

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 18, 2023

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

**RE: 4023 Silvery Minnow Lane NW
Grading and Drainage Plans
Engineer's Stamp Date: 05/08/23
Hydrology File: G11D014D6**

Dear Mr. Soule:

Based upon the information provided in your submittal received 05/08/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this site has stem walls, a pad certification is not needed for this project.** 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, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 4023 SILVERY MINNOW **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: LOT 6-P1 OXBOW BLUFF SUBDIVISION

City Address: 4023 SILVERY MINNOW

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

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

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

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: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

BASIN DATA

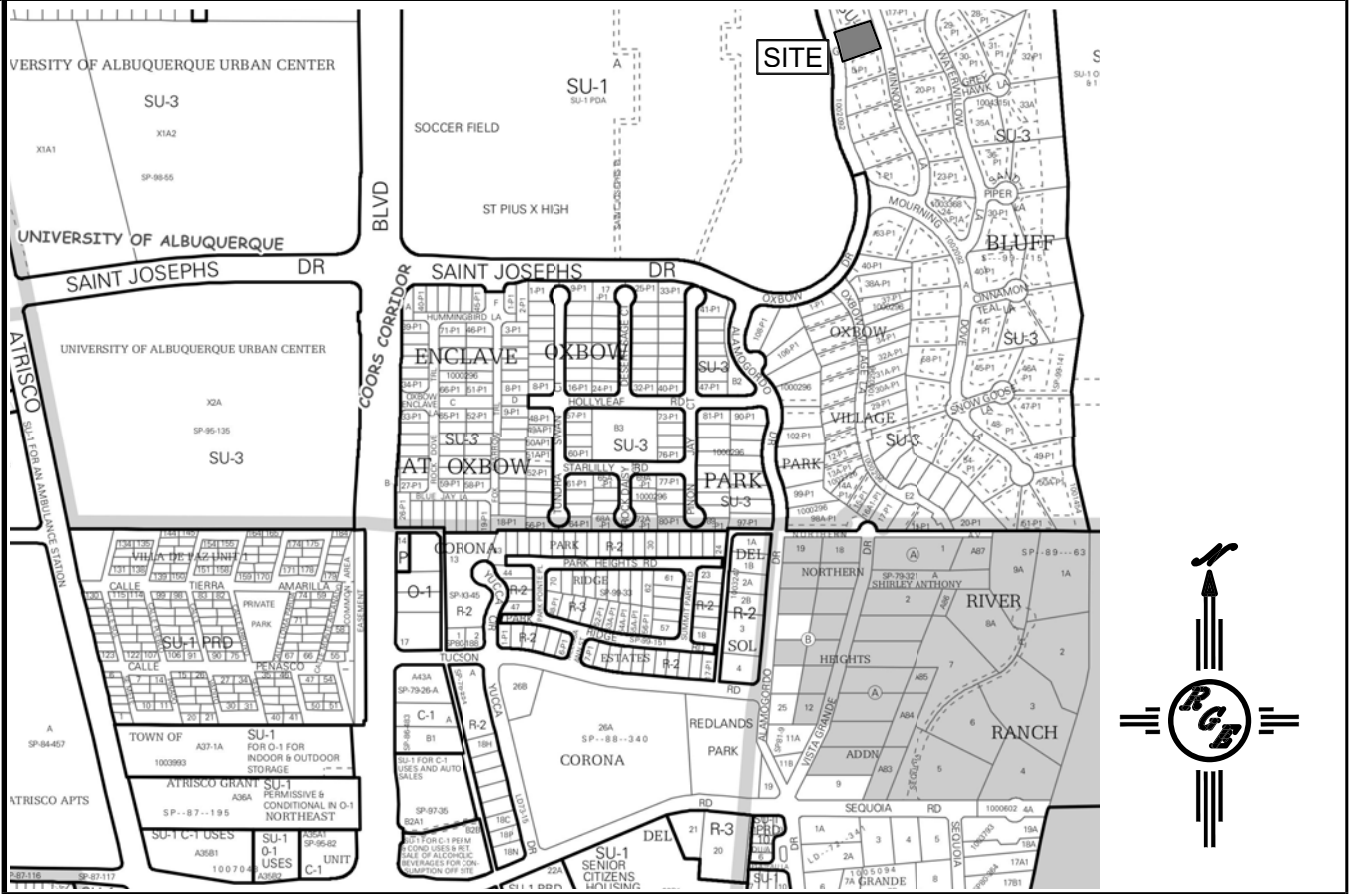
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	Q100 DISCHARGED
			%	(acres)	%	(acres)	%	(acres)	%	(acres)		
EXISTING ONSITE	16080	0.369	15%	0.0000	65.0%	0.0147	20.0%	0.0708	0%	0.0481	0.69	0.69
BASIN A	10265	0.236	0%	0.0000	16.0%	0.0000	25.0%	0.0000	59%	0.0000	0.75	0.29
BASIN B	5815	0.133	0%	0.0000	11.0%	0.0147	53.0%	0.0708	36%	0.0481	0.4	0.4
PREDEVELOPMENT DISCHARGE											0.69	
POST DEVELOPMENT DISCHARGE											0.65	

