

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



December 2, 2014

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

Richard J. Berry, Mayor

**RE: A Class Mega Storage
Grading and Drainage Plan
Engineers Stamp Date 11/5/14 (F15D52B)**

Dear Mr. Soule:

Based upon the information provided in your submittal received 11-20-14, the above referenced plan is approved for Building Permit.

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

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

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf: via Email: Recipient, Monica Ortiz



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

November 17, 2014

Ms. Rita Harmon
Hydrology Department
Public Works Department
City of Albuquerque

**RE: Revised Grading Plan (F-15D22B)
Lot 6A North Second Street Business Center
Albuquerque, New Mexico**

Dear Ms. Harmon:

The purpose of this letter is to accompany the enclosed grading plan for formerly lots 5 and 6 of the North Second Street Business Center. The grading plan for this site has been revised to address your written comments dated 10/23/14. The following is a summary of your comment and the narrative as to how we addressed

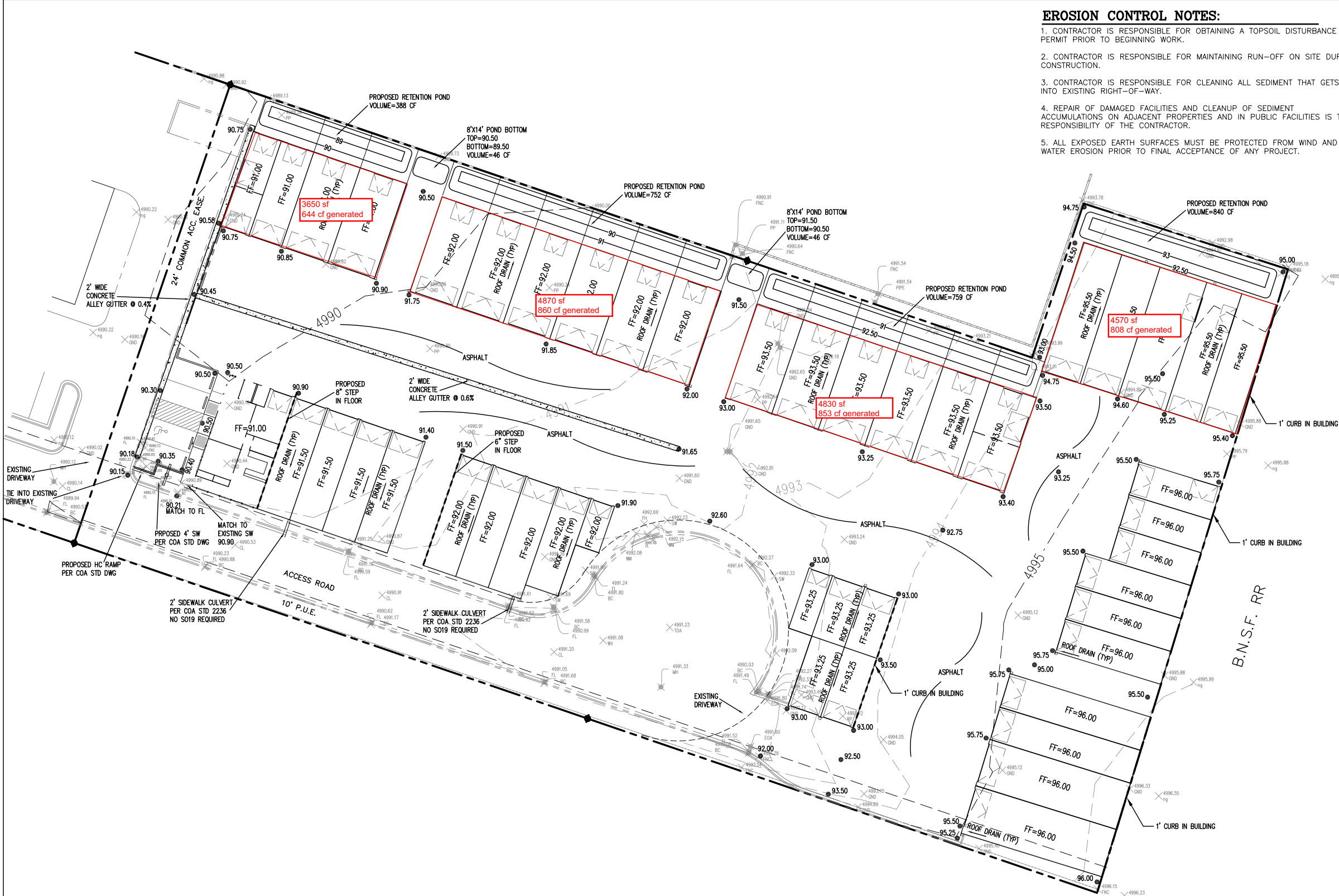
1. Show contributing basin volumes to rear ponds
We have attached a basin map and calculation sheet
2. Show the ponds are hydraulically connected
We have added spots to better show how the pond discharge
3. adjust alley gutter so it flows
We have revised the location and elevation of the gutter. We are matching an existing site that is extremely flat so we must keep the alley gutter flat to accommodate existing grades.
4. show benchmark
We have added the benchmark

