34		
5.60	.13	5141.67	.755	. 34		
6.40	.15	5141.65	.741	.34		
7.20	.14	5141.63	.728	.34		
8.00	.13	5141.60	.715	.34		
8.80	.13	5141.58	.701	.34		
9.60	.12	5141.55	.687	.34		
10.40	.12	5141.53	.672	.34		
11.20	.11	5141.50	.657	.34		
12.00	.11	5141.47	.642	.34		
12.80	.10	5141.44	.627	.34		
13.60	.10	5141.41	.611	.33		
14.40	.10	5141.38	.596	.33		
15.20	.09	5141.35	.580	.33		
16.00	.09	5141.32	.564	.33		
16.80	.09	5141.29	.548	.33		
17.60	.08	5141.26	.532	.33		
18.40	.08	5141.23	.515	.33		
19.20	.08	5141.19	.499	.33		
				CCURS AT HOUR	2.83	
			I = 5141			
MAXIMUM STO)RAGE =	.8000) AC-FT	INCREMENTAL T	IME=	.033330HR

.8000 AC-FT INCREMENTAL TIME= .033330HRS MAXIMUM STORAGE =

* FINISH

> END TIME (HR:MIN:SEC) = 09:56:44NORMAL PROGRAM FINISH

Submitted For Enformation Only From City Drainage # F16/1022

See Sheet 5 04 This Report REVISED
DRAINAGE REPORT

for

Federal Express-Ground
Tract 3A-3A-1,2
Renaissance Center
Albuquerque, New Mexico

Prepared by

Tierra West, LLC 8509 Jefferson Blvd NE Albuquerque, New Mexico 87113

Prepared for Mr. Bob Gude 4600 Madison, Suite 725 Kansas MO 64112 May 2002

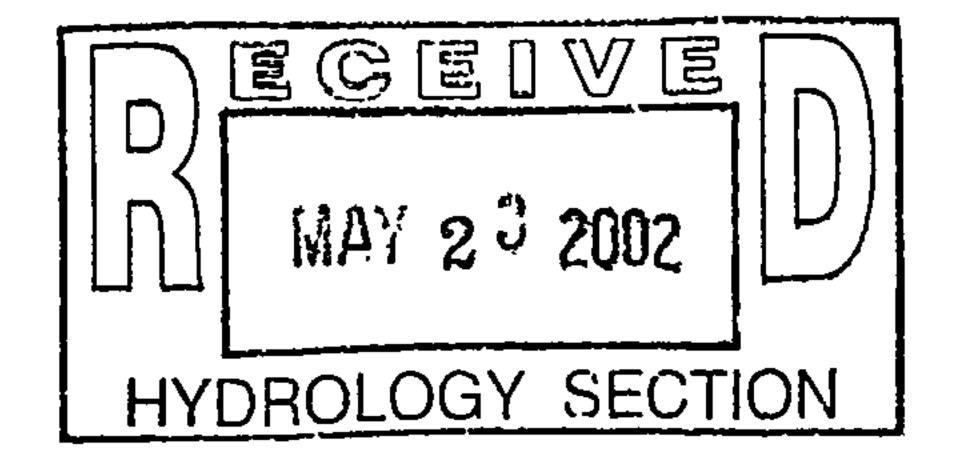


TABLE OF CONTENTS

rurpose	
Introduction	***************************************
Vicinity Map	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Existing Conditions	
Proposed Conditions	
Onsite Basin Man	
Summary	
,	
<u>Appendix</u>	
Site Hydrology	
Hydraulic Analysis	······································
, a. a	······································
Map Pocket	
Overall Tract 2 Drainger Desirations	······································
Grading and Droises Distain Map	······································
Grading and Dramage Plan	······································

