CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

December 14, 2022

Åsa Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: 5509 Escondina Lane NW Grading and Drainage Plan Engineer's Stamp Date: 12/07/22 Hydrology File: F14D076D

Dear Ms. Nilsson-Weber:

PO Box 1293 Based upon the information provided in your submittal received 12/092022, the Grading & Drainage Plan is approved for Grading Permit (earthwork can get started for the earth pad on the house).

Albuquerque

PRIOR TO BUILDING PERMIT:

Albuquelque

NM 87103

1. Once the grading is complete, a pad certification (meaning that the earthwork is complete) will be required. Please include a site photo with the submittal. Also, at the time of pad certification approval, Hydrology will concurrently approve the Grading & Drainage Plan for Building Permit.

www.cabq.gov

If you have any questions, please contact me at 924-3995 or <u>rbrissette@cabq.gov</u>.

Sincerely,

Renée C. Brissette

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



City of Albuquerque

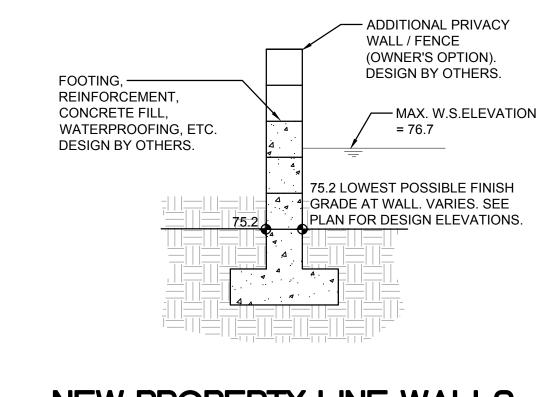
Planning Department

Development & Building Services Division

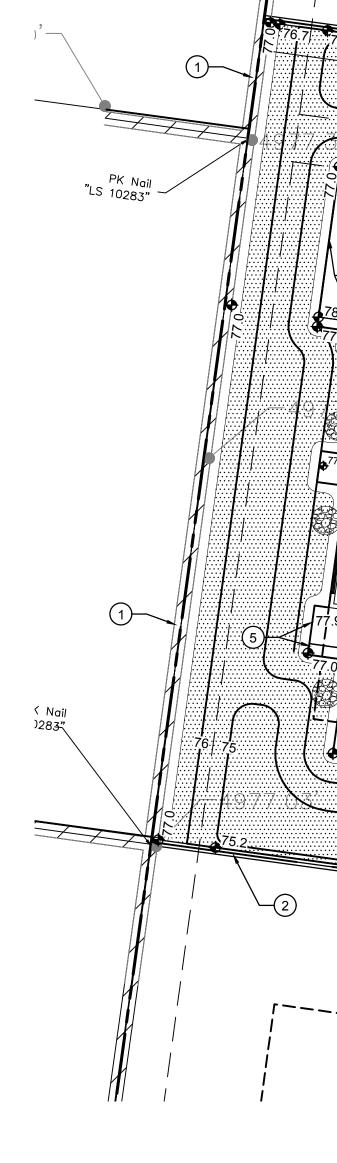
DRAINAGE AND TRANSPORTATION INFORMATION SHEET

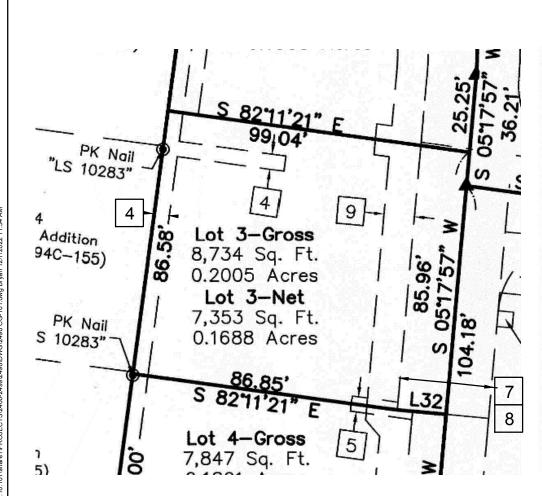
Project Title: 5509 Escondida Lane		logy File # <u>E15</u>
	EPC#	