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

Sincerely,

David Soule, PE
RIO GRANDE ENGINEERING
PO Box 93924
ALBUQUERQUE, NM 87199
321-9099

Enclosures

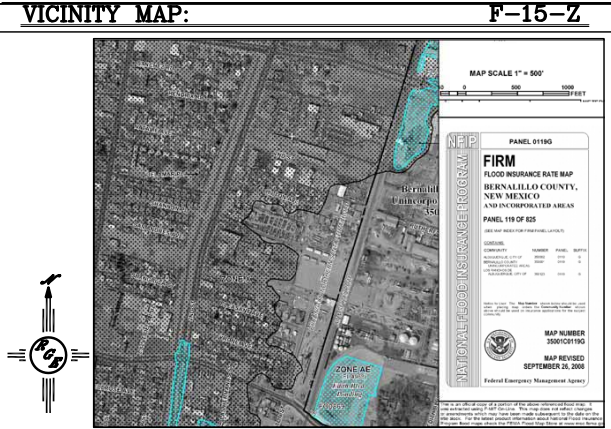
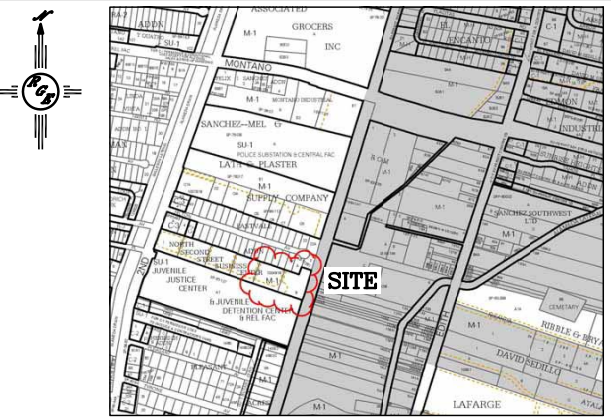


CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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 ACCEPTANCE OF ANY PROJECT.



FIRM MAP: 35001C0119G

LEGAL DESCRIPTION:

LEGAL DESCRIPTION:
LOTS NUMBERED FIVE (5) AND SIX (6) OF NORTH SECOND STREET BUSINESS CENTER, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME ARE SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON MARCH 12, 2008 AS MAP BOOK 2008C FOLIO 45.

NOTES:

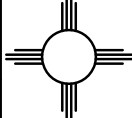
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.

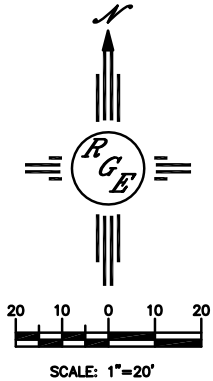
LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
- RIGHT-OF-WAY
- EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
- PROPOSED ROCK FACE WALL
- EXISTING CURB AND GUTTER
- PROPOSED EDGE OF CONCRETE
- PROPOSED FLOWLINE
- EXISTING WALL

I DAVID SOULE, HAVE PERSONALLY INSPECTED THE PROPERTY ON X-XX-13. NO EARTHWORK HAS BEEN PERFORMED AND THE SITE IS CONSISTENT WITH THE TOPO SHOWN.

