CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



July 26, 2023

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

RE: 8400 Florence Ave. NE

Grading and Drainage Plan Engineer's Stamp Date: 07/20/23

Hydrology File: B20D071

Dear Mr. Soule:

Based upon the information provided in your submittal received 07/20/2023, the Grading & Drainage Plan is approved for Grading Permit (earthwork can get started for the earth pad on the

house and retaining walls).

PRIOR TO BUILDING PERMIT:

Albuquerque

NM 87103

1. Once the grading is complete, a pad certification (meaning that the earthwork and retaining walls are complete) will be required. Please include a site photo with the submittal. Also, at the time of pad certification approval, Hydrology will concurrently approve the Grading & Drainage Plan for Building Permit.

www.cabq.gov

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department



City of Albuquerque

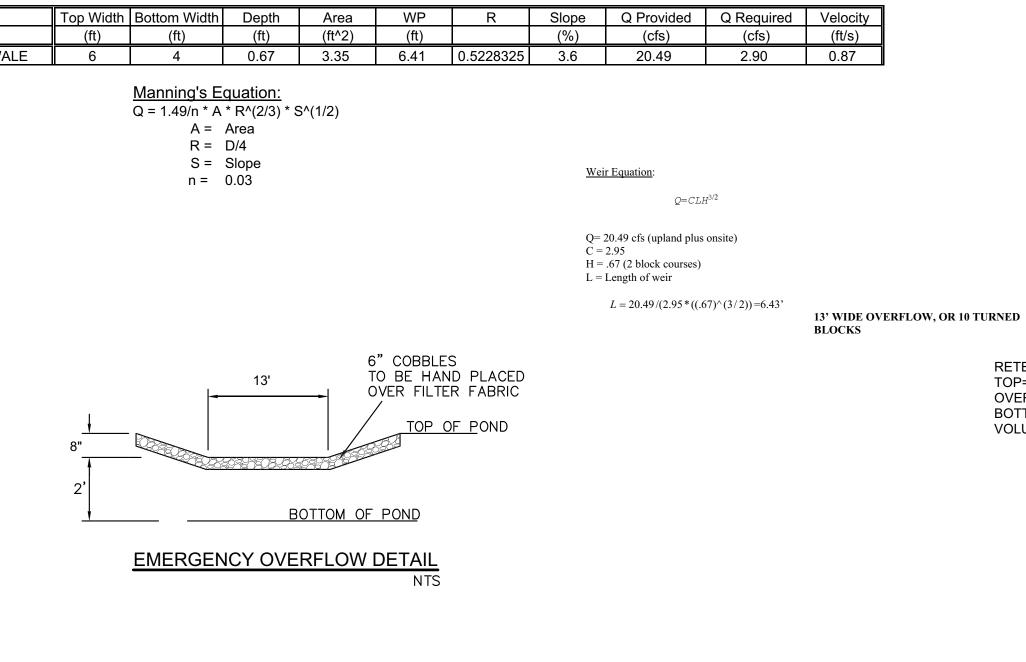
Planning Department

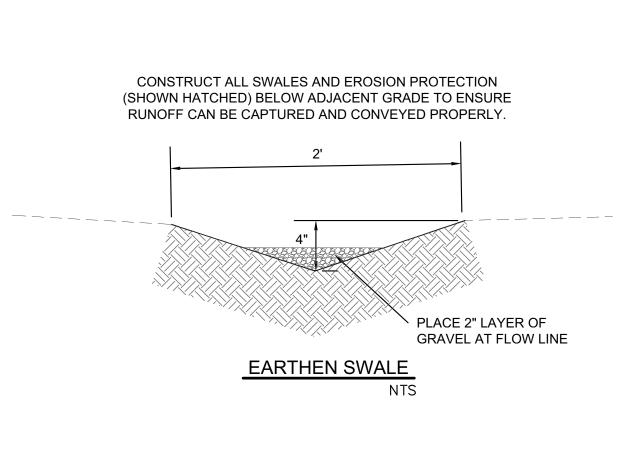
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: \$8400 Florence	Building Permit #	: Hvdrol	ogv File #:				
DRB#:	 EPC#:	Work (Order#:				
DRB#: Legal Description: LOT 3, BLOCK 16	TRACT 1 UNIT 3 NORT	H ALBUQUERUQE ACRES					
City Address: 8400 FLORENCE		**************************************					
		* "WAS					
Applicant:		Contact:					
Address:							
Phone#:	Fax#:	E-mail:					
Other Contact: RIO GRANDE ENGINEERING		Contact:	DAVID SOULE				
Address: PO BOX 93924 ALB	NM 87199	Onlaw.	-				
Phone#: 505.321.9099		999 E-mail: d	avid@riograndeengineering.com				
TYPE OF DEVELOPMENT:1							
	FLAT RESIDEN	LEDKB SITE	_ADMIN SITE				
Check all that Apply:							
DEPARTMENT:	Т	YPE OF APPROVAL/ACCE	PTANCE SOUGHT:				
X HYDROLOGY/ DRAINAGE		X BUILDING PERMIT APPROVAL					
TRAFFIC/ TRANSPORTATION	_	CERTIFICATE OF OCCUPANCY					
TYPE OF SUBMITTAL:							
ENGINEER/ARCHITECT CERTIFICATION		PRELIMINARY PLAT APPROVAL					
PAD CERTIFICATION CONCEPTUAL G & D PLAN Representation		SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL					
