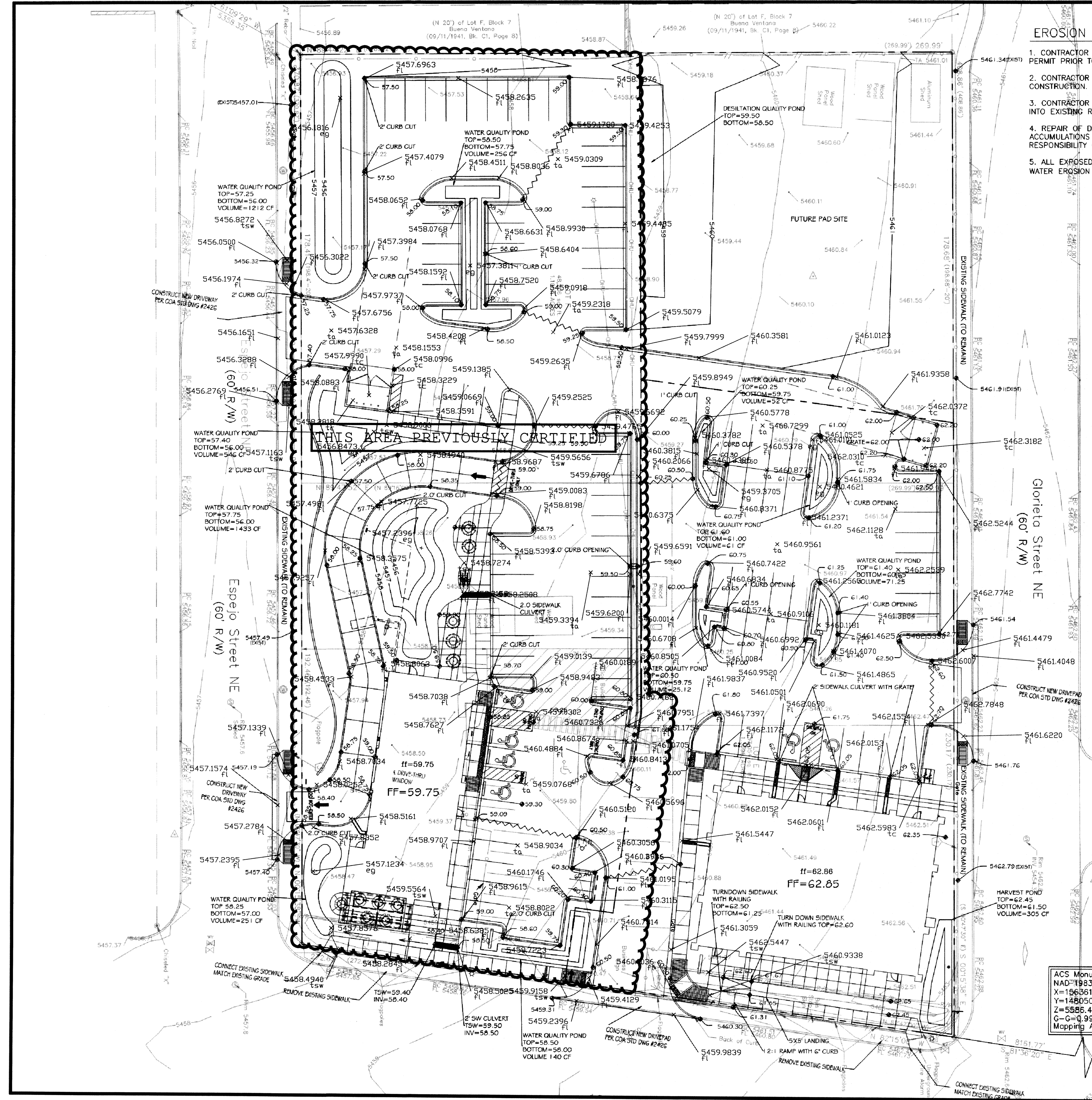
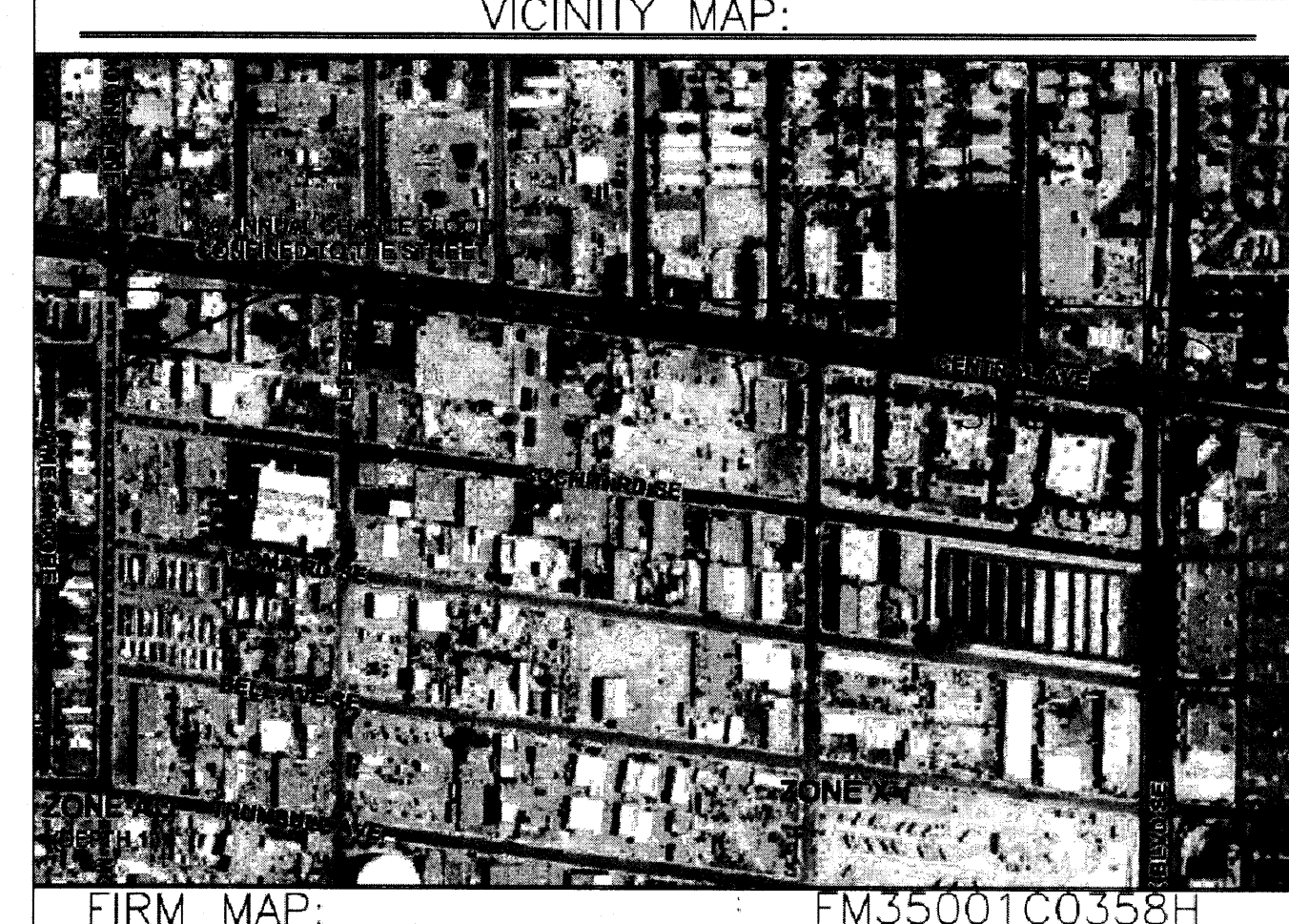
