CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

June 10, 2022

John Arthur Blessen, PE J Arthur Blessen Engineering 2429 Zena Lona NE Albuquerque, NM 87112

Re: 7200 Bluewater Rd. NW

Request for Certificate of Occupancy - Permanent

Hydrology Final Inspection -Approved

Grading and Drainage Plan Stamp Date: 4/5/21

Certification dated: 6/6/22 Drainage File: K10D060

Dear Mr. McGee,

PO Box 1293 Based on the submittal received 6/6/21 and inspection on 6/10/21 this certification is approved for

Permanent Certificate of Occupancy by Hydrology.

Albuquerque If you have any questions, you can contact me at 505-924-3695 or <u>dggutierrez@cabq.gov</u>.

Sincerely,

NM 87103

David Gutierrez, P.E.

www.cabq.gov Senior Engineer, Planning Dept.

Development Review Services

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City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: 7200 Bluewater	Building	Permit #: BP-2020-40165
DRB#: PR-2018-001681 (ST-2018-00200)	EPC#:	Work Order#:
Legal Description: Parcel C-3 Atrisco Busine	ss Park Unit 2	
City Address: 7200 Bluewater NW		
Applicant: J Arthur Blessen Engineering Address: 2429 Zena Lona, Albuquerque New Me Phone#: 505-401-4142 Other Contact: Brunacini Developement Address: 7550 Meridian Place NW, Albuquerque Phone#: 505-833-2928	Paxico 87112 Fax#: NM 87197 Fax#: Fax#:	Contact: Arthur Blessen E-mail: jab-engineering@hotmail.com Contact: Angelo Burnacini E-mail:
IS THIS A RESUBMITTAL? X Yes DEPARTMENT: TRAFFIC/TRANSPO		
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICAT: PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMI ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TO TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	T APPLIC CL)	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 X GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)
DATE SUBMITTED: 6-6-2022	-	J Arthur Blessen
COA STAFF:		ONIC SUBMITTAL RECEIVED:

FEE PAID:___

CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



April 14, 2021

John Arthur Blessen, P.E. J Arthur Blessen Engineering 2429 Zena Lona NE Albuquerque New Mexico 87112

RE: 7200 Bluewater Rd. NW

> **Revised Grading and Drainage Plan** Engineer's Stamp Date: 04/05/21 Hydrology File: K10D060

Dear Mr. Blessen:

Based upon the information provided in your submittal received 04/06/2021, the Revised Grading and Drainage Plan is approved for Building Permit.

PO Box 1293

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 approval in support of Permanent Release of Occupancy

by Hydrology, Engineer Certification per the DPM checklist will be required.

If the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth

disturbance.

Also, please provide the Drainage Covenant for the proposed stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to clabadie@cabq.gov or either mail or drop off the originals. Please mail the \$25.00 recording fee check made payable to Bernalillo County to:

Planning Dept./DRC Attn: Charlotte LaBadie 600 2nd St. NW, Ste. 400 ABQ, NM, 87102

Albuquerque

NM 87103

www.cabq.gov

CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Mayor Timothy M. Keller

If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: 7200 Bluewater	Building	Permit #: <u>BP-2020-40165</u> Hydrology File #: <u>K100D060</u>
		Work Order#:
Legal Description: Parcel C-3 Atrisco Busines		
City Address: 7200 Bluewater NW		
Applicant: J Arthur Blessen Engineering Address: 2429 Zena Lona, Albuquerque New Mex Phone#: 505-401-4142 Other Contact: Brunacini Developement Address: 7550 Meridian Place NW, Albuquerque I	rico 87112 Fax#: NM 87197	Contact: Arthur Blessen E-mail: jab-engineering@hotmail.com Contact: Angelo Burnacini
Phone#: 505-633-2926	Fax#:	E-mail:
IS THIS A RESUBMITTAL? X Yes DEPARTMENT:TRAFFIC/TRANSPOR Check all that Apply:	No	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMITE ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TC) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	APPLIC L)	* 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: 4-6-2021	By: <u>J</u>	AIIIIII DIESSEN
COA STAFF:	ELECTRO	ONIC SUBMITTAL RECEIVED:

