



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: \_\_\_\_\_ Building Permit #: \_\_\_\_\_ City Drainage #: \_\_\_\_\_

DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ Work Order#: \_\_\_\_\_

Legal Description: \_\_\_\_\_

City Address: \_\_\_\_\_

**Engineering Firm:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Owner:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Architect:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Surveyor:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Contractor:** \_\_\_\_\_ Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone#: \_\_\_\_\_ Fax#: \_\_\_\_\_ E-mail: \_\_\_\_\_

### TYPE OF SUBMITTAL:

- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ DRAINAGE PLAN 1st SUBMITTAL
- \_\_\_\_\_ 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
- \_\_\_\_\_ BUILDING PERMIT APPROVAL
- \_\_\_\_\_ GRADING PERMIT APPROVAL
- \_\_\_\_\_ PAVING PERMIT APPROVAL
- \_\_\_\_\_ WORK ORDER APPROVAL
- \_\_\_\_\_ GRADING CERTIFICATION
- \_\_\_\_\_ SO-19 APPROVAL
- \_\_\_\_\_ ESC PERMIT APPROVAL
- \_\_\_\_\_ ESC CERT. ACCEPTANCE
- \_\_\_\_\_ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Copy Provided

DATE SUBMITTED: \_\_\_\_\_ By: \_\_\_\_\_

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



Weighted E Method  
LOT 7A RAYNOLDS ADDITION

Existing Developed Basins									
Basin	Area (sf)	Area (acres)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
EXISTING	4970	0.114	0%	100.0%	0.114	0.0%	0.000	0.780	0.007
PROPOSED	4970	0.114	0%	50.0%	0.057	15.0%	0.01711	35%	0.040
INCREASE	0	0.000	0%	0	-0.057	0.017	45%	0.040	1.302
								0.012	0.37
								0.005	0.111

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 for 100-year, 6-hour storm (zone 2)

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

Qa= 1.57  
Qb= 2.28  
Qc= 3.14  
Qd= 4.7

BIO SWALE-HARVEST VOLUME  
AREA OF PIPE= 785'  
AREA OF GRANULAR FILL=2.25SF

30% VOIDS

785 CF/LF  
.675 CF/LF  
1.46 CF/LF

LENGTH OF SWALE

50 LF

73 CF

NARRATIVE

THIS IS A REDEVELOPMENT OF AN INFILL LOT. THIS LOT WAS FULLY DEVELOPED IN THE PAST THE PROPOSED DEVELOPMENT IS LOW DENSITY AND WE ARE PROPOSED TO PROVIDE A FREE DISCHARGE. WE WILL RETAIN IN EXCESS OF THE REQUIRED FIRST FLUSH VOLUME WITH A BIOSWALE AND HARVEST GALLERY.