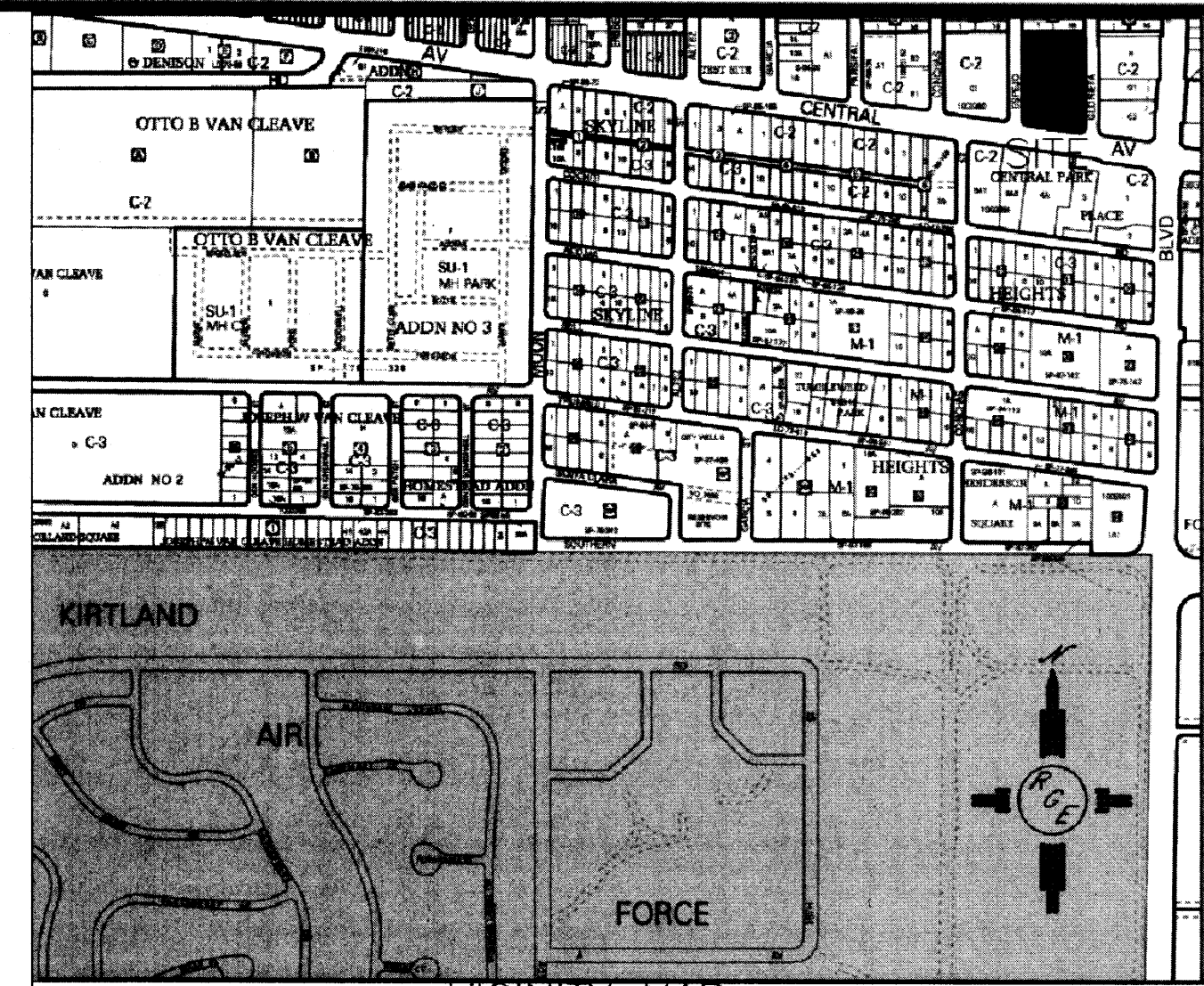




