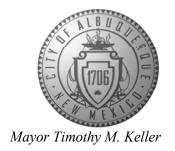
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



June 16, 2023

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

RE: 1998 Cherokee Rd NW

Grading and Drainage Plan

Engineer's Certification Date: 06/08/23

Engineer's Stamp Date: 04/26/23

Hydrology File: F13D034

Dear Mr.Clark:

PO Box 1293

Based upon the information provided in your submittal received 06/13/2023, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 1998 Cherokee Rd NW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (G): Engineer's Certification Checklist for Subdivision and Part 6-14 (H): Required Certification Language is required.

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



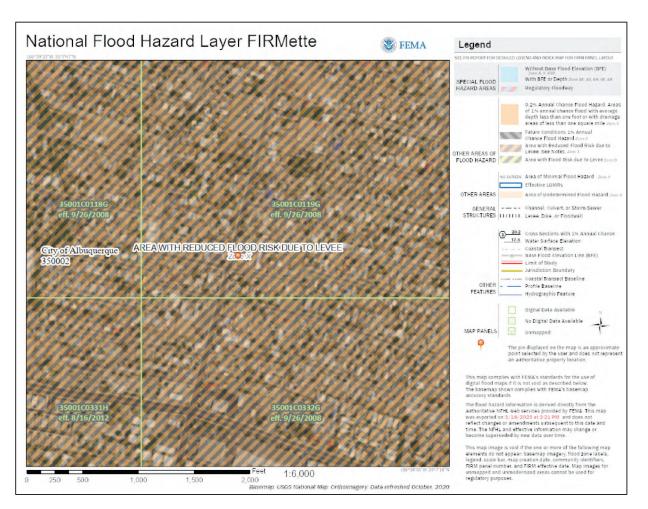
City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title:Buildin	g Permit #	Hydrology File # F13/ D
DRB#	EPC#	
Legal Description: LOT 2A1, LAND OF BETTY SKOO	GEN City Addre	ess OR Parcel 1998 Cherokee NW
Applicant/Agent: Clark Consulting Engineers Address: 19 Ryan Rd, Edgewood, NM 870 Email: CCEalbq@aol.com	Contact: _ O15 Phone:	Phil (505) 281-2444
Applicant/Owner	Contact	
Applicant/Owner:		
Address:Email:	Phone:	
RE-SUBMITTAL:YES _x NO SECTION :TRANSPORTATIONX Check all that apply:	_ HYDROLOG	SY/DRAINAGE
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION YPAD CERTIFICATION CONCEPTUAL G&D PLAN	X_BUILDIN CERTIFI	VAL/ACCEPTANCE SOUGHT: JIG PERMIT APPROVAL CATE OF OCCUPANCY TUAL TCL DRB APPROVAL
GRADING PLANDRAINAGE REPORTDRAINAGE MASTER PLANFLOOD PLAN DEVELOPMENT PERMIT APP.	PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG PERMIT APPROVAL FINAL PLAT APPROVAL SIA/RELEASE OF FINANCIAL GUARANTEE	
ELEVATION CERTIFICATECLOMR/LOMRTRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE TRAFFIC CIRCULATION LAYOUT FOR DRB	FOUNDA X GRADIN SO-19 AI	ATION PERMIT APPROVAL G PERMIT APPROVAL PPROVAL
TRAFFIC CIRCULATION LAYOUT FOR DRB APPROVALTRAFFIC IMPACT STUDY (TIS)STREET LIGHT LAYOUTOTHER (SPECIFY) PRE-DESIGN MEETING?	X GRADIN WORK C CLOMR/ FLOOD I	PERMIT APPROVAL G PAD CERTIFICATION PROBER APPROVAL LOMR PLAN DEVELOPMENT PERMIT SPECIFY)
DATE SUBMITTED: 6/8/23		·



PROJECT IS LOCATED IN ZONE X, NOT WITHIN A SPECIAL FLOOD HAZARD AREA

FIRM MAP REF: PANEL # C0118 G

DATED 9/26/08

GRADING & DRAINAGE PLAN

THE SINGLE LOT R-A PROJECT IS LOCATED IN THE GRIEGOS SECTION OF ALBUQUERQUE'S NORTH VALLEY APPROXIMATELY 3 MILES NORTH OF THE DOWNTOWN CORE OF ALBUQUERQUE, NM. THE GRADING & DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE CITY OF ALBUQ. DEVELOPMENT PROCESS MANUAL (DPM), CH. 6, ORIGINALLY SIGNED 6/8/20 - DRAINAGE, FLOOD AND EROSION CONTROL. THE PLAN IS REQUIRED IN ORDER TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PLAN SHOWS:

- 1. EXISTING CONTOURS, AND SPOT ELEVATIONS AND EXISTING DRAINAGE PATTERNS AND EXISTING IMPROVEMENTS: INCLUDING 1 RESIDENCE AND EXISTING FLATWORK
- 2. PROPOSED IMPROVEMENTS: SINGLE-FAMILY RESIDENCE, NEW CONCRETE PAD / GRADE ELEVATIONS, BERMS OR BARRIERS
- 3. CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS. 4. QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF-SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GEN-ERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO ESTABLISH CRITERIA FOR CON-TROLLING STORM RUNOFF AND EROSION, AND ESSENTIALLY ALLOWING HISTORIC FLOWS TO CONTINUE TO DRAIN THROUGH THE PROPERTY. PRESENTLY, THE SITE IS BOUNDED ON THE SOUTH, EAST AND THE WEST BY RESIDENCES. THE ACCESS ROAD, A PRIVATE STREET IS PRIVATELY MAINTAINED AND CONSISTS OF GRAVEL SURFACING. THE SITE CURRENTLY HAS SLOPES AT 0 TO 1% BUT IS GENERALLY FLAT.

HISTORICAL SITE RUNOFF OUTFALL LOCATIONS WILL REMAIN UNCHANGED. SINCE CHEROKEE RD AND PRIVATE WAY ARE IMPROVED ONLY MINIMAL GRADING IS PROPOSED WITHIN THE EASEMENT. FREE DISCHARGE OF DEVELOPED FLOW IS ACCEPTABLE, HOWEVER THE SITE IS FLAT THEREFORE A FLAT NW VALLEY GRADING SCHEME IS EMPLOYED. THIS PLAN ROUTES DEVELOPED RUNOFF THROUGH/TO THE PROPOSED

LANDSCAPE AREAS. THE SITE IS NOT IMPACTED ADVERSELY BY ANY OFF-SITE DRAINAGE FLOWS.

"Valley Drainage Criteria" PER SECTION 6-5 (A), OF THE DPM - SINGLE-LOT DEVELOPMENT

CALCULATIONS

DESIGN CRITERIA

HYDROLOGIC METHODS PER CHAPTER 6, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL (DPM) 2020 EDITION FOR CITY OF ALBUQUERQUE.

DISCHARGE RATE: Q=QPEAK x AREA.."Peak Discharge Rates For Small Watersheds" $VOLUMETRIC\ DISCHARGE:\ VOLUME\ =\ EWeighted\ x\ AREA$ P100-6 Hr= 2.29 In., Zone 2, P100-24 Hr.=2.59 In., P100-10 Day=3.6 In. TC = 12 Min. DESIGN STORM: 100-YEAR/6-HOUR, 10-YEAR/6-HOUR [] = 10 YEAR VALUES

EXISTING CONDITIONS

TOTAL AREA = 0.25 ACRES, WHERE EXCESS PRECIP. 'W' =1.01 In. PEAK DISCHARGE, Q100 = 0.75 CFS, WHERE UNIT PEAK DISCHARGE = 3.0 CFS/AC. THEREFORE: VOLUME 100 = 916 CF

DEVELOPED CONDITIONS

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

 $= 1271 + 0.085(1.31)/12 \times 43560 = 1675 CF$

AREA LAND TREATM'T Q Peak E UNDEVELOPED 0.00 Ac.(0%) A 1.71[0.41] 0.62[0.15] LANDSCAPING, Native, <10% 0.08 Ac.(33%) B 2.36[0.95] 0.80[0.30] GRAVEL & COMPACTED SOIL 0.08 Ac. (33%) C 0.09 Ac. (34%) D 0.25 Ac. 3.05[1.59] 1.03[0.48] 4.34[2.71] 2.33[1.51]

THEREFORE: E Weighted = 1.40 In. & VOLUME 100 = 1271 CF Q100 = 0.82 CFS ✓ V 10DAYS = V360 + AD * (P10DAYS - P360) / 12 in/ft

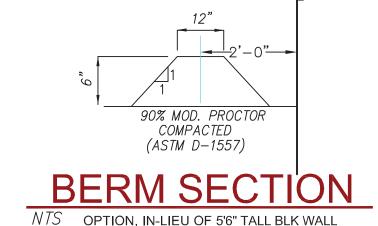
PART 6-5(A) SINGLE-LOT RESIDENTIAL DEVELOPMENT AND ADDITIONS

FOR LOTS LESS THAN 1 ACRE, WATER HARVESTING ON THE LOT IS REQUIRED. THE WATER HARVESTING VOLUME GOAL IS TO CAPTURE 1/2 INCH OF RUNOFF FROM IMPERVIOUS AREAS ON THE SITE. THEREFORE: 3726 SF X 0.5/12 = 155 CF