FEE PAID:___

	_				F	OR INFO)RMAT]	ION ONLY
Drainage Cal	culation							
ity of Albuquerque	DPM 2020 edit	ion						
7200 Bluewa	ter							
Precipitation Zon								
Basin Area =	10.308 ac	res						
Existing				Improved Cond	itions			
Treatment				Treatment				
Area of A =	449028 sf	100%		Area of A =	sf	0%		
Area of B =	0 sf	0%		Area of B =	56832 sf	13%		
Area of C =	0 sf	0%		Area of C =	0 sf	0%		
Area of D =	0 sf	0%		Area of D =	392196 sf	87%		
Excess Precipita		6 hr - 100	yr storm tab		•••			
Existing Condition			_	Improved Cond		_		
Treatment	% of Area	A =-	En	Treatment	% of Area	Er		
A	1.00 x	0.55 =	0.55	A	0.00 x	0.55 =	0.00	
В	0.00 x	0.73 =	0.00	В	0.13 x	0.73 =	0.09	
Ç	0.00 x	0.95 =	0.00	ç	0.00 x	0.95 =	0.00	
D	0.00 x	2.24 =	0.00	D	0.87 x	2.24 =	1.98	
3.4b 3.4 H. A.	148	E =	0.55			E =	2.05	
Volume V = E A		40 000 1	40 -	0.470	8	00500		
Ve =	0.550 x	10.308 /	12 =	0.472 ac		20580 cf		
Vi =	2.049 x	10.308 /	12 =	1.760 ac	re π	76667 of		
Discharge Rate,		00 yr storm	table 6.2.1					
Treatment	% of Area		Q	Treatment	% of Area	Q		
Α	1.00 x	1.54 =	1.54	Α	0.00 x	1.54 =	0.00	
В	0.00 x	2.16 =	0.00	В	0.13 x	2.16 =	0.27	
C	0.00 x	2.87 =	0.00	Č	0.00 x	2.87 =	0.00	
D	0.00 x	4.12 = q =	0.00 1.54	D	0.87 x	4.12 = q =	3.60 3.87	
Peak Rate Qp =	qА	4 -	1.0-			4 -	5.57	
Qp(e) =	1.54 x	10.308 =	15.87 cfs	ŝ				
Qp(i) =	3.87 x	10.308 =	39.91 cf	ŝ				
xcess Volume =	1.288 ac	re ft						
Excess Rate =	24.04 cfs	1						
to =	0.2 hr							
	(2.107 *E*At/0	. , .		0.897 hr				
tp =	(0.7*tc)+((1.6-	(Ad/At))/12	:) =	0.201 hr				
Discharge Rate	1.130 cfs	i	0.11 cfs	s/ac Discharge Rate	1.134 cfs			
Volume	80101 cf		· ····································	on large i tate	11107 010			
Discharged -	3607 cf							
Pond Voulme	76494 cf							

		LAND TREATMENT			WEIGHTED						
BASIN	AREA	Α	В	С	D	E	V (6-hr)	V (6-hr)	V(10 day)	V(10 day)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
EXISTING CONDITIONS											
BASIN A-1	3.30	100.00	0.00	0.00	0.00	0.44	0.12	5,271	0.12	5,271	4.26
BASIN A-2	7.03	100.00	0.00	0.00	0.00	0.44	0.26	11,228	0.26	11,228	9.07
PROPOSED CONDITIONS											
BASIN A-1	3.30	0.00	0.00	7.80	92.20	1.89	0.52	22,683	0.89	38,919	14.0
BASIN A-2	7.03	0.00	0.00	9.10	90.90	1.88	1.10	47,996	1.88	82,096	29.7
EXCESS F	RECIP.	0.44	0.67	0.99	1.97	Ei (in)					
PEAK DISCHARGE 1.29 2.03			2.87	4.37	QPi (cfs)						
%A) + (EB)(% = (WEIGHTE '6-HR + (AD)(QPB)(AB) + (A)/12 P6-HR)/	12					F	ZONE = P6-HR (in.) = P24-HR (in.) 10DAY (in.)	2.66		