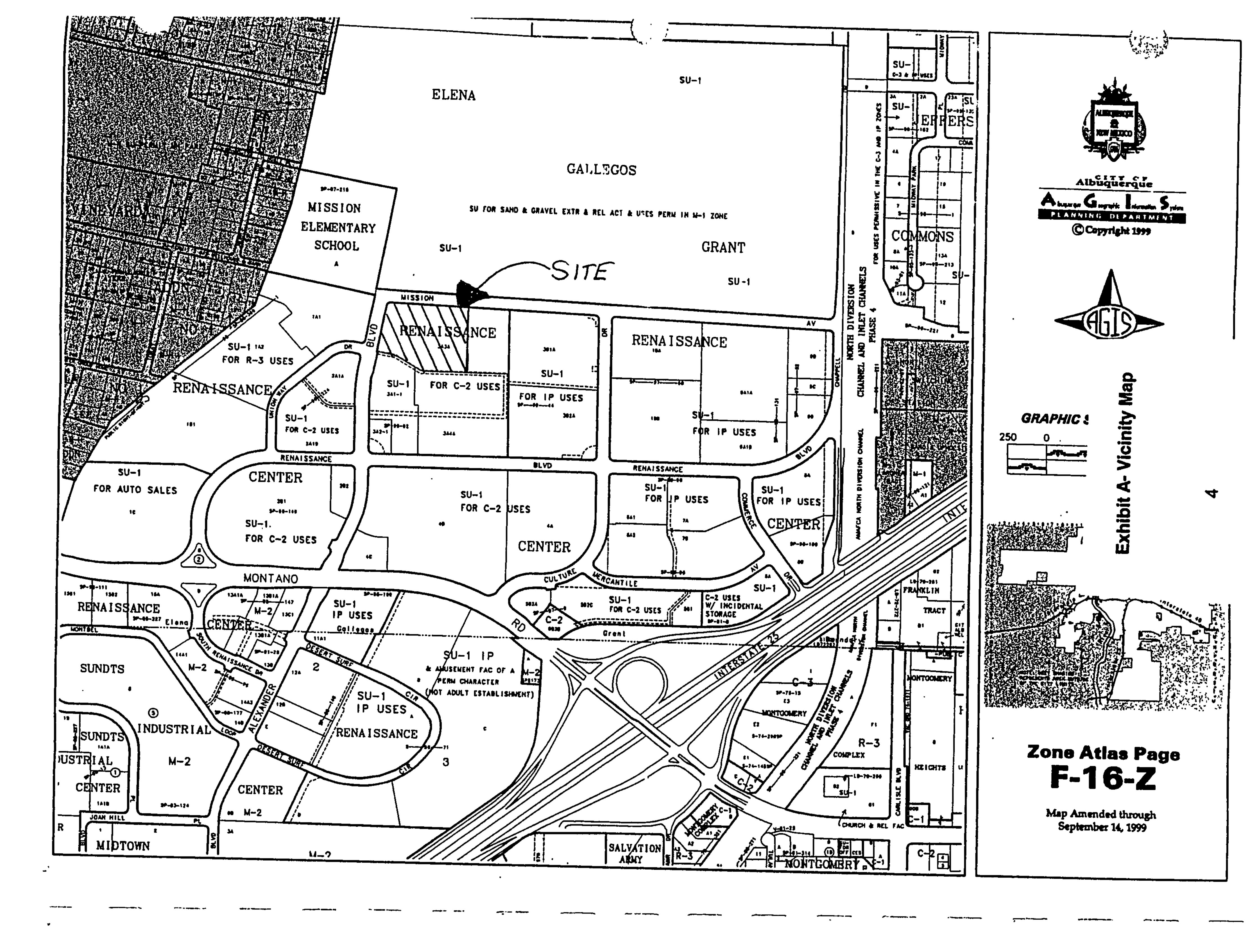
PURPOSE

The purpose of this report is to prove the development of the subject 5.87-acre property, for the use as offices and warehouse, is in accordance with the DPM Chapter 22. This report will demonstrate that the proposed improvements do not adversely effect the surrounding properties nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A vicinity map, is a 5.87-acre parcel of land located on the southeast corner of Mission Boulevard and Alexander Boulevard. The site is located on Zone Atlas page F-16. The site currently exists as a rough graded parcel within the Renaissance Center. The proposed improvements consist of the construction of a 40,097 square foot office/warehouse to be utilized by Federal Express Ground Service. The legal description of the existing property is Lot 3A-3A1 and 3A-3A2 of the North Renaissance Center. As shown on FIRM map 35001C0138D, the site lies within flood zone x.

This entire site was analyzed within the Drainage Report and grading plan for Tract 3 of the Renaissance Center (F19-D20) previously submitted by Tierra West, LLC, with the starr, p date of 7/4/98. The City of Albuquerque Hydrology Section approved the Drainage Management Plan on 5/11/98. This site was also previously analyzed by Tierra West, LLC and a drainage report dated November 15,2001. A 6" PVC storm drain was stubbed into future tract 3A3A1 for the benefit of future development. A detention pond is located at the northwest comer of the existing Office Depot, and the General Technology Building to the east discharges their routed flow at the southeast corner of future Tract 3A3A3. Based upon the approved Drainage Management Plan, this site is allowed to discharge .1 CFS per acre in developed conditions. Since our improvements are consistent with developed condition assumptions within the Tract 3 Master Drainage Plan this site should be allowed to discharge .587 CFS to the existing storm drain system.



EXISTING CONDITIONS

The site slopes from north to south, with general grades between 3-4%. The site was rough graded with the construction of the Renaissance Center. During the development of Tract 3-B (Office Depot) a series of temporary detention ponds were constructed around the site. A 6" conduit and a temporary retention pond were constructed at the south edge of Tract 3A3A1. The adjacent Tract 3A-3A3 was recently developed and the flows were diverted and discharged at a rate of .1 CFS per acre. A retention pond was constructed at the midpoint of the southern boundary to collect the undeveloped middle portions of this tract. No offsite flows enter this site from the adjacent properties or rights-of way. Map pocket A contains the grading plans for Tract 3A1 (Office Depot) and Tract 3A-3A (Harrison Building).

PROPOSED CONDITIONS

The proposed improvements consist of the construction of a 40,097 square foot office/warehouse to be utilized by Federal Express Ground Service. These improvements will encompass both Tracts 3A-3A-1 and 3A-3A-2. The building will be located on Tract 3A-3A-2 and tract 3A-3A-1 will be utilized as a ponding area. As shown on the Tract 3 basin map (map pocket B) Tract 3A3A1 and 3A-3A-2 is located within Basin 15,12 and 16. From the Overall Drainage Master plan basin 15 is allowed to discharge .354 CFS. The proposed grading plan will divert all of the onsite flow to a detention pond located at the southwest corner of the site. A copy of the proposed grading plan is located within map pocket C. Since this outlet pipe is existing and was sized to accommodate the flows from overall basin 15 only, our overall site discharge will be limited to .354 CFS.

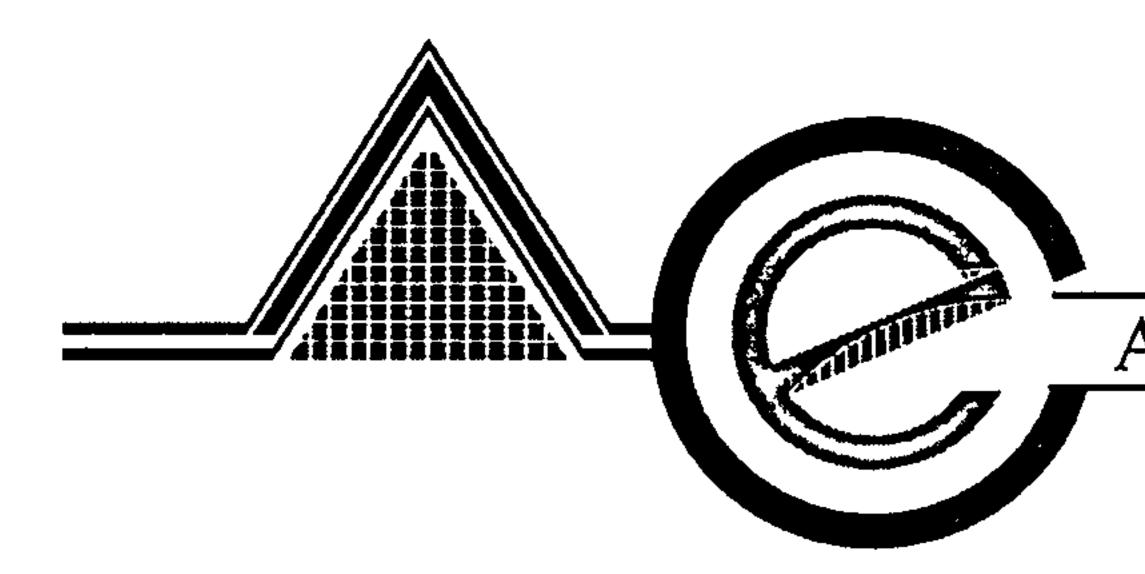
As shown on the Onsite Drainage Basin Map (Exhibit B) the site is broken into 16 drainage basins. Basins B1-I drain to open grated manholes and are conveyed via underground conduit to the proposed detention pond. Basin A1-A5, J and K drains via surface flow to the same

detention pond. As shown in appendix B, the grated inlet, underground conduits and rundowns have been sized to accommodate the predicted peak discharge for a 100-year, 6-hour storm event. The detention pond will have a 3" orifice plate installed at the outlet to restrict the flow to 0.324 CFS. This pond has been sized to contain the entire volume that would be produced by a 100-year, 24-hour storm event. The analysis of the pond geometry and function is included within Appendix B. The flow leaving Tract 3A3A1 discharges via the existing 6" pipe, which is connected to the existing storm, drain system. The existing storm drain located at the northeast corner of the existing Office Depot captures the access roadway discharge. In a storm event greater than the predicted 100-year storm, all pond will overflow and spill to the adjacent roadways.