- EROSION CONTROL NOTES:**
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 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.



LEGAL DESCRIPTION:
TRACTS 1-3 East Century Gateway Plaza

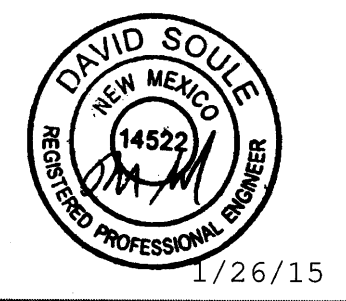
NOTES:

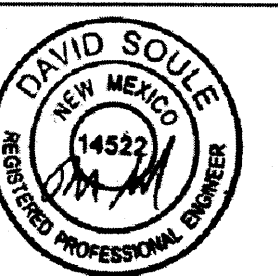
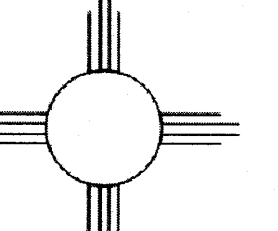
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY Cartesian Surveys Dated 2013



I, JASON D. SMITH, NEW MEXICO PROFESSIONAL SURVEYOR, HEREBY CERTIFY THAT THIS AS-BUILT SURVEY WAS PREPARED FROM AN ACTUAL GROUND SURVEY PERFORMED BY ME OR UNDER MY SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I, David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 6/20/14. The record information edited on the original design document has been performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by Jason Smith #17122. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented herein is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose. This certification is for the tract 2. Tract 1 previously certified.



