City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: The 14 East City Drainage #: K13/D50

DRB#: 1006507 & 1006509 EPC#: Work Order#: 719482

Legal Description: Lot 17-A-P2, 18-A-P2, 19-A-P2, 20-A-P2, & Lot 20-B-P2, 14th & Coal Subdivision, Unit 1

City Address: Northeast corner of 14th Street & Coal Avenue

Engineering Firm: Tierra West, LLC Contact: Ronald R. Bohannan

Address: 5571 Midway Park Place, Albuquerque, NM

Phone#: 858-3100 Fax#: E-mail: rrb@tierrawestllc.com

Owner: UR 14 Coal, LLC Contact: David Silverman

Address: 6211 San Mateo Blvd. NE, Suite 130

Phone#: 294-8625 Fax#: E-mail: david.silverman@geltmore.com

Architect: Anderson/Kim Architecture+Urban Design Contact: David Kim

Address: 234 West Third Street, Suite D, Chico, CA 95928-9424

Phone#: 530-892-9197 Fax#: E-mail: dkim@andersonkim.com

Surveyor: Precision Surveys Contact: Larry Medrano

Address: 5571 Midway Park Place

Phone#: 856-5700 Fax#: E-mail: presurv@presurv.com

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

- ___ DRAINAGE REPORT
- ___ DRAINAGE PLAN 1st SUBMITTAL
- X DRAINAGE PLAN RESUBMITTAL
- ___ CONCEPTUAL G & D PLAN
- ___ GRADING PLAN
- ___ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ___ ENGINEER'S CERT (HYDROLOGY)
- ___ CLOMR/LOMR
- ___ TRAFFIC CIRCULATION LAYOUT (TCL)
- ___ ENGINEER'S CERT (TCL)
- ___ ENGINEER'S CERT (DRB SITE PLAN)
- ___ ENGINEER'S CERT (ESC)
- ___ SO-19
- ___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ___ SIA/FINANCIAL GUARANTEE RELEASE
- ___ PRELIMINARY PLAT APPROVAL
- ___ S. DEV. PLAN FOR SUB'D APPROVAL
- ___ S. DEV. FOR BLDG. PERMIT APPROVAL
- ___ SECTOR PLAN APPROVAL
- ___ FINAL PLAT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY (PERM)
- ___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- ___ FOUNDATION PERMIT APPROVAL
- X BUILDING PERMIT APPROVAL
- X GRADING PERMIT APPROVAL
- ___ PAVING PERMIT APPROVAL
- ___ WORK ORDER APPROVAL
- ___ GRADING CERTIFICATION
- ___ SO-19 APPROVAL
- ___ ESC PERMIT APPROVAL
- ___ ESC CERT. ACCEPTANCE
- ___ OTHER (SPECIFY)

RECEIVED
JAN 15 2014
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: X Yes ___ No ___ Copy Provided

DATE SUBMITTED: January 14, 2014 By: Jonathan D. Niski

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

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 subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

January 17, 2014

Ronald R. Bohannan, P.E.
Tierra West, LLC
5571 Midway Park Pl NE
Albuquerque, NM 87109

Re: The 14 East
Grading and Drainage Plan
Engineer's Stamp Date 1-15-2014 (K13/D050)

Dear Mr. Bohannan,

Based upon the information provided in your submittal January 15, 2014, the above referenced plan is approved for Work Order and Building Permit based on the following condition:

- Show more spot elevations along the alley to assure the runoff and gates/entrances are not being blocked with the proposed alley improvements. Show all the existing improvements.

Please attach a copy of this approved grading plan to the Building Permit set and the Work Order Construction plan sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Alley construction work should be completed. Engineer Certification per the DPM checklist is also required.

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

Sincerely,

Shahab Biazar, P.E.
Principal Engineer, Planning Dept.
Development Review Services

C: e-mail

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

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Phone#: 530-892-9197 Fax#: E-mail: dkim@andersonkim.com

Surveyor: Precision Surveys Contact: Larry Medrano

Address: 5571 Midway Park Place

Phone#: 856-5700 Fax#: E-mail: presurv@presurv.com

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

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___ DRAINAGE PLAN RESUBMITTAL
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___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

$50.00

RECEIVED
DEC 06 2013
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: X Yes ___ No X Copy Provided

DATE SUBMITTED: December 5, 2013 By: Jonathan D. Niski

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

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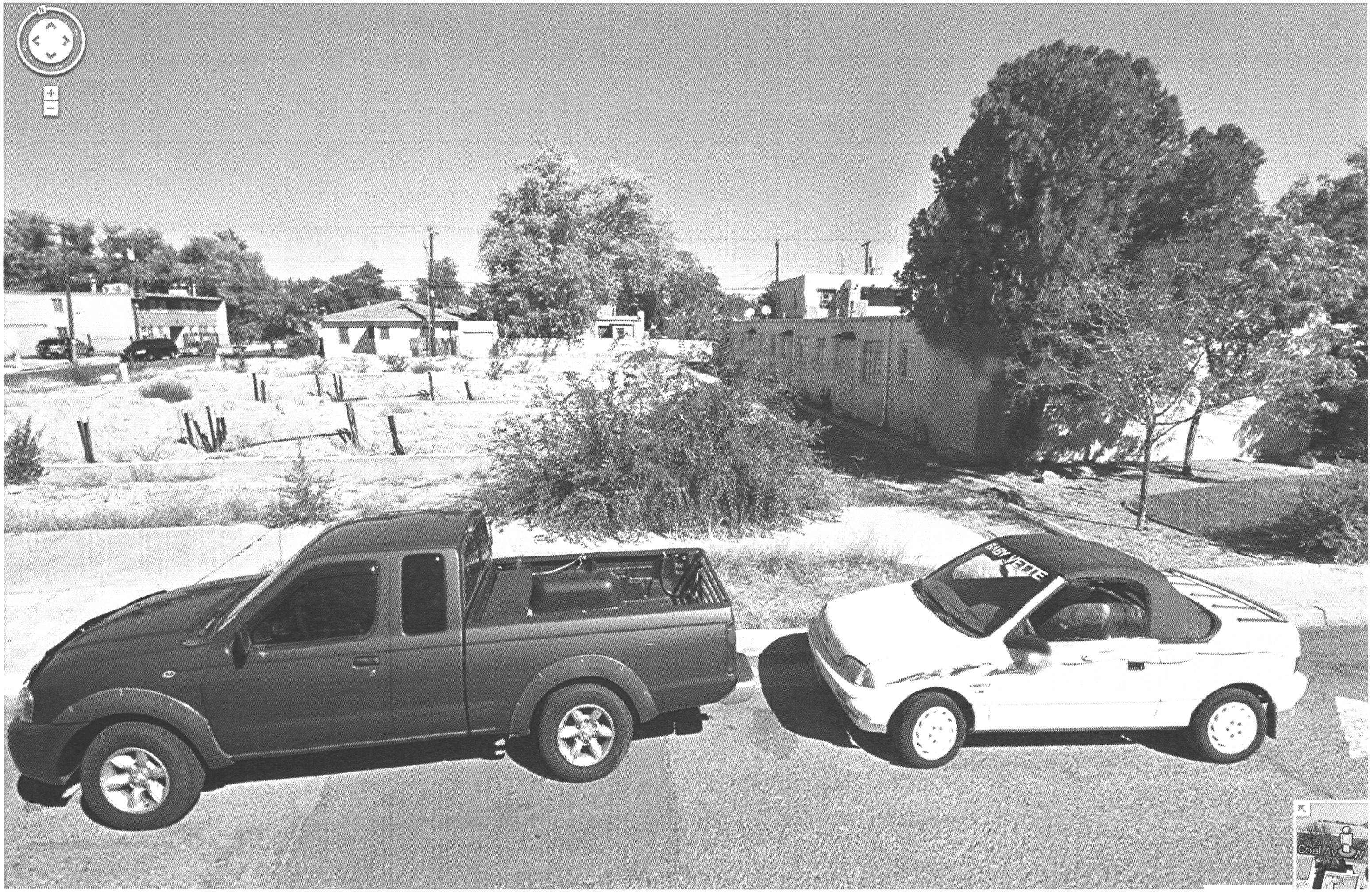
BABY VETTE
Coal Av
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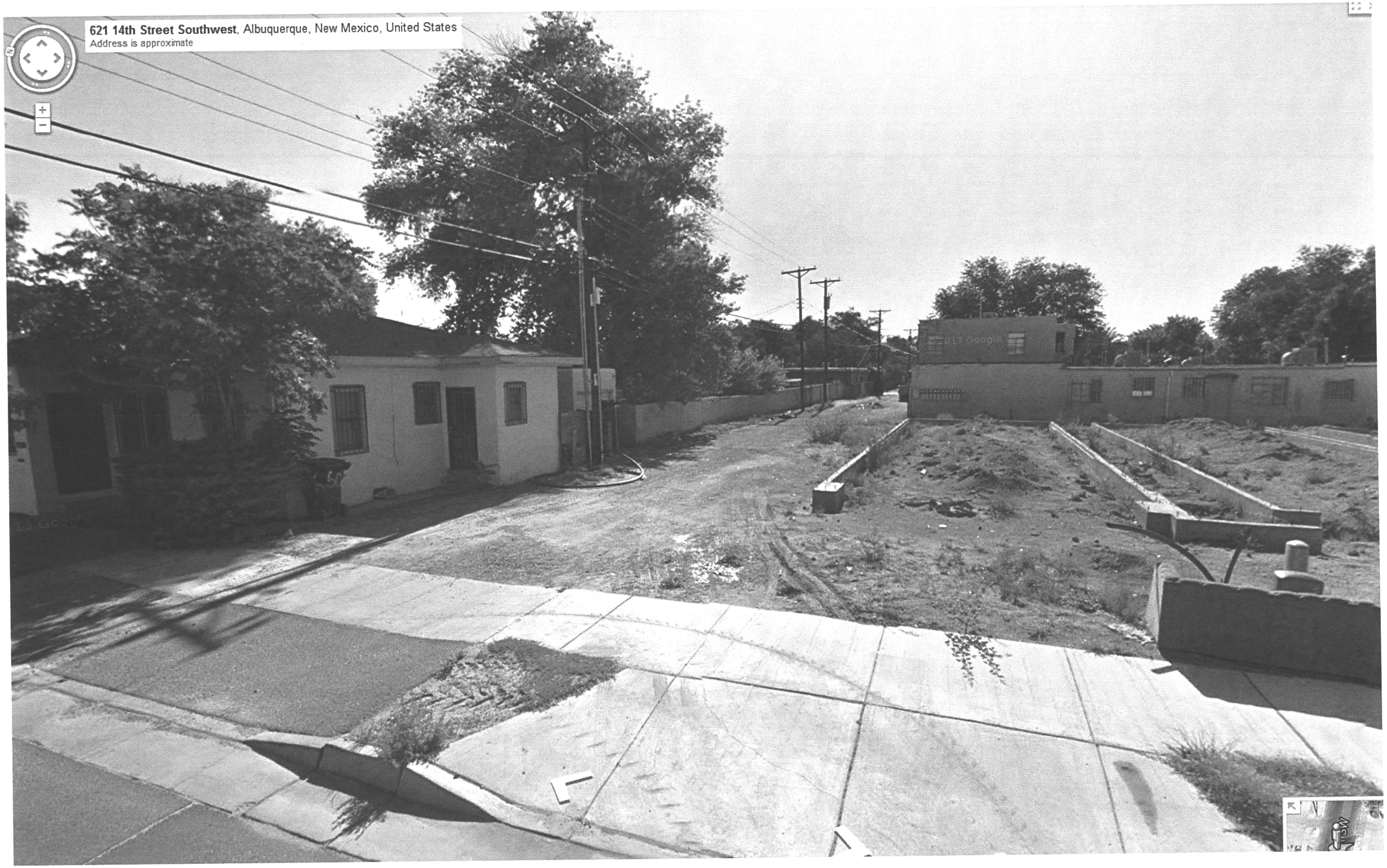

