

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

July 22, 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 Stamp Date 7/7/2021 (H09D017A8)

Mr. Hensley,

Based upon the information provided in your submittal received 7/8/2021, this plan is approved for Grading Permit.

PO Box 1293

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque

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

NM 87103

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

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: 8505 MESA RAIN **Building Permit #:** _____ **Hydrology File #:** H09D017A2
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOT 57, WATERSHED SUBDIVISION
City Address: 8505 MESA RAIN RD NW

Applicant: THE Group **Contact:** Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124
Phone#: 505-410-1622 **Fax#:** _____ **E-mail:** ron@thegroup.cc
Owner: Stillbrooke **Contact:** Scott Henry
Address: 8801 Jefferson NE Bldg. A, ALBUQUERQUE, NM 87113
Phone#: 505-858-1800 **Fax#:** _____ **E-mail:** scotth@stillbrooke.com

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

_____ ENGINEER/ARCHITECT CERTIFICATION
_____ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
_____ DRAINAGE MASTER PLAN
_____ DRAINAGE REPORT
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ OTHER (SPECIFY) _____
_____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

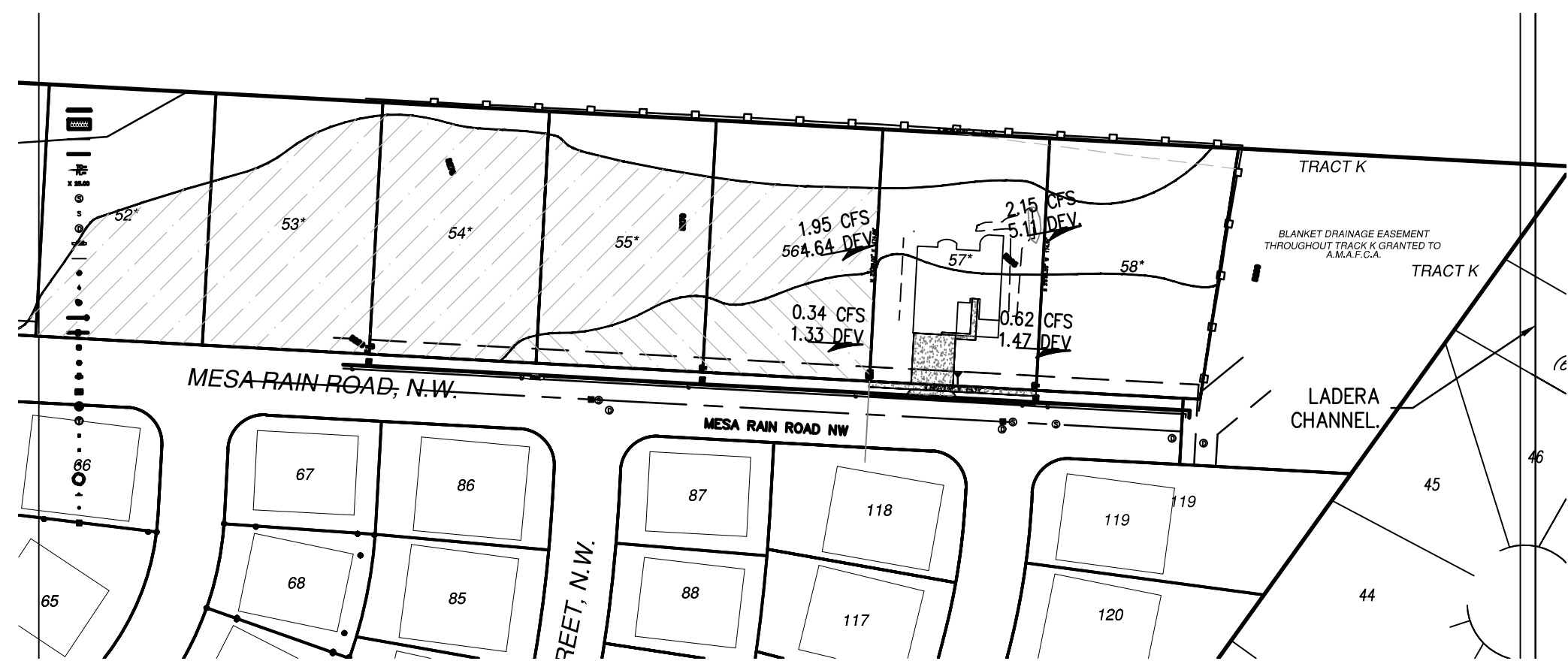
☒ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR
_____ FLOODPLAIN DEVELOPMENT PERMIT
_____ OTHER (SPECIFY) _____