 DAVID SOULE P.E. #14522	ENGINEER'S SEAL	TRACTS 1-3 EAST CENTURY GATEWAY PLAZA	DRAWN BY JDG
		GRADING AND DRAINAGE PLAN	DATE 06-08-2014
		 Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # 1 OF 1 JOB #

											100-Year, 6-hr.		
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
PROPOSED	10903.00	0.250	100%	0.250298439	0%	0.000	0%	0%	0%	0.000	1.530	0.011	0.39
ALLOPED A	10903.00	0.250	0%	0	19%	0.048	35%	0.0876	46%	0.115	1.519	0.032	0.92

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

Volume = Weighted D * Total Area

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

Where for 100-year, 6-hour storm

Ea=

Eb=

Ec=

 $E_d =$

Qa= 1

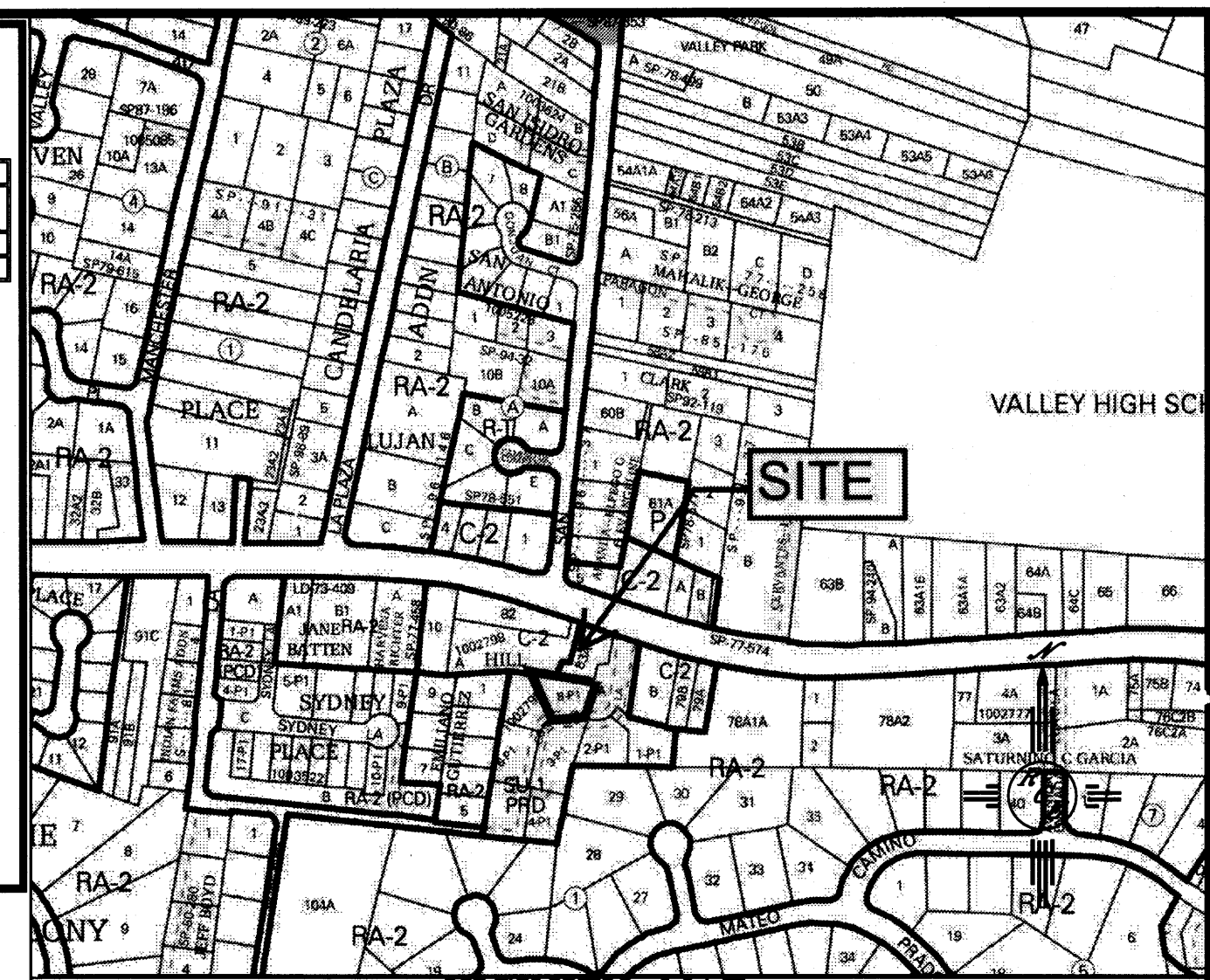
Qb= 2
Qc= 3

$Q_d = 4$

TOTAL PROVIDED

TOTAL REQUIRED
REQUIRED FOR WATER QUALITY

34 DRAINAGE NARRATIVE- THE SITE IS LOCATED WITHIN A DEVELOPED SUBDIVISION. THE
STREETS ARE PRIVATE AND DRAIN INTO THE LOTS. ONSITE PONDING IS REQUIRED. THE
POND HAS BEEN SIZED TO ACCOMMODATE THE TOTAL VOLUME WHICH INCLUDES THE
REQUIRED WATER QUALITY VOLUME



VICINITY MAP:



FIRM MAP:

FM35001C0331H

LOT 8-P-1 RANCHO DE CANDELARIA

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY HARRIS SURVEYING PLS 11463

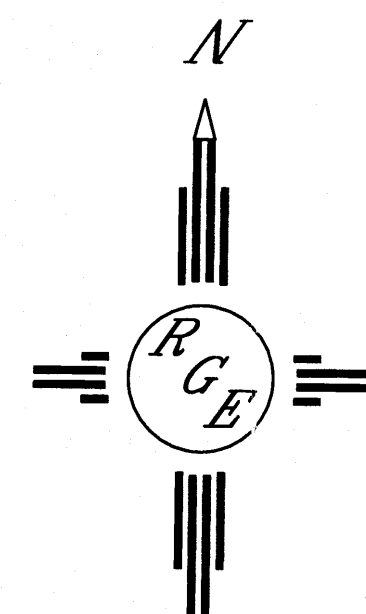
- - - - -5411- - - - - EXISTING CONTOUR
 ————5410——— EXISTING INDEX CONTOUR
 ————5411——— PROPOSED CONTOUR
 ————5410——— PROPOSED INDEX CONTOUR
 ← SWALE - FLOWLINE
 ● PROJECT BENCHMARK

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.

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 8/2/14. The record information edited on the original design document has passed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided DAVID VIGIL NMPE 8911. The certification is submitted in support of a request for **PERMANENT CERTIFICATE OF OCCUPANCY**. The record information presented herein is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose. The ponding is deeper than plan; required volume onsite for the 100-year event is provided

