City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6429 DENNISON Building Permit #:_____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description. LOT 8 BLOCK B ALAMOSA ADDITION

City Address: 6429 DENNISON

Applicant: PERFECTO GARCIA Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: david@riograndeengineering.com

TYPE OF DEVELOPMENT: ___ PLAT X RESIDENCE ___ DRB SITE ___ ADMIN SITE

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

___ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

___ ENGINEER/ARCHITECT CERTIFICATION

___ PAD CERTIFICATION

___ CONCEPTUAL G & D PLAN

X GRADING PLAN

___ DRAINAGE REPORT

___ DRAINAGE MASTER PLAN

___ FLOODPLAIN DEVELOPMENT PERMIT APPLIC

___ ELEVATION CERTIFICATE

___ CLOMR/LOMR

___ TRAFFIC CIRCULATION LAYOUT (TCL)

___ TRAFFIC IMPACT STUDY (TIS)

___ STREET LIGHT LAYOUT

___ OTHER (SPECIFY) _____

___ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: ___ Yes X No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X BUILDING PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY

___ PRELIMINARY PLAT APPROVAL

___ SITE PLAN FOR SUB'D APPROVAL

___ SITE PLAN FOR BLDG. PERMIT APPROVAL

___ FINAL PLAT APPROVAL

___ SIA/ RELEASE OF FINANCIAL GUARANTEE

___ FOUNDATION PERMIT APPROVAL

___ GRADING PERMIT APPROVAL

___ SO-19 APPROVAL

___ PAVING PERMIT APPROVAL

X GRADING/ PAD CERTIFICATION

___ WORK ORDER APPROVAL

___ CLOMR/LOMR

___ FLOODPLAIN DEVELOPMENT PERMIT

___ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

FEE PAID:_____

Weighted E Method

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, 6-hr. Weighted E (ac-ft)	100-Year, 6-hr. Volume (ac-ft)	100-Year, 6-hr. Flow cfs	24-Hour Volume (ac-ft)
Existing	6082.00	0.140	50%	0.0698	50%	0.070	0%	0.000	0%	0.000	0.655	0.008	0.27	0.008
PROP TO REAR	1156.00	0.027	0%	0	29%	0.008	71%	0.019	0%	0.000	1.029	0.002	0.08	0.002
PROP TO STREET	4926.00	0.113	0%	0	19%	0.021	20%	0.023	61%	0.069	1.667	0.016	0.44	0.020
increase				-0.07		-0.048326		0.0226		0.06898		0.008	0.176	0.012

Equations:

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

Volume = Weighted D * Total Area

First flush requirement 85.1377 cubic feet

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

Where for 100-year, 6-hour storm(zone2)