NOTE: THE DESIGN GUIDELINES CALL FOR MATCHING HISTORICAL PATTERNS AND RATED, THE EXISTING FLOW LEAVING THE SITE ON SILVERY MINOW IS .69CFS THE PROPOSED DISCHARGE AFTER DEVELOPMENT ONTO VENADA IS .65CFS . THE EXISTING PATTERNS REMAIN AND SHEET TWO INCLUDES THE AYHMO MODEL

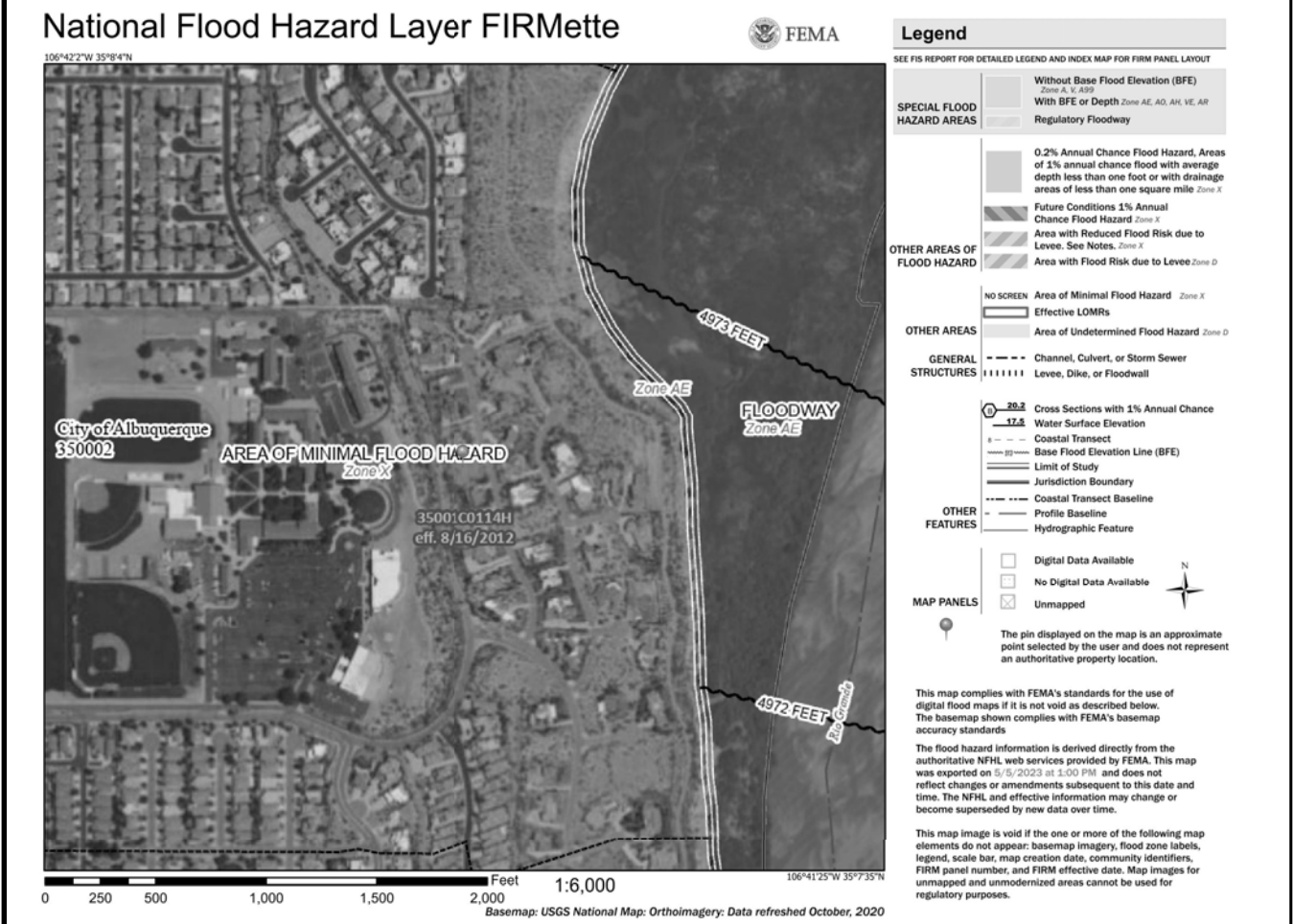


EROSION CONTROL NOTES:

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 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.



VICINITY MAP: G-11-Z



FIRM MAP:

LEGAL DESCRIPTION:

P-1 (6P-1) OF OXBOW BLUFF SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

NOTES:

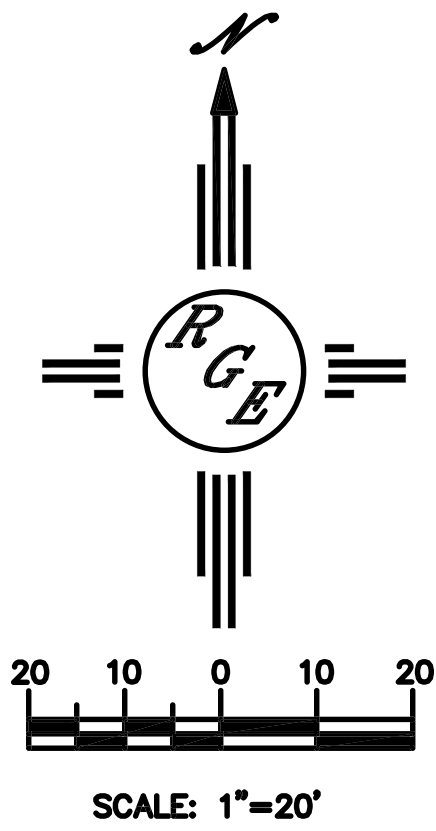
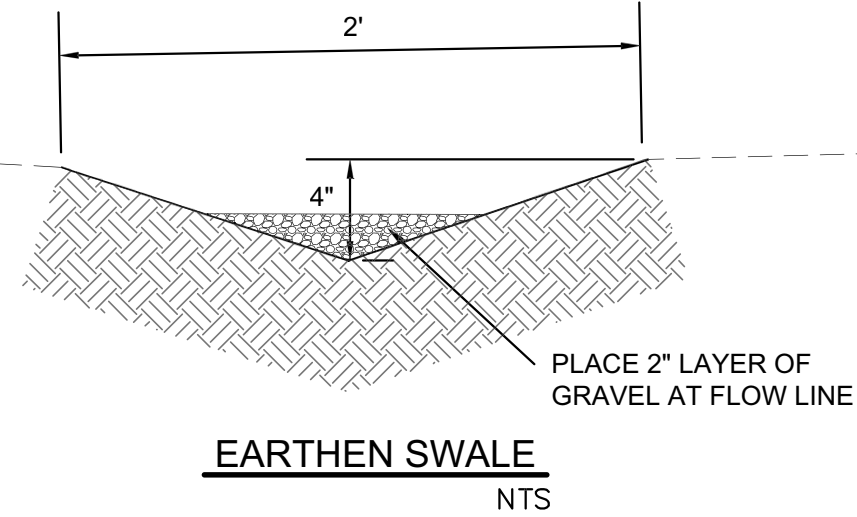
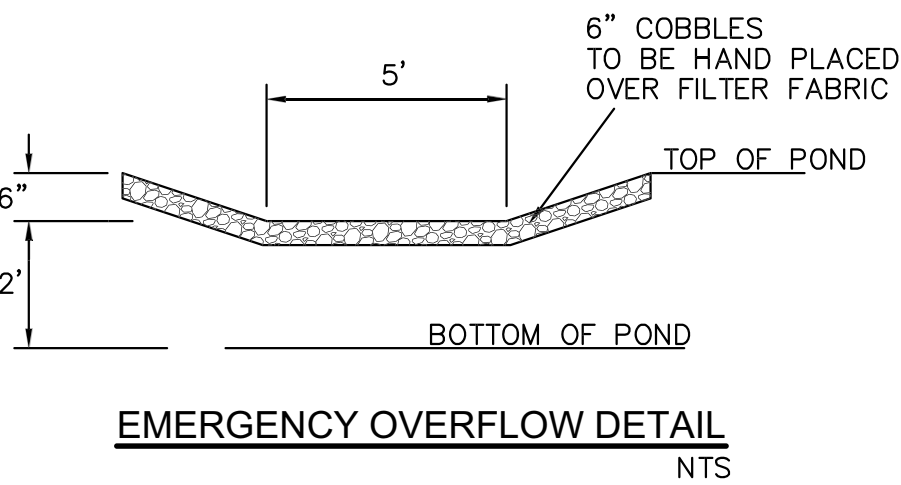
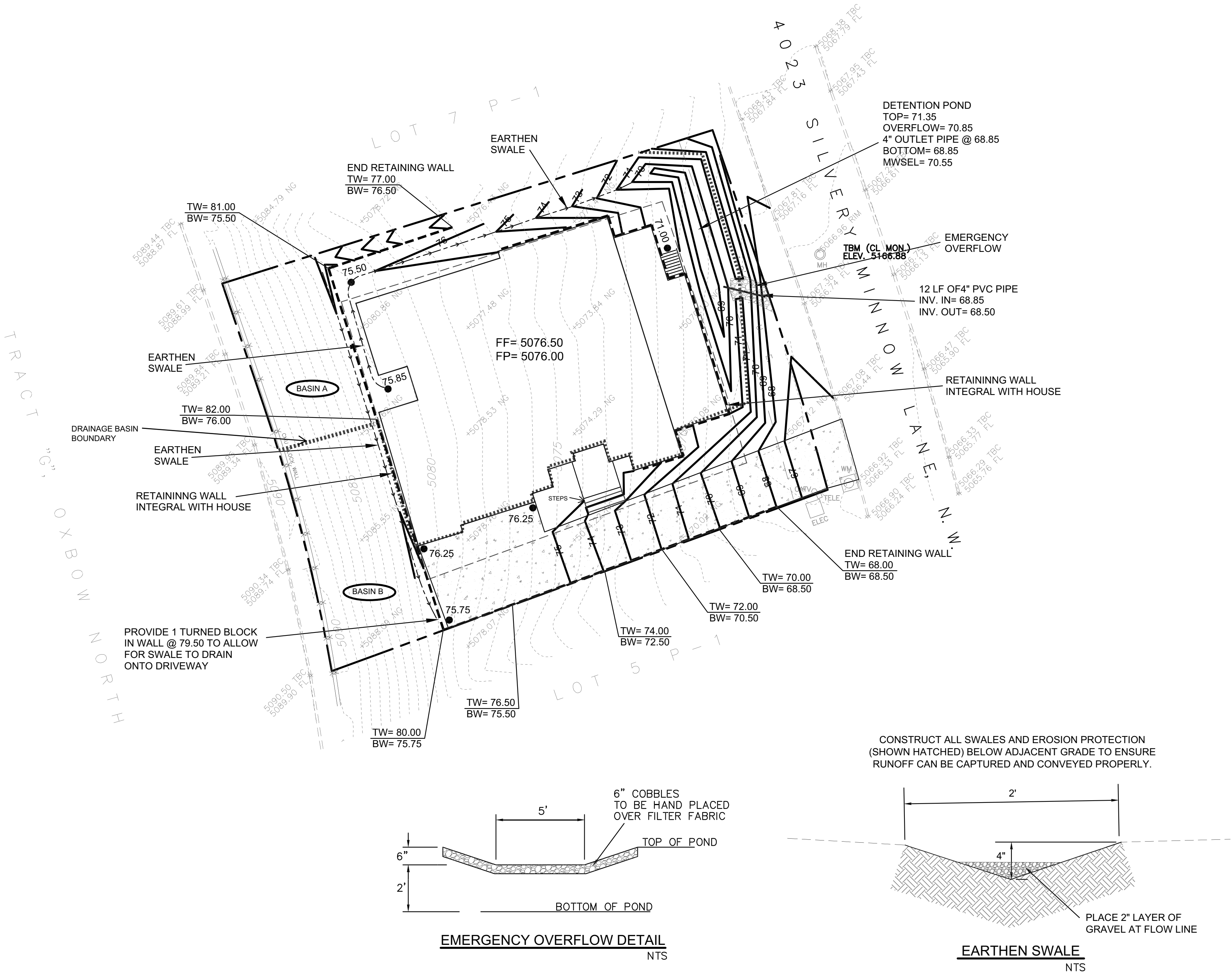
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY WAYJOHN SURVEYING,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

LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
-----XXXX-----	EXISTING SPOT ELEVATION
●XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----<-----	PROPOSED EARTHEN SWALE
-----<-----	PROPOSED RETAINING WALL
-----<-----	PROPOSED CONCRETE

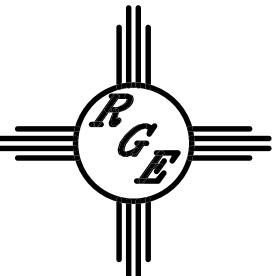
CAUTION:

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	4023 SILVERY MINNOW LN	DRAWN BY DEM
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER P.E. #14522	GRADING AND DRAINAGE PLAN	DATE 5-7-23
5/8/23	Rio Grande Engineering	4023 Silvery Minnow Lane .dwg
		SHEET #
		SHEET 1 OF 2
		JOB #

AHYMO.OUT AHYMO PROGRAM (AHYMO-S4) - Version: S4.01a - Rel: 01a RUN DATE (MON/DAY/YR) = 05/08/2023 START TIME (HR:MIN:SEC) = 10:33:07 USER NO.= RioGrandeSingleA41963517 INPUT FILE = nts and Settings\Owner\Desktop\2023 JOBS\2023109-SILVERYMINNOW\pondrout050823.txt *S AHYMO - DETENTION-L0T SILVERY MINNOW- POND ROUTING START TIME=0.0 PUNCH CODE=0 RAINFALL TYPE=2 QUARTER=0.0 ONE= 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 0.0285 0.0385 0.0492 0.0603 0.0723 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 0.4614 0.5802 0.7649 1.0813 1.3037 1.4791 1.5672 1.6444 1.6999 1.7441 1.7826 1.8108 1.8366 1.8580 1.8754 1.8909 1.9048 1.9178 1.9294 1.9403 1.9510 1.9613 1.9698 1.9746 1.9793 1.9839 1.9882 1.9925 1.9967 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 2.1128 2.1151 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 2.2287 2.2296 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 2.3745 2.3753 2.3762 2.3771 2.3780 2.3789 2.3798 2.3807 2.3816 2.3825 2.3833 2.3842 2.3851 2.3860 2.3869 2.3878 2.3887 2.3896 2.3905 2.3913 2.3922 2.3931 2.3940 2.3949 2.3958 2.3967 2.3976 2.3985 2.3993 2.4002 2.4011 2.4020 2.4029 2.4038 2.4047 2.4056 2.4065 2.4073 2.4082 2.4091 2.4100 2.4109 2.4118 2.4127 2.4136 2.4145 2.4153 2.4162 2.4171 2.4180 2.4189 2.4198 2.4207 2.4216 2.4225 2.4233 2.4242 2.4251 2.4260 2.4269 2.4278 2.4287 2.4296 2.4305 2.4313 2.4322 2.4331 2.4340 2.4349 2.4358 2.4367 2.4376 2.4385 2.4393 2.4402 2.4411 2.4420 2.4429 2.4438 2.4447 2.4456 2.4465 2.4473 2.4482 2.4491 2.4500 2.4509 2.4518 2.4527 2.4536 