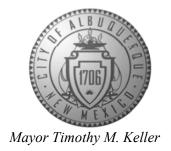
CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



September 9, 2021

Ron Hensley, P.E. The Group Branding Iron Rd. SE Rio Rancho, New Mexico 87124

RE: 8505 Mesa Rain Rd. NW
Watershed Subdivision
Grading and Drainage Plan
Engineers Certification Date 9/8/21
Engineers Stamp Date 7/7/2021 (H09D017A8)

Mr. Hensley,

Based upon the information provided in your submittal received 9/8/2021, this plan is approved for Building Permit by Hydrology

PO Box 1293 for Building Permit by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.

Albuquerque require

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103 Sincerely,

www.cabq.gov Ernest Armijo, P.E.

Principal Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building Permit #:_	Hydrology File #:				
DRB#:	EPC#:	Work Order#:				
Legal Description:						
City Address:						
Applicant:		Contact:				
Address:						
		E-mail:				
Owner:		Contact:				
Address:						
Phone#:	Fax#:	E-mail:				
TYPE OF SUBMITTAL:PLA	AT (# OF LOTS)	NCE DRB SITE ADMIN SITE				
IS THIS A RESUBMITTAL?:	YesNo					
DEPARTMENT: TRAFFIC/	TRANSPORTATION HYD	DROLOGY/ DRAINAGE				
Check all that Apply:	773	YPE OF APPROVAL/ACCEPTANCE SOUGHT:				
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERPAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMEN ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TOTHER (SPECIFY) PRE-DESIGN MEETING?	TIFICATION TO PERMIT APPLIC YOUT (TCL) TIS)	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:	By:					

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:____

FEE PAID:_____

65843 | 100% 65843 | 0% 0 | 0% 0 | 0%

EL 65.96~

0.34 CFS

L 65.98

11362 | 100% 11362 | 0% 0 | 0% 0 | 0% 0

OFFSITE BASINS

0 0 0 0 0 0

cu.-ft.)

0.4400

2414 1.95

RETENTION POND

WSEL = 5064.50

PROVIDED VOLUME = 260 CU.FT.

FP=65.4

FF=65.79

N 86°54'2.00" W 115.74'

MESA RAIN ROAD

(50' ROW)

FL = 5063.57

PETROGLYPH MONUMENT

LEGAL DESCRIPTION LOT 57 WATERSHED SUBDIVISION CITY OF ALBUQUERQUE BERNALILLO COUNTY, NEW MEXICO

City of Albuquerque Planning Department Development Review Services **HYDROLOGY SECTION**

APPROVED

7/21/2021

BY: Ernest armijo

TEMP. FLOOD

BERM WITH

RIP-RAP D50=6"

PLAIN EASEMENT

HydroTrans # H09D017A8

SD CONTAINED IN (

FIRM MAP NO. 35001C0326J

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.46 ACRES LOCATED ON THE NORTH SIDE OF MESA RAIN ROAD WEST OF UNSER BLVD. AS SEEN ON THE VICINITY MAP.

Petroglyph National Monument

FLOODPLAIN STATUS

THE CONSTRUCTION OF THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0326J, DATED NOVEMBER 4, 2016 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY **EQUATIONS:**

WEIGHTED E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

FLOW = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

WHERE FOR 100-YEAR, 6-HOUR STORM(ZONE1) Ea= 0.55 Qa= 1.54

Eb = 0.73 Qb = 2.16Ec= 0.95 Qc= 2.87

Ed= 2.24 Qd= 4.12

								_					
	AREA	TREATI	VENT A	TREATI	MENT B	TREAT	MENT	디	TREATI	MENT	D WEIGHTED E	VOLUME	FLOV
BASIN	(sf)	%	sf	%	sf	%	sf		%	sf	WEIGHTED E	(cuft.)	(cfs)
EXISTING	20243	100%	20243	0%	0	0%	0		0%	0	0.4400	742	0.60
PROPOSED	20243	50%	10122	30%	6122	0%	0		20%	4000	0.8119	1370	0.99
COLUMN CONTRACTOR	Processor Contracts	100000000000000000000000000000000000000	Marin Harman	20000000	6122	10.00	0			4000	1500,000,000,000	30 1000	.00000000000000000000000000000000000000

PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE DEVELOPMENT PROCESS MANUAL, SECTION 6-2.