Legal Description: Lot 3, Bosque Escondio	O City Address OR Parcel	scondido Lane NW
Applicant/Agent: Isaacson & Arfman, Inc.	Contact: Fred C. Arfma	<u>n or Bryan J. Bobric</u> k
Address: 128 Monroe Street NE	Phone: (505) 268-88	328
Email: freda@iacivil.com		
bryanb@iacivil.com		
Applicant/Owner:	Contact:	
Address:		
Email:		
TYPE OF DEVELOPMENT: PLAT (#of l RE-SUBMITTAL: YES X NO	dts) XRESIDENCE DRB SITE	ADMIN SITE:
DEPARTMENT:TRANSPORTATIO	N X HYDROLOGY/DRAINAGE	3
TYPE OF SUBMITTAL:	TYPE OF APPROVAL/ACCEPT	ANCE SOUGHT:
ENGINEER/ARCHITECT CERTIFICATION	X BUILDING PERMIT APP	ROVAL
PAD CERTIFICATION	CERTIFICATE OF OCCU	JPANCY
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DRI	3 APPROVAL
X GRADING PLAN	PRELIMINARY PLAT A	PPROVAL
DRAINAGE REPORT	SITE PLAN FOR SUB'D	APPROVAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG I	PERMIT APPROVAL
FLOOD PLAN DEVELOPMENT PERMIT A		
ELEVATION CERTIFICATE	SIA/RELEASE OF FINAN	
CLOMR/LOMR	FOUNDATION PERMIT	
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING PERMIT APP	ROVAL
ADMINISTRATIVE	SO-19 APPROVAL	
TRAFFIC CIRCULATION LAYOUT FOR D		
APPROVAL	GRADING PAD CERTIF	
TRAFFIC IMPACT STUDY (TIS)	WORK ORDER APPROV	AL
STREET LIGHT LAYOUT	CLOMR/LOMR	NAENT DEDMIT
OTHER (SPECIFY) PRE-DESIGN MEETING?	FLOOD PLAN DEVELOI	INIENI PEKIVIII
TRE-DESIGN MEETING?	OTHER (SPECIFY)	

DATE SUBMITTED: _____ December 7, 2022



NEW PROPERTY LINE WALLS SCALE: N.T.S.