Ea= 0.53	Qa= 1.56
Eb= 0.78	Qb= 2.28
Ec= 1.13	Qc= 3.14
Ed= 2.12	Qd= 4.7

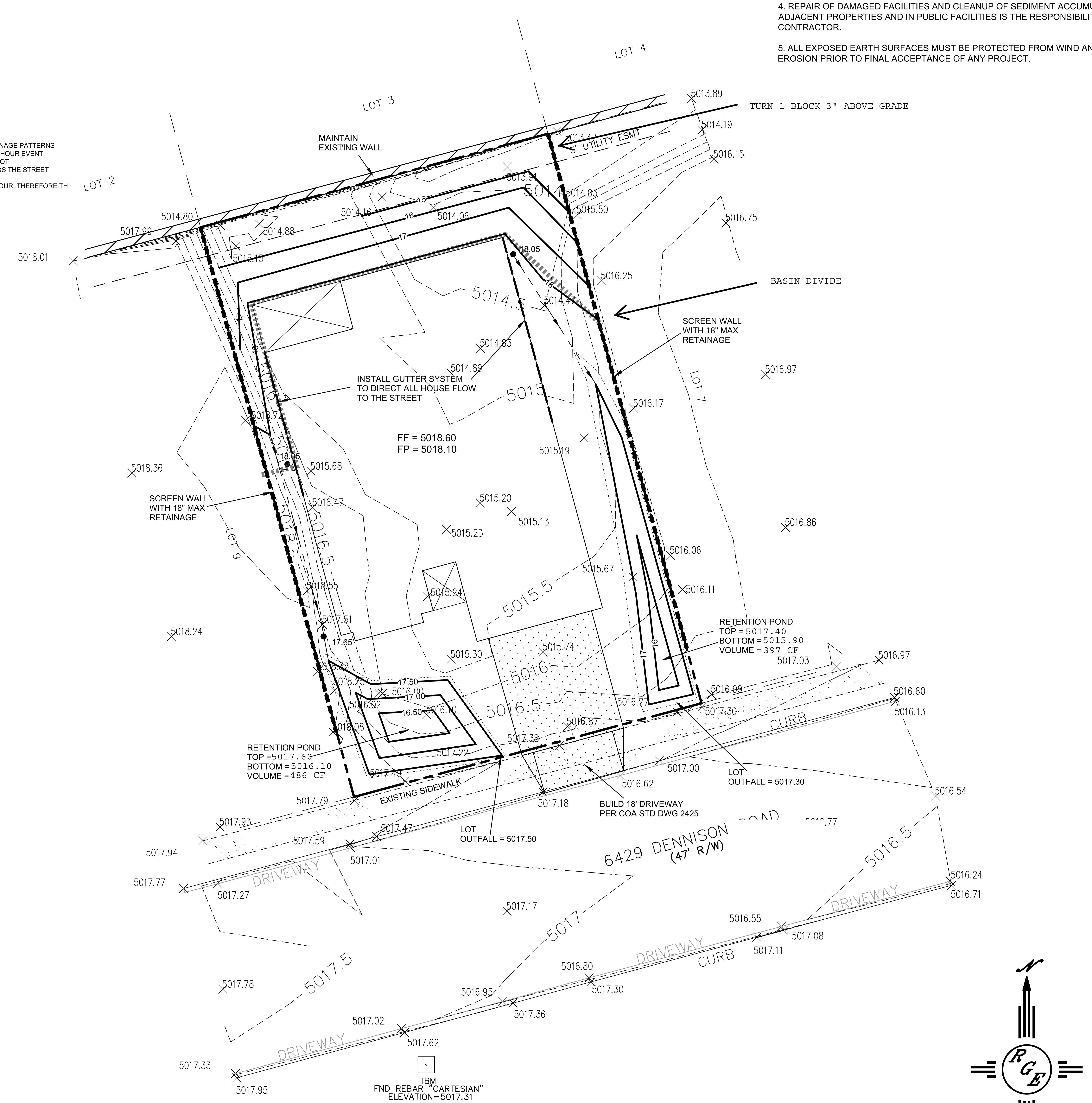
Developed Conditons

	PEAK FLOW	TOTAL FLOW	VOLUME PROVIDED
EXISITNG(TO REAR)	0.27 CFS	332 CF	0 CF
PROPOSED(TO REAR)	0.08 CFS	99 CF	0 CF
PROPOSED(TO FRONT)	0* CFS	870 CF	883 CF

* entire basin flow retained

DRAINAGE NARRATIVE

THIS SITE IS A DEVELOPMENT OF A SITE THAT WAS PREVIOSLY DEVELOPED. THE PROPOSED DRAINAGE SOLUTION SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND LIMIT DISCHARGE TO EXISTING. THE SITE CURRENTLY DISCHARGES 0.27 CFS AND 3327 CUBIC FEET OF STORM WATER DURING A 100-YEAR, 24-HOUR EVENT THE FLOW DRAINS TO THE NORTH EAST CORNER, DISCHARGING TO THE ADJACENT TRACT. THE PROPOSE DEVELOPMENT WILL DRAIN THE REAR LOT TO THE HISTORICAL DISCHARGE POINT AND REDUCE THE DISCHARGE TO 0.08 CFS AND 99 CF. THE HOUSE AND FRONT OF LOT WILL DRAIN TOWARDS THE STREET THE FLOW WILL BE CAPTURED BY TWO PONDS. THESE PONDS WILL RETAIN 883CF, WHICH EXCEEDS THE TOTAL FLOW OF 870 CF GENERATED THE PONDS ARE 1.50 FEET DEEP. THE SOIL CLASSIFICATION IS BCC BLUE POINT LOAMY FINE SAND WITH A INFILTRATION CAPACITY OF 6.0" PER HOUR, THEREFORE TH POND WILL DRAIN IN 3 HOURS