SUMMARY AND RECOMMENDATIONS

This site is an existing parcel within the Renaissance Center. The City of Albuquerque Hydrology Section approved the drainage management plan for the entire Tract 3, which our site is a portion of. The master drainage plan allows for a peak discharge rate of 0.1 CFS per acre for the fully developed condition. Since we are including the entire site within basin 15, we are limiting our discharge to the allowable discharge of this basin. The proposed improvements will discharge a peak flow less than the allowed rate. The development of this site is consistent with the DPM, Chapter 22, Hydrology section. Since this site encompasses more than 5 acres, a NPDES permit is required prior to any construction activity. No improvements are to occur within City right of way; therefore an infrastructure list is not required. It is recommended this development be approved for rough grading, and Site Plan for Building Permit.

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ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection
Surveying

June 4, 2007

Mr. Bradley L. Bingham, P.E. Sr. Engineer, Planing Dept. Development and Building Services 600 Second Street NW Albuquerque, New Mexico 87102

RE: GRADING AND DRAINAGE PLAN FOR PARKING LOT ADDITION FOR FEDEX EXPRESS GROUND(F16/D22)

Dear Mr. Bingham:

This letter is in reference to the FedEx Express Parking lot additions on Tract 3A3A2A1, Renaissance Center, located at 1400 Mission Avenue. The previously approved grading plan under the City Drainage Number F16/D22 is attached (reduced to 11x17). Based on the drainage report under the City Drainage number F16/D22 (prepared by Tierra West LLC, with engineer Stamp Date of 05/22/02) the site drain to a detention pond. Then the runoff the drains out at a confined flow rate of (not to exceed) 0.354 cfs. See "Sheet 5" of the attached portion of the Drainage Report prepared by Tierra West, LLC. Based on the new analysis the existing Plate at the discharge point of the detention pond has to be modified from a 3" diameter orifice plate to a 2.36" diameter orifice plate. The runoff form the new parking additions will continue to drain to the revised retention pond, and then the runoff will discharge at a runoff rate of 0.345 cfs. To be more conservative in our calculations the AHYMO runoff calculations were done based on a 100-year/24-hour storm. See attached calculations.

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

Shahab Biazar, P.E.

JUN 0 5 2007

HYDROLOGY SECTION



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 3, 2003

Ronald R. Bohannan, P.E. Tierra West, LLC 8509 Jefferson NE Albuquerque, New Mexico 87113

RE: FEDERAL EXPRESS GROUND

(F-16/D22)

(1400 Mission Ave NE)

ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY

ENGINEERS STAMP DATED 5/22/2002

ENGINEERS CERTIFICATION DATED 2/21/2003

Dear Mr. Bohannan:

Based upon the information provided in your Engineers Certification submittal dated 2/21/2003, 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

Hydrology Plan Checker

Town A. Martin

Development & Bldg. Ser. Division

BLB

C: Certificate of Occupancy Clerk, COA

drainage file approval file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

	6.11/2
PROJECT TITLE: FEDERAL EXPRESS GROUND	ZONE MAP/DRG. FILE #: F-/6/D-22
DRB #:EPC#:	WORK ORDER#:
LEGAL DESCRIPTION: TRACT 3A-3A-2-A RANGISSINCE	= Conter
LEGAL DESCRIPTION: //CAC/ 3/1-6-1/A / ALCIN ADDRESS: /400 / MISSION AVE	
CITY ADDRESS: 1400 ////33/44 / VATIOU / / VIII	
ENGINEERING FIRM: TICKS WEST LLC	CONTACT: Bord Sulle
ENGINEERING FIRM: 7:200 West 120 ADDRESS: 8509 Jetterur ME	PHONE: 353-3/00
CITY, STATE: ALGUEVERDU MM	ZIP CODE: 87/3
OWNER: JONES Pevelopment	CONTACT: BOL GODE
ADDRESS: 4600 Medison Suite 123	PHONE: 4/6-756.5700
CITY, STATE: KANSAS MO	ZIP CODE: 64/12
ماريم مندران	CONTACT:
ARCHITECT: AKT ARchitects	PHONE: 281-9560
ADDRESS: PO Bax 3360	ZIP CODE: 37690
CITY, STATE: 1500-C. MAN	
SUBVEYOR: Precision Surveys	CONTACT: Larry / Mccrawo
SURVEYOR: Precision Surveys ADDRESS 8414 D Jefters	PHONE: 856-5700
CITY, STATE: A Lbugulde, MM	ZIP CODE: 8 7//3
O111, O171 6-1	2/ 11.0 705000
CONTRACTOR: Jaymes Comp.	CONTACT: Phillip Texcurio PHONE: 345-8391
ADDRESS: 2906 Broadway, APE	
CITY, STATE: 1866 - 1900 MAR	ZIP CODE: 37/07
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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

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Planning Department Transportation Development Services Section

January 15, 2003

David Soule, P.E. Tierra West, LLC 8509 Jefferson NE Albuquerque, NM 87113

Re:

Approval of Temporary Certificate of Occupancy (C.O.) for

Federal Express Ground, [F-16 / D-22]

1400/1410 Mission Avenue, NE Engineer's Stamp Dated 01/14/03

Dear Mr. Soule:

Based on the information provided on your submittal dated January 14, 2003, the above referenced project is approved for a 30-day Temporary C.O.

A Temporary C.O. has been issued allowing the outstanding re-seeding at pond area, parking lot striping of the dock and trailer parking area issues 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.

The Certification package for Final C.O. must include an <u>exact</u> 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.

If you have any questions, please call me at 924-3620.