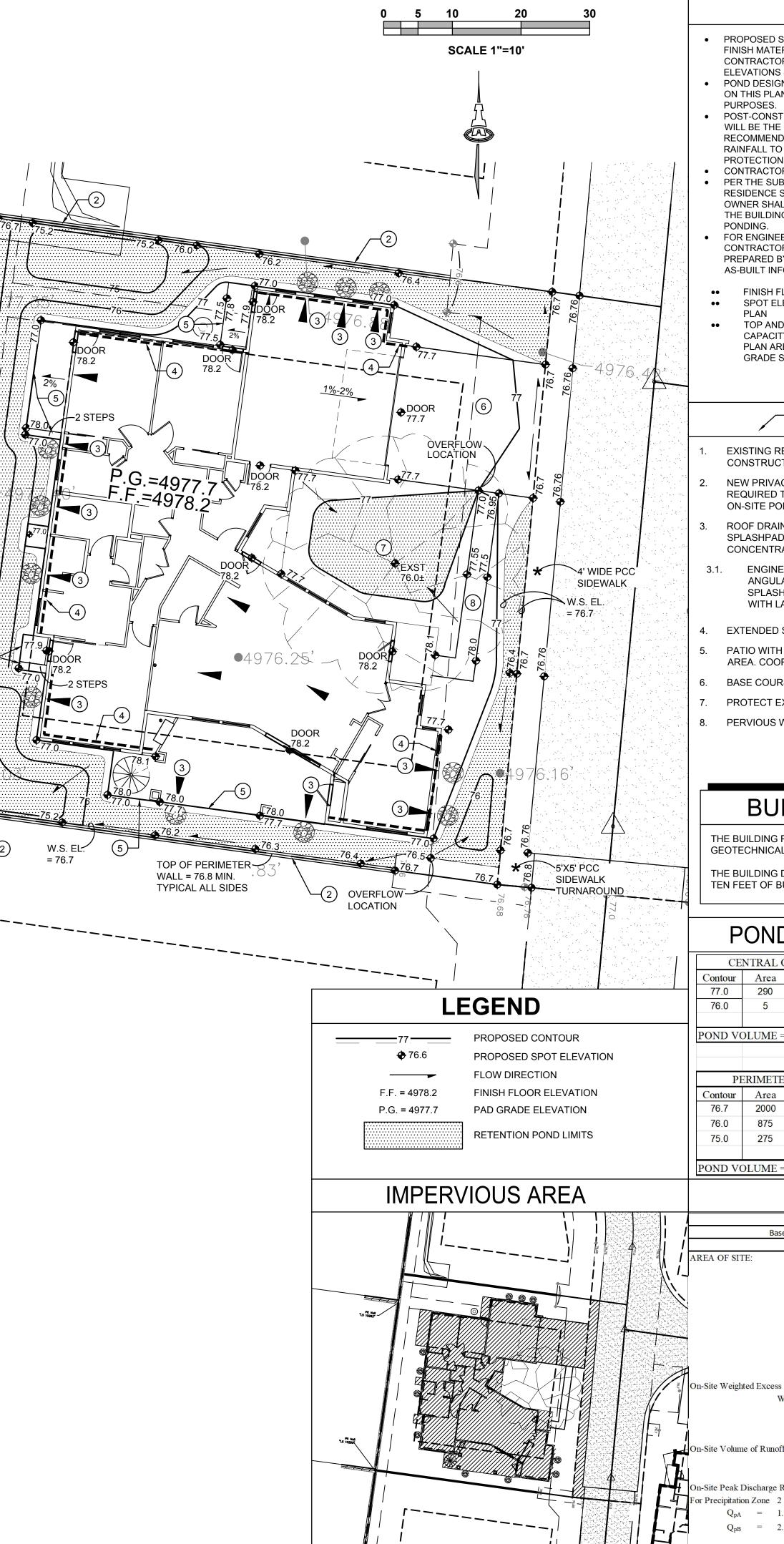




Easement Notes

- 1 EXISTING 7' P.U.E. (1/7/2000, 2000C-7)
- 2 EXISTING PRIVATE ACCESS EASEMENT FOR THE BENEFIT OF LOT 6-A-1 (1/7/2000, 2000C-7) SHOWN HEREON
- 3 EXISTING 10' PNM JOINT ELECTRIC AND GAS EASEMENT (9/25/2002, PG. 2644, DOC. NO. 2002122989)
- 4 PRIVATE 5' IRRIGATION LINE EASEMENT, BENEFITING LOTS 1-8 AND MAINTAINED BY THE UNDERLYING OWNER GRANTED WITH THE FILING OF THIS PLAT
- 5 WATER METER EASEMENT GRANTED TO ABCWUA WITH THE FILING OF THIS PLAT
- 6 FIRE HYDRANT EASEMENT GRANTED TO ABCWUA WITH THE FILING OF THIS PLAT
- 7 PRIVATE ACCESS EASEMENT, BENEFITING LOTS 1-8 AND MAINTAINED BY THE UNDERLYING OWNER GRANTED WITH THE FILING OF THIS PLAT
- 8 PUBLIC WATER AND SEWER EASEMENT GRANTED TO ABCWUA WITH THE FILING OF THIS PLAT
- 9 10' P.U.E. GRANTED WITH THE FILING OF THIS PLAT
- 10 20' PUBLIC WATERLINE EASEMENT GRANTED TO ABCWUA WITH THE FILING OF THIS PLAT

