

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

April 24, 2024

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 3815 Mourning Dove Place NW
Revised Grading and Drainage Plan
Engineer's Stamp Date: 04/15/24
Hydrology File: G11D014D1**

Dear Mr. Soule:

Based upon the information provided in your submittal received 04/15/2024, the Revised Grading and Drainage Plan is approved for Building Permit and Grading Permit. 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.

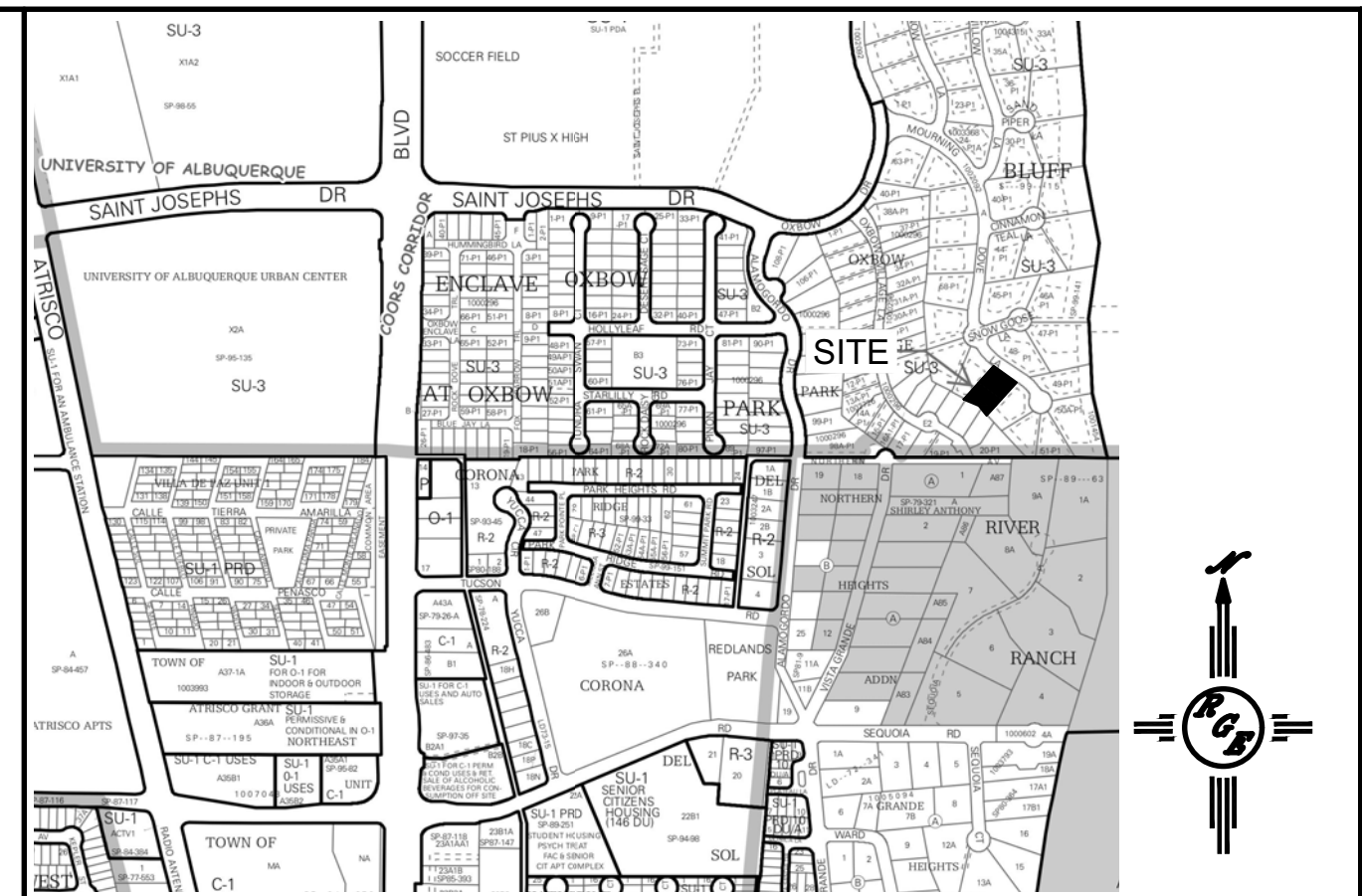
Sincerely,

Renée C. Brissette

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

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	V100 GENERATED	Q100 DISCHARGED
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
SITE TO POND	13340	0.306	0%	0.2955	18.0%	0.1214	29.0%	0.1384	53%	0.0527	0.94	1768	0.074
SITE NOT TO POND	3596	0.083	0%	0.0156	5.0%	0.0747	25.0%	0.0762	70%	0.0527	0.29	553	0.29
TOTAL SITE HISTORIC	16936	0.389	72%	0.2799	12.0%	0.0467	16.0%	0.0622	0%	0.0000	0.48	749	0.48
											HISTORICAL		0.48
											PROPOSED		0.36

