

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

July 31, 2025

Ron Hensley, P.E.
THE Group
300 Branding Iron Rd. SE
Rio Rancho, NM 87124

RE: 3927 Mourning Dove Place NW
Engineer's Certification Date: 07/18/2025
Engineer's Stamp Date: 09/23/2022
Hydrology File: G11D014D62
Case # HYDR-2025-00267

Dear Mr. Hensley:

PO Box 1293

Based on the Certification received 07/28/2025 and a site visit on 07/31/2025, this letter serves as an approval from Hydrology Section of the Engineer's Certification for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

Albuquerque

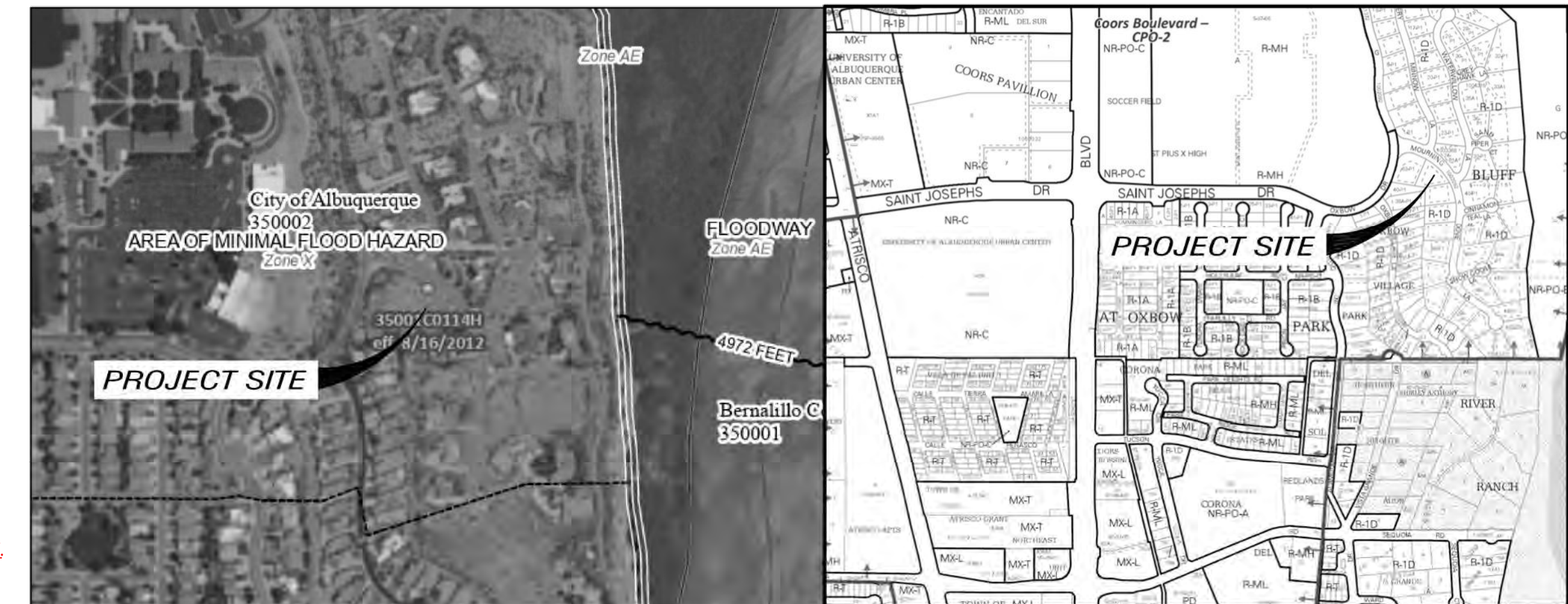
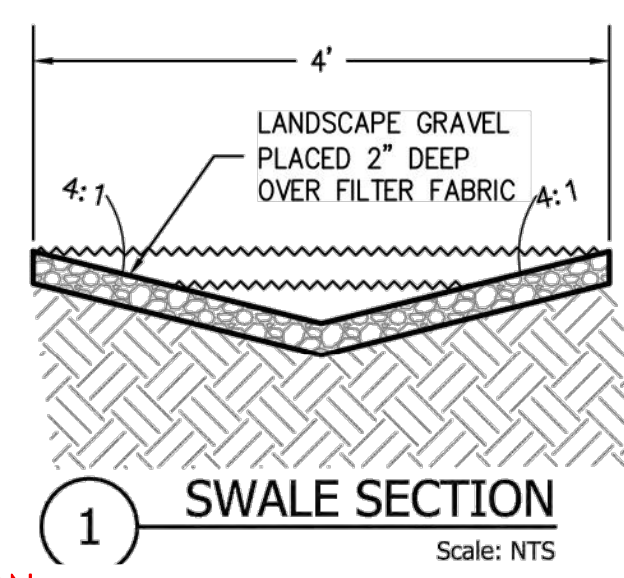
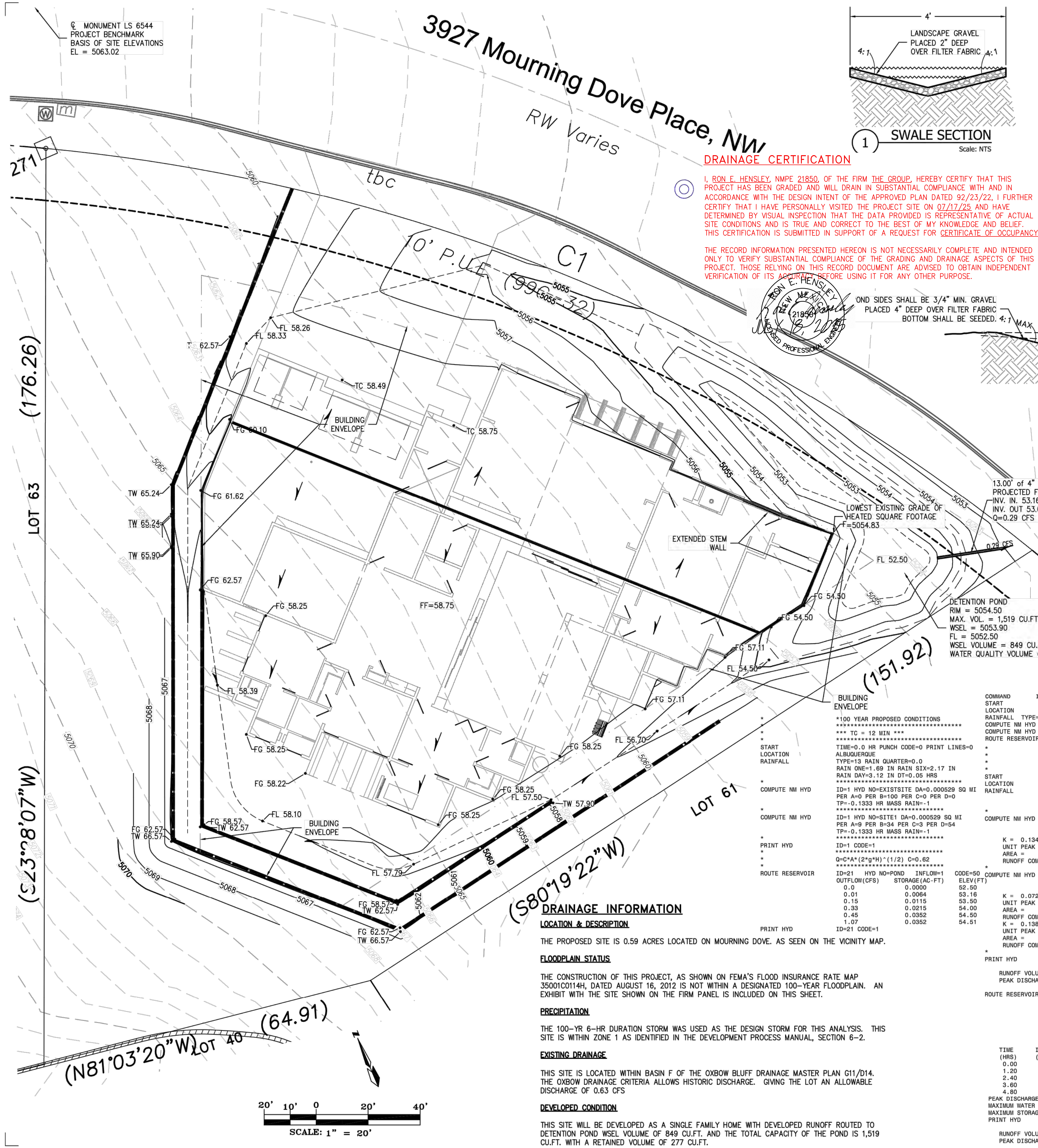
If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