DAVID SOULE P.E. #14522 DATE

| | | |
|-------------------------|---|--------------------------|
| ENGINEER'S SEAL | A CLASS MEGA STORAGE | DRAWN BY DEM |
| | | DATE 02-20-14 |
| | GRADING AND DRAINAGE PLAN | WWEZ_A0008_0001_PLAN.dwg |
| |  Rio Grande Engineering 1606 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0000 | SHEET # C2 |
| DAVID SOULE P.E. #14522 | | JOB # XXXXX |



Weighted E Method

stock

Existing Developed Basins

| | | | | | | | | | | | 100-Year, 6-hr. | | | 10-day |
|-----------------------|--------------|-----------------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|-----------------------|-------------------|-------------|-------------------|
| Basin | Area (sf) | Area (acres) | Treatment A | | Treatment B | | Treatment C | | Treatment D | | Weighted E (ac-ft) | Volume (ac-ft) | Flow cfs | Volume (ac-ft) |
| | | | % | (acres) | % | (acres) | % | (acres) | % | (acres) | | | | |
| REAR YARD PER 1000 SF | 1000 | 0.023 | 0% | 0 | 0.0% | 0.000 | 0.0% | 0 | 100% | 0.023 | 2.120 | 0.004 | 0.11 | 0.007 |

Equations:

Weighted E = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

Volume = Weighted D * Total Area

Flow = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

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

$E_a = 0.53$

$E_b = 0.78$

$E_c = 1.13$

$E_d = 2.12$

$Q_a = 1.56$

$Q_b = 2.28$

$Q_c = 3.14$

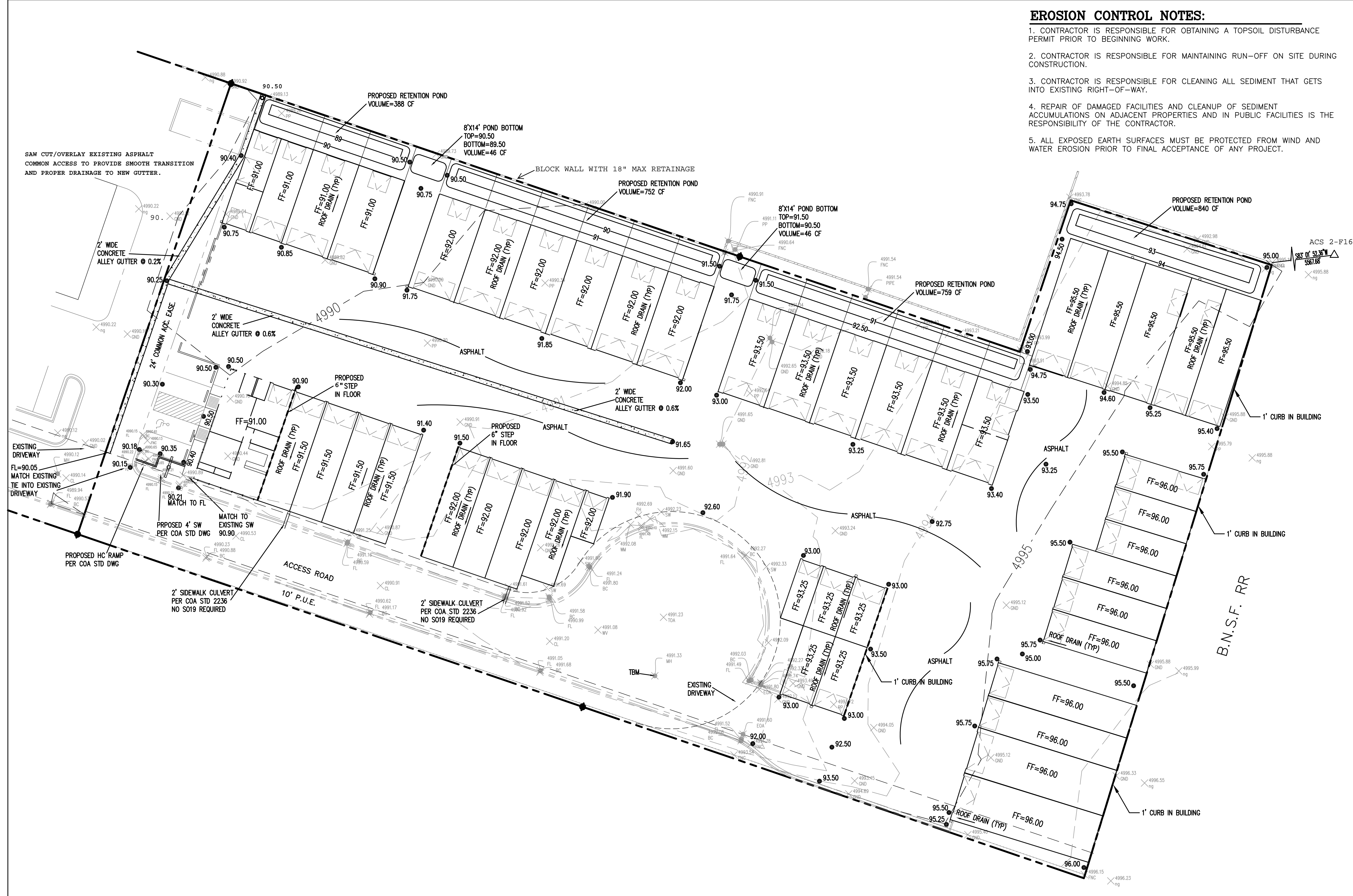
$Q_d = 4.7$

Volume generated per 1 sf roof

0.17667 (100-year 6-hour)

0.31 (100-year, 10-day)