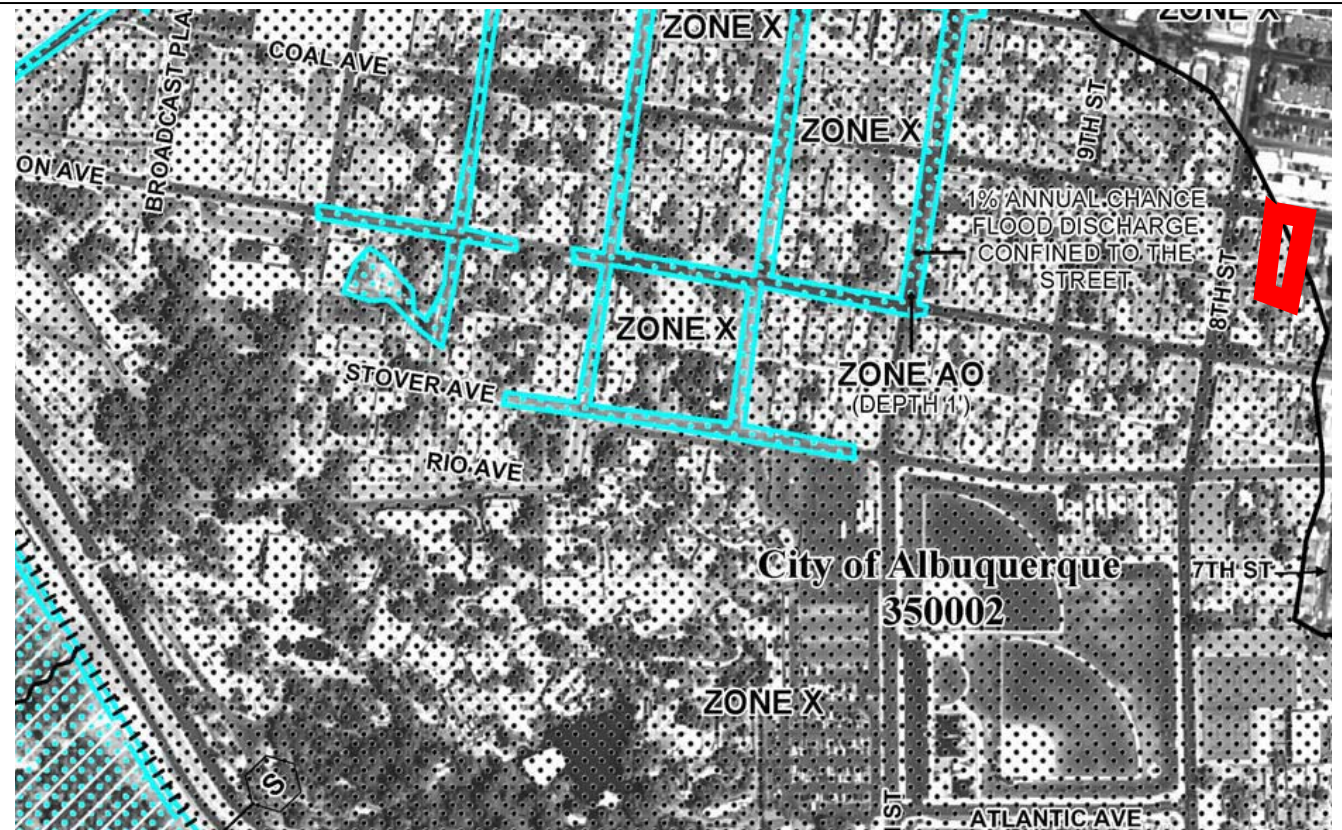
FIRST FLUSH VOLUME= 49 CF  
VOLUME 73 CF

EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

LEGAL DESCRIPTION:

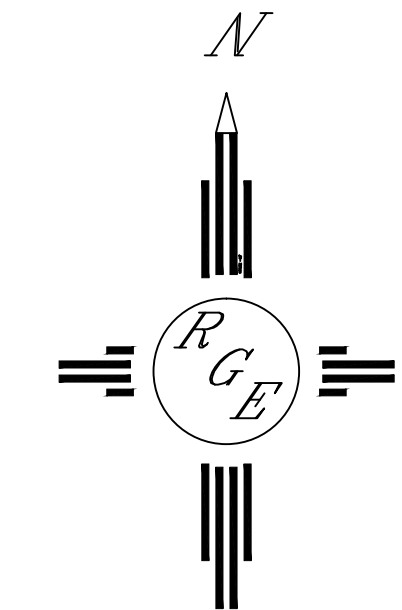
LOT 7-A RAYNOLDS ADDITION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHY AND SURVEY DATA SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID P ACOSTA PLS 21082 MAY 2015

LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- EXISTMH CMU WALL
- SWALE-FLOWLINE



GRAPHIC SCALE

SCALE: 1"=10'

COAL AVE SW

50' L/F BIO-SWALE  
WATER HARVEST  
GALLERY  
SEE DETAIL THIS SHEET

EXISTING CMU WALL

18" wide x 2' deep trench filled with crushed angular  
rock 3/4-2" average size, install 12" hdpe perforated  
pipe. trench lined with filter fabric all sides

ACS CONTROL STATION  
G\_K13  
N 1485023.666  
E 1515142.466  
Z 4959.622  
NAD 1983  
NAVD 1988  
NEW MEXICO STATE PLANE  
CENTRAL ZONE  
G-G= 0.999685  
DELTA-ALPHA= -00°14'26.38"