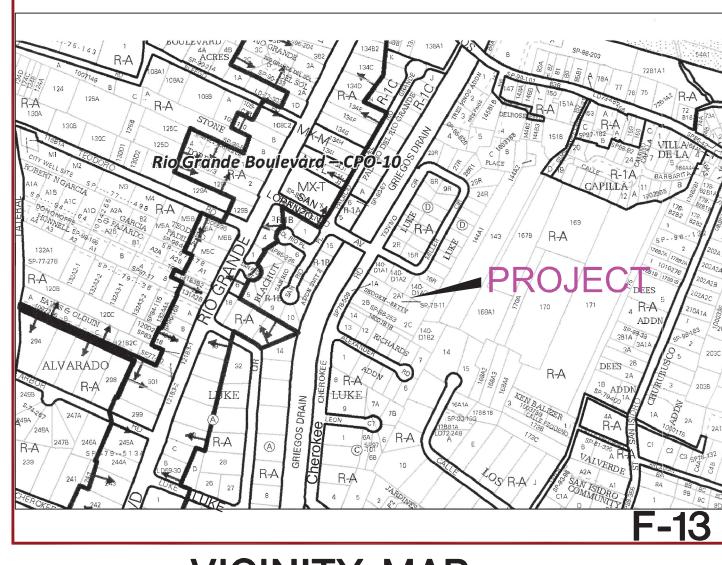
1. ROOF FLOWS SHOULD BE DIRECTED TO THE WATER HARVESTING

2. RUNOFF SHOULD NOT ADVERSELY IMPACT ADJACENT PROPERTIES. 3. THE FINISHED PAD ELEVATION IS RECOMMENDED TO BE A MINIMUM OF 12 INCHES ABOVE THE EDGE OF PAVEMENT OR ROADWAY. 4. STORMWATER MUST BE ALLOWED TO EQUALIZE TO SAME LEVEL BETWEEN

FRONT AND BACK YARDS (NO DAMS, BARRIERS, ETC. AND FREE FROM DEBRIS)







VICINITY MAP

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 EDITION.
- 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. 1011, NATIVE SEED MIX.
- 7. MAXIMUM SITE GRADING WITHOUT EROSION PROTECTION: 2 HORIZONTAL TO 1 VERTICAL, 2:1, <3' TALL. ALL DIMENSIONS TO FACE OF CURB, UNLESS NOTED OTHERWISE.

LEGEND

AS-BUILT RED SPOT ELEV./CALL-OUT EXIST. SPOT ELEVATION X4924.0 ____10 ___ EXIST. CONTOUR NEW SPOT ELEVATION (FINISH) **4** 24.0 NEW CONTOUR NEW SWALE DRAINAGE DIRECTION, EXISTING NEW CONCRETE CURB (0.5' HEIGHT) NEW P.C.C., CONCRETE TOP OF CURB, EXISTING TOP OF ASPHALT

AS-CONSTRUCTED_ I, PHILIP W. CLARK, PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH THE LAWS IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE GRADING AND DRAINAGE IMPROVEMENTS INDICATED ON THE PLAN WERE

CONSTRUCTED AS SHOWN, AND COMPLIES WITH THE DESIGN INTENT OF THE

APPROVED PLAN.

PHILIP W. CLARK, P.E.#10265

EC - EDGE OF CONCRETE

SASMH - SAS MAN HOLE

TA - TOP OF ASPHALT

TC - TOP OF CONCRETE

WM - WATER METER

FF - FINISH FLOOR

FL - FLOW LINE

G - GROUND

PROJECT DATA

LEGAL DESCRIPTION.

FLOWLINE

EXISTING POWER POLE

LOT 2-A-1, LAND OF BETTY SKOGEN ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

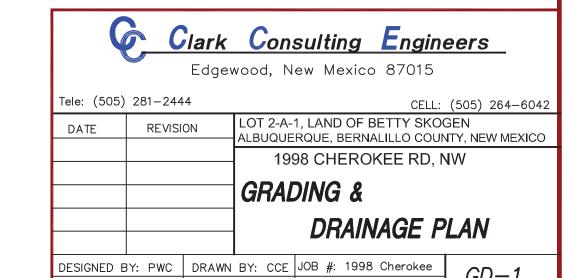
PROJECT BENCHMARK

TOP OF 1/2-INCH REBAR AT THE NW CORNER MSL ELEVATION = 4971.72, AS TIED FROM COA 3-1/4" DIAMETER ALUM DISK, "23_G14, NAVD 88, 4969.30.