2.4545 2.4553 2.4562 2.4571 2.4580 2.4589 2.4598 2.4607 2.4616 2.4625 2.4633 2.4642 2.4651 2.4660 2.4669 2.4678 2.4687 2.4696 2.4705 2.4713 2.4722 2.4731 2.4740 2.4749 2.4758 2.4767 2.4776 2.4785 2.4793 2.4802 2.4811 2.4820 2.4829 2.4838 2.4847 2.4856 2.4865 2.4873 2.4882 2.4891 2.4900 *OVERALL SITE EXISTING COMPUTE NM HYD ID=1 HYD NO=101 DA= .000576791 SQ MI PER A=15 PER B=65 PER C=20 PER D=0 TP=-.170 MASSRAIN=-1 3.532722 K = 0.169877HR TP = 0.170000HR K/TP RATIO = 0.999279 SHAPE CONSTANT, N = UNIT PEAK = 1.0949 CFS UNIT VOLUME = 0.9884 B = 322.72 P60 = 1.6900 AREA = 0.000577 SQ MI IA = 0.49250 INCHES INF = 1.22900 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 PRINT HYD ID=1 CODE=3 PARTIAL HYDROGRAPH 101.00 FLOW TIME FLOW TIME FLOW TIME FLOW TIME HRS HRS CFS HRS CFS HRS CFS HRS CFS 0.0 0.000 0.0 0.0 0.750 0.0 1.500 0.6 2.250 0.0 0.150 0.0 0.0 0.900 0.0 1.650 0.6 2.400 0.0 0.300 0.0 0.0 1.050 0.0 1.800 0.3 2.550 0.0 0.450 0.0 0.0 1.200 0.0 1.950 0.1 2.700 0.0 0.600 0.0 1.350 0.1 2.100 0.1 2.850 RUNOFF VOLUME = 0.73784 INCHES = 0.0227 ACRE-FEET PEAK DISCHARGE RATE = 0.69 CFS AT 1.550 HOURS BASIN AREA = 0.0006 SQ. MI. *Basin A COMPUTE NM HYD ID=2 HYD NO=102 DA= .000368206 SQ MI PER A=0 PER B=16 PER C=25 PER D=59 TP=-.170 MASSRAIN=-1 7.106428 K = 0.092650HR TP = 0.170000HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = UNIT PEAK = 0.67252 CFS UNIT VOLUME = 0.9831 B = 526.28 P60 = 1.6900 AREA = 0.000217 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 Page 2										AHYMO.OUT 4.094957 K = 0.147516HR TP = 0.170000HR K/TP RATIO = 0.867739 SHAPE CONSTANT, N = UNIT PEAK = 0.32098 CFS UNIT VOLUME = 0.9578 B = 361.45 P60 = 1.6900 AREA = 0.000151 SQ MI IA = 0.40854 INCHES INF = 0.99390 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 PRINT HYD ID=2 CODE=3 PARTIAL HYDROGRAPH 102.00 FLOW TIME FLOW TIME FLOW TIME FLOW TIME HRS HRS CFS HRS CFS HRS CFS HRS CFS 0.0 0.000 0.0 0.0 4.950 0.0 9.900 0.0 14.850 0.0 0.150 0.0 0.0 5.100 0.0 10.050 0.0 15.000 0.0 0.300 0.0 0.0 5.250 0.0 10.200 0.0 15.150 0.0 0.450 0.0 0.0 5.400 0.0 10.350 0.0 15.300 0.0 0.600 0.0 0.0 5.550 0.0 10.500 0.0 15.450 0.0 