GENERAL NOTES



- FINISH MATERIAL (I.E. TOP OF PAVEMENT, TOP OF LANDSCAPING, ETC.). CONTRACTOR SHALL GRADE AND COMPACT SUBGRADE BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES.
- ON THIS PLAN SHALL BE STRICKTLY ADHERED TO FOR CERTIFICATION PURPOSES.
- WILL BE THE RESPONSIBILITY OF THE FACILITIES OWNER. ENGINEER RAINFALL TO IDENTIFY AREAS OF EROSION. ADD ADDITIONAL EROSION PROTECTION AS NEEDED.
- CONTRACTOR SHALL PROTECT THE ON-SITE INFILTRATION TRENCHES ('IT'). PER THE SUBDIVISION GRADING AND DRAINAGE PLAN, THE PROPOSED RESIDENCE SHALL POND STORMWATER WITHIN 10' OF THE RESIDENCE. PONDING.
- FOR ENGINEER'S CERTIFICATION OF SUBSTANTIAL COMPLIANCE, CONTRACTOR SHALL PROVIDE AN AUTOCAD FORMAT AS-BUILT SURVEY PREPARED BY A LICENSED SURVEYOR WHICH AS-BUILT INFORMATION:
- FINISH FLOOR ELEVATION SPOT ELEVATIONS AT EACH SPOT ELEVA PI AN
- TOP AND TOE LIMITS AND ELEVATIONS F CAPACITY IS PROVIDED. NOTE: POND EL PLAN ARE BASED ON FINISHED LANDSCA GRADE SITE TO ELEVATIONS SHOWN MIN

KEYED N EXISTING RETAINING/PRIVACY WALL. CON

- CONSTRUCTION. 2. NEW PRIVACY WALL. FINAL GRADES SHOW
- REQUIRED TO PROVIDE THE NECESSARY ON-SITE PONDING TO EQUALIZE. SEE SEC
- ROOF DRAIN DISCHARGE: INSTALL EROSIC SPLASHPAD, PRECAST CONCRETE SPLASH CONCENTRATED ROOF DRAIN LOCATIONS
- ENGINEER RECOMMENDS INSTALLING ANGULAR ROCK SWALES TO PASS CO SPLASHPADS TO POND BOTTOMS (OW WITH LANDSCAPERS.
- 4. EXTENDED STEMWALL TO ACHIEVE GRADI 5. PATIO WITH TURNED DOWN CONCRETE EI
- AREA. COORDINATE WITH OWNER FOR GL
- 6. BASE COURSE DRIVEWAY.
- 7. PROTECT EXISTING TREE. 8. PERVIOUS WALKWAY (FLAGSTONE, PAVER

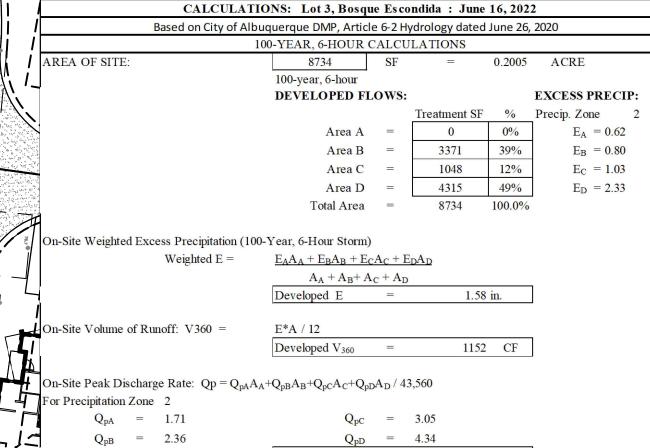
BUILDING DESI

THE BUILDING PAD AREA SHALL BE PREPARE GEOTECHNICAL REPORT.