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 FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

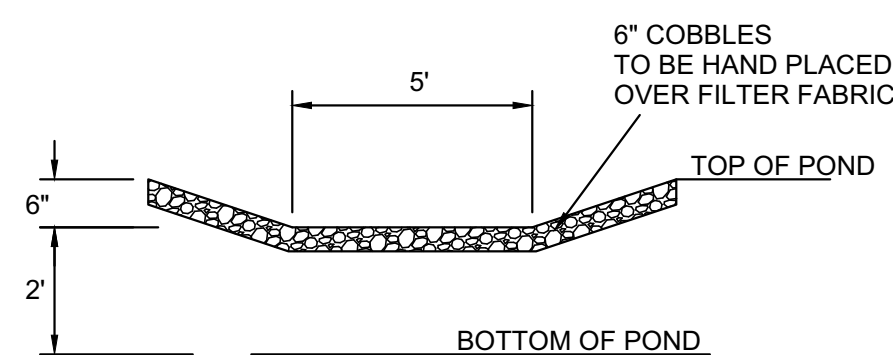
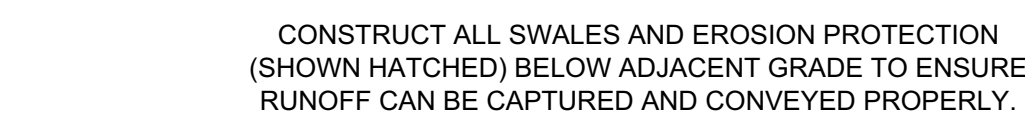
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LEGAL DESCRIPTION:

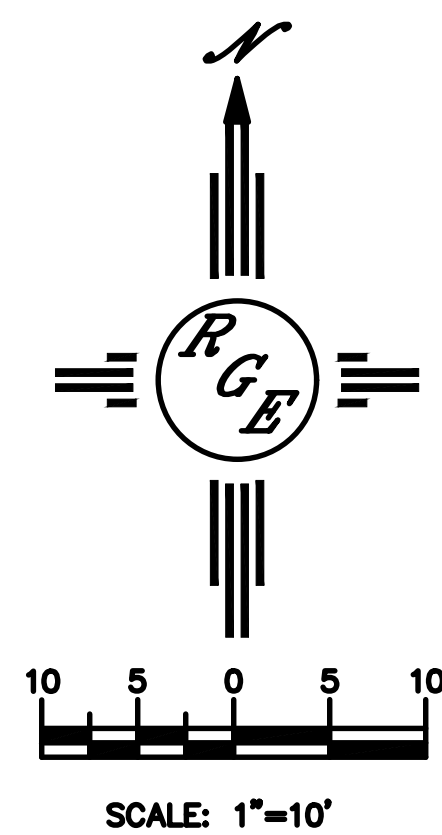
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAV DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED CONTOUR
	PROPOSED INDEX CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	BOUNDARY
	ADJACENT BOUNDARY
	EXISTING CURB AND GUTTER
	PROPOSED EARTHEN SWALE
	PROPOSED RETAINING WALL
	PROPOSED CONCRETE
	PROPOSED PONDING
	PROPOSED NATURAL ROCK LANDSCAPE WALL



EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.



ENGINEER'S SEAL	3815 MOURNING DOVE	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 6-27-23
4/15/24		3815 MOURNING DOVE.DWG SHEET # C1
DAVID SOULE P.E. #14522	PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099	JOB # _____

BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	V100 GENERATED	Q100 DISCHARGED
			%	(acres)	(acres)	%	(acres)	%	(acres)				
SITE TO POND	13340	0.306	0%	0.2955	18.0%	0.1214	29.0%	0.1384	53%	0.0527	0.94	1768	0.074
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TOTAL SITE HISTORIC	16936	0.389	72%	0.2799	12.0%	0.0467	16.0%	0.0622	0%	0.0000	0.48	749	0.48
											HISTORICAL		0.48
											PROPOSED		0.36