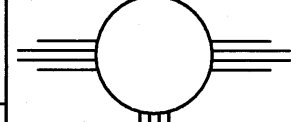


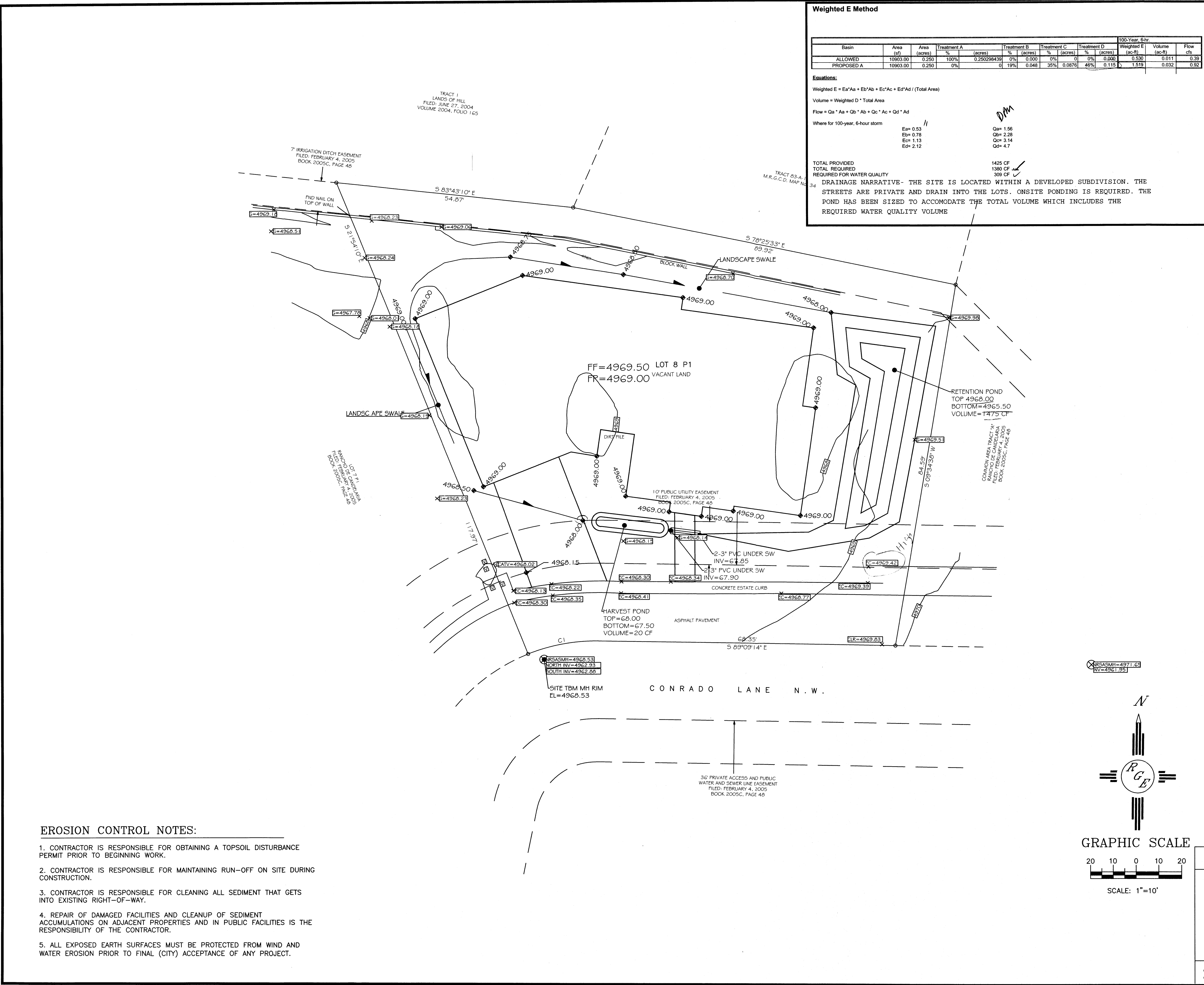
⊗ NRSASMH=4971.65
NV=4961.95



GRAPHIC SCALE

SCALE: 1"=10'

ENGINEER'S SEAL  8/5/14	LOT 8-P-1 RANCHO DE CANDELARIA	DRAWN BY JDG DATE 08-04-2014
	GRADING AND DRAINAGE PLAN	SHEET # 1 OF 1
	 <i>Rio Grande</i> <i>Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	JOB #



Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year, 6-hr.	
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)
ALLOWED	10803.00	0.250	100%	0.250298439	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0.530	0.011
PROPOSED A	10803.00	0.250	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	0%	0.000	1.519	0.032