THE BUILDING DESIGN SHALL ADDRESS POND TEN FEET OF BUILDING.

POND VOLUME CA

	- • • • •		0110	•		
Volume o	CENTRAL COURTYARD					
	ume	Vol	Area	Contour		
			290	77.0		
Volume F Main Sur = 2	CF	1 <mark>4</mark> 8	5	76.0		
Courtyar	CF	148	DLUME =	POND VO		
= *						
TOTAL V = 1	PERIMETER PONDING					
	ume	Vol	Area	Contour		
			2000	76.7		
	CF	1006	875	76.0		
	CF	575	275	75.0		
	CF	1581	DLUME =	POND VO		
Υ. Ή						



Developed Q_p

=

0.7 CFS

 PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF POND DESIGN PARAMETERS AND STORMWATER CONTROL MEASURES SHOWN

POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER FACILITIES RECOMMENDS THAT OWNER INSPECT THE SITE YEARLY AND AFTER EACH

OWNER SHALL COORDINATE WITH STRUCTURAL DESIGNER WITH REGARDS TO THE BUILDING & FOUNDATION REQUIREMENTS RELATING TO THE ADJACENT

HORMAT AS-BUILT SURVEY		cono rema	desig cepts ain the	are o prope	owne rty o	ed b fIsaa	y ai acson	nd &
ATION SHOWN ON THE APPROVED	Image: Control of the contro	shal firm	nan, In I be u or	tilized corpo	by ratioi	any 1 fo	perso or a	on, ny
FOR PONDS TO ENSURE REQUIRED EVATIONS PROVIDED ON THIS APE CONDITION. CONTRACTOR TO		the	oose w writt cson &	en	perm	nissio		
NUS MATERIAL THICKNESSES.	$ \begin{bmatrix} 1 & \frac{1}{100} \frac{1}{100} \\ \frac{1}{100} \frac{1}{10$	/	HILSS	ON-1 EXIC	WEB2		elle	2
IOTES	PROJECT INFORMATION:	SA W	NER (17631),,,	PICINE		
ITRACTOR TO PROTECT DURING	PROPERTY: THE SITE IS AN UNDEVELOPED RESIDENTIAL LOT AND IS BOUNDED TO THE EAST BY AN ACCESS ROAD, THE WEST BY A DEVELOPED	1	LICENS	pho	y. Essi	01/20	322	
WN AT BASE OF WALL ARE POND VOLUME AND TO PERMIT	RESIDENTIAL LOT, AND TO THE NORTH AND SOUTH BY UNDEVELOPED RESIDENTIAL LOTS.		Jan .		12	011		
CTION THIS SHEET. ON PROTECTION (3' DIA ROCK HPAD, OR EQUAL) AT ALL	PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE A SINGLE FAMILY RESIDENCE WITH ACCESS DRIVE AND ASSOCIATED LANDSCAPING AND PONDING.	Enç	ginee	r				
3. G 2' WIDE X 8" THICK 4" AVG. DIA.	LEGAL: LOT 3 OF BOSQUE ESCONDIDO, BERNALILLO COUNTY, NM							
DNCENTRATED ROOF FLOW FROM VNER'S OPTION). COORDINATE	AREA: 0.2005 ACRES (GROSS)					_		
	BENCHMARK: ACS MONUMENT DOUGLAS". ELEVATION = 4975.078 (NAVD 1988)			Jane				
ES THIS AREA.	OFF-SITE: NO OFF-SITE DRAINAGE AFFECTS THIS PROPERTY.			an		-		
DGE TO ACHIEVE GRADES THIS JARDRAIL (OWNER'S OPTION).	<u>FLOOD HAZARD</u> : PER FEMA FIRM MAP #35001C0119G, EFFECTIVE DATE 09/26/2008, THE SITE IS LOCATED WITHIN FLOODZONE 'X' SHADED WHICH IS DEFINED AS AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE.		þ	da L	NM'S			