VOLUME CALCULATIONS

OUTFALL

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVE	VOLUME AC-FT	Q (CFS)
52.35	0.00	798.00	84.00	84	0.001	0.00
52.75	0.00	988.00	446.50	530.50	0.012	0.00
53.00	0.08	1108.00	1572.00	2102.50	0.048	0.12
53.85	1.68	1699.00	2105.25	4207.75	0.097	0.54

Orifice Equation
Q = CA SQRT(2gH)

C = 0.6
Diameter (in) 4
Area (ft^2)= 0.087266463
g = 32.2
H (Ft) = Depth of water above center of orifice
Q (CFS)= Flow

43.56

AHYMO.OUT									
AHYMO PROGRAM (AHYMO-S4) Version: S4-01a - Rel: 01a									
RUN DATE (MON/DAY/YR) = 04/15/2024									
START TIME (HR:MIN:SEC) = 08:56:50 USER NO. = RioGrandeEngleA41661517									
INPUT FILE = mls and Settings\Omer\Desktop\2023									
J085\2023144-mourningdove\pondrout04124.txt									
*S AHYMO - DETENTION-MOURNING									
POND ROUTING									
START TIME=0.0 PUNCH CODE=0									
RAINFALL TYPE=2									
QUANTER=0.0 CN=1.69 IN									
SIX=2.17 IN DAY= 2.49 IN DT = 0.05 HR									
24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1									
DT = 0.050000 HOURS END TIME = 24.000002 HOURS									
0.0000 0.0032 0.0065 0.0100 0.0138 0.0178 0.0222									
0.0255 0.0381 0.0540 0.0803 0.0973 0.0845 0.0971									
0.1101 0.1233 0.1379 0.1531 0.1696 0.1914 0.2158									
0.2486 0.2857 0.3315 0.3926 0.4634 0.5802 0.7649									
1.0813 1.3037 1.4791 1.5672 1.6444 1.6999 1.7441									
1.7626 1.8108 1.8366 1.8500 1.8754 1.8908 1.9048									
1.9178 1.9294 1.9403 1.9510 1.9613 1.9698 1.9746									
1.9793 1.9859 1.9882 1.9923 1.9961 2.0008 2.0048									
2.0087 2.0124 2.0162 2.0198 2.0234 2.0269 2.0303									
2.0336 2.0369 2.0402 2.0433 2.0464 2.0495 2.0525									
2.0555 2.0584 2.0613 2.0642 2.0670 2.0698 2.0725									
2.0753 2.0780 2.0806 2.0833 2.0859 2.0884 2.0910									
2.0935 2.0960 2.0985 2.1009 2.1033 2.1057 2.1081									
2.1104 2.1129 2.1153 2.1173 2.1196 2.1218 2.1240									
2.1262 2.1284 2.1306 2.1327 2.1348 2.1369 2.1390									
2.1410 2.1431 2.1451 2.1471 2.1491 2.1511 2.1530									
2.1550 2.1569 2.1588 2.1607 2.1626 2.1645 2.1663									
2.1682 2.1700 2.1709 2.1718 2.1727 2.1736 2.1744									
2.1753 2.1762 2.1771 2.1780 2.1789 2.1798 2.1807									
2.1816 2.1824 2.1833 2.1842 2.1851 2.1860 2.1869									
2.1878 2.1887 2.1896 2.1904 2.1913 2.1922 2.1931									
2.1940 2.1949 2.1958 2.1967 2.1976 2.1984 2.1993									
2.2002 2.2011 2.2020 2.2029 2.2038 2.2047 2.2056									
2.2064 2.2073 2.2082 2.2091 2.2100 2.2109 2.2118									
2.2127 2.2136 2.2144 2.2153 2.2162 2.2171 2.2180									
2.2189 2.2198 2.2207 2.2216 2.2224 2.2233 2.2242									
2.2251 2.2260 2.2269 2.2278 2.2286 2.2295 2.2304									
2.2313 2.2322 2.2331 2.2340 2.2349 2.2358 2.2367									
2.2376 2.2384 2.2393 2.2402 2.2411 2.2420 2.2429									
2.2438 2.2447 2.2456 2.2464 2.2473 2.2482 2.2491									
2.2500 2.2509 2.2518 2.2527 2.2536 2.2544 2.2553									
2.2562 2.2571 2.2580 2.2589 2.2598 2.2607 2.2616									
2.2624 2.2633 2.2642 2.2651 2.2660 2.2669 2.2678									
2.2687 2.2696 2.2704 2.2713 2.2722 2.2731 2.2740									
2.2749 2.2758 2.2767 2.2776 2.2784 2.2793 2.2802									
2.2811 2.2820 2.2829 2.2838 2.2847 2.2856 2.2864									
2.2873 2.2882 2.2891 2.2900 2.2909 2.2918 2.2927									
2.2936 2.2944 2.2953 2.2962 2.2971 2.2980 2.2989									
2.2998 2.3007 2.3016 2.3024 2.3033 2.3042 2.3051									
2.3060 2.3069 2.3078 2.3087 2.3096 2.3104 2.3113									
2.3122 2.3131 2.3140 2.3149 2.3158 2.3167 2.3176									
2.3185 2.3193 2.3202 2.3211 2.3220 2.3229 2.3238									
2.3247 2.3256 2.3265 2.3273 2.3282 2.3291 2.3300									
2.3309 2.3318 2.3327 2.3336 2.3345 2.3353 2.3362									
2.3371 2.3380 2.3389 2.3398 2.3407 2.3416 2.3425									
2.3433 2.3442 2.3451 2.3460 2.3469 2.3478 2.3487									
2.3496 2.3505 2.3513 2.3522 2.3531 2.3540 2.3549									
2.3558 2.3567 2.3576 2.3585 2.3593 2.3602 2.3611									
2.3620 2.3629 2.3638 2.3647 2.3656 2.3665 2.3673									
2.3682 2.3691 2.3700 2.3709 2.3718 2.3727 2.3736									
Page 1									