Existing Developed Basins												
Basin	Area (a)	Area (acres)	100-Year, 6-hr.				Weighted (ac-ft)	Volume (ac-ft)	Flow cfs			
			Treatment A	Treatment B	Treatment C	Treatment D						
		% (acres)	% (acres)	% (acres)	% (acres)	% (acres)						
EXISTING	4970	0.114	0%	100.0%	0.114	0.0%	0	0%	0.000	0.780	0.007	0.26
PROPOSED	4970	0.114	0%	36.0%	-0.041	15.0%	0.01711	52%	0.059	1.553	0.015	0.43
INCREASE	0	0.000	0%	0	-0.073	0.017	45%	0.059	0.059	0.007	0.07	0.166

NARRATIVE

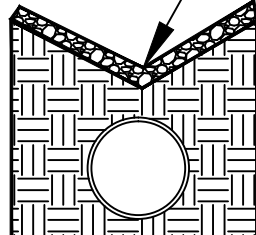
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BIO SWALE-HARVEST VOLUME	
AREA OF PIPE=	785
AREA OF GRANULAR FILL=	2.25 30%VOIDS
TOTAL	
50 LF	73 CF

EXISTING CMU WALL

50' L/F BIO-SWALE  
WATER HARVEST  
GALLERY  
SEE DETAIL THIS SHEET

18" wide x 2' deep trench filled with crushed angular rock 3/4-2" average size, install 12" hdpe perforated pipe. trench lined with filter fabric all sides