Basin A-1 discharges through 5 - 2' wide sidewalk culverts

	WATER QUALITY PONDING								
POND ID	BASINID	CONTRIBUTING	REQUIRED PONDING	PONDING VOLUME	PONDING VOLUME				
		AREA		(0.44/12*AREA)	PROVIDED				
		(SQ-FT)	(IN)	(CU-FT)	(CU-FT)				
SITE	А	449975	0.44	16499	18200				
TOTAL		449975		16499	18200				

Sidewalk Culvert Discharge Weir Flow Equation = CA(2gh)^1/2						
X.	h (ft)	Q(cfs)				
3	0.10	0 0.25				
3	0.20	0.70				
3	0.30	0 1.28				
3	0.4	0 1.97				
3	0.50	0 2.76				
	3 3 3 3 3	h (ft) 3 0.10 3 0.20 3 0.30 3 0.40				

PREVIOUS APPROVED SUBMITTAL "FIRST FLUSH" POND VOLUME REQUIRED 16,499 cf APPROXIMATE LIMITS 100-YEAR

PONDING REQUIRED 70,747 CF

PONDING WSEL 101.95

Weir Flow Equation = CLH³/2

LOT 7 DRAINAGE REPORT

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 10.33 ACRES LOCATED SOUTH OF BLUEWATER AND EAST OF UNSER AT THE POINT AIRPORT NORTH OF BLUEWATER OFFSETS TO THE EAST, AS SHOWN ON THE VICINITY MAP ON THIS SHEET. IT IS CURRENTLY UNDEVELOPED, BUT HAS BEEN PREVIOUSLY GRADED AND DEVELOPED NOTED BY THE REMNANTS.

THE SITE IS WITHIN ZONE X AS SHOWN ON THE FIRM PANEL NO. 35001C0329 H. PROPOSED DEVELOPMENT WILL CONSIST OF A SINGLE STORY OFFICE/WAREHOUSE BUILDING ENCLOSING ABOUT 150,000 SF WITH PAVED PARKING AND DOCKS ON THE SOUTH. *METHODOLOGY*

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. PRECIPITA TION

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 CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR PRECIPITATION, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

EXISTING DRAINAGE

THE SITE IS PREVIOUSLY DEVELOPED BUT CURRENTLY ONLY REMNANTS REMAIN. THE PARCEL DRAINS TOWARD THE CENTER OF THE SITE THEN NORTH INTO BLUEWATER WHERE IT IS COLLECTED IN THE LARGE DIAMETER (48" MOSTLY) AND CONVEYED SOUTH. THE DEVELOPED PARCEL WEST OF THIS SITE DRAINS WEST AWAY FROM THIS SITE. LIKEWISE THE DEVELOPED PARCEL TO THE SOUTH DRAINS SOUTH AWAY FROM THE SITE. ON THE NORTH, THE SITE IS

DEVELOPED CONDITION

THE PROPOSED GRADING PLAN WILL DIRECT RUNOFF GENERATED ONSITE TOWARD A NEW DETENTION POND THAT INCLUDES ALMOST ALL OF THE SOUTH PARKING APRONS

IN ORDER TO PROVIDE THE REQUIRED WATER QUALITY PONDING, THE AREA INLET HAS RAISED ABOVE THE POND BOTTOM THE DISTANCE REQUIRED TO PROVIDE THE REQUIRED VOLUME.

THE DISCHARGE FROM THIS SITE IS CONTROLLED BY THE ATRISCO BUSINESS PARK MASTER DRAINAGE PLAN, BY EASTERLING 10-20-1993. THIS PLAN LIMITS DISCHARGE FROM THE SITE TO 0.11 CFS/ACRE. PER THE PROPOSED DRAINAGE PLAN, THE DISCHARGE FRÓM THIS SITE IS CONTROLLED BY ORIFICE PLATE IN THE INLET AND IS LIMITED TO 1.13 CFS. THE ALLOWABLE DISCHARGE IS 1.136 CFS.