EXISTING DRAINAGE

THE SITE IS WITHIN THE AREA OF THE WATERSHED SUBDIVISION DRAINAGE PLAN, HO9D017A, WITH AN ALLOWABLE DISCHARGE OF 3.07 CFS/AC. GIVING THE LOT AN ALLOWABLE DISCHARGE OF 1.43 CFS HISTORIC DRAINAGE WHICH ENTERS THE SITE FROM THE WEST DRAINS TO THE EXISTING FLOODPLAIN. THERE ARE TWO BASINS FROM ADJACENT PROPERTIES THAT DRAIN TO THIS SITE. THE MINIMAL FLOWS WILL BE DIRECTED TO THE HISTORIC POINTS OF DISCHARGE.

DEVELOPED CONDITION

THIS SITE WILL BE DEVELOPED AS A SINGLE FAMILY HOME WITH DEVELOPED RUNOFF ROUTED TO RETENTION PONDS WITH COMBINED VOLUME OF 307 CU.FT. THE PROPOSED TOTAL RUNOFF FROM THE LOT OF 0.99 CFS WILL DISCHARGE TO HISTORIC POINTS.

REQUIRED WATER QUALITY VOLUME

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: IMPERVIOUS AREA * (0.44-0.10)/12 IN CUBIC FEET.

IMPERVIOUS AREA = 4,000 SQ.FT.

4:1 MAX TOP (WSEL) OF POND ELEV

- BOTTOM OF POND ELEV

REQUIRED VOLUME = 4,000 * (0.44-0.10)/12 = 113 CU.FT.VOLUME PROVIDED = 260 CU.FT.

LEGEND

FLOW ARROW SLOPE ARROW

— EXISTING CONTOUR ——— EXISTING CONTOUR

4.00% PROPOSED GRADE EXISTING WALL

VICINITY MAP H-09-Z

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE

LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES,

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO 8.

2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.

3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBLITY OF THE PROPERTY OWNER.

4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEEDED OR LANDSCAPED

5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.

6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

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 FACILITES 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

EL=11.28 PROPOSED ELEVATION ×66.33 EXISTING ELEVATION GRADE BREAK

PROPOSED EASEMENT

PROPOSED WALL

THE

=group=THE HENSLEY ENGINEERING GROUP 300 BRANDING IRON RD. SE RIO RANCHO, NEW MEXICO 87124 Phone:(505) 410-1622

REVISIONS

MEX

 \triangleleft GE NW \triangleleft N N 5 N K 10 \odot ∞

DRAWN 06/15/20 JOB NUMBER PLAN #

SHEET

AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS

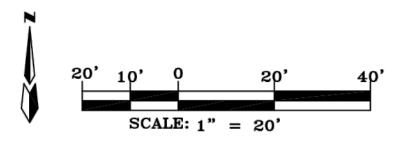
I, <u>RON E. HENSELY</u>, NMPE <u>21850</u>, OF THE FIRM <u>THE GROUP</u>, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED READY FOR BUILDING PERMIT IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED <u>7/07/2021</u>, THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY TIMOTHY ALDRICH, NMPS <u>7719</u>, OF THE FIRM <u>ALDRICH LAND SURVEYING</u>.
FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 9/08/2021, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR GRADING CERTIFICATION. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING

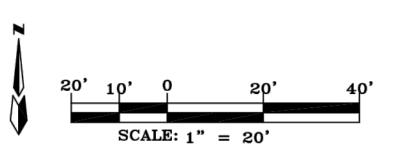
RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT

VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER

DRAINAGE CERTIFICATION

PURPOSE.





EL 62.35-

EL 62.04~