621 14th Street Southwest, Albuquerque, New Mexico, United States
Address is approximate

Biazar, Shahab

From: Biazar, Shahab
Sent: Friday, January 10, 2014 4:27 PM
To: "Jon Niski' (JNiski@tierrawestllc.com)'
Cc: Sims, Timothy E.
Subject: Hydrology comment and markup for The 14th East (K13/D50)
Attachments: K13D050_shahab_markups_2014JAN10.pdf

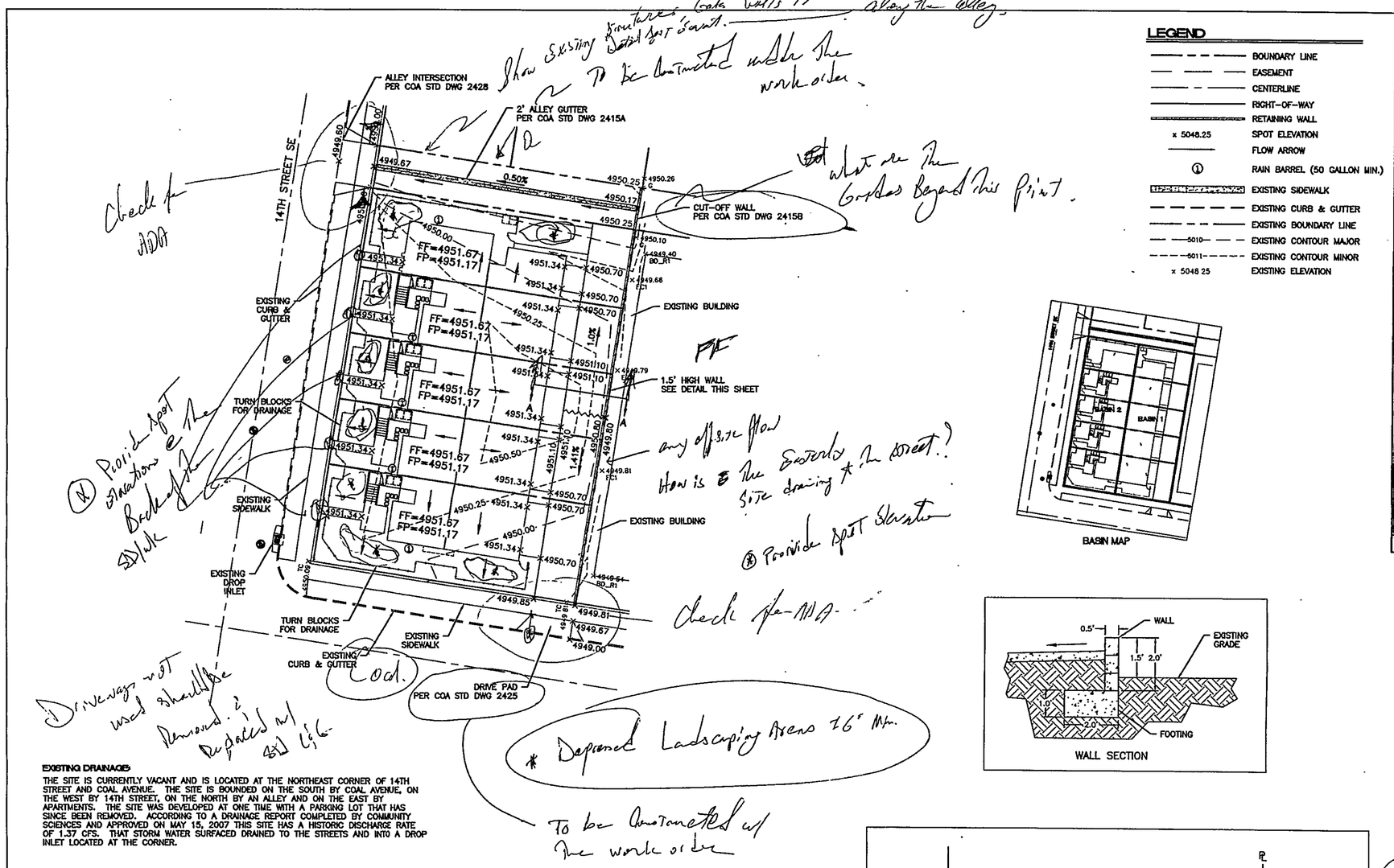
Hi,

Attached please find markups for the grading and drainage plan for The 14th East (K13/D050)

_ Depress all the landscaping areas where possible (6" min.).
_ All the driveway not used should be removed and replace with standard curb and gutter.
_ Provide additional spot elevations along the existing sidewalk on 14th Street to assure ADA requirement are met were new connections are being proposed from the new buildings. Also check the ADA grades at the proposed driveways.
_ Include the Coal Street name on the Plan and provide a City Bench Mark.
_ Show more spot elevations along the alley to assure the runoff and gates/entrances are not being blocked with the proposed alley improvements. Show all the existing improvements.
_ How does the alley drain to the east (Show additional elevations to the east).
_ Is there any offsite runoff from the east. There are roof gutters from the existing buildings that drain to the west.
_ Fix Section A-A.
_ All the removal and replacement of the existing driveways, new driveways/sidewalks, and Alley improvements should be constructed under the City Work order.