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 SHEET

(REV. 1/11/2002)

PROJECT TITLE:	Federal Express Ground	ZONE M	AP/DRG. FILE #: F-16/D-22				
DRB #: 1000662	EPC #:	WORK	WORK ORDER #:				
LECAL DECODIDATION	- T						
CITY ADDRESS:	Tract 3A-3A-2-A of the Renaissance Center						
CHI ADDRESS.	1400 Mission Avenue, NE 6/2 (4	10 M155	'd~√				
ENGINEERING FIRM:	Tierra West, LLC	CONTAC	T: David Soule				
ADDRESS:	8509 Jefferson NE	PHONE:					
CITY, STATE:	Albuquerque, NM	ZIP COD					
•	 	•					
OWNER:	Jones Development	CONTAC	T: Bob Gude				
ADDRESS:	4600 Madison Suite 725	PHONE:	(816) 756-5700				
CITY, STATE:	Kansas MO 64112	ZIP COD					
ADCUITECT:	A1/T A641-	0011710					
ARCHITECT: ADDRESS:	AKT Architects PO Box 3360	CONTAC					
CITY, STATE:	Albuquerque, NM	PHONE:					
OHI, SIAIE.	Abadaei dae' i i i i i	ZIP COD	E: 87190				
SURVEYOR:	Precision Surveys	CONTAC	T: Larry Medrano				
ADDRESS:	8414-D Jefferson S	PHONE:					
CITY, STATE:	Albuquerque, NM	ZIP COD					
			-				
CONTRACTOR:	Jaynes	CONTAC					
ADDRESS:	2906 Broadway, NE	PHONE:					
CITY, STATE:	Albuquerque, NM	ZIP COD	E: 87107				
DRAINAGE REPORT DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION (HYDROLOGY) TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEER'S CERTIFICATION (TCL) CHECK TYPE OF APPROVAL SOUGHT: SIA / FINANACIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL SIDEV. PLAN FOR SUB'D. APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY (PERM.)							
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	ONFERENCE ATTENDED:						
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DATE SUBMITTED:	1/14/2008 HYDROLOGY S	ECTION	Ronald Wright (259-5635)				

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dranage 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 sumbittal may be required based on the following:

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- 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.

8509 Jefferson NE Albuquerque, NM 87113 (505) 858-3100 fax (505) 858-1118 twllc@tierrawestllc.com 1-800-245-3102

January 14, 2003

Mrs. Terri Martin
Public Works Department
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

RE: 30-Day Temporary Certification of Transportation for Certificate of Occupancy

Fed Ex Ground, Tract 3A-3-A-1-2 North Renaissance Center

1400 Mission Avenue, NE

1410

Dear Terri:

We are requesting a 30-Day Temporary Certification of Transportation for Certificate of Occupancy. Enclosed please find one copy of the as-built Traffic Circulation Plan (Site Plan) and Information Sheet for the Fed Ex Ground Distribution Center located in North Renaissance Center. Jaynes Corporation completed the on-site paving, curb and gutter, and sidewalks. Landscaping for the site is complete with the exception of re-seeding at the pond area. The purpose of this request is to allow Fex Ex personnel access to the building for installation of their sorting equipment. Parking lot striping is complete with the exception of the dock and trailer parking areas. As-built information was field verified by our office. We are, therefore, requesting 30-Day Temporary Certification of Transportation for Certificate of Occupancy. Final Certification is anticipated within two weeks.

If you have any questions regarding this matter, please do not hesitate to call me.

1/CENSED

JAN 1 4 2003

HYDROLOGY SECTION

Enclosures

CC:

Bob Gude Phillip Tenorio

JN: 220025W

DS/rw

Sincerely,

David Soule, PE

14522

220025 -Temp CO Transportation itr



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 21, 2003

Ronald R. Bohannan, P.E. Tierra West, LLC 8509 Jefferson NE Albuquerque, New Mexico 87113

RE: FEDERAL EXPRESS GROUND

(F-16/D22)

(1400 Mission Ave NE)

CERTIFICATE OF OCCUPANCY APPROVAL-Temporary

ENGINEERS CERTIFICATION DATED 1/17/2003

Dear Mr. Bohannan:

Based on the information provided in your submittal dated 1/17/2003, the above referenced project is approved for a TEMPORARY Certificate of Occupancy.

A Temporary Certificate of Occupancy has been issued for 30 days, allowing the remaining drainage issues to be completed within this time scope.

After the outstanding drainage issues have been addressed, a final submittal of the Engineers Certification will be required for issuance of a Permanent Certificate of Occupancy.

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

Sincerely,

Teresa A. Martin

Hydrology Plan Checker

Development and Building Services Division

Certificate of Occupancy Clerk, COA **B**rainage file Approval file

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/11/2002)

PROJECT TITLE:	Federal Express Ground	ZONE MAP/	DRG. FILE #: F-16/D-22			
DRB #: 1000662	EPC #:	_ WORK ORD	ER #:			
	Tract 3A-3A-2-A of the Renaissance Center	<u> </u>				
CITY ADDRESS:	1400 Mission Avenue, NE		· · · · · · · · · · · · · · · · · · ·			
ENGINEERING FIRM:	Tierra West, LLC	CONTACT:	David Soule			
ADDRESS:	8509 Jefferson NE	PHONE:	(505) 858-3100			
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113			
O11 1, O17 11 E.	7 ubaqao, 14tti					
OWNER:	Jones Development	CONTACT:	Bob Gude			
ADDRESS:	4600 Madison Suite 725	PHONE:	(816) 756-5700			
CITY, STATE:	Kansas MO 64112	ZIP CODE:	64112			
ADOLUTEOT.		00NITA 0T				
ARCHITECT:	AKT Architects	CONTACT:	/EOE) 004 0E00			
ADDRESS:	PO Box 3360	PHONE:	(505) 281-9560			
CITY, STATE:	Albuquerque, NM	_ ZIP CODE:	87190			
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano			
ADDRESS:	8414-D Jefferson S	PHONE:	(505) 856-5700			
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87113			
						
CONTRACTOR:	Jaynes	CONTACT:	Phillip Tenorio			
ADDRESS:	2906 Broadway, NE	_ PHONE:	(505) 345-8591			
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87107			
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DATE SUBMITTED:	1/14/2003	BY:	Ronald Wright (259-5635)			

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dranage 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 sumbittal may be required based on the following:

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CITY OF ALBUQUERQUE



August 15, 2005

Mr. Ron Bohannan, P.E. TIERRA WEST, LLC 8509 Jefferson St. NE Albuquerque, NM 87113

Re: HARRISON BUILDING ADDITION

1420 Mission Avenue NE

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

Engineer's Stamp dated 03/04/2005 (F-16/D20A)

Certification dated 08/22/2005

P.O. Box 1293

Dear Ron:

Albuquerque

Based upon the information provided in your submittal received 08/24/2005, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Sincerely,

New Mexico 87103

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

www.cabq.gov

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

Development and Building Services

Arlene V. Portillo

C:

Phyllis Villanueva

File

PROJECT TITLE:	Harrison Building	ZONE MAP/	DRG. FILE #: F16/D20A
DRB #:	EPC #:	WORK ORD	ER #:
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	Tract 3A-3-A-3, Renissance Center		
CITY ADDRESS:	1420 Mission Avenue		
ENGINEEDING FIDM	Tiome Mest 110	00NIT40T	
			Ronald R. Bohannan
ADDRESS: CITY, STATE:	8509 Jefferson NE	PHONE:	(505) 858-3100
CHI, SIMIE.	Albuquerque, NM	ZIP CODE:	87113
OWNER:	Russ Harrison	CONTACT:	
ADDRESS:	1 (USS IUITISON	PHONE:	
CITY, STATE:		ZIP CODE:	
			
ARCHITECT:	Dekker Perich Sabatini	CONTACT:	Amit Rede
ADDRESS:	6801 Jefferson NE	PHONE:	505-761-9700
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87109
SURVEYOR:	Sandia Land Surveying	CONTACT:	Chris Medina
ADDRESS:	6705 Giselle NE	PHONE:	505-828-0858
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87114
00NTD10T0			
CONTRACTOR:	Summit Construction	CONTACT:	Tony Thomas
ADDRESS: CITY, STATE:	900 Hazeldine SE	PHONE:	505-842-8113
OITT, STATE.	Albuquerque, NM	ZIP CODE:	87106
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DATE SUBMITTED:	8/28/0182005 8/24/05	BY:	Ronald Wright (259-5635)

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 sumbittal may be required based on the following:

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Planning Department Transportation Development Services Section

February 24, 2003

David Soule, PE 8509 Jefferson NE Albuquerque, NM 87113

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Federal Express Ground [F-16/ D22] 3

1400 Mission ave. NE

Engineer Stamp Dated 2/21/03

Dear Mr. Soule:

The TCL letter of certification submitted on February 21, 2003 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,

Richard Dourte, PE

Development and Building Services

Planning Department

c: file

Hydrology file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

	•
	ZONE MAP/DRG. FILE #: F-/6/D-22
FOEDL EXPRESS MOUND	ZONE MAP/DRG. FILE #:
PROJECT TITLE: FEDERAL EXPRESS GNOVAD EPC#:	WORK ORDER#:
DDD #· /000662	
TRACT ZA - Z - A RYNGISSONCE	Center
LEGAL DESCRIPTION: TRACT 3A-3A-2-A RengISSONCE CITY ADDRESS: 1400 MISSION DURING, NE	
CITY ADDRESS:	CONTACT: Buid Sulle
ENGINEERINGFIRM: Tierra West LLC	CONTACT: 358-3/00 PHONE: 358-3/00
ENGINELITING A SUP LETTERWY ME	ZIP CODE: 821/3
CITY, STATE: ALGO SEAPOR MM	ZIP CODE: <u>G7112</u>
_	CONTACT: BOL Gode
OWNER: JONES Pevelopment Sute 725	PHONE: 4/6 - 756 - 5700
011111	ZIP CODE: 64/12
ADDRESS:KANSAS MO	
	CONTACT:
ARCHITECT: AKT ARCHITECTS ARCHITECT: BO BUX 3360	PHONE: 281-9560
	ZIP CODE: 37190
CITY, STATE: 6650 COMPAC, MM	
	CONTACT: Larry / Mcchano
SURVEYOR: Precision Survers SURVEYOR: Precision Survers A 414 - 12 Jefferson	PHONE: 856-5700
	ZIP CODE: 8 7//3
CITY, STATE: 15 Lbs pruger, 1977	
	CONTACT: Phillip Texcario
CONTRACTOR: YATALE ROOMERS . YE	PHONE: 345-859/
ADDRESS:	ZIP CODE:
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8509 Jefferson NE Albuquerque, NM 87113 (505) 858-3100 fax (505) 858-1118 twllc@tierrawestllc.com 1-800-245-3102

February 21, 2003

Mrs. Terri Martin
Public Works Department
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

RE:

Final Certification of Transportation for Certificate of Occupancy Fed Ex Ground, Tract 3A-3-A-1-2 North Renaissance Center

1400 Mission Avenue, NE

Dear Terri:

We are requesting Final Certification of Transportation for Certificate of Occupancy. Enclosed please find one copy of the as-built Traffic Circulation Plan (Site Plan) and Information Sheet for the Fed Ex Ground Distribution Center located in North Renaissance Center. Jaynes Corporation completed the on-site paving, curb and gutter, and sidewalks. Landscaping for the site is complete. Parking lot striping is complete with the exception of the Tractor parking noted on the as-built. It will be striped after the asphalt is sealed. The owner is aware of this item. As-built information was field verified by our office and is in substantial compliance with the approved Site Plan. We are, therefore, requesting Final Certification of Transportation for Certificate of Occupancy.

If you have any questions regarding this matter, please do not hesitate to call me.

Sincerely,

David Soule, PE

Enclosures

CC:

Bob Gude Phillip Tenorio

JN: 220025W

DS/rw

FEB 2 1 2003
PWD/DESIGN REVIEW

220025 -Final Transportation Itr

1



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

June 17, 2002

Ron Bohannan, PE Tierra West LLC 8509 Jefferson NE Albuquerque, NM 87113

Re: FedEx Ground Drainage Report

Engineer's Stamp dated 5-22-02 (F16/D22)

Dear Mr. Bohannan,

Based upon the information provided in your submittal dated 5-23-02, the above referenced report is approved for Site Development Plan for Building Permit action by the DRB and Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. 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 924-3986.