DATE SUBMITTED: 7/08/21 **By:** THE Group / Ron Hensley

COA STAFF:

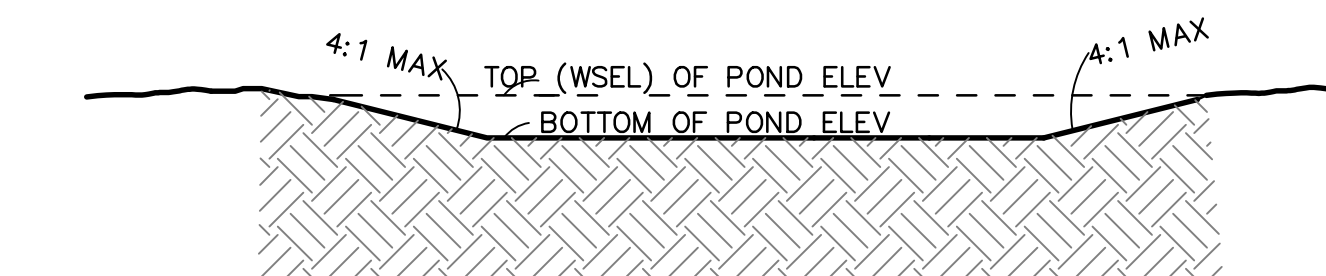