NM 87103

www.cabq.gov

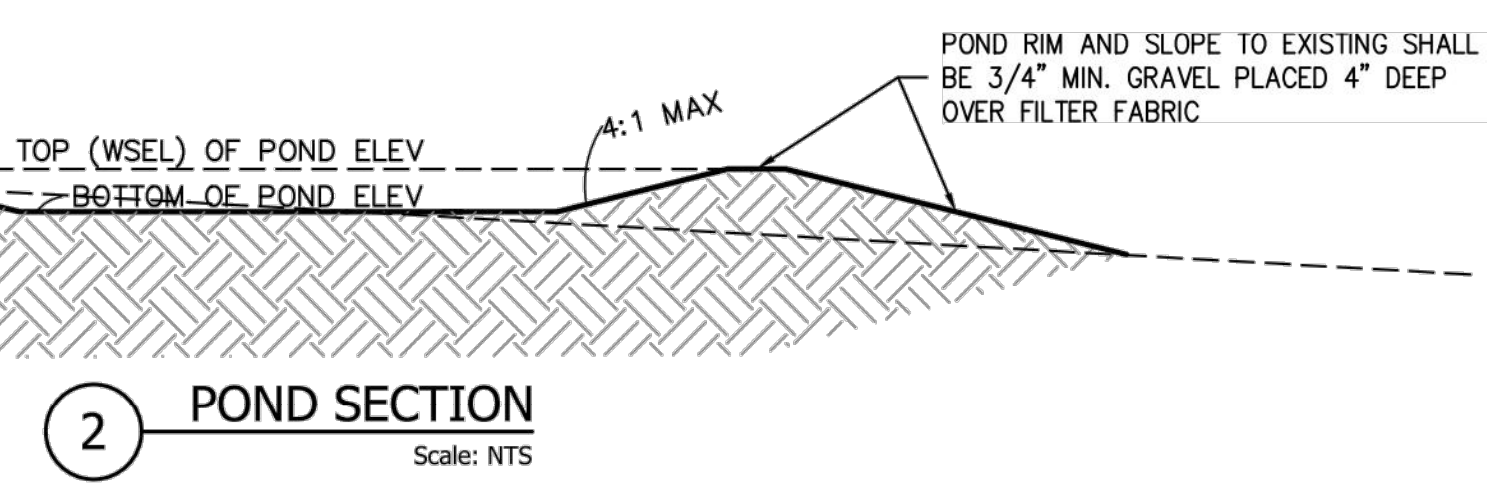
Anthony Montoya, Jr., P.E., CFM
Senior Engineer, Hydrology
Planning Department, Development Review Services



DRAINAGE CERTIFICATION

I, RON E. HENSLEY, NMPE 21850, OF THE FIRM THE GROUP, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 92/23/22. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 07/17/25 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE 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 CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



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 * 0.42/12 IN CUBIC FEET.

IMPERVIOUS AREA = 7,190 SQ.FT.
REQUIRED VOLUME = 7,190 * 0.42/12 = 277 CU.FT.
VOLUME PROVIDED = 278 CU.FT.



DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 0.59 ACRES LOCATED ON MOURNING DOVE. AS SEEN ON THE VICINITY MAP.

FLOODPLAIN STATUS

THE CONSTRUCTION OF THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0114H, DATED AUGUST 16, 2012 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

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

THIS SITE IS LOCATED WITHIN BASIN F OF THE OXBOW BLUFF DRAINAGE MASTER PLAN G11/D14. THE OXBOW DRAINAGE CRITERIA ALLOWS HISTORIC DISCHARGE. GIVING THE LOT AN ALLOWABLE DISCHARGE OF 0.63 CFS

DEVELOPED CONDITION

THIS SITE WILL BE DEVELOPED AS A SINGLE FAMILY HOME WITH DEVELOPED RUNOFF ROUTED TO DETENTION POND WSEL VOLUME OF 849 CU.FT. AND THE TOTAL CAPACITY OF THE POND IS 1,519 CU.FT. WITH A RETAINED VOLUME OF 277 CU.FT.