WATER QUALITY POND (ARTICAL 6-12 PAGE 6-109) FF POND VOLUME = (IMPERVIOUS AREA) (0.44 IN) FOR REDEVELOPED SITES IMPERVIOUS AREA = $4\dot{4}9975$ SF REQUIRED POND VOLUME = (449975 SF) (0.44 IN) (1 / 12 IN/FT) = 16499 CF

PROTECTED BY THE STORM DRAIN IN BLUEWATER.

FIRST FLUSH POND

ST	FLUSH PON	ID		
	POND	ELEVATION 99.8	AREA 7639 SF	VOL - (7630 L6120)(0.5)(0.9 FT) - 5.507.2 CF
		99.0 98.0 97.0 96.0	6129 SF 4872 SF 3719 SF 2282 SF	VOL = (7639+6129)(0.5)(0.8 FT) = 5,507.2 CF VOL = (6129+4872)(0.5)(1.0 FT) = 5,500.5 CF VOL = (4872+3719)(0.5)(1.0 FT) = 4,295.5 CF VOL = (3719+2282)(0.5)(1.0 FT) = 3,000.5 CF
				18,303.7 CF
	POND	ELEVATION	AREA	
		101.8	10433 SF	VOL = (10433+9957)(0.5)(0.8 FT) = 8,156.0 CF
		101.0	9957 SF	VOL = (9957+7676)(0.5)(0.8 TT) = 8,130.0 CF
		100.0	7976 SF	VOL = (7676+6129)(0.5)(1.0 FT) = 7,052.5 CF
		99.0	6129 SF	VOL = (6129+4872)(0.5)(1.0 FT) = 5,500.5 CF
		98.0	4872 SF	VOL = (4872+3719)(0.5)(1.0 FT) = 4,295.5 CF
		97.0	3719 SF	VOL = (3719+2282)(0.5)(1.0 FT) = 3.000.5 CF

TRUCK COURT 108717 SF 80099 SF 29766 SF 0 SF VOL = (108717+80099)(0.5)(0.2 FT) = 18,881.6 CFVOL = (80099+29766)(0.5)(0.4 FT) = 21,973.0 CFVOL = (29766+3773)(0.5)(0.2 FT) = 3,353.9 CFVOL = (3773+0)(0.5)(0.6 FT) = 1,131.9 CF101.0

45,340.4 CF 36,971.5 + 45,340.4 = 82,311.9 CF TOTAL POND VOLUME

DISCHARGE: CONTROL ORIFICE $Q = 0.6 \text{ A} \sqrt{2 \text{ gh}}$ $g = 32.2 \text{ ft/s}^2$

A = ORIFICE AREA (SF)h = DISTANCE FROM WATER SURFACE ELEVATION TO CENTER OF ORIFICE ORIFICE 4½" DIA WATER SURFACE ELEV 101.8 DISCHARGE INV 97.1

- A = $(4.5/12)^2(3.14)(0.25) = 0.11$ SF h = 101.8 (97.1 + 0.1875) = 4.51 ft Q = $0.6(0.11)[2(32.2)(4.51)]^{1/2} = 1.13$ CFS