Sincerely,

Bradley L. Bingham, PE

Sr. Engineer, PWD

Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION SHEET

(REV. 1/11/2002)

	\		
PROJECT TITLE: DRB #:	Federal Express Ground EPC #:	ZONE MAP/ WORK ORD	DRG. FILE #: F-16 ER #:
LEGAL DESCRIPTION CITY ADDRESS:	Tract 3A-3A-1,2 of the Renaissance Cen	ter	
ENGINEERING FIRM: ADDRESS: CITY, STATE: OWNER: ADDRESS:	Tierra West, LLC 8509 Jefferson NE Albuquerque, NM Jones Development 4600 Madison Suite 725	CONTACT: PHONE: CONTACT: PHONE:	(505) 858-3100 87113
CITY, STATE: ARCHITECT: ADDRESS: CITY, STATE:	Kansas MO 64112	ZIP CODE: CONTACT: PHONE: ZIP CODE:	64112
SURVEYOR: ADDRESS: CITY, STATE:	Precision Surveys 8414-D Jefferson Street, NE Albuquerque, NM	CONTACT: PHONE: ZIP CODE:	Larry Medrano (505) 856-5700 87113
CONTRACTOR: ADDRESS: CITY, STATE:		CONTACT: PHONE: ZIP CODE:	
X GRADING PLAN	PORT AN GRADING & DRAINAGE PLAN N TROL PLAN ERTIFICATION (HYDROLOGY) ULATION LAYOUT (TCL) ERTIFICATION (TCL) ERTIFICATION (DRB APPR. SITE PLAN)	SIA / FINAN PRELIMINA S. DEV. PL X SECTOR P FINAL PLA FOUNDATI X BUILDING CERTIFICA CERTIFICA CERTIFICA A PAVING PE	
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Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a dranage 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 sumbittal may be required based on the following:

5/22/02

DATE SUBMITTED:

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

BY:

David Soule

- 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.

REVISED DRAINAGE REPORT

for

Federal Express-Ground Tract 3A-3A-1,2 Renaissance Center Albuquerque, New Mexico

Prepared by

Tierra West, LLC 8509 Jefferson Blvd NE Albuquerque, New Mexico 87113

Prepared for Mr. Bob Gude 4600 Madison, Suite 725 Kansas MO 64112 May 2002

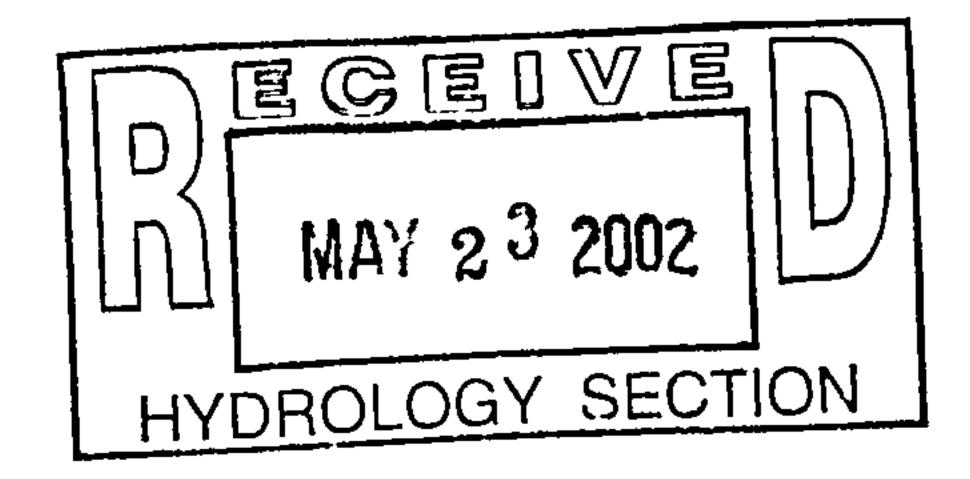


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Vicinity Map	
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Proposed Conditions	F
Onsite Basin Map	6
Summary	7
<u>Appendix</u>	
Site Hydrology	A
Hydraulic Analysis	B
Map Pocket Adjacent Properties Grading Plans Overall Tract 3 Drainage Basin Map	B
Grading and Drainage Plan	C