COMMAND		HYDROGRAPH		FROM	TO	AREA		PEAK	RUNOFF	RUNOFF	TIME	CFS	PAGE = 1	
START		IDENTIFICATION		ID	ID	NO.		DISCHARGE	VOLUME	(INCHES)	(HOURS)	PER	NOTATION	
LOCATION		ALBUQUERQUE						(CFS)	(AC-FT)			ACRE	TIME= 0.00	
RAINFALL		TYPE=13												
COMPUTE NM HYD		EXISTSITE		-	1	0.00053		0.63	0.017	0.59485	1.500	1.855	RAIN24= 3.120	
COMPUTE NM HYD		SITE1		-	1	0.00053		0.99	0.051	1.80887	1.500	2.936	PER IMP= 0.00	
ROUTE RESERVOIR		POND		1	21	0.00053		0.29	0.051	1.80839	1.800	0.867	AC-FT= 0.019	
* *100 YEAR PROPOSED CONDITIONS														

* *** TG = 12 MIN ***														

START TIME=0.0 HR PUNCH CODE=0 PRINT LINES=0														
LOCATION		ALBUQUERQUE												
RAINFALL		TYPE=13 RAIN QUANTER=0.0												
		RAIN ONE=1.69 IN RAIN SIX=2.17 IN												
		RAIN DAY=3.12 IN DT=0.05 HRS												

COMPUTE NM HYD		ID=1 HYD NO-EXISTSITE DA=0.000529 SQ MI												
		PER A=0 PER B=100 PER C=0 PER D=0												
		TP=0.1333 HR MASS RAIN=1												
		K = 0.134159HR	TP = 0.133300HR	K/TP RATIO = 1.006445	SHAPE CONSTANT, N = 3.507338									
		UNIT PEAK = 1.2734 CFS	UNIT VOLUME = 0.9901	B = 320.87	P60 = 1.6900									
		AREA = 0.1384629 SQ MI	IA = 0.50000 INCHES	INF = 1.54000 INCHES PER HOUR										
		RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000												

COMPUTE NM HYD		ID=1 HYD NO-SITE1 DA=0.000529 SQ MI												
		PER A=0 PER B=34 PER C=0 PER D=4												
		TP=0.1333 HR MASS RAIN=1												
		K = 0.072649HR	TP = 0.133300HR	K/TP RATIO = 0.545000	SHAPE CONSTANT, N = 7.106428									
		UNIT PEAK = 1.1278 CFS	UNIT VOLUME = 0.9891	B = 525.28	P60 = 1.6900									
		AREA = 0.002086 SQ MI	IA = 0.10000 INCHES	INF = 0.04000 INCHES PER HOUR										
		RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000												
		UNIT PEAK = 0.1384629 CFS	TP = 0.133300HR	K/TP RATIO = 1.041605	SHAPE CONSTANT, N = 3.398906									
		UNIT PEAK = 0.56983 CFS	UNIT VOLUME = 0.9781	B = 312.15	P60 = 1.6900									
		AREA = 0.000243 SQ MI	IA = 0.51957 INCHES	INF = 1.30478 INCHES PER HOUR										
		RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000												

PRINT HYD		ID=1 CODE=1												
		RUNOFF VOLUME = 1.80887 INCHES		HYDROGRAPH FROM AREA SITE1										
		PEAK DISCHARGE RATE = 0.99 CFS AT 1.500 HOURS		BASIN AREA = 0.0005 SQ. MI.										
ROUTE RESERVOIR		ID=21	HYD NO-POND	INFLOW=1	CODE=50									
		OUTFLOW(CFS)	STORAGE(AC-FT)	ELEV(FT)										
		0.0	0.000	52.50										
		0.01	0.0064	53.16										
		0.15	0.0115	53.50										
		0.33	0.0215	54.00										
		0.45	0.0352	54.50										
		1.07	0.0352	54.51										
				ELEV	VOLUME	OUTFLOW								
TIME		INFLOW	ELEV	VOLUME	OUTFLOW									
(HRS)		(CFS)	(FEET)	(AC-FT)	(CFS)									
0.00		0.00	52.50	0.000	0.00									
1.20		0.04	52.59	0.001	0.00									
2.40		0.04	53.62	0.014	0.19									
3.60		0.01	53.20	0.007	0.02									
4.80		0.01	53.15	0.006	0.01									
PEAK DISCHARGE = 0.294 CFS - PEAK OCCURS AT HOUR 1.80														
MAXIMUM WATER SURFACE ELEVATION = 53.899														
MAXIMUM STORAGE = 0.0195 AC-FT		INCREMENTAL TIME= 0.050000HRS												
PRINT HYD		ID=21 CODE=1		HYDROGRAPH FROM AREA POND										
		RUNOFF VOLUME = 1.80839 INCHES		= 0.0510 ACRE-FEET										
		PEAK DISCHARGE RATE = 0.29 CFS AT 1.800 HOURS		BASIN AREA = 0.0005 SQ. MI.										