CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

March 25, 2022

Phillip W. Clark, PE
Clark Consulting Engineers
19 Ryan Rd
Edgewood, NM 87015

RE: 1717 Archuleta Dr NE
Grading and Drainage Plan
Engineer's Stamp Date: 05/24/21
Hydrology File: J23D021

Dear Mr. Clark:

Based upon the information provided in your submittal received 03/04/2022, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. Since this site will contain stim walls, a pad certification is not needed for this project. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 1717 Archuleta DR NE Res Building Permit #: BP-2022-01872 Hydrology File #: _____

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

Legal Description: Lot 16, Blk 3, Rebonito

City Address: 1717 Archuleta NE

Applicant: CLARK CONSULTING ENGINEERS Contact: PHIL

Address: _____

Phone#: 281-2444 Fax#: xxxx cell / txt 264.6042 E-mail: CCEalbq@aol.com

Other Contact: Jayesh Contact: _____

Address: _____

Phone#: 362-2009 Fax#: _____ E-mail: jayesh@tnjgroup.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

___ GRADING/ PAD CERTIFICATION

___ WORK ORDER APPROVAL

___ CLOMR/LOMR

___ FLOODPLAIN DEVELOPMENT PERMIT

___ OTHER (SPECIFY) _____

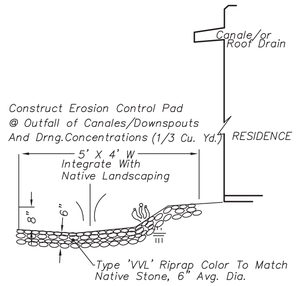
DATE SUBMITTED: 3/4/22 By: PWC

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED:_____

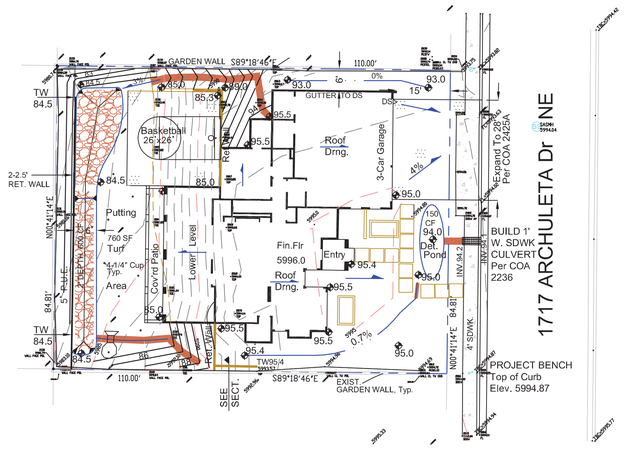
FEE PAID:_____

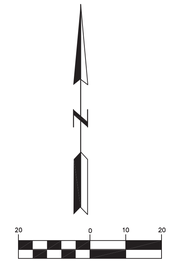
STREET VIEW - LOOKING WEST



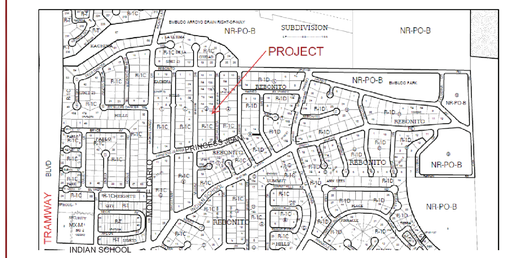
EROSION CONTROL PAD

NO SCALE





SCALE: 1" = 20'



VICINITY MAP

ZONE J-23

NOTES

1. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION, 2020.
2. AN EXCAVATION/CONSTRUCTION PERMIT IS REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY R.O.W. AN APPROVED COPY OF THIS PLAN MUST BE SUBMITTED AT THE TIME OF APPLICATION.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL LANDSCAPING AREA SHALL BE SOFT-LINED WITH NATIVE VEGETATION AND/OR GRAVEL.
5. CONTRACTOR SHALL ENSURE THAT NO SITE SOILS/SEDIMENT OR SILT ENTER THE RIGHT-OF-WAYS DURING CONSTRUCTION.
6. REVEGETATE ALL AREAS DISTURBED DUE TO CONSTRUCTION PER CITY OF ALBUQ. SPEC. 1012, NATIVE SEED MIX.
7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1. DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.