				DRAINAGE REPORT			
				DRAINAGE MASTER PLAN	•	SIA/ RELEASE OF FINAN	ICIAL GUARANTEE
_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC		FOUNDATION PERMIT APPROVAL					
ELEVATION CERTIFICATE		GRADING PERMIT APPROVAL					
CLOMR/LOMR		SO-19 APPROVAL					
TRAFFIC CIRCULATION LAYOUT (TCL)		PAVING PERMIT APPROVAL					
TRAFFIC IMPACT STUDY (TIS)		GRADING/ PAD CERTIFICATION					
		WORK ORDER APPROVAL					
STREET LIGHT LAYOUT		CLOMR/LOMR					
OTHER (SPECIFY)		FLOODPLAIN DEVELOPMENT PERMIT					
PRE-DESIGN MEETING? IS THIS A RESUBMITTAL?: Yes		OTHER (SPECIFY)					
DATE SUBMITTED:							
COA STAFF:		TTAL RECEIVED:					
			-				
	FEE PAID:						

Weighted E Method Existing Developed Basins 5.188 20% 1.03765 30.0% 1.556 34.0% 1.764 26% 1.349 1.667 0.886 20% 0.17727 30.0% 0.266 34.0% 0.30136 26% 0.230 1.667 0.886 10% 0.08864 20.0% 0.177 34.0% 0.30136 36% 0.319 1.743 0.089 0.089 0.000 -0.089</t UPLAND BASIN ALLOWED PER NAA PROPSED COMPARISON 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 4) Qa= 2.2 Qb= 2.92 Ec= 1.46 Qc= 3.73 Qd= 5.25 Pond volume required 759.33 cf to reduce to below NAA Allowable Pond volume provided The subject property is located within the boundaries of the North Albuquerque Acres Master Drainage Master Plan. This lot is located in the LR- Low Density Residential area of the developed condition assumption map. The Impevious area exceeds the allowed conditions assumptions. Therefore ponding of 759 cubic feet is requried. Upland flow is allowed to enter and pass thru the property, leaving a historical patterns. There is a 20.5 cfs flow entering the property at the southeast corner Perimeter: 3,685.22 ft BCSO beats obtained from Bernalillo County GIS | agis - agis@cabq.gov | city o... **Channel Capacity** Area (%) 6.41 0.5228325 3.6 20.49 4 0.67 3.35 Manning's Equation: $Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}$ A = Area R = D/4S = Slope Weir Equation: n = 0.03Q= 20.49 cfs (upland plus onsite) C = 2.95 H = .67 (2 block courses) L = Length of weir $L = 20.49/(2.95*((.67)^{(3/2)})=6.43$