EROSION CONTROL NOTES:

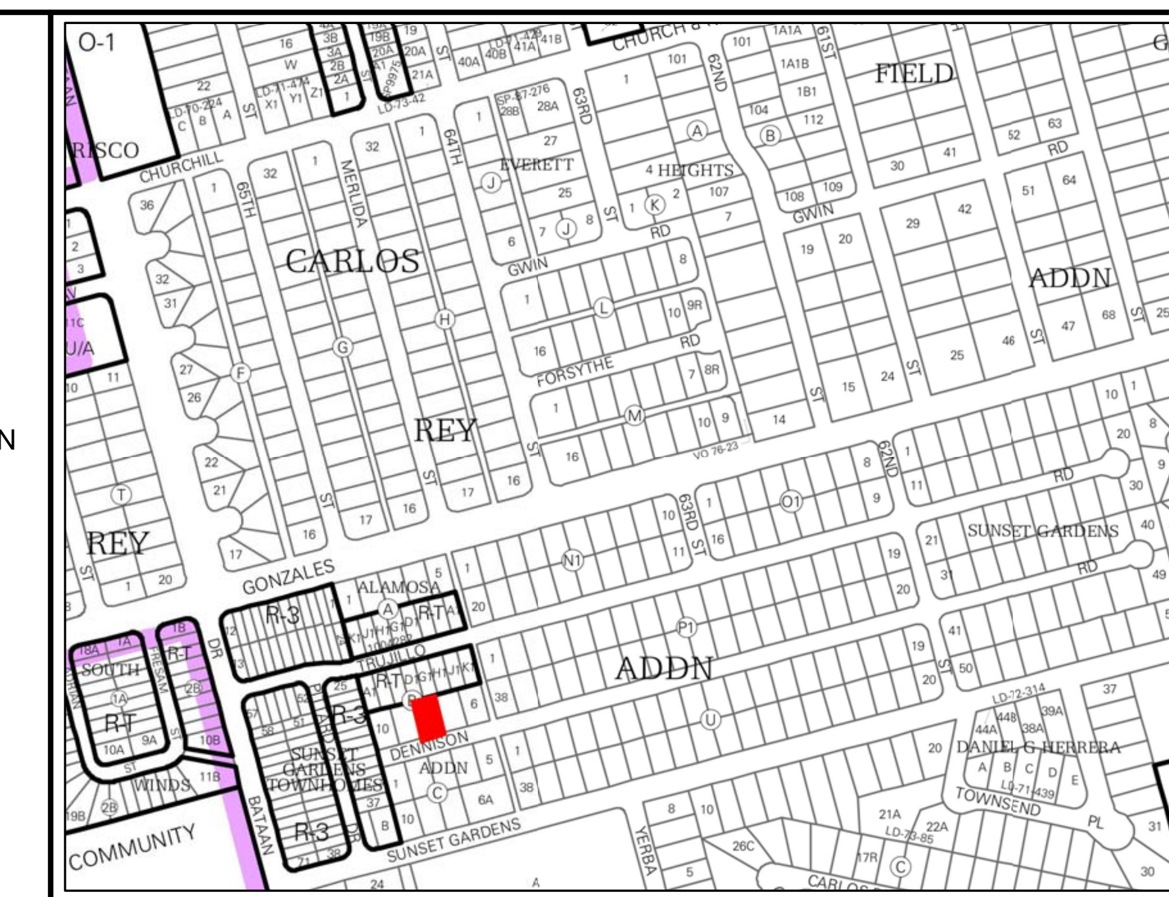
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