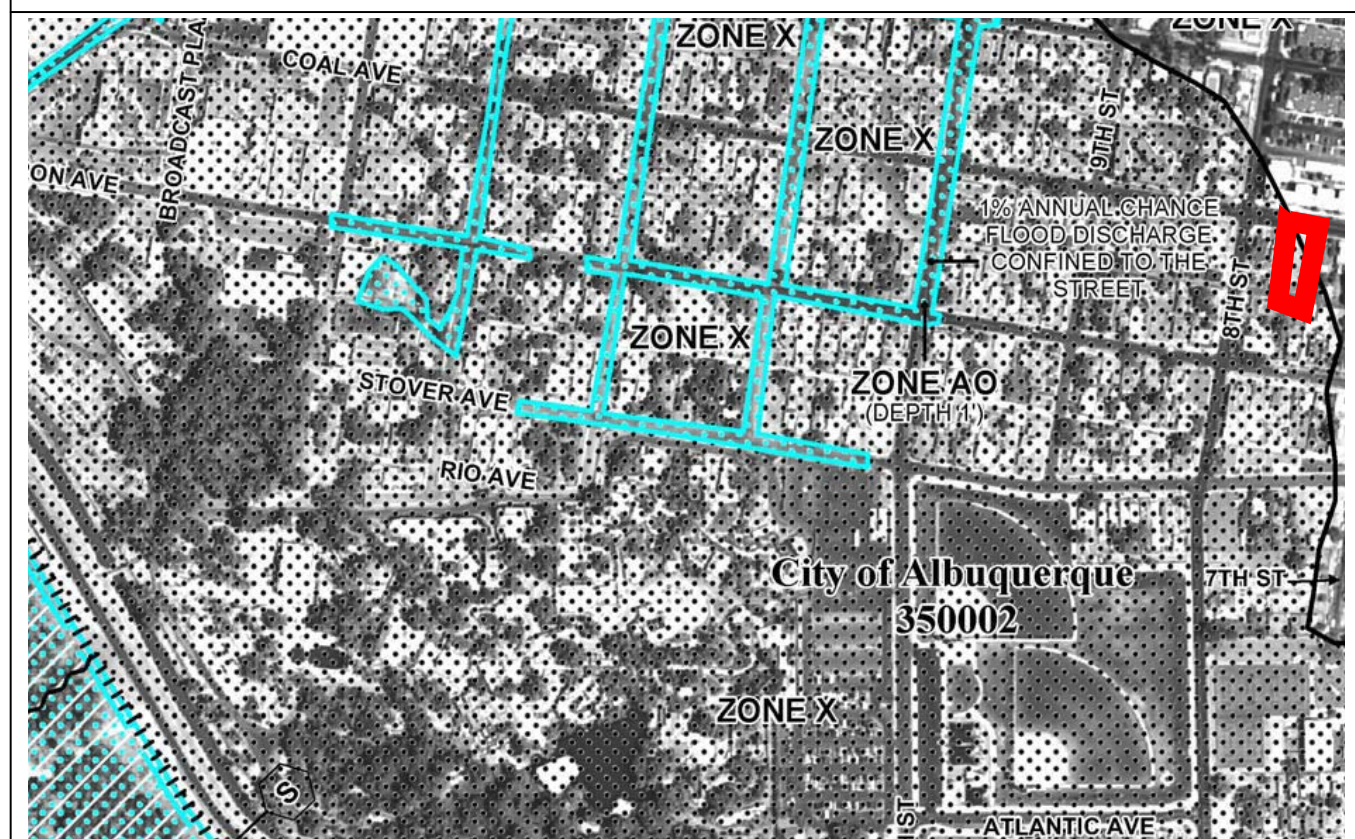


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LEGAL DESCRIPTION:

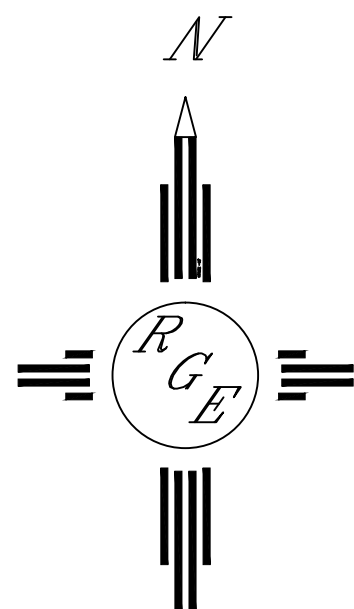
LOT 8-A RAYNOLDS ADDITION

NOTES:

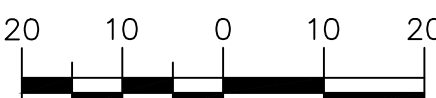
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## LEGEND


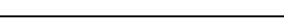
- 
- - - - -5411- - - - - EXISTING CONTOUR  
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 ▨▨▨▨▨ EXISTMH CMU WALL  
 ≡ SWALE—FLOWLINE



GRAPHIC SCALE



SCALE: 1"=10'

ENGINEER'S SEAL	LOT 8-A RAYNOLD ADDITION	DRAWN BY JDC
	GRADING AND DRAINAGE PLAN	DATE 05-20-2015
5/27/15	 <div style="text-align: center;"> <i>Rio Grande Engineering</i>          1606 CENTRAL AVENUE SE          SUITE 207          ALBUQUERQUE, NM 87106          (505) 872-0989       </div>	SHEET #  1 OF 1
DAVID SOULE P.E. #14522		JOB #



# CITY OF ALBUQUERQUE

June 16, 2015



David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

**RE: Raynold Addition  
Lot 7-A And 8-A Coal Ave NW  
Grading and Drainage Plan  
Engineers Stamp Date 5/27/14 (K13D73)**

Dear Mr. Soule,

Based upon the information provided in your submittal received 5/27/15, this plan cannot be approved for Grading Permit and Building Permit until the following comments are addressed.

- Provide build notes on the G&D plan.
- Provide duplexes on one sheet or provide two different submittals.
- Provide a narrative or build notes for the duplexes.
- Provide existing and proposed contours.
- Provide roof flows. We want to make sure all flows are directed away from the homes.
- Provide the purpose of the perforated pipe in the swale. Are roof drains connected to this pipe?
- How are the flows leaving the site/s? Are flows entering the site from the alley?
- Show that the requirement of retaining the first 6hr storm or the 2.75 cfs/acre is being met for the valley.

PO Box 1293

Albuquerque

New Mexico 87103

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Rita Harmon, P.E.  
Senior Engineer, Hydrology  
Planning Department

RR/RH  
C: File