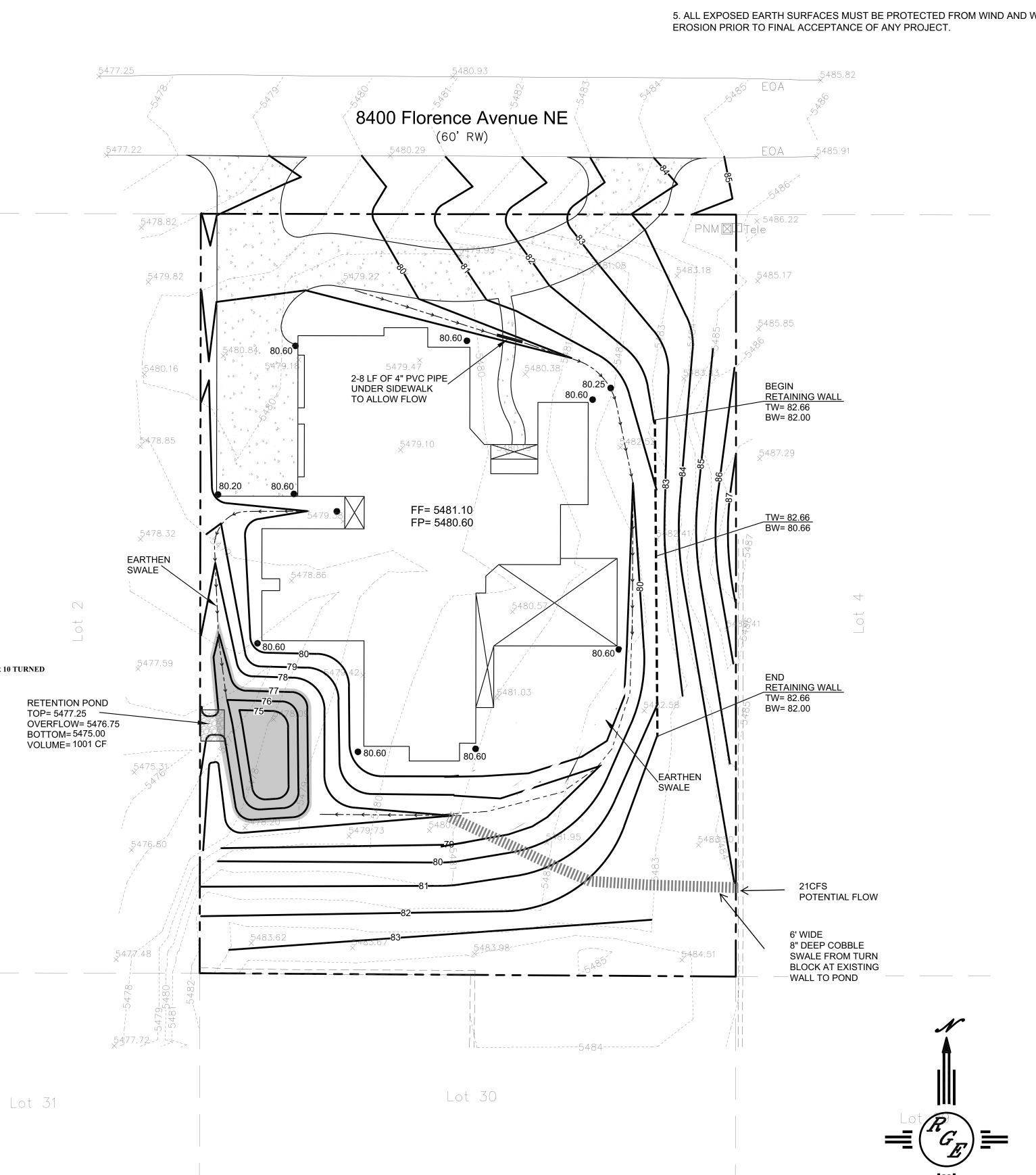


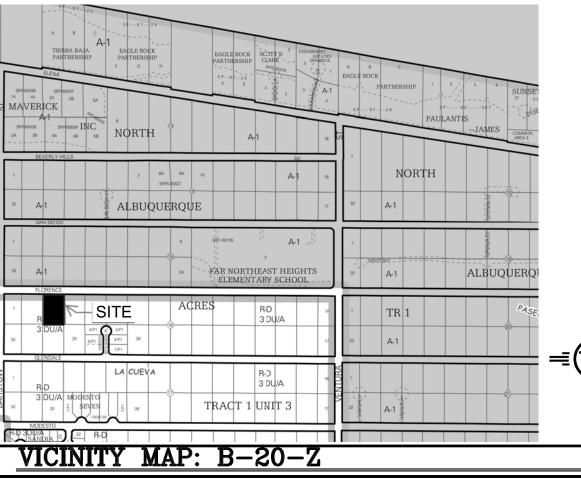
CAUTION:

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





National Flood Hazard Layer FIRMette

Effective LOMRs

No Digital Data Available

Unmapped

LEGAL DESCRIPTION:

LOT 3, BLOCK 16 NORTH ALBUQUERQUE ACRES TRACT 1, UNIT 3 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

FIRM MAP:

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

Basemap Imagery Source: USGS National Map 2023

- 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 REQUIRED PRIOR TO RELEASE OF BUILDING

LEGEND

SCALE: 1"=20'