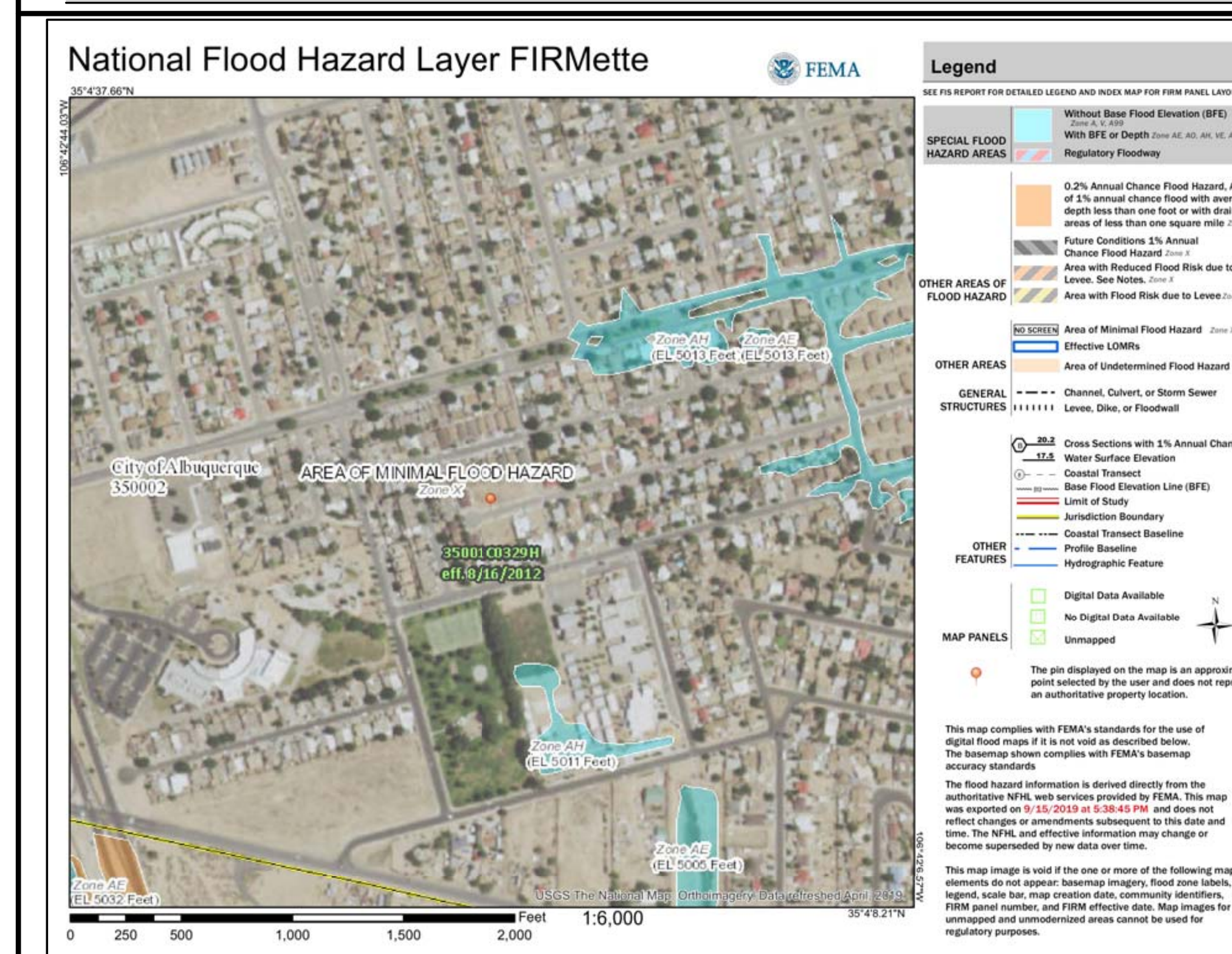
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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.



VICINITY MAP: K-11-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 8, BLOCK B, UNIT 10 ALAMOSA ADDITION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

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

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.

3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

5. A PAD ELEVATION CERTIFICATION SHALL BE REQURIED PRIOR TO BUILDING PERMIT

LEGEND

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BOUNDARY
- ADJACENT BOUNDARY
- EXISTING EDGE OF ROAD
- PROPOSED GRAVEL DRIVEWAY
- PROPOSED CONCRETE DRIVEWAY
- PROPOSED SCREEN WALL
- PROPOSED GUTTER SYSTEM

SCALE: 1"=10'

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.

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

9/18/19

DAVID SOULE
P.E. #14522

LOT 8 BLK B ALAMOSA ADDITION
6429 DENNISON ROAD

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

DRAWN BY DEM

DATE 9-16-19

LOT 5 BLK 47 UN 10 RR.DWG

SHEET # C1

JOB #