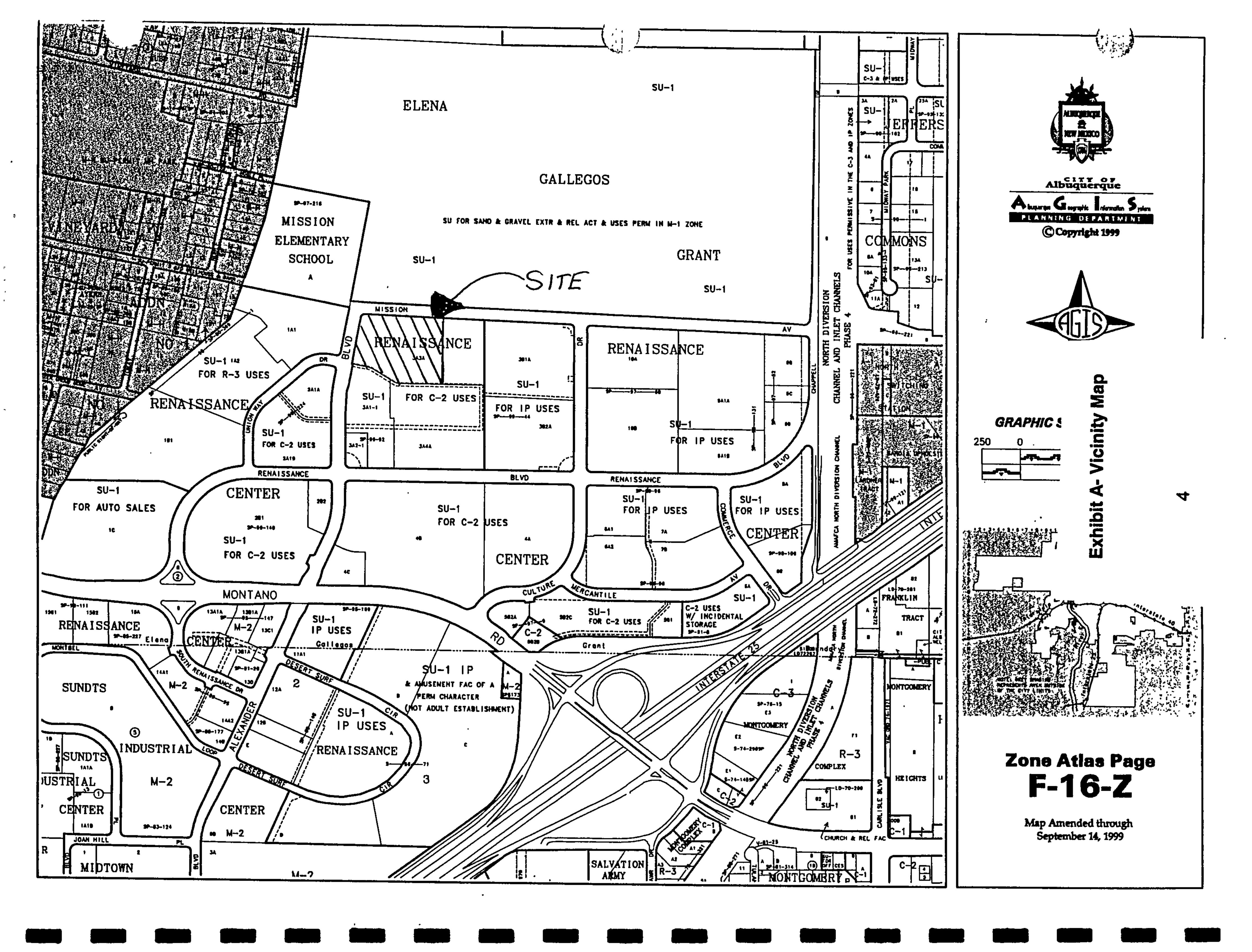
PURPOSE

The purpose of this report is to prove the development of the subject 5.87-acre property, for the use as offices and warehouse, is in accordance with the DPM Chapter 22. This report will demonstrate that the proposed improvements do not adversely effect the surrounding properties nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A vicinity map, is a 5.87-acre parcel of land located on the southeast corner of Mission Boulevard and Alexander Boulevard. The site is located on Zone Atlas page F-16. The site currently exists as a rough graded parcel within the Renaissance Center. The proposed improvements consist of the construction of a 40,097 square foot office/warehouse to be utilized by Federal Express Ground Service. The legal description of the existing property is Lot 3A-3A1 and 3A-3A2 of the North Renaissance Center. As shown on FIRM map 35001C0138D, the site lies within flood zone x.

This entire site was analyzed within the Drainage Report and grading plan for Tract 3 of the Renaissance Center (F19-D20) previously submitted by Tierra West, LLC, with the stamp date of 7/4/98. The City of Albuquerque Hydrology Section approved the Drainage Management Plan on 5/11/98. This site was also previously analyzed by Tierra West, LLC and a drainage report dated November 15,2001. A 6" PVC storm drain was stubbed into future tract 3A3A1 for the benefit of future development. A detention pond is located at the northwest corner of the existing Office Depot, and the General Technology Building to the east discharges their routed flow at the southeast corner of future Tract 3A3A3. Based upon the approved Drainage Management Plan, this site is allowed to discharge .1 CFS per acre in developed conditions. Since our improvements are consistent with developed condition assumptions within the Tract 3 Master Drainage Plan this site should be allowed to discharge .587 CFS to the existing storm drain system.



EXISTING CONDITIONS

The site slopes from north to south, with general grades between 3-4%. The site was rough graded with the construction of the Renaissance Center. During the development of Tract 3-B (Office Depot) a series of temporary detention ponds were constructed around the site. A 6" conduit and a temporary retention pond were constructed at the south edge of Tract 3A3A1. The adjacent Tract 3A-3A3 was recently developed and the flows were diverted and discharged at a rate of .1 CFS per acre. A retention pond was constructed at the midpoint of the southern boundary to collect the undeveloped middle portions of this tract. No offsite flows enter this site from the adjacent properties or rights-of way. Map pocket A contains the grading plans for Tract 3A1 (Office Depot) and Tract 3A-3A (Harrison Building).

PROPOSED CONDITIONS

The proposed improvements consist of the construction of a 40,097 square foot office/warehouse to be utilized by Federal Express Ground Service. These improvements will encompass both Tracts 3A-3A-1 and 3A-3A-2. The building will be located on Tract 3A-3A-2 and tract 3A-3A-1 will be utilized as a ponding area. As shown on the Tract 3 basin map (map pocket B) Tract 3A3A1 and 3A-3A-2 is located within Basin 15,12 and 16. From the Overall Drainage Master plan basin 15 is allowed to discharge .354 CFS. The proposed grading plan will divert all of the onsite flow to a detention pond located at the southwest corner of the site. A copy of the proposed grading plan is located within map pocket C. Since this outlet pipe is existing and was sized to accommodate the flows from overall basin 15 only, our overall site discharge will be limited to .354 CFS.

As shown on the Onsite Drainage Basin Map (Exhibit B) the site is broken into 16 drainage basins. Basins B1-I drain to open grated manholes and are conveyed via underground conduit to the proposed detention pond. Basin A1-A5, J and K drains via surface flow to the same

detention pond. As shown in appendix B, the grated inlet, underground conduits and rundowns have been sized to accommodate the predicted peak discharge for a 100-year, 6-hour storm event. The detention pond will have a 3" orifice plate installed at the outlet to restrict the flow to 0.324 CFS. This pond has been sized to contain the entire volume that would be produced by a 100-year, 24-hour storm event. The analysis of the pond geometry and function is included within Appendix B. The flow leaving Tract 3A3A1 discharges via the existing 6" pipe, which is connected to the existing storm, drain system. The existing storm drain located at the northeast corner of the existing Office Depot captures the access roadway discharge. In a storm event greater than the predicted 100-year storm, all pond will overflow and spill to the adjacent roadways.

SUMMARY AND RECOMMENDATIONS

This site is an existing parcel within the Renaissance Center. The City of Albuquerque Hydrology Section approved the drainage management plan for the entire Tract 3, which our site is a portion of. The master drainage plan allows for a peak discharge rate of 0.1 CFS per acre for the fully developed condition. Since we are including the entire site within basin 15, we are limiting our discharge to the allowable discharge of this basin. The proposed improvements will discharge a peak flow less than the allowed rate. The development of this site is consistent with the DPM, Chapter 22, Hydrology section. Since this site encompasses more than 5 acres, a NPDES permit is required prior to any construction activity. No improvements are to occur within City right of way; therefore an infrastructure list is not required. It is recommended this development be approved for rough grading, and Site Plan for Building Permit.