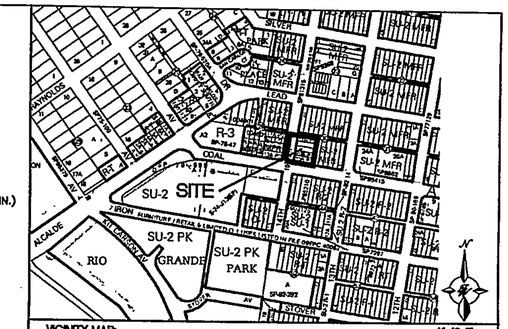
Thanks and have a weekend.

Shahab Biazar, P.E.
Principal Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864

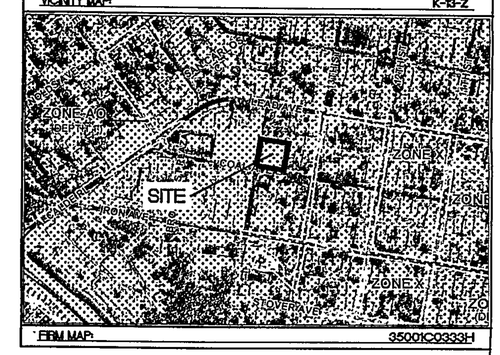


LEGEND

	BOUNDARY LINE
	EASEMENT
	CENTERLINE
	RIGHT-OF-WAY
	RETAINING WALL
x 5048.25	SPOT ELEVATION
	FLOW ARROW
①	RAIN BARREL (50 GALLON MIN.)
	EXISTING SIDEWALK
	EXISTING CURB & GUTTER
	EXISTING BOUNDARY LINE
5010	EXISTING CONTOUR MAJOR
5011	EXISTING CONTOUR MINOR
x 5048.25	EXISTING ELEVATION



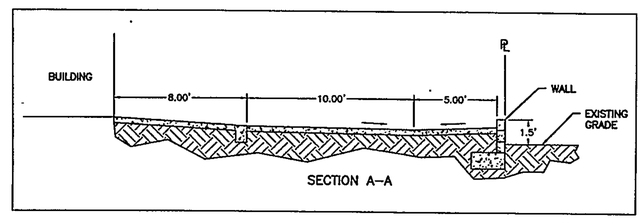
VICINITY MAP: K-13-Z



FIRM MAP: 35001C0333H

BASIN MAP

WALL SECTION



SECTION A–A

City BM

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LAND DEVELOPMENT SECTION

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY..
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

EXISTING DRAINAGE

THE SITE IS CURRENTLY VACANT AND IS LOCATED AT THE NORTHEAST CORNER OF 14TH STREET AND COAL AVENUE. THE SITE IS BOUNDED ON THE SOUTH BY COAL AVENUE, ON THE WEST BY 14TH STREET, ON THE NORTH BY AN ALLEY AND ON THE EAST BY APARTMENTS. THE SITE WAS DEVELOPED AT ONE TIME WITH A PARKING LOT THAT HAS SINCE BEEN REMOVED. ACCORDING TO A DRAINAGE REPORT COMPLETED BY COMMUNITY SCIENCES AND APPROVED ON MAY 15, 2007 THIS SITE HAS A HISTORIC DISCHARGE RATE OF 1.37 CFS. THAT STORM WATER SURFACED DRAINED TO THE STREETS AND INTO A DROP INLET LOCATED AT THE CORNER.

PROPOSED DRAINAGE

THE SITE IS DIVIDED INTO 2 BASINS. BASIN 1 DRAINS TO COAL AVENUE AND THE ALLEY, BASIN 2 DRAINS TO 14TH STREET. THE STORM WATER FOLLOWS THE SAME PATH AS IT DOES HISTORICALLY AND FLOWS INTO THE DROP INLET AT THE CORNER. THE TOTAL FLOW DISCHARGED FROM THE SITE IS 1.37 CFS. EACH UNIT WILL HAVE A RAIN BARREL AS SHOWN ON THE PLAN AND WILL CAPTURE ABOUT 50 GALLONS OF STORM WATER TO BE USED FOR IRRIGATION. THE DEVELOPED FLOWS WERE CALCULATED USING THE WEGHTED "E" METHOD AND ARE SHOWN IN THE TABLE BELOW.

The 14 East Weighted E Method

On-Site Basins

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year Weighted E (ac-ft)	100-Year Volume (ac-ft)	100-Year Flow cfs	10-Year Weighted E (ac-ft)	10-Year Volume (ac-ft)	10-Year Flow cfs
1	7,632	0.18	0%	0	25%	0.04	0%	0 00	75%	0.13	1.785	0.026	0.72	1.075	0.016	0.45
2	6,568	0.15	0%	0	15%	0.02	0%	0.00	85%	0.13	1.919	0 024	0.65	1.181	0 015	0.42
													1.37			

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

Excess Precipitation, E (inches)		
Zone 2	100-Year	10 - Year
E_a	0.53	0.13
E_b	0.78	0.28
E_c	1.13	0.52
E_d	2.12	1.34

Peak Discharge (cfs/acre)		
Zone 2	100-Year	10 - Year
Q_a	1.56	0.38
Q_b	2.28	0.95
Q_c	3.14	1.71
Q_d	4.70	3.14

CAUTION: ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

N

ENGINEER'S SEAL

RONALD R. BOHANNAN P.E. #7868

THE 14TH EAST
14TH AND COAL
GRADING AND DRAINAGE PLAN

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505) 858-3100
www.tierrawestllc.com

DRAWN BY	BJF
DATE	11/20/13
	2013044_GRE
SHEET #	C1
JOB #	2013044

2013044
Drainage

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 11-19-13
CONFERENCE RECAP

ZONE ATLAS PAGE NO: K13
DRAINAGE FILE: K13 D055
ZONING:
DRB:
SUBJECT:
STREET ADDRESS (IF KNOWN):
SUBDIVISION NAME:

APPROVAL REQUESTED:

ATTENDANCE: Jon Niski, Curtis Cherne

FINDINGS:

Since the plat, site plan or drainage plan were previously approved as free discharge, the site does not have to meet the 2.75 cfs/ac discharge limit.

Water harvesting is to be shown on the drainage plan to a reasonable extent

THE UNDERSIGNED AGREES THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THEY ARE NOT REASONABLE OR THAT THEY ARE BASED ON INACCURATE INFORMATION.

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED:
NAME (PRINT): Jon Niski

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

RECEIVED
DEC 06 2013
LAND DEVELOPMENT SECTION

CITY OF ALBUQUERQUE

May 15, 2007

Brian L. Speicher, P.E.
Community Sciences Corporation
P.O. Box 1328
Corrales, NM 87048

Re: 14th St and Coal Ave Cribs, Grading and Drainage Plan
Engineer's Stamp dated 5-8-07 (K13/D050)

Dear Mr. Speicher,

Based upon the information provided in your submittal dated 5-8-07, the above referenced plan cannot be approved for Preliminary Plat action by the DRB until the following comments are addressed:

- TEGIS shows an alley along the north side of Lots 17A, 17, 18 and 19 and 20B. The alley is not represented on the Plats or the Grading Plan.
- All lots except for 21b and 17A should have gutters installed and roof drainage should be to the front of the property. This needs to be indicated on the Grading Plan.
- Side yard swales should have a minimum slope of 0.5%.
- The swale cross-section is not referenced.
- Complete all lot lines on the plan.
- Why are two spot elevations provided on the east lots?
- Provide bottom of wall and top of wall elevations for retaining walls.
- Provide flowline elevations along Coal Ave. and 14th St. at drivepads, drop inlets and along Coal Ave.