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

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

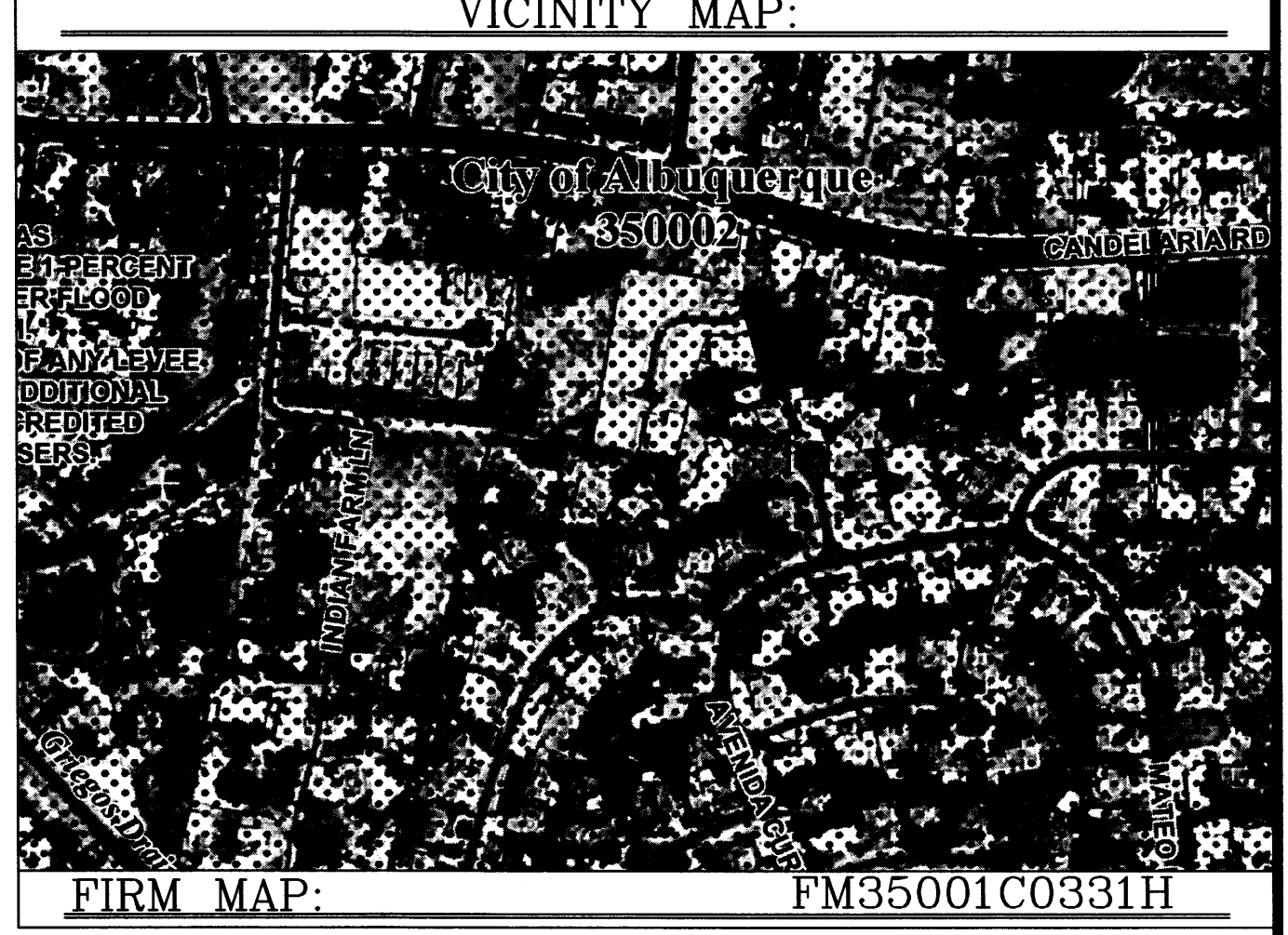
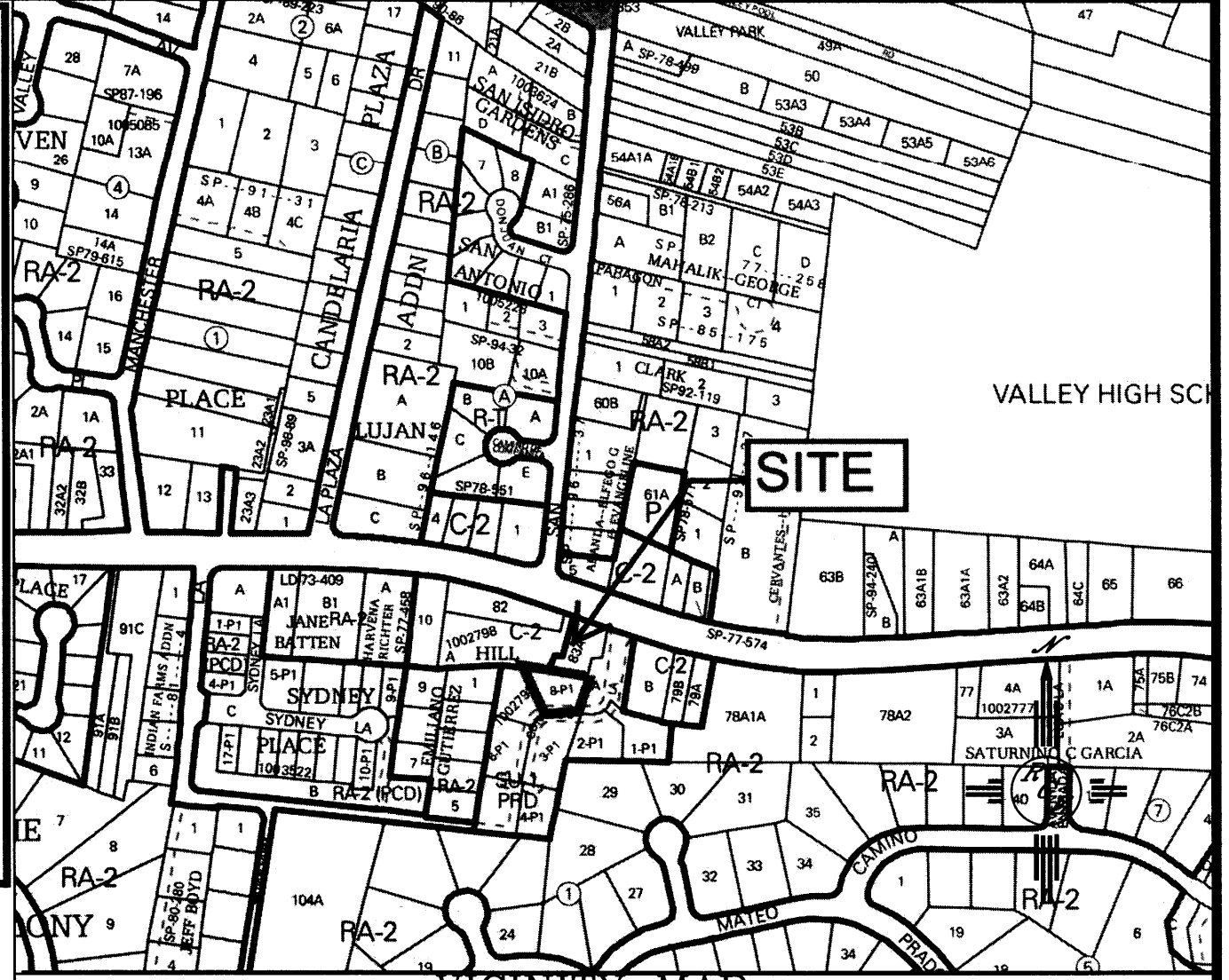
Qa= 1.56
Qb= 2.28
Qc= 3.14
Qd= 4.7