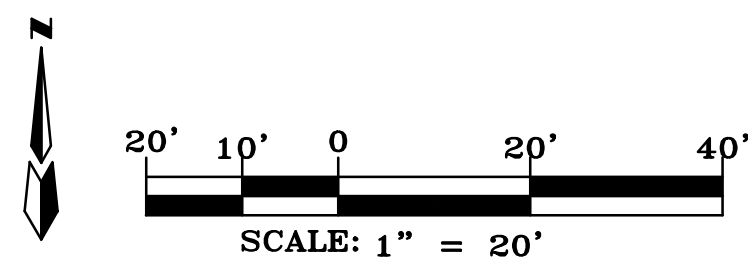
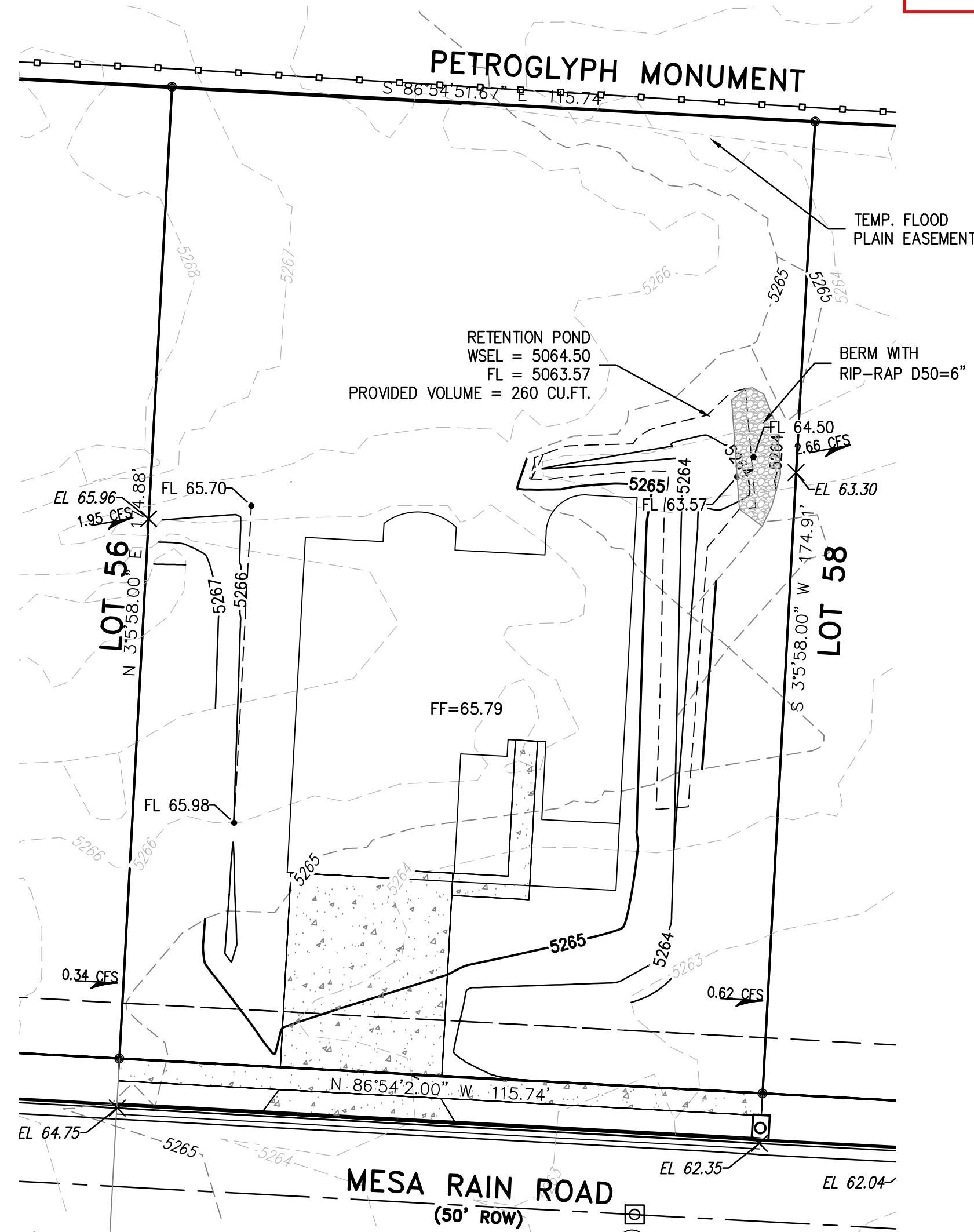
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