AHYMO.OUT									
0.0	24.150	0.0	0.0	9.450	0.0	14.400	0.0	19.350	
0.0	4.500	0.0	0.0	9.600	0.0	14.550	0.0	19.500	
0.0	4.650	0.0	0.0	9.750	0.0	14.700	0.0	19.650	
0.0	4.800	0.0	0.0	9.750	0.0	14.700	0.0	19.650	
RUNOFF VOLUME = 1.58963 INCHES = 1.550 HOURS BASIN AREA = 0.0005 SQ. MI.									
PEAK DISCHARGE RATE = 0.94 CFS AT 1.550 HOURS									
*BASIN NOT TO POND									
COMPUTE NH HYD ID=3 HYD NO=103 DA=.0001288888 SQ MI									
PER A=0 PER B=5 PER C=25 PER D=70									
TP=.170 MASSRA=1									
7.106428 K = 0.092650HR TP = 0.170000HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N =									
UNIT PEAK = 0.27952 CFS UNIT VOLUME = 0.9587 B = 526.28 P60 =									
1.6900 AREA = 0.000090 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR									
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000									
4.374939 K = 0.138870HR TP = 0.170000HR K/TP RATIO = 0.816881 SHAPE CONSTANT, N =									
UNIT PEAK = 0.86371E-01CFS UNIT VOLUME = 0.8768 B = 379.44 P60 =									
1.6900 AREA = 0.000039 SQ MI IA = 0.37500 INCHES INF = 0.90000 INCHES PER HOUR									
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000									
PRINT HYD ID=3 CODE=3									
PARTIAL HYDROGRAPH 103.00									
FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME
CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS
0.0	0.000	19.800	0.0	4.950	0.0	9.900	0.0	14.850	
0.0	0.150	19.950	0.0	5.100	0.0	10.050	0.0	15.000	
0.0	0.300	20.100	0.0	5.250	0.0	10.200	0.0	15.150	
0.0	0.450	20.250	0.0	5.400	0.0	10.350	0.0	15.300	
0.0	0.600	20.400	0.0	5.550	0.0	10.500	0.0	15.450	
0.0	0.750	20.550	0.0	5.700	0.0	10.650	0.0	15.600	
0.0	0.900	20.700	0.0	5.850	0.0	10.800	0.0	15.750	
0.0	1.050	20.850	0.0	6.000	0.0	10.950	0.0	15.900	
0.0	1.200	21.000	0.0	6.150	0.0	11.100	0.0	16.050	
0.0	1.350	21.150	0.0	6.300	0.0	11.250	0.0	16.200	
0.0	1.500	21.300	0.0	6.450	0.0	11.400	0.0	16.350	
0.0	1.650	21.450	0.0	6.600	0.0	11.550	0.0	16.500	
0.0	1.800	21.600	0.0	6.750	0.0	11.700	0.0	16.650	
0.0	1.950	21.750	0.0	6.900	0.0	11.850	0.0	16.800	
0.0	2.100	21.900	0.0						
Page 4									