LEGEND

+24.0	EXIST. SPOT ELEVATION
10	EXIST. CONTOUR
24.0	NEW SPOT ELEVATION
38	NEW CONTOUR
	NEW SWALE
	DRAINAGE DIRECTION, EXISTING
FL	FLOWLINE
DS	DOWNSPOUT
NG OR G	NATURAL GROUND, EXISTING
R/C	REBAR AND CAP, EXISTING
V-SWALE	NEW TYPE VVL RIPRAP (BURIED 6") (2"-8" DIA. Well Graded, River Run Cobbles)
TW	TOP OF RETAINING WALL

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) DATED 2020 FOR CITY OF ALBUQUERQUE.
DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds"
VOLUMETRIC DISCHARGE: VOLUME = EWeighted x AREA
P100-6Hr = 2.64 In., Zone 4, P100-24Hr. = 3.6 In., P100-10 Day=4.8 In. TC = 12 Minutes
DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [ ] = 10 YEAR VALUES

PRE-DEVELOPED CONDITIONS

LOT AREA = 0.21 ACRES, WHERE EXCESS PRECIP. 'A' = 0.76 In. [0.25]
PEAK DISCHARGE, Q100 = 0.44 CFS [XX], WHERE UNIT PEAK DISCHARGE = 2.09 CFS/AC. [0.7]
THEREFORE: VOLUME 100 = 579 CF [XXX]

DEVELOPED CONDITIONS

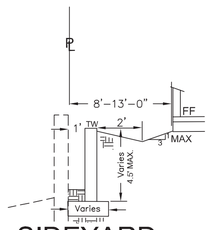
DETERMINE LAND TREATMENTS, PEAK DISCHARGE AND VOLUMETRIC DISCHARGE FOR STUDY AREA

	AREA	LAND TREATM'T	Q Peak	E
UNDEVELOPED	N/A	A	2.09[0.70]	0.76[0.25]
LANDSCAPING,;10-20% SL	0.07 Ac.(33%)	B	2.73[1.28]	0.95[0.41]
GRAVEL & COMP. SOIL; 20%>	0.03 Ac.(14%)	C	3.41[1.89]	1.20[0.59]
ROOF - PAVEMENT	0.11 Ac.(52%)	D	4.78[3.04]	3.34[2.15]
	0.21 Ac.			

THEREFORE: $E_{Weighted}$ = 2.19 In.[xx] &
Q100 = 0.82 CFS VOLUME 100 = 1669 CF

BASIN A = 3700 SF X 2"/12 = 600 CF ~ WEST RETENTION POND, REAR LOWER LEVEL
BASIN B = 3100 SF X 2"/12 = 500 CF~ (IF RETENTION) USE DETENTION POND (EAST) ==> FREE DISCHARGE
BASIN C = 2000 SF X 2"/12 = 333 CF, Q100~ 0.2 CFS, FREE DISCHARGE

EMERG. OVERFLOW: CHECK WEIR EQ. Q = CLH**3/2 WHERE: L=1', C=2.7, H= 8-1/2" (0.7') ==> Q= 1.6 CFS...OK
>> 2X Q Basin B



SIDEYARD RET. WALL SECTION

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 03/25/22
BY: Renée C Brissette
HydroTrans # J23D021

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

5/24/21

PHILIP W. CLARK NEW MEXICO 10285 REGISTERED PROFESSIONAL ENGINEER

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON, AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO SIGNIFICANT EARTHWORK NOR MAJOR DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PROJECT DATA

LEGAL DESCRIPTION
LOT 16, BLOCK 3, REBONITO SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NM

PROJECT BENCHMARK
PROJECTION OF SOUTHEAST PROPERTY CORNER, EXIST.TOP OF CURB SEE PLAN, ELEVATION =5994.87 AS REFERENCED FROM ACS MONUMENTATION SYSTEM & AGIS. 1-3/4" ALUM. CAP LOCATED AT THE REBONITO/MONTE CARLO INTERS., "15_J23", Elev. 5933.78 (NAVD88)
TOPO DESIGN SURVEY BY ROBERT FIERRO.

EXPRESSLY PREPARED FOR JAYESH & AKASH

Clark Consulting Engineers
Edgewood, New Mexico 87015
Tele: (505) 281-2444 Cell/Txt: (505) 264-6042

DATE	REVISION

LOT 16, BLOCK 3, REBONITO SUBDIVISION
ALBUQUERQUE, BERNALILLO COUNTY, NM
1717 ARCHULETA DR. NE

Grading & Drainage Plan

DESIGNED BY: PWC | DRAWN BY: CCE | PolblanosInvest
CHECKED BY: PWC | DATE: 4/23/21 | FILE #: G/D
1 OF 1

City Hyrdol. J23/D