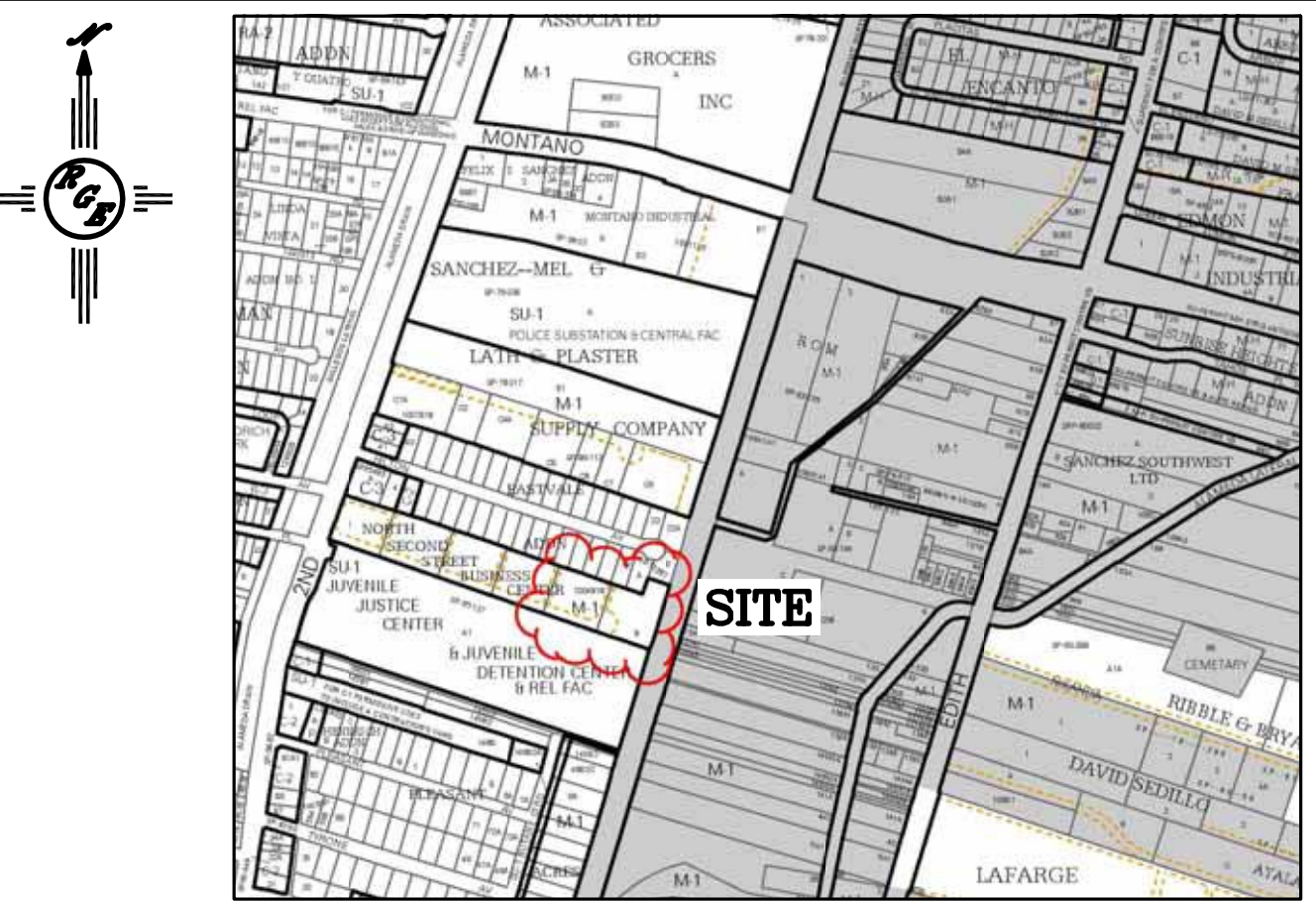
V:\GIS-DAVID SOULE\2nd Street RV Boat Storage\Murphy-RV-Boat Storage-Layout-9-14.dwg, 11/19/2014 4:39:08 PM



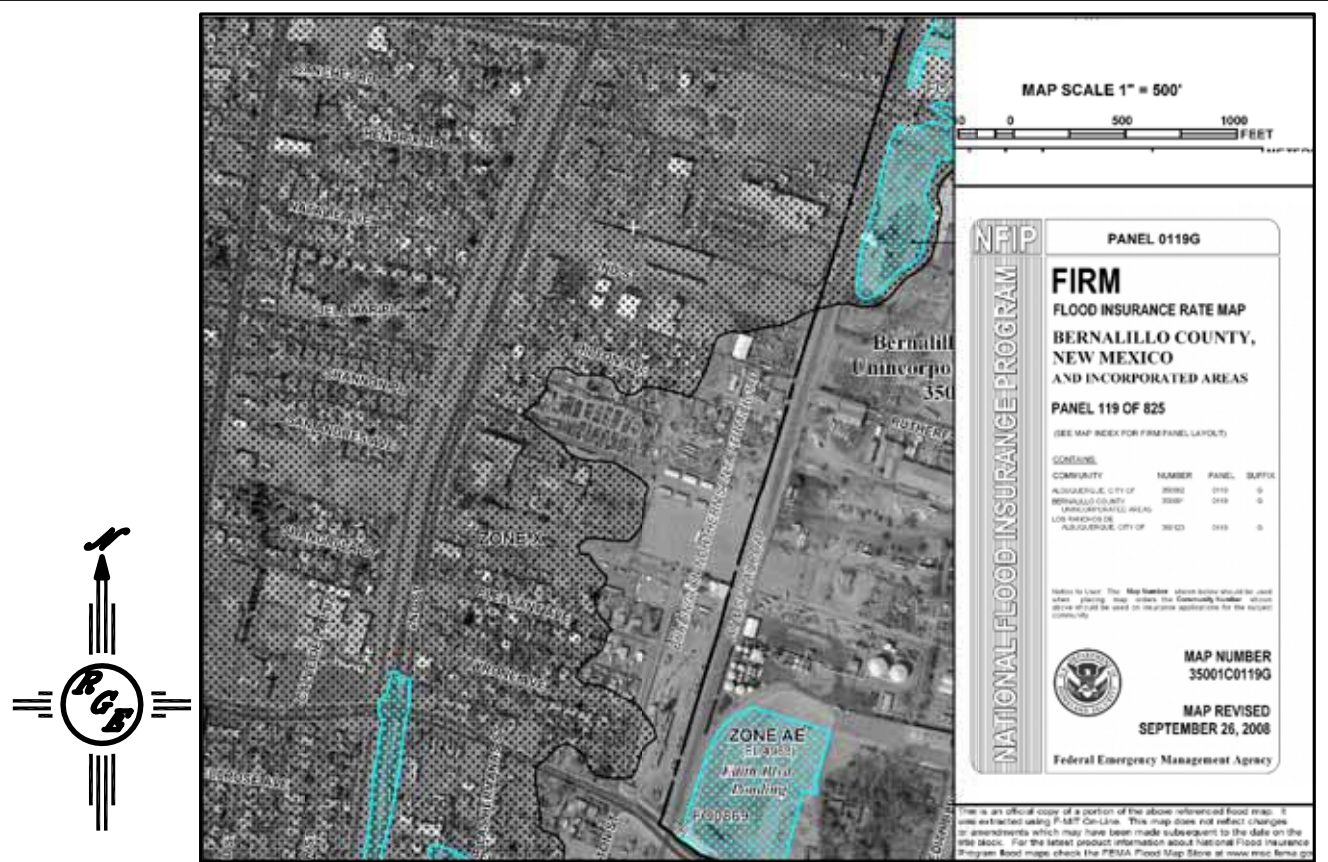
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VICINITY MAP: F-15-Z