FEMA PANEL 35001C0329H 11/4/2016

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION

APPROVED

DATE: 04/14/21

BY: K10D060



VICINITY MAP K-10-Z



RCHITECT SEAL

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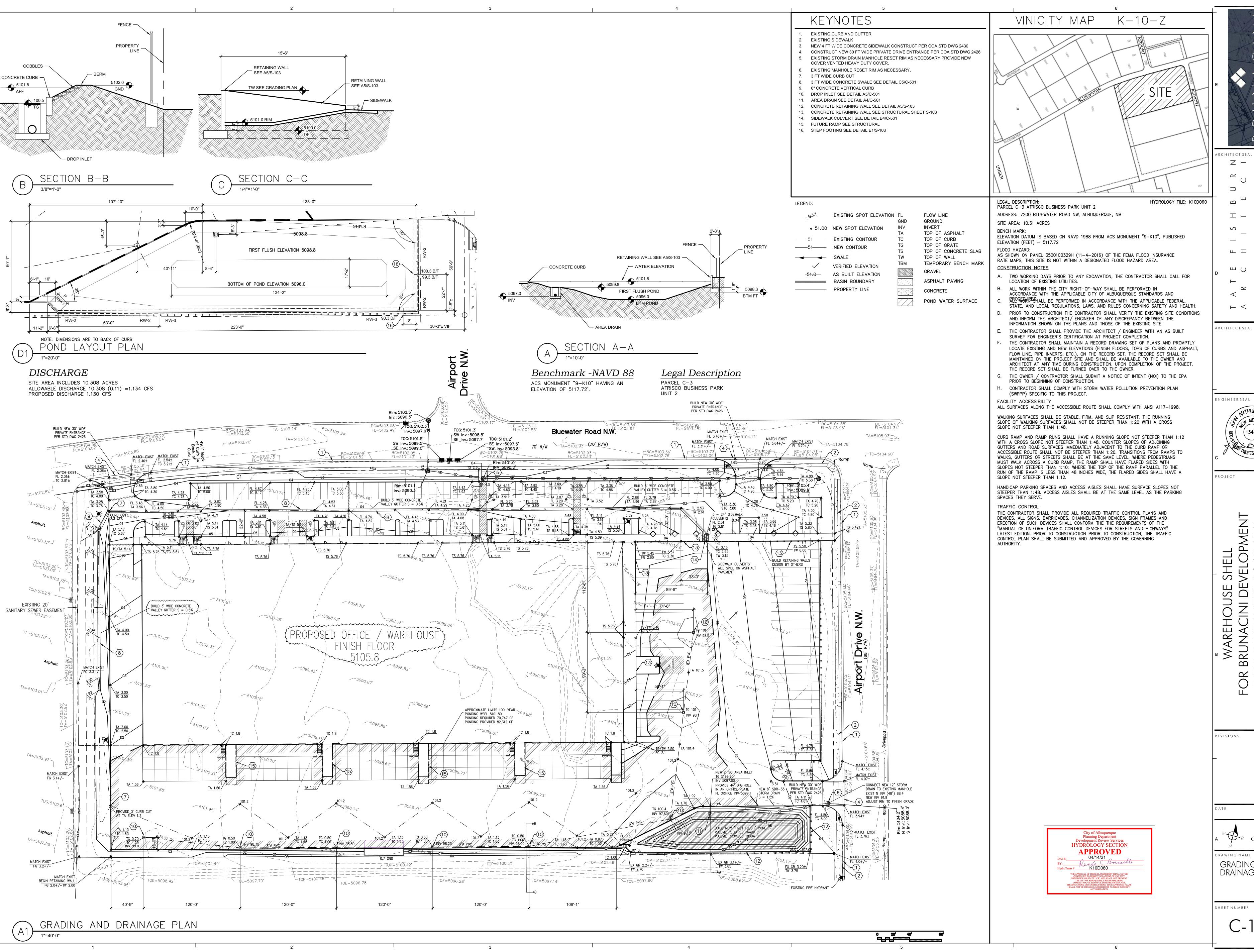
APRIL 5, 2021

SCALE 1"=40'-0"