APPENDIX A SITE HYDROLOGY

Weighted E Method

											100-	Year, 6-hour St	orm
Basin	Area	Area	Trea	Treatment A	Trea	Freatment B	Treatme	ent C	3e.1⊥	reatment D	Waidhtad ⊑ I	F Volume Flow	Flow
	(sq. ft)	(acres)	%	(acres)	%	M 1	%	9	%	(acras)	(#2°4)	(20.4)	NOW.
A1	39338	0.90	0%	0	15.0%	0.135	25.0%	0 22577	20 0% 20 0%	0.549	1 520	(ac-11)	
A2	2308	0.05	0%	0	0.0%	0 000	5.0%	0 00085	05.0%	0.050	1.000	2.1.0	0.29
Α3	2201	20.05				200	2.00	0.000	\top	0.000	176.1	0.008	c
2	1677	0.00	0%	c	0.0%	0.000	5.0%	0.00263	95.0%	0.050	1.921	0.008	0 :
Α4	2482	0.06	0%	0	0.0%	0.000	5.0%	0.00285	95.0%	0.054	1.921	0.009	0
A5	1536	0.04	0%	0	0.0%	000.0	5.0%	0.00176	95.0%	0.033	1.921	0.006	
B1	3932	0.09	0%	0	5.0%	0.005	10.0%	0.00903	85.0%	0.077	1 807	0.014	
В	7337	0.17	0%	0	0.0%	0.000	10.0%	0.01684	90.0%	0.152	1.872	960.0	
C	7814	0.18	0%	0	0.0%	0.000	10.0%	0.01794	90.0%	0.161	1.872	0.028	0
ם	8407	0.19	0%	0	0.0%	0.000	10.0%	0.0193	90.0%	0.174	1.872	0.030	
E	1663	0.04	0%	0	10.0%	0.004	20.0%	0.00764	70.0%	0.027	1.644	0.005	o
T	2945	0.07	0%	0	10.0%	700.0	25.0%	0.0169	65.0%	0.044	1.595	0.009	واد
G	3103	0.07	0%	0	5.0%	0.004	10.0%	0.00712	85.0%	0.061	1.807	0.011	 واد
ェ	4194	0.10	0%	0	0.0%	0.000	10.0%	0.00963	90.0%	0.087	1.872	0.015	اد
_	3930	0.09	0%	0	0.0%	000.0	10.0%	0.00902	90.0%	0.081	1.872	0.014	0
ے	74343	1.71	0%	0	15.0%	0.256	20.0%	0.34134	65.0%	1.109	1.579	0.225	6 6
~	71998	1.65	0%	0	40.0%	0.661	50.0%	0.82642	10.0%	0.165	0.960	0.132	4.44
TOTAL		5.46		0.000		1.071		1.517		2.867		0.656	19.056

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where

0.53	Qa=	1.56
0.78	Qb=	2.28
1.13	Qc=	3.14
2.12	Qd=	4.70

These equations and values taken from the Alb. DPM Section 22 (Hydrology)

The values utilized are for area 2 which lies between San Mateo and the Rio Grande., The same Isopluvials are shown in this area of Los Lunas

Volumes for 100-year, 24-hour storms

Hydraulic quantities for strucures

Structure	Contributing Basin		
AP1	B1+B+C+D+E+F+G+H	=	3.75 CFS
AP2	B1+B+C+D+E+F+G	=	3.35 CFS
AP3	B1+B+C+D+E	=	2.80 CFS
CHANNEL 1	A2	=	0.23 CFS
CHANNEL 2	A3	=	0.23 CFS
CHANNEL 3	A4	=	0.24 CFS
CHANNEL 4	A5	=	0.15 CFS
CHANNEL 5	A2+A3+A4+A5+A1	=	4.14 CFS
CHANNEL 6	A2+A3+A4+A5+A1+J	=	10.86 CFS

APPENDIX B HYDRAULIC ANALYSIS

VOLUME CALCULATIONS

FEDERAL EXPRESS GROUND POND

Ab - Bottom Of The Pond Surface Area

At - Top Of The Pond Surface Area

D - Water Depth

Dt - Total Pond Depth

C - Change In Surface Area / Water Depth

Volume = Ab * D + 0.5 * C * D²

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

$$Ab = 15,429.00$$

$$At = 20,919.00$$

$$Dt = 2.00$$

$$C = 2745.00$$

EPTH	VOLUME	Q
(FT)	(AC-FT)	(CFS)
0	0	0.0000
0.5	0.1771	0.1447

ACTUAL	DEPTH	VOLUME	Q
ELEV.	(FT)	(AC-FT)	(CFS)
37	0	0	0.0000
37.50	0.5	0.1771	0.1447
38.00	1	0.3621	0.2211
38.50	1.5	0.5628	0.2772
39.00	2	0.7793	0.3236

Orifice Equation

$$Q = CA SQR$$

0.6 Diameter (in)

Area $(ft^2) = 0.04908739$ 32.2 g =

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

Q(CFS)=Flow

Weir Equation:

$$C = 2.75$$

Channel # 1 (24" wide)

$$Q_{max} = 2.75(2)(.5) = 1.94 \text{ cfs}$$

$$Q req = .23 cfs$$

Channel # 2 (24" wide)

$$Q_{max} = 2.75(2)(.5) = 1.94 cfs$$

Channel # 3 (24" wide)

$$Q_{\text{max}} = 2.75(2)(.5) = 1.94 \text{ cfs}$$

$$Q req = .24 cfs$$

Channel # 4 (24" wide)

$$Q_{max} = 2.75(2)(.5) = 1.94 cfs$$

Channel # 5 (5' wide)

$$Q_{max} = 2.75(5)(.5) = 4.86 \text{ cfs}$$

 $Q_{req} = 4.14 \text{ cfs}$

$$O_{reo}=4.14$$
 cfs

Channel # 6 (8' wide)

$$Q_{max} = 2.75(8)(.67) = 1.94 \text{ cfs}$$

$$Q req = 12.06 cfs$$

Pipe Capacity

Pipe	D	Slope	Area	R	Q Provided	Q Required	Velocity
	(in)	(%)	(ft^2)		(cfs)	(cfs)	(ft/s)
AP1	18	0.5	1.77	0.375	3.87	3.75	2.12
AP2	18	0.5	1.77	0.375	3.87	3.35	1.90
AP3	18	0.5	1.77	0.375	3.87	2.80	1.58

Manning's Equation:

 $Q = 1.49/n * A * R^{2/3} * S^{1/2}$

A = Area

R = D/4

S = Slope

n = 0.025

MAP POCKET A ADJOINING PROPERTY GRADING PLANS

MAP POCKET B TRACT 3 BASIN MAP

MAP POCKET C TRACT 3A3A-1, 2 GRADING PLAN