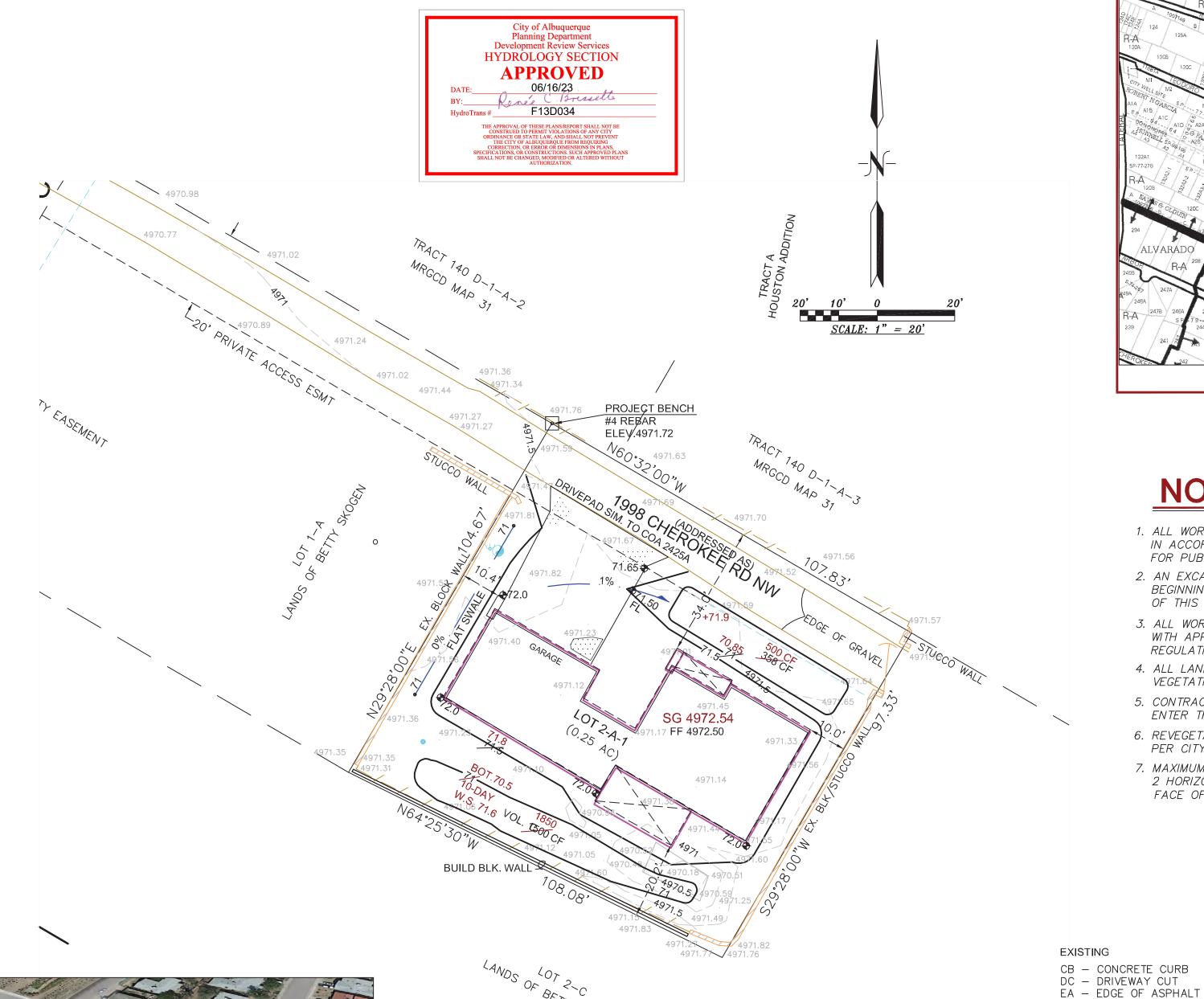
TOPOGRAPHIC DESIGN SURVEY

COMPILED BY CCE PROVIDED BY 2018 AGIS ORTHOPHOTOGRAPHY, AND COMMUNITY SCIENCES TOPO SURVEY, DATED 4/17/23.

CHECKED BY: PWC | DATE: APR. '23 | FILE #: G/D



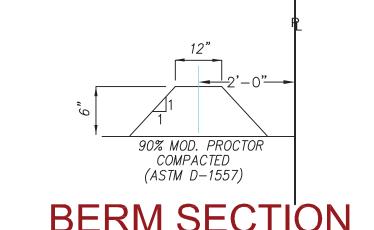
o P.P.





LOOKING NORTHWEST

DETERMINED.



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