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

Sincerely,

Curtis A. Cherne

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

C: file
Brad Bingham

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

MAKE FILE

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

ZONE MAP/DRG. FILE #: K-13 / D050
WORK ORDER#: _____

PROJECT TITLE: 14th @ Coal
DRB #: 1005244
EPC#: _____

LEGAL DESCRIPTION: Huning Castle B 29, L13 -19; Raynolds Add B30 L 17-20
CITY ADDRESS: _____

ENGINEERING FIRM: Community Sciences Corporation
ADDRESS: PO Box 1328
CITY, STATE: Corrales, NM
CONTACT: Brian L. Speicher
PHONE: 923-9552
ZIP CODE: 87048

OWNER: K & M Development
ADDRESS: PO Box 7789
CITY, STATE: Albuquerque, NM
CONTACT: Michelle Daskalos
PHONE: 688-7770
ZIP CODE: 87104

ARCHITECT: Wilder Design & Development LLC
ADDRESS: PO Box 7925
CITY, STATE: Albuquerque, NM
CONTACT: Mr. Wilder
PHONE: 306-8238
ZIP CODE: 87194

SURVEYOR: Community Sciences Corporation
ADDRESS: PO 1328
CITY, STATE: Corrales, NM
CONTACT: Tom Patrick
PHONE: 923-9558
ZIP CODE: 87048

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

CHECK TYPE OF SUBMITTAL:

- [x] DRAINAGE REPORT
- [ ] DRAINAGE PLAN 1st SUBMITTAL, ***REQUIRES TCL or equal***
- [x] DRAINAGE PLAN RESUBMITTAL
- [ ] CONCEPTUAL GRADING & DRAINAGE PLAN
- [x] GRADING PLAN
- [x] EROSION CONTROL PLAN
- [ ] ENGINEER'S CERTIFICATION (HYDROLOGY)
- [ ] CLOMR/LOMR
- [ ] TRAFFIC CIRCULATION LAYOUT (TCL)
- [ ] ENGINEERS CERTIFICATION (TCL)
- [ ] ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- [ ] OTHER

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- [ ] CERTIFICATE OF OCCUPANCY (TEMP.)
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- [ ] PAVING PERMIT APPROVAL
- [ ] WORK ORDER APPROVAL
- [ ] OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- [x] YES
- [ ] NO
- [ ] COPY PROVIDED

RECEIVED
MAY 08 2007
HYDROLOGY SECTION

DATE SUBMITTED: May 8, 2007

BY: Brian L. Speicher

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:

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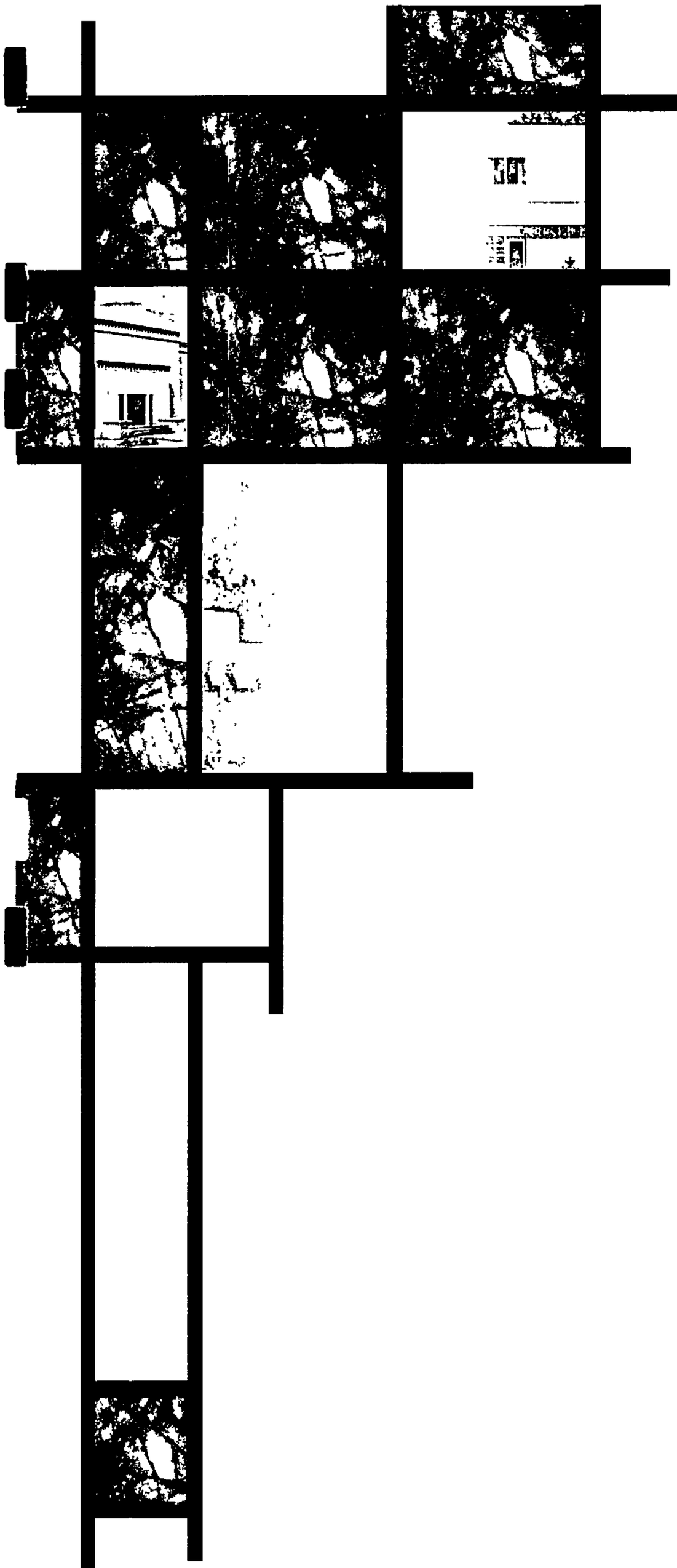

14th @ Coal

Drainage Report

May 2007

Prepared for:

K & M Development
PO Box 7789
Albuquerque, New Mexico 87104
CSC JN 797-02

Prepared By:

Community Sciences Corporation
P.O. Box 1328 / 4481 Corrales Road
Corrales, New Mexico 87048
505/897.0000

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HYDROLOGY SECTION

Brian L. Speicher, P.E.

14TH @ COAL SUBDIVISION
ALBUQUERQUE, NM

K&M Development, Inc.
PO Box 7789
Albuquerque, NM 87104

May 2007

community sciences corporation

Post Office Box 1328 ~ 4481 Corrales Road
Corrales New Mexico 87048
505.897.0000 ~ 505.898.5195 fax
engineering ✧ surveying ✧ land development
www.communitysciences.com

BRIAN L. SPEICHER
NEW MEXICO
7292
LICENSED PROFESSIONAL ENGINEER

BRIAN L. SPEICHER, PE

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GRADING AND DRAINAGE PLAN
PRELIMINARY PLAT
EROSION CONTROL

SITE DESCRIPTION

The proposed subdivision, 14th @ Coal, is comprised of 1.01 acres zoned SU-1 & SU-2 for residential use to be developed southwest of Downtown Albuquerque, at the intersection of Coal Avenue and 14th Street. The site location is shown on the enclosed zone atlas map K-13. The report represents an overall drainage management and conceptual grading plan for approval by the City of Albuquerque in order that the subsequent subdivision and development may proceed. The site is located in a designated Flood Hazard Zone X per FEMA – Firm Map 35001C0333E. Per the USDA Soil Conservation Services (SCS), the soils type for this site is CL by the Unified Soils Classification for 0-12 inches and SM for 12-60 inches. The soils are classified as A-6 (AASHTO) from 0-12 inches and A-2 from 12 to 60 inches.

DESIGN-CRITERIA

The drainage plan presented in this report has been prepared in accordance with the City of Albuquerque Drainage Ordinances and Chapter 22 of the Development Process Manual DPM.