TOTAL PROVIDED

TOTAL REQUIRED

REQUIRED FOR WATER QUALITY

DRAINAGE NARRATIVE- THE SITE IS LOCATED WITHIN A DEVELOPED SUBDIVISION. THE STREETS ARE PRIVATE AND DRAIN INTO THE LOTS. ONSITE PONDING IS REQUIRED. THE POND HAS BEEN SIZED TO ACCOMMODATE THE TOTAL VOLUME WHICH INCLUDES THE REQUIRED WATER QUALITY VOLUME



LEGAL DESCRIPTION:

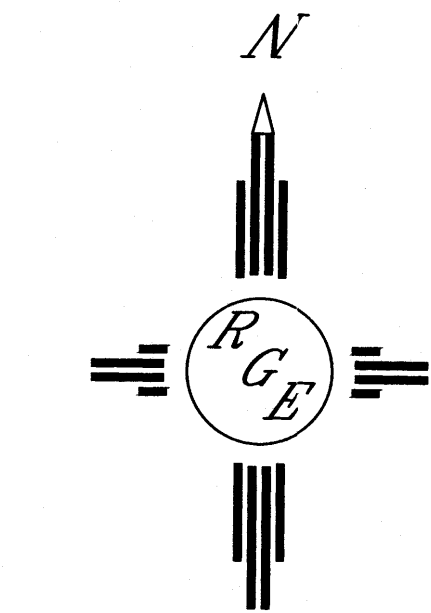
LOT 8-P-1 RANCHO DE CANDELARIA

NOTES:

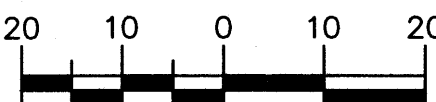
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY HARRIS SURVEYING PLS 11463

LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- SWALE--FLOWLINE
- PROJECT BENCHMARK



GRAPHIC SCALE



SCALE: 1"=10'

EROSION CONTROL NOTES:

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ENGINEER'S SEAL	LOT 8-P-1 RANCHO DE CANDELARIA	DRAWN BY JDG
DAVID SOULE 14522 REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 08-04-2014
8/5/14	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0898	SHEET # 1 OF 1
DAVID SOULE P.E. #14522		JOB #