DRAWING NAME DRAINAGE REPORT

SHEET NUMBER

C-001



RCHITECT SEAL S ц T ш

ENGINEER SEAL

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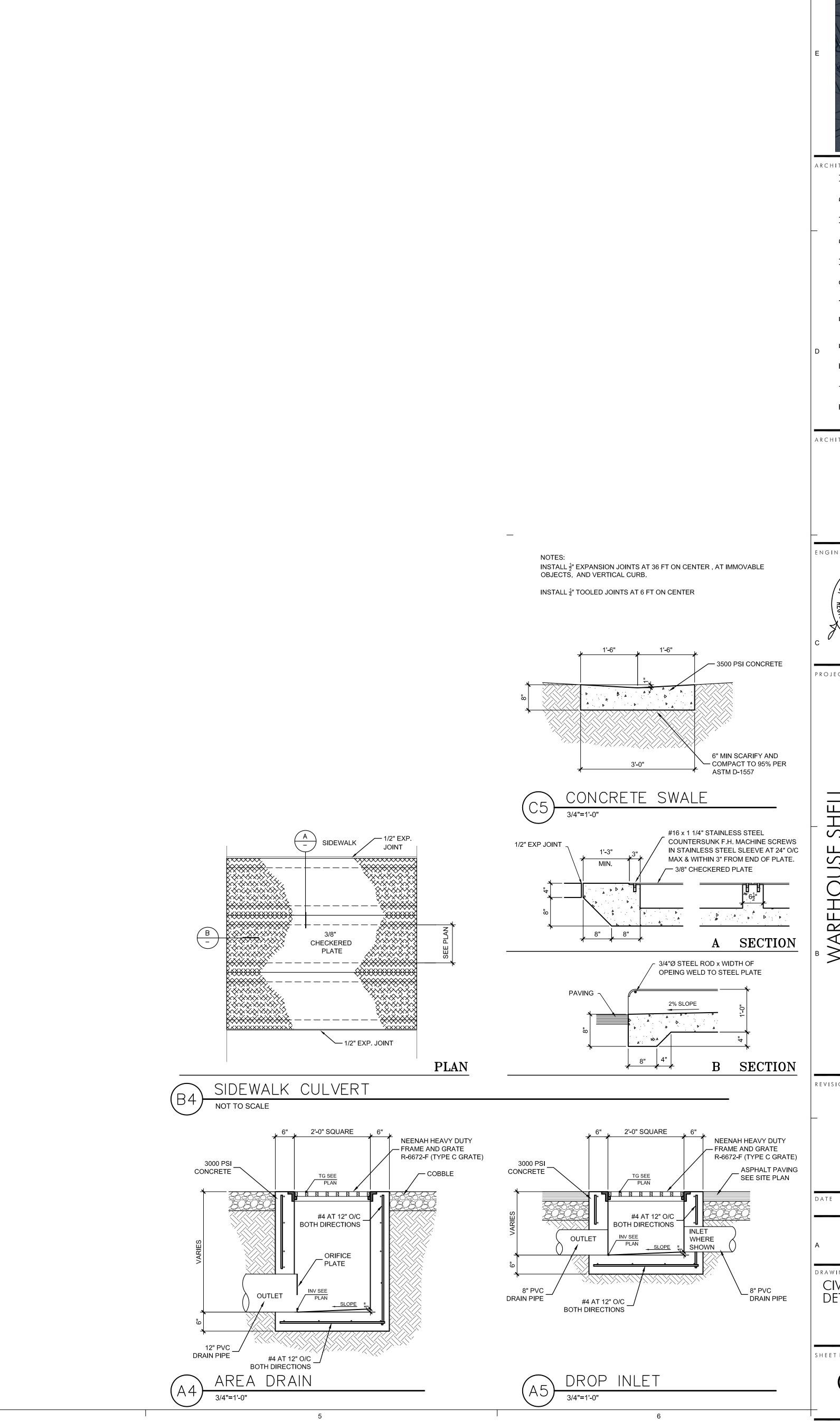
APRIL 5, 2021 1"=40'-0"

OR AS NOTED

DRAWING NAME GRADING AND DRAINAGE PLAN

SHEET NUMBER

C-101



ARCHITECT SEAL

ENGINEERSEAL

PROJECT

FOR BRUNACINI DE TOO BLUEWATE ALBUQUERQUE, I

REVISIONS

APRIL 5, 2021 3/4"=1'-0" OR AS NOTED

DRAWING NAME

CIVIL DETAILS

SHEET NUMBER

C-501