The hydrological analysis is based on the 100-year frequency, 6-hour duration storm, as represented in Section 22, Part A, Hydrology, of the Development Process Manual. Rainfall intensities per this report are as follows:

Zone	P60	P360	P1440
2	2.01	2.35	2.75

LAND TREATMEMNT

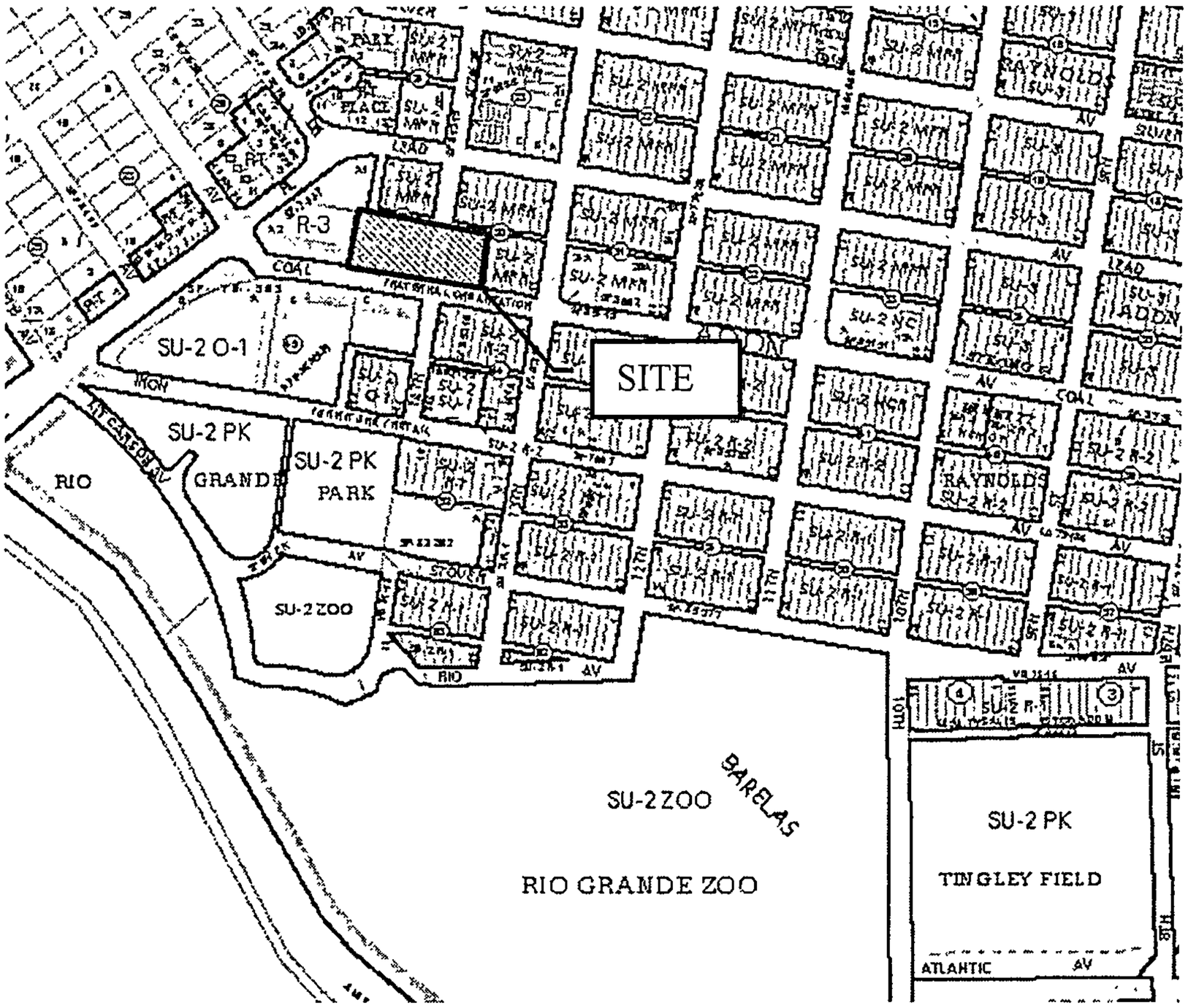
Residential DPM-Equation a-4, pg 22-11

Treatment Type	A	B	C	D
	0%	10%	20%	70%

EXISTING DRAINAGE CONDITIONS

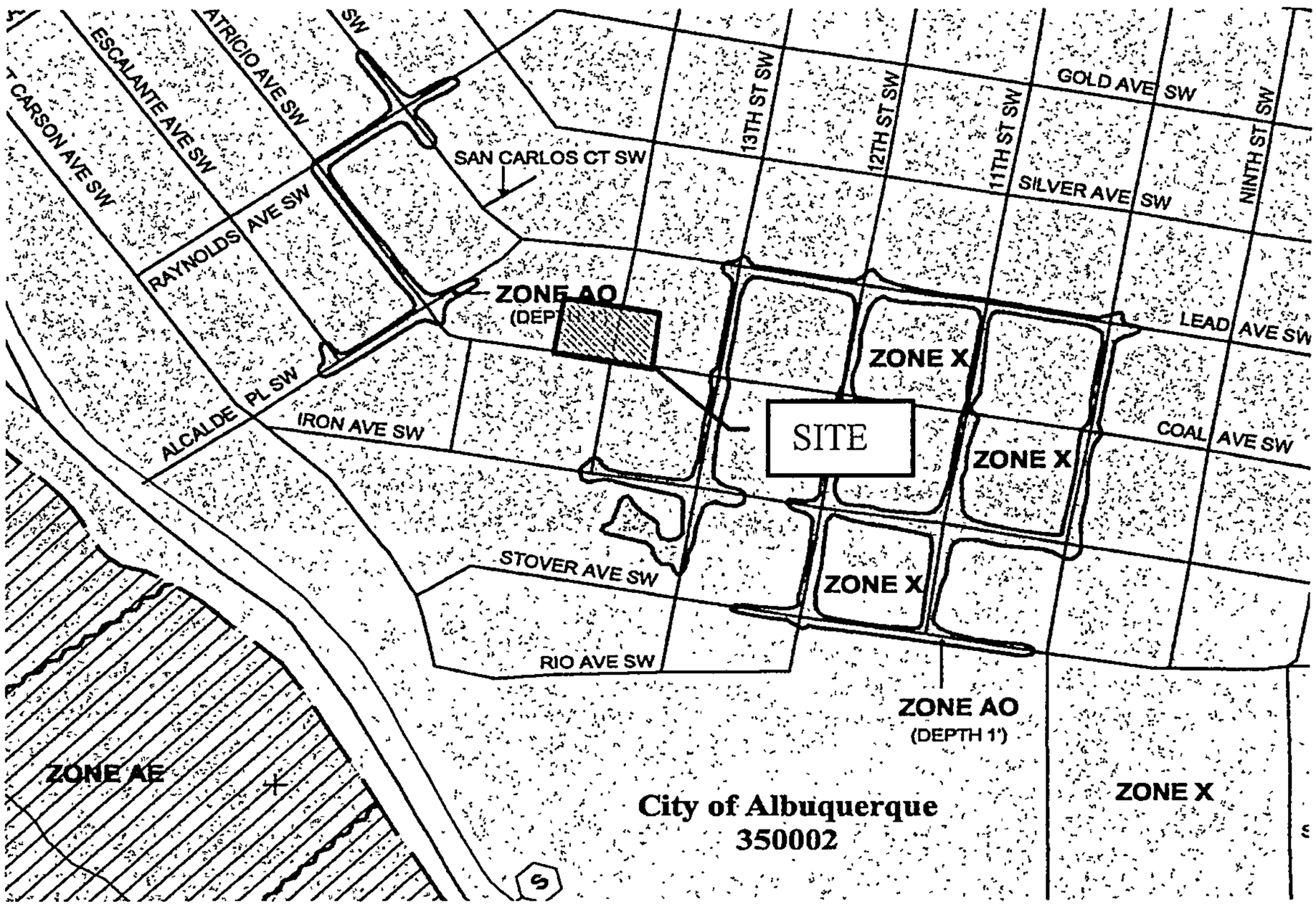
The site is currently developed and some demolition will have to be done in order to clear the site for re-development. It has as virtually flat cross-slope. There is no off site flow entering the site. The site is bisected by 14th Street from north to south and is adjacent to Coal Avenue to the south. The site currently drains to existing drop inlets in 14th Street. An existing run-off of 4.2 CFS was computed.