	DRAINAGE PLAN CONCEPT:		•	qi				
RS, CRUSHER FINES, O.E.)	THE SITE IS PART OF THE BOSQUE ESCONDIDO SUBDIVISION APPROVED BY HYDROLOGY WITH A FLAT GRADING SCHEME AS FOLLOWS:			Escondi	lhuanerane	5		
	 PAD GRADE = 4977.7 (MIN). OVERFLOW ELEVATION 4976.67. EACH LOT IS REQURIED TO STORE THE 100-YEAR 10-DAY VOLUME. 		ļ	S T	I e T			
GN NOTE	 ALL ROOF FLOW WILL BE DIRECTED TO THE STORMWATER RETENTION PONDS. WALLS WILL BE CONSTRUCTED ON THE PROPERTY LINES TO CONTAIN 			5509		5		
D AND COMPACTED PER THE	 THE 100-YEAR 10-DAY MAXIMUM RETENTION VOLUME. SINCE ALL STORMWATER IS RETAINED ON THE PROPERTY, NO SEPARATE STORM WATER QUALITY VOLUME IS REQUIRED. 		l		AIA			
DED STORM WATER WITHIN								
LCULATIONS	PROPOSED IMPERVIOUS AREA							
of 100-yr, 10-day ponding required 1,631 CF	THE PROPOSED IMPERVIOUS AREA (SHOWN SHADED) = 4,315 SF INCLUDING PATIOS, WALKS, AND DRIVEWAY. THE STREET IS PERVIOUS		M	2498		BJB/ANW	>	0.2.2
<u>Provided:</u> rface pond 1,581 CF	WITH AGGREGATE BASE COURSE PAVING. THE PROPOSED IMPERVIOUS AREA IS APPROXIMATELY 49% OF THE TOTAL PROPERTY AREA.		REVI	Ā	1	BJB	ÅNW	7-90
rd ponding around existing tree 148 CF	MASTER DRAINAGE PLAN CALCULATED 100-YEAR 10-DAY VOLUME FOR THIS LOT = 1,554CF (BASED ON IMPERVIOUS AREA OF 3,933 SF).		DESIGN REVIEW	NUMBER:		BY:	BΥ:	
VOLUME PROVIDED 1,729 CF	THE REQUIRED 100-YEAR 10-DAY VOLUME INCREASES TO 1,631 CF BASED ON THE PROPOSED IMPERVIOUS AREA.		ISSUE: DE	PROJECT	і ш	DRAWN B'	ECKED	ш
	SEE POND CALCULATIONS THIS SHEET.		ISS	PR		DR	CHEC	DATE
		tion						
YDROLOGY CA	LCULATIONS	escription						
ie Escondida : June 16, 2022	100-year 10-day Storm Volume	ă						
e 6-2 Hydrology dated June 26, 2020 CALCULATIONS SF = 0.2005 ACRE	V ₃₆₀ (from previous calculation) 1152	ate						
LOWS: EXCESS PRE	CIP: Area Treatment D (SF) 4315 Zone 2	Da						
$= 0 0\% E_{A} = 0$	2	9						

VICINITY MAP F-14

Inc.

n & 500 Minimulation Science Concerning Conc

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2020 Isaacson & Arfman, Inc.

Grading &

Drainage Plan

SHEET NUMBER

CG-101

SHEET TITLE

NE 108

Street NM 87 iacivil.c

rque, www.

128 Ibuqi 828

 $V_{10 day} = V_{360} + (A_D * (P_{10 day} - P_{360})/12" \text{ per foot})$ V360 1152 AD (SF) 4315 Zone 3.62 P10 day P360 2.29 V360 = 115 + imp. area = 478

Total Volume (V10 day) =

1631