FIRM MAP: 35001C0119G

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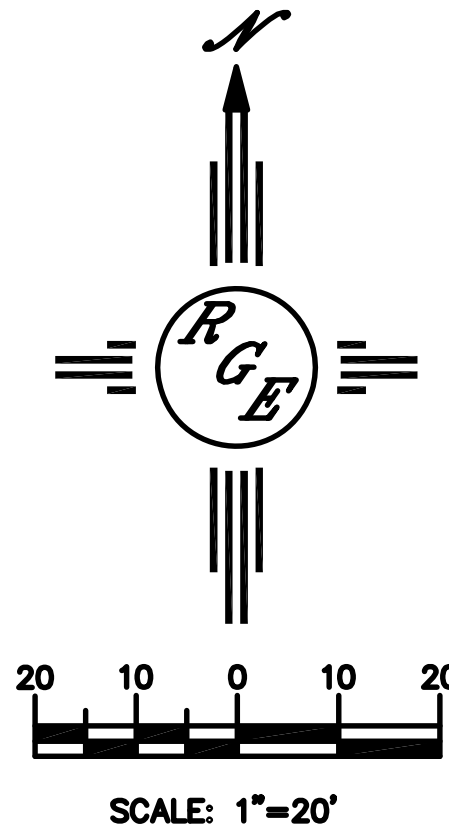
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NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ADJACENT PROPERTY HAS LOW POINT IN ASPHALT THAT DOES NOT DRAIN.
3. ALL GRADES SHOWN ARE 49XX.XX

LEGEND

- 5601— EXISTING CONTOUR
- 5600— EXISTING INDEX CONTOUR
- 5601— PROPOSED CONTOUR
- 5600— PROPOSED INDEX CONTOUR
- LOT LINE
- CENTERLINE
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- EXTENDED STEM WALL SEE ARCH PLANS FOR DETAILS
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| | | | |
|--|--|--|------------------|
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| | GRADING AND DRAINAGE PLAN | | DATE 02-20-14 |
| | <div>Rio Grande Engineering 1808 CENTRAL AVENUE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0888</div> | | SHEET # C2 |
| | | | JOB # XXXXX |