VICINITY MAP



City of Albuquerque Zone Atlas Page K-13

FEMA MAP



FEMA – Firm Map 35001C0333E

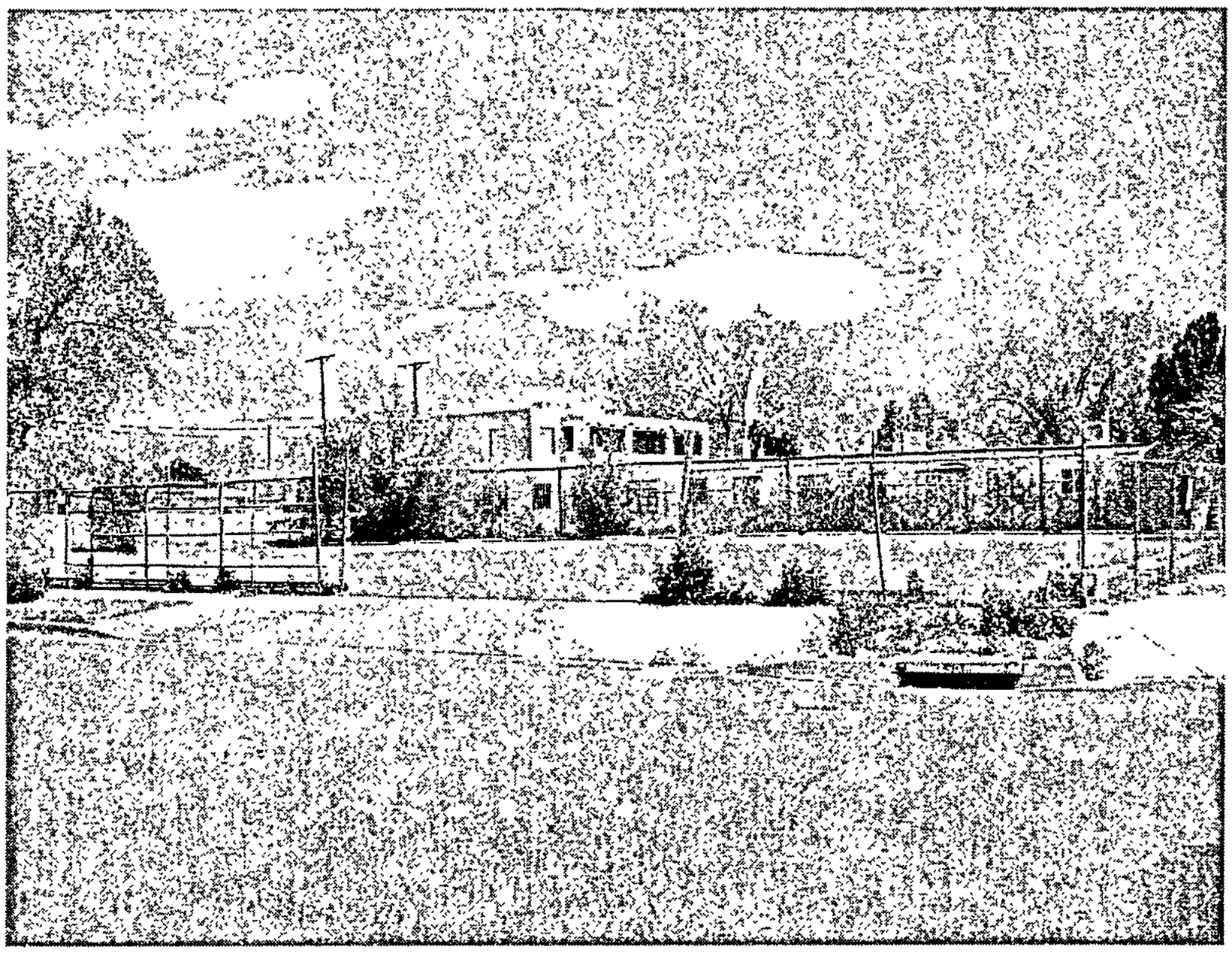
DEVELOPED DRAINAGE CONDITIONS

It is the intent for the developed flows to be surface transported via street sections to the existing type "C" drop inlets in 14th Street. Since the location of these drop inlets is at the bottom of the storm water system it is assumed that the 60" RCP is not flowing full. Therefore, inlet control dictates the flow entering the system. According to the DPM page 22-145 the flow capacity a type "C" inlet with an 8 inch curb is 15 CFS each. The total flow from the re-developed site is 4.2 CFS.

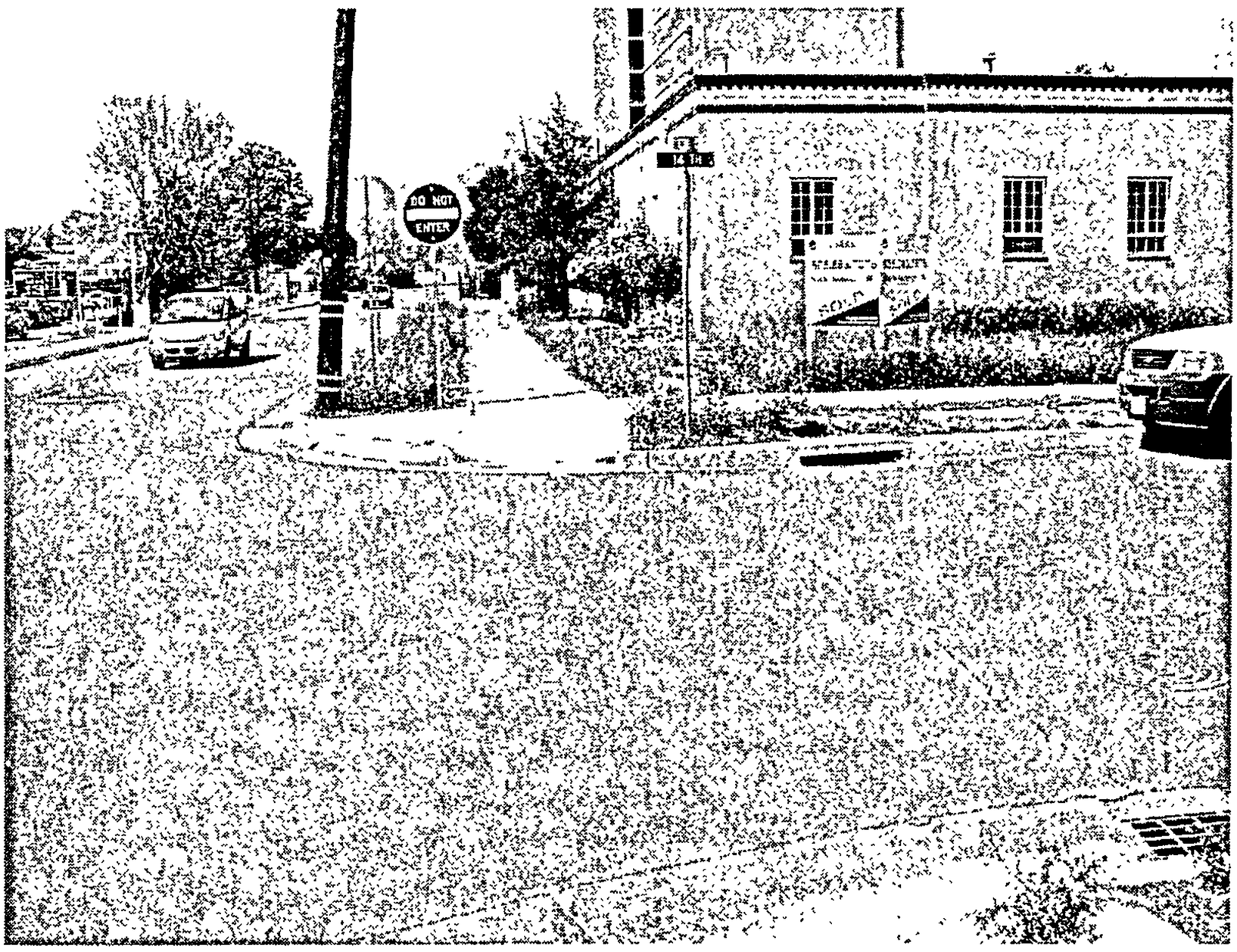
CONCLUSION

Due to the fact this is essentially a "re-development" project, there is no net increase in the area of impervious surface. No adverse impact will result due to developed conditions. Flows and runoff will be directed to the existing drop inlets is the case currently.

SITE PHOTOGRAPHS



Looking east at Block 29 lots.



Looking west at block 30 lots. Existing building to be demonlished.