0.750 0.0 0.0 5.700 0.0 10.650 0.0 15.600 0.0 0.900 0.0 0.0 5.850 0.0 10.800 0.0 15.750 0.0 1.050 0.0 0.0 6.000 0.0 10.950 0.0 15.900 0.0 1.200 0.1 0.0 6.150 0.0 11.100 0.0 16.050 0.0 1.350 0.2 0.0 6.300 0.0 11.250 0.0 16.200 0.0 1.500 0.7 0.0 6.450 0.0 11.400 0.0 16.350 0.0 1.650 0.6 0.0 6.600 0.0 11.550 0.0 16.500 0.0 1.800 0.3 0.0 6.750 0.0 11.700 0.0 16.650 0.0 1.950 0.2 0.0 6.900 0.0 11.850 0.0 16.800 0.0 2.100 0.1 0.0 7.050 0.0 12.000 0.0 16.950 0.0 2.250 0.1 0.0 7.200 0.0 12.150 0.0 17.100 0.0 2.400 0.0 0.0 7.350 0.0 12.300 0.0 17.250 0.0 2.550 0.0 0.0 7.500 0.0 12.450 0.0 17.400 0.0 2.700 0.0 0.0 7.650 0.0 12.600 0.0 17.550 0.0 2.850 0.0 0.0 7.800 0.0 12.750 0.0 17.700 0.0 3.000 0.0 0.0 7.950 0.0 12.900 0.0 17.850 0.0 3.150 0.0 0.0 8.100 0.0 13.050 0.0 18.000 0.0 3.300 0.0 0.0 8.250 0.0 13.200 0.0 18.150 0.0 3.450 0.0 0.0 8.400 0.0 13.350 0.0 18.300 0.0 3.600 0.0 0.0 8.550 0.0 13.500 0.0 18.450 0.0 3.750 0.0 0.0 8.700 0.0 13.650 0.0 18.600 0.0 3.900 0.0 0.0 8.850 0.0 13.800 0.0 18.750 0.0 4.050 0.0 0.0 9.000 0.0 13.950 0.0 18.900 0.0 4.200 0.0 0.0 9.150 0.0 14.100 0.0 19.050 FINISH NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 10:33:07 RUNOFF VOLUME = 1.52573 INCHES = 0.0469 ACRE-FEET PEAK DISCHARGE RATE = 0.65 CFS AT 1.550 HOURS BASIN AREA = 0.0006 SQ. MI. Page 3									
AHYMO.OUT 0.0 24.000 0.0 4.350 0.0 0.0 9.300 0.0 14.250 0.0 19.200 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 = 1.67186 INCHES = 0.0328 ACRE-FEET PEAK DISCHARGE RATE = 0.75 CFS AT 1.550 HOURS BASIN AREA = 0.0004 SQ. MI. *Basin B COMPUTE NM HYD ID=3 HYD NO=103 DA= .00020858 SQ MI PER A=0 PER B=11 PER C=53 PER D=36 TP=-.170 MASSRAIN=-1 7.106428 K = 0.092650HR TP = 0.170000HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = UNIT PEAK = 0.23246 CFS UNIT VOLUME = 0.9506 B = 526.28 P60 = 1.6900 AREA = 0.000075 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000 4.367913 K = 0.139071HR TP = 0.170000HR K/TP RATIO = 0.818066 SHAPE CONSTANT, N = UNIT PEAK = 0.29760 CFS UNIT VOLUME = 0.9584 B = 379.00 P60 = 1.6900 AREA = 0.000133 SQ MI IA = 0.37578 INCHES INF = 0.90219 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 