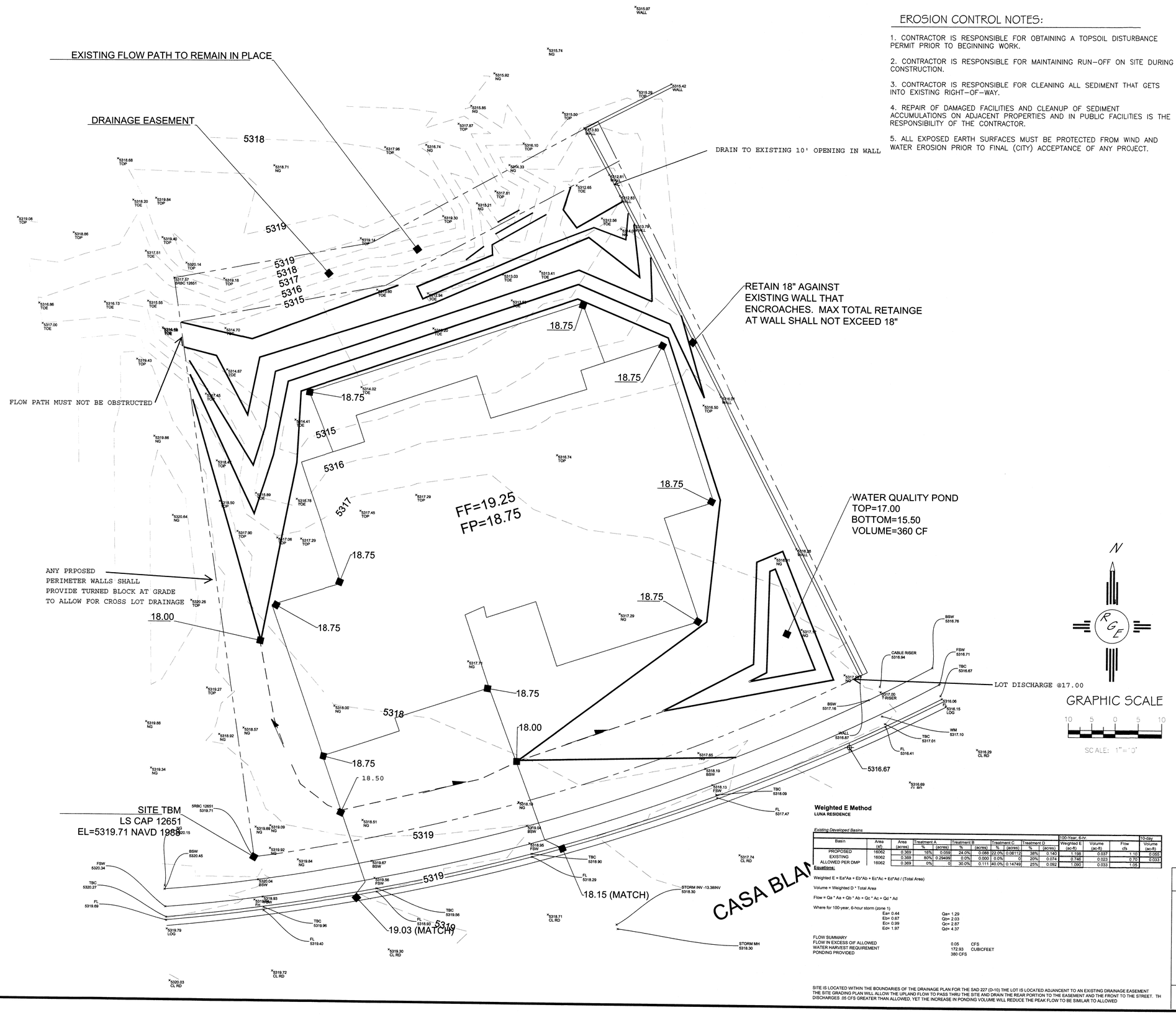


EROSION CONTROL NOTES:

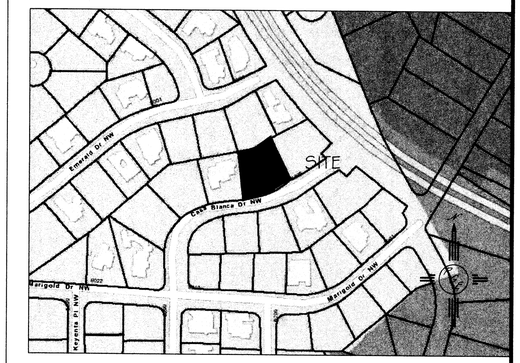
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

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

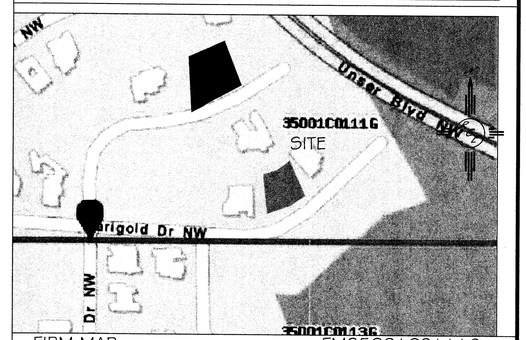
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

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: FM35001C0111G

LEGAL DESCRIPTION:

LOT 7 BLOCK 11, UNIT 5 VOLCANO CLIFFS UNIT 5

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 21081, SEPTEMBER 2015

LEGEND

- 5411 EXISTING CONTOUR
- 5410 EXISTING INDEX CONTOUR
- 5411 PROPOSED CONTOUR
- 5410 PROPOSED INDEX CONTOUR
- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)

Weighted E Method
LUNA RESIDENCE

Existing Developed 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, 6-hr Weighted E (ac-ft)	100-Year, 6-hr Volume (ac-ft)	100-Year, 6-hr Flow cfs	10-day Volume (ac-ft)
PROPOSED	16062	0.369	16%	0.059	24.0%	0.088	22.0%	0.08112	38%	0.140	1.198	0.037	1.10	0.055
EXISTING	16062	0.369	80%	0.29499	0.0%	0.000	0.0%	0	20%	0.074	0.746	0.023	0.70	0.033
ALLOWED PER DMP	16062	0.369	0%	0	30.0%	0.111	40.0%	0.14749	25%	0.092	1.090	0.033	1.05	

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 1)

Ea= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 4.37

FLOW SUMMARY

FLOW IN EXCESS OF ALLOWED	0.05	CFS
WATER HARVEST REQUIREMENT	172.93	CUBICFEET
PONDING PROVIDED	380	CFS

SITE IS LOCATED WITHIN THE BOUNDARIES OF THE DRAINAGE PLAN FOR THE SAD 227 (D-10) THE LOT IS LOCATED ADJANCENT TO AN EXISTING DRAINAGE EASEMENT. THE SITE GRADING PLAN WILL ALLOW THE UPLAND FLOW TO PASS THRU THE SITE AND DRAIN THE REAR PORTION TO THE EASEMENT AND THE FRONT TO THE STREET. TH DISCHARGES .05 CFS GREATER THAN ALLOWED, YET THE INCREASE IN PONDING VOLUME WILL REDUCE THE PEAK FLOW TO BE SIMILAR TO ALLOWED

RECEIVED
SEP 13 2016
LAND DEVELOPMENT SECTION

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

9/9/16

DAVID SOULE
P.E. #14522

LOT 7, BLOCK 11 UNIT 5
VOLCANO CLIFFS SUBDIVISION

GRADING AND DRAINAGE PLAN

DRAWN BY JDG

DATE 09-11-2016

SHEET # 1 OF 1

JOB #

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