AHYMO CALCULATIONS

```
*                    ***********************************
*                    *14TH ST & COAL AVE
*                    *100 YEAR ULTIMATE CONDITIONS
*                    ***********************************
START                TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
RAINFALL             TYPE=1 RAIN QUARTER=0.0
                     RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                     RAIN DAY=2.75 IN DT=0.0333 HRS
*                    ***********************************
COMPUTE NM HYD       ID=1 HYD NO=DA1 DA=0.0015786961 SQ MI
                     PER A=0.0 PER B=10.0 PER C=20.0 PER D=70.0
                     TP=-0.1333 HR MASS RAIN=-1
*                    ***********
PRINT HYD            ID=1 CODE=1
*
FINISH
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AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =04/09/2007
INPUT FILE = F:\N797-K&M\02-14th & Coal\CIVIL\030G&D\AHYMO\N797-02-prop.DAT USER NO.= AHYMO-I-9702c01000Q29-AH

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 = 1 NOTATION
START										TIME= .00
RAINFALL TYPE= 1										RAIN6= 2.350
COMPUTE NM HYD	DA1	-	1	.00158	4.20	.150	1.77960	1.499	4.157	PER IMP= 70.00
FINISH										

```
□(s16.67h8.5vOT□&l8D

        AHYMO PROGRAM (AHYMO_97) -                          - Version:  1997.02c
             RUN DATE (MON/DAY/YR) = 04/09/2007
             START TIME (HR:MIN:SEC) = 14:44:00     USER NO.= AHYMO-I-9702c01000Q29-AH
             INPUT FILE = F:\N797-K~1\02-14T~1\CIVIL\030G&D~1\AHYMO\N797-0~1.DAT

    *                   ********************************
    *                   *14TH ST & COAL AVE
    *                   *100 YEAR ULTIMATE CONDITIONS
    *                   ********************************
    START               TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
    RAINFALL            TYPE=1 RAIN QUARTER=0.0
                        RAIN ONE=2.01 IN RAIN SIX=2.35 IN
                        RAIN DAY=2.75 IN DT=0.0333 HRS

                COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
                     DT =     .033300 HOURS        END TIME =     5.994000 HOURS
                        .0000   .0016   .0033   .0049   .0066   .0084   .0102
                        .0120   .0139   .0158   .0178   .0198   .0219   .0241
                        .0263   .0285   .0309   .0333   .0358   .0384   .0410
                        .0438   .0467   .0497   .0528   .0561   .0595   .0630
                        .0668   .0708   .0750   .0805   .0864   .0928   .1059
                        .1359   .1822   .2488   .3398   .4596   .6124   .8028
                       1.0352  1.2584  1.3500  1.4271  1.4955  1.5577  1.6150
                       1.6682  1.7178  1.7644  1.8082  1.8495  1.8885  1.9255
                       1.9605  1.9937  2.0252  2.0551  2.0835  2.0912  2.0972
                       2.1030  2.1085  2.1137  2.1188  2.1236  2.1282  2.1327
                       2.1370  2.1412  2.1452  2.1491  2.1529  2.1566  2.1602
                       2.1637  2.1671  2.1704  2.1737  2.1768  2.1799  2.1830
```

```
2.1859  2.1889  2.1917  2.1945  2.1973  2.2000  2.2026
2.2052  2.2078  2.2103  2.2128  2.2152  2.2176  2.2200
2.2223  2.2246  2.2268  2.2291  2.2313  2.2334  2.2356
2.2377  2.2397  2.2418  2.2438  2.2458  2.2478  2.2498
2.2517  2.2536  2.2555  2.2574  2.2592  2.2611  2.2629
2.2647  2.2664  2.2682  2.2699  2.2716  2.2733  2.2750
2.2767  2.2784  2.2800  2.2816  2.2832  2.2848  2.2864
2.2880  2.2895  2.2911  2.2926  2.2941  2.2956  2.2971
2.2986  2.3000  2.3015  2.3029  2.3044  2.3058  2.3072
2.3086  2.3100  2.3113  2.3127  2.3141  2.3154  2.3168
2.3181  2.3194  2.3207  2.3220  2.3233  2.3246  2.3259
2.3271  2.3284  2.3297  2.3309  2.3321  2.3334  2.3346
2.3358  2.3370  2.3382  2.3394  2.3406  2.3418  2.3429
    2.3441  2.3452  2.3464  2.3475  2.3487  2.3498

*                    ***********************************
COMPUTE NM HYD       ID=1 HYD NO=DA1 DA=0.0015786961 SQ MI
                     PER A=0.0 PER B=10.0 PER C=20.0 PER D=70.0
                     TP=-0.1333 HR MASS RAIN=-1

     K =   .072649HR    TP =   .133300HR    K/TP RATIO =   .545000    SHAPE CONSTANT, N = 7.106420
     UNIT PEAK =   4.3629    CFS   UNIT VOLUME =    .9969       B =   526.28      P60 = 2.0100
     AREA =      .001105 SQ MI    IA =    .10000 INCHES    INF =    .04000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .033300


     K =   .115660HR    TP =   .133300HR    K/TP RATIO =   .867666    SHAPE CONSTANT, N =  4.095337
     UNIT PEAK =   1.2843    CFS   UNIT VOLUME =    .9904       B =   361.48      P60 = 2.0100
     AREA =      .000474 SQ MI    IA =    .40000 INCHES    INF =    .97000 INCHES PER HOUR
     RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =   .033300
```

```
*                    ***********
PRINT HYD            ID=1 CODE=1

                                        HYDROGRAPH FROM AREA DA1

    RUNOFF VOLUME =     1.77960 INCHES     =        .1498 ACRE-FEET
    PEAK DISCHARGE RATE =       4.20 CFS  AT   1.499 HOURS   BASIN AREA =   .0016 SQ. MI.