BASIN	AREA (sf)	TREATMENT A % sf	TREATMENT B % sf	TREATMENT C % sf	TREATMENT D % sf	WEIGHTED E	VOLUME (cu.-ft.)	FLOW (cfs)
BASIN A	65843	100%	65843	0%	0	0%	0	0.4400
BASIN B	11362	100%	11362	0%	0	0%	0	0.4400

OFFSITE BASINS

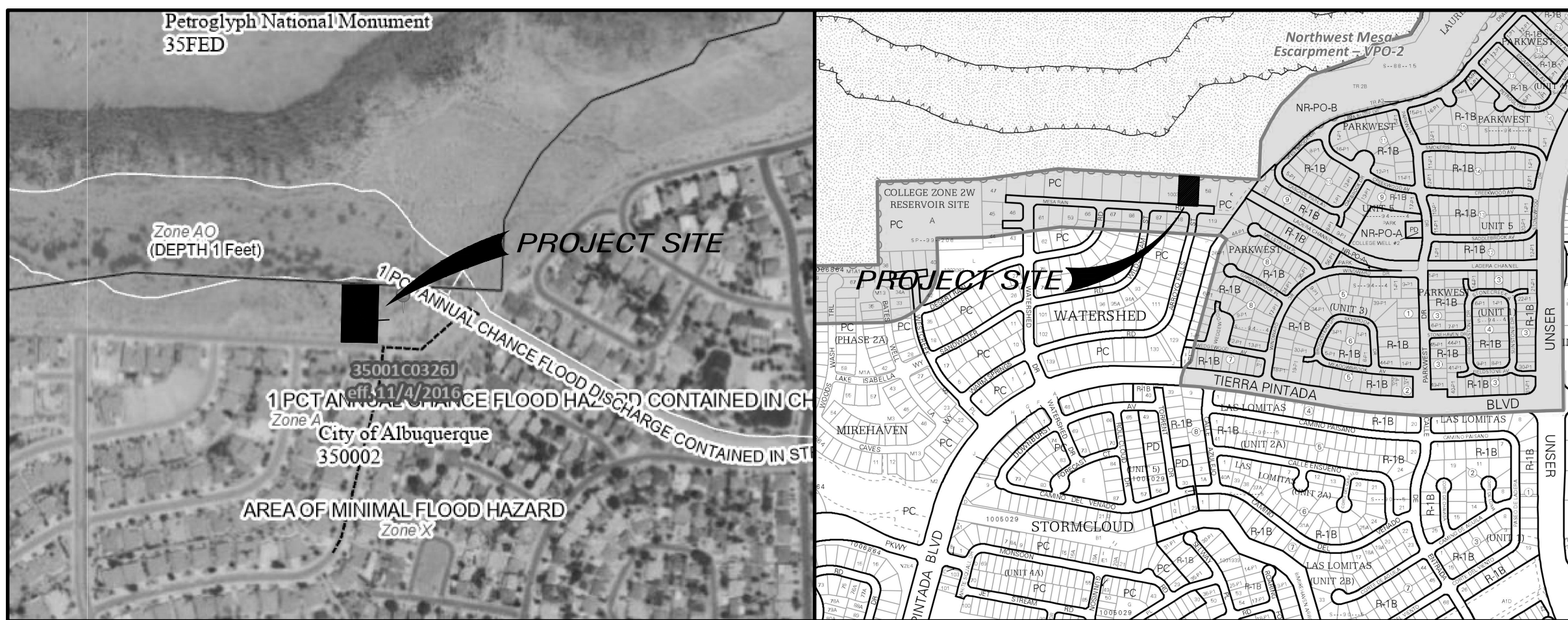


LEGAL DESCRIPTION

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

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 7/21/2021
BY: Ernest Arroyo
HydroTrans # H09D017A8

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSIDERED TO BE A GUARANTEE OF THE ACCURACY OF THE
INFORMATION PROVIDED HEREON. THE CITY OF ALBUQUERQUE
PLANNING DEPARTMENT SHALL NOT BE RESPONSIBLE FOR
ANY ERRORS OR OMISSIONS IN THESE PLANS/REPORTS.
SPECIFIC ACTIONS OR CONSTRUCTIONS, SUCH AS APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.



FIRM MAP NO. 35001C0326J

VICINITY MAP H-09-Z

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.

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 = $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$ / (Total Area)

FLOW = $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

WHERE FOR 100-YEAR, 6-HOUR STORM (ZONE1)

$E_a = 0.55$ $Q_a = 1.54$

$E_b = 0.73$ $Q_b = 2.16$

$E_c = 0.95$ $Q_c = 2.87$

$E_d = 2.24$ $Q_d = 4.12$

BASIN	AREA (sf)	TREATMENT A % sf	TREATMENT B % sf	TREATMENT C % sf	TREATMENT D % sf	WEIGHTED E	VOLUME (cu.-ft.)	FLOW (cfs)
EXISTING	20243	100%	20243	0%	0	0%	0	0.4400
PROPOSED	20243	50%	10122	30%	6122	0%	0	2.0%

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, H09D017A, 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.

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

LEGEND

	FLOW ARROW
	SLOPE ARROW
	PROPOSED ELEVATION
	EXISTING ELEVATION
	GRADE BREAK
	EXISTING CONTOUR
	EXISTING CONTOUR
	PROPOSED EASEMENT
	PROPOSED GRADE
	EXISTING WALL
	PROPOSED WALL

THE
group

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

REVISIONS	BY



Stillbrooke
STILLBROOKE HOMES
8801 JEFFERSON NE BLDG. A
ALBUQUERQUE, NM 87113

GRADING AND DRAINAGE PLAN
8505 MESA RAIN RD NW

DRAWN

DATE
06/15/20
JOB NUMBER

PLAN

SHEET