HRS HRS CFS HRS CFS HRS CFS HRS CFS 0.0 0.000 0.0 0.0 1.350 0.1 2.700 0.0 4.050 0.0 0.150 0.0 0.0 1.500 0.4 2.850 0.0 4.200 0.0 0.300 0.0 0.0 1.650 0.3 3.000 0.0 4.350 0.0 0.450 0.0 0.0 1.800 0.1 3.150 0.0 4.500 0.0 0.600 0.0 0.0 1.950 0.1 3.300 0.0 4.650 0.0 0.750 0.0 0.0 2.100 0.0 3.450 0.0 4.800 0.0 0.900 0.0 2.250 0.0 3.600 0.0 4.950 0.0 1.050 0.0 2.400 0.0 3.750 0.0 5.100 0.0 1.200 0.0 2.550 0.0 3.900 0.0 5.250 RUNOFF VOLUME = 1.38573 INCHES = 0.0154 ACRE-FEET PEAK DISCHARGE RATE = 0.40 CFS AT 1.550 HOURS BASIN AREA = 0.0002 SQ. MI. Page 4										AHYMO.OUT * ROUTE THE BASINA THROUGH THE PROPOSED RESERVOIR ROUTE RESERVOIR ID=4 HYD NO=104 INFLOW=2 CODE=3 OUTFLOW(CFS) STORAGE(AC-FT) ELEV(FT) 0.00 0.0003 69.00 0.24 0.006 70.00 0.32 0.016 70.85 * * * * * TIME INFLOW ELEV VOLUME OUTFLOW (HRS) (CFS) (FEET) (AC-FT) (CFS) 0.00 0.00 69.00 0.000 0.00 0.15 0.00 69.00 0.000 0.00 0.30 0.00 69.00 0.000 0.00 0.45 0.00 69.00 0.000 0.00 0.60 0.00 69.00 0.000 0.00 0.75 0.00 69.00 0.000 0.00 0.90 0.02 69.02 0.000 0.01 1.05 0.04 69.07 0.001 0.02 1.20 0.08 69.14 0.001 0.03 1.35 0.19 69.29 0.002 0.07 1.50 0.68 69.91 0.006 0.22 1.65 0.58 70.42 0.011 0.28 1.80 0.28 70.55 0.013 0.29 1.95 0.15 70.47 0.012 0.28 2.10 0.09 70.30 0.010 0.27 2.25 0.06 70.11 0.007 0.25 2.40 0.04 69.83 0.005 0.20 2.55 0.02 69.54 0.003 0.13 2.70 0.01 69.34 0.002 0.08 2.85 0.01 69.22 0.002 0.05 3.00 0.01 69.14 0.001 0.03 3.15 0.00 69.09 0.001 0.02 3.30 0.00 69.06 0.001 0.01 3.45 0.00 69.04 0.001 0.01 3.60 0.00 69.03 0.000 0.01 3.75 0.00 69.03 0.000 0.01 3.90 0.00 69.02 0.000 0.01 4.05 0.00 69.02 0.000 0.00 PEAK DISCHARGE = 0.292 CFS - PEAK OCCURS AT HOUR 1.80 MAXIMUM WATER SURFACE ELEVATION = 70.553 MAXIMUM STORAGE = 0.0125 AC-FT INCREMENTAL TIME= 0.050000HRS * TOTAL DISCHARGE PROPOSED- ONSITE ROUTED ADD HYD ID=5 HYD NO=105 ID I=3 ID II=4 PRINT HYD ID=5 CODE=3 PARTIAL HYDROGRAPH 105.00 FLOW TIME FLOW TIME FLOW TIME FLOW TIME F																			

ENGINEER'S SEAL	4023 SILVERY MINNOW LN	DRAWN BY DEM
		DATE 5-7-23
	GRADING AND DRAINAGE CALCULATIONS	4023 Silvery Minnow Lane.dwg
		SHEET # 2 OF 2
DAVID SOULE P.E. #14522	5/8/23	JOB #