*
FINISH

    NORMAL PROGRAM FINISH          END TIME (HR:MIN:SEC) = 14:44:00
```
(s0p10h4099T&l6D

DRAWINGS

GRADING AND DRAINAGE PLAN

PRELIMINARY PLAT

EROSION CONTROL

2013044
Drainage

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 11-19-13
CONFERENCE RECAP

ZONE ATLAS PAGE NO: K13
DRAINAGE FILE: K13 D050
ZONING:
DRB:
SUBJECT:
STREET ADDRESS (IF KNOWN):
SUBDIVISION NAME:

APPROVAL REQUESTED:

ATTENDANCE: Jon Niski, Curtis Cherne

FINDINGS:

Since the plat, site plan or drainage plan were previously approved as free discharge, the site does not have to meet the 2.75 cfs/ac discharge limit.

Water Harvesting is to be shown on the drainage plan to a reasonable extent

RECEIVED
DEC 06 2013
LAND DEVELOPMENT SECTION

THE UNDERSIGNED AGREES THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THEY ARE NOT REASONABLE OR THAT THEY ARE BASED ON INACCURATE INFORMATION.

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED:
NAME (PRINT): Jon Niski

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 11-19-12
CONFERENCE RECAP

ZONE ATLAS PAGE NO: K13
DRAINAGE FILE: K13 D050
ZONING: _____
DRB:
SUBJECT: _____
STREET ADDRESS (IF KNOWN): _____
SUBDIVISION NAME: _____

APPROVAL REQUESTED:

ATTENDANCE: Jon Niski, Curtis Cherne

FINDINGS:

Since the plat, site plan and drainage plan were previously approved as free discharge, the site does not have to meet the 2.75 cfs/ac discharge limit.

Water Harvesting is to be shown on the drainage plan to a reasonable extent

THE UNDERSIGNED AGREES THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THEY ARE NOT REASONABLE OR THAT THEY ARE BASED ON INACCURATE INFORMATION.

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED:
NAME (PRINT): Jon Niski

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

CITY OF ALBUQUERQUE

March 26, 2008

Brian L. Speicher, P.E.
Community Sciences Corp.
PO Box 1328
Corrales, NM 87048

RE: 14th & Coal Subdivision, (K-13/D050)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 06/01/2007
Engineers Certification dated 03/19/2008

Mr. Speicher:

Based upon the information provided in your Engineer's Certification submittal dated 03/24/2008, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

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

Sincerely,

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

C: Marilyn Maldonado, COA# 719482
File

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 01/06)

PROJECT TITLE: 14th @ COAL SUBDIVISION ZONE MAP/DRG. FILE # K-13 / D050
DRB#: 1006507/1006509 EPC#: _____ WORK ORDER#: 719482

LEGAL DESCRIPTION: 14th + Coal Subdivision, Units 1 & 2
CITY ADDRESS: _____

ENGINEERING FIRM: Community Sciences Corporation CONTACT: Brian L. Speicher, PE
ADDRESS: PO Box 1328, 4481 Corrales Road PHONE: 923-9552
CITY, STATE: Corrales, NM ZIP CODE: 87048

OWNER: K & M Development CONTACT: Michelle Daskalos
ADDRESS: PO 7789 PHONE: 688-7770
CITY, STATE: Albuquerque, NM ZIP CODE: 87102

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

SURVEYOR: Community Sciences Corporation CONTACT: Thomas W. Patrick, PS
ADDRESS: PO Box 1328, 4481 Corrales Road PHONE: 897-0000
CITY, STATE: Corrales, NM ZIP CODE: 87048

Thomas W Patrick	NMPS 12651	3·21·2008
PROFESSIONAL LICENSED SURVEYOR SIGNATURE	**LICENSE NO.**	**DATE**

CONTRACTOR: HydroSystems, Inc. CONTACT: Mike Smith ADDRESS: 6151 Hanover Rd NW PHONE: 839-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87121 - 1276

TYPE OF SUBMITTAL:
_____ DRAINAGE REPORT
_____ DRAINAGE PLAN 1st SUBMITTAL
_____ DRAINAGE PLAN RESUBMITTAL
_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
XXX ENGINEER'S CERT (HYDROLOGY)
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT
_____ ENGINEER/ARCHITECT CERT (TCL)
_____ ENGINEER/ARCHITECT (DRB SITE PLAN)
_____ OTHER

CHECK TYPE OF APPROVAL SOUGHT:
XXX SIA/FINANCIAL GUARANTEE RELEASE
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ S. DEV. FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY (PERM)
_____ CERTIFICATE OF OCCUPANCY (TEMP)
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ OTHER (SPECIFY)

RECEIVED
MAR 24 2008
HYDROLOGY SECTION

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

SUBMITTED BY: Brian L. Speicher DATE: March 24, 2008

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.

community sciences corporation

P.O. Box 1328
Corrales, New Mexico 87048
Tel: (505) 897-0000 Fax: (505) 898-5195

3900 East Camelback Road, Suite 611
Phoenix, Arizona 85018
Tel: (602) 955-7097 Fax: (602) 955-7169

P. O. Box 1328
Corrales, NM 87048

March 21, 2008

City of Albuquerque
Hydrology Development Section
600 2nd St., NW
Albuquerque, NM

Attn: Mr. Brad Bingham, PE

Re: 14th + Coal – Drainage Certification
COA Project 719482 (DRB 1006507/1006509)

Dear Mr. Bingham:

On behalf of our client, K & M Development, Community Sciences Corporation (CSC) respectfully submits the attached for certification of the grading and drainage plan. The site work has been completed in substantial compliance with the approved plan dated 6/01/07. The identified walls will be constructed in conjunction with the building permit. Final grading of the identified drainage paths conveying flow to the street will also be required prior to an occupancy permit. The site is currently graded to accommodate the desired flow paths.

Should you require any further information, please advise.

Sincerely,

Brian L. Speicher, PE
Vice-President of Engineering

Xc: f/N797-02

CSC# N352-06-001-30
CSC# N741-02-001-70

DEVELOPMENT CONSULTING
ENGINEERING AND SURVEYING
LOCAL GOVERNMENT SERVICES
COMPREHENSIVE LAND PLANNING
LAND DEVELOPMENT IMPLEMENTATION

CITY OF ALBUQUERQUE

N797-02-001.60

June 4, 2007

RECEIVED
JUN - 6 2007

Brian L. Speicher, P.E.
Community Sciences Corporation
P.O. Box 1328
Corrales, NM 87048

Re: 14th St and Coal Subdivision, Grading and Drainage Plan

Engineer's Stamp dated 6-1-07 (K13/D050)

Dear Mr. Speicher,

Based upon the information provided in your submittal dated 6-1-07, the above referenced plan is approved for Preliminary Plat action by the DRB.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. You are required to send a copy of your SWPPP on a CD to following address:

Department of Municipal Development
Storm Drainage Division
P.O. Box 1293, One Civic Plaza, Rm. 301
Albuquerque, NM 87103

If you have any question concerning the SWPPP, please contact Kathy Verhage 768-3654.

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

Sincerely,

Curtis A. Cherne

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

C: file
Brad Bingham

CFS
BLS

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

CITY OF ALBUQUERQUE

June 4, 2007

Brian L. Speicher, P.E.
Community Sciences Corporation
P.O. Box 1328
Corrales, NM 87048

Re: 14th St and Coal Subdivision, Grading and Drainage Plan

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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

C: file
Brad Bingham

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

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: 14th @ Coal
DRB #: 1005244 EPC#:_____

ZONE MAP/DRG. FILE #: K-13 /D050
WORK ORDER#:_____

LEGAL DESCRIPTION: Huning Castle B 29, L13 -19; Raynolds Add B30 L 17-20
CITY ADDRESS:_____

ENGINEERING FIRM: Community Sciences Corporation
ADDRESS: PO Box 1328
CITY, STATE: Corrales, NM

CONTACT: Brian L. Speicher
PHONE: 923-9552
ZIP CODE: 87048

OWNER: K & M Development
ADDRESS: PO Box 7789
CITY, STATE: Albuquerque, NM

CONTACT: Michelle Daskalos
PHONE: 688-7770
ZIP CODE: 87104

ARCHITECT: Wilder Design & Development LLC
ADDRESS: PO Box 7925
CITY, STATE: Albuquerque, NM

CONTACT: Mr. Wilder
PHONE: 306-8238
ZIP CODE: 87194

SURVEYOR: Community Sciences Corporation
ADDRESS: PO 1328
CITY, STATE: Corrales, NM

CONTACT: Tom Patrick
PHONE: 923-9558
ZIP CODE: 87048

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
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)
- ☐ 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
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

RECEIVED
JUN 01 2007
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: ~~May 8, 2007~~ June 1, 2007

BY: Brian L. Speicher

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:

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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.

OWES $140.00 6/1/07

community sciences corporation

P.O. Box 1328
Corrales, NM 87048

May 30, 2006

Mr. Curtis A. Cherne, E.I.
City of Albuquerque
600 2nd Street NW
Albuquerque, NM 87102

Re: 14th + Coal Subdivision, Grading and Drainage Plan, Engineer's Stamp dated 5-8-07 (K13/D050)

Dear Mr. Cherne,

The comments regarding the 14th + Coal Subdivision have been addressed as follows:

- The Alley to the north of the subdivision has been shown on the plan.
- A note has been added regarding the gutters that should be installed and on which lots.
- The side yard swales have been annotated with their respective slopes.
- The swale cross-section has been referenced.
- The two spot elevations represented top and bottom of wall elevations. The points have been revised for clarification.
- Top and bottom of wall elevations have been provided.
- Flow line elevations have been provided.

If you have any further questions or comments please feel free to contact me at the number listed below. Thank you for your time.

Sincerely,

Rodrigo Eichwald, E.I.
Project Engineer
505-923-9560

cc: K&M Development

RECEIVED
JUN 01 2007
HYDROLOGY SECTION

F:\N797 - K & M\02 - 14th & Coal\Reports\Comment Response Drainage Report.doc

DEVELOPMENT CONSULTING
ENGINEERING AND SURVEYING
LOCAL GOVERNMENT SERVICES
COMPREHENSIVE LAND PLANNING
LAND DEVELOPMENT IMPLEMENTATION

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CITY OF ALBUQUERQUE

N797.02.001.30

May 15, 2007

Brian L. Speicher, P.E.
Community Sciences Corporation
P.O. Box 1328
Corrales, NM 87048

RECEIVED
MAY 17 2007

Re: 14th St and Coal Ave Cribs, Grading and Drainage Plan
Engineer's Stamp dated 5-8-07 (K13/D050)

Dear Mr. Speicher,

Based upon the information provided in your submittal dated 5-8-07, the above referenced plan cannot be approved for Preliminary Plat action by the DRB until the following comments are addressed:

- TEGIS shows an alley along the north side of Lots 17A, 17, 18 and 19 and 20B. The alley is not represented on the Plats or the Grading Plan.
- All lots except for 21b and 17A should have gutters installed and roof drainage should be to the front of the property. This needs to be indicated on the Grading Plan.
- Side yard swales should have a minimum slope of 0.5%.
- The swale cross-section is not referenced.
- Complete all lot lines on the plan.
- Why are two spot elevations provided on the east lots?
- Provide bottom of wall and top of wall elevations for retaining walls.
- Provide flowline elevations along Coal Ave. and 14th St. at drivepads, drop inlets and along Coal Ave.

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

Sincerely,

Curtis A. Cherne

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

C: file
Brad Bingham

RECEIVED
JUN 01 2007
HYDROLOGY SECTION

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