CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



May 22, 2020

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E. Albuquerque, NM 87108

RE: **Paseo Nuevo Parking Lot**

6321 Holly Ave. NE

Grading & Drainage Plan

Engineer's Stamp Date: 05/04/20 Hydrology File: C18D074A

Dear Mr. Arfman:

PO Box 1293 Based upon the information provided in your submittal received 05/20/2020, the Grading and

Drainage Plan is approved for Paving Permit and Grading Permit.

Albuquerque Please provide a Drainage Covenant per Chapter 17 of the DPM for Stormwater Quality ponds

as soon as possible. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be

required.

www.cabq.gov

NM 87103 As a reminder, 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.

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

Renée C. Brissette

Planning Department



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: Paseo Nuevo Parking Lot	Building	Permit #:	Hydrology File #: C18D074A
DRB#:	EPC#:		Work Order#:
Legal Description: Tract A, Paseo Nuevo	o 2 and Tra	act C, Paseo Nuevo	
City Address:			
Applicant: Isaacson & Arfman, Inc. Address: 128 Monroe Street NE - Albu Phone#: (505) 268-8828 Owner:	uquerque, Fax#:	NM 87108	E-mail: freda@iacivil.com bryanb@iacivil.com
Address:Phone#:			E-mail:
TYPE OF SUBMITTAL: PLAT (# OF SUBMITTAL): X DEPARTMENT: TRAFFIC/ TRANSPO	Yes	No	
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TC) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	APPLIC L)	X BUILDING PER CERTIFICATE OF PRELIMINARY SITE PLAN FOR SITE PLAN FOR FINAL PLAT AR SIA/ RELEASE FOUNDATION GRADING PER SO-19 APPROV X PAVING PERM GRADING/ PAI WORK ORDER AR CLOMR/LOMR FLOODPLAIN I	OF OCCUPANCY PLAT APPROVAL R SUB'D APPROVAL R BLDG. PERMIT APPROVAL PPROVAL OF FINANCIAL GUARANTEE PERMIT APPROVAL MIT APPROVAL IT APPROVAL O CERTIFICATION
DATE SUBMITTED: May 20, 2020	=		
COA STAFF:		ONIC SUBMITTAL RECEIVED:	

FEE PAID:___

128 Monroe Street NE Albuquerque, NM 87108 505-268-8828 | www.iacivil.com

May 20, 2020

Ms. Renée Brisette & Mr. Shahab Biazar, PE City of Albuquerque Development and Building Services 600 2nd St. NW, Suite 201 Albuquerque, NM 87102

RE: PASEO NUEVO PARKING LOT - C18D074A - RESUBMITTAL

Dear Ms. Brisette & Mr. Biazar,

Attached with this letter is the electronic resubmittal of the stamped & dated Grading and Drainage Plan and Supplemental Information for the above referenced project. Minor revisions were made including:

- Phase lines
- Phase 3 area interim grades
- Update calculations and project information

Regarding the previous submittal, we received review comments regarding the allowable discharge rates. The comments and responses are provided below:

1. Please note that Tract C (0.8275 Ac) is part of the Revised Drainage Report for Paseo Nuevo dated August 2006 by Tierra West. This Tract has the allowable discharge of 3.51 cfs with 20% B cover and 80% D cover. Please adjust all reference and calculations to reflect this.

RESPONSE: See Supplemental Information for AHYMO calculations for Tract C showing fully developed discharge will be less than the allowable discharge of 3.75 cfs which is based on the Paseo Nuevo Revised Drainage Report (PNRDR) referencing 22.66 cfs for the 5 acre area. This calculates to 4.53 cfs/acre. NOTE: Page 7 of the PNRDR specifically references the Conceptual Drainage Report for the Holly Ave. Improvements (C18/D72) dated March 2006 (CDRHA) for the allowable discharge rate of 22.66 cfs for the 5 acre area. See excerpt below.

Proposed Drainage Management Plan

As shown on the attached exhibit, the proposed site is divided into 7 onsite basins. Based on the approved Conceptual Drainage Report for the Holly Avenue Improvements (C18/D72) dated March 2006, this site is allowed to discharge 22.66 cfs to the Holly Avenue and San Pedro Drive storm sewer system.

1

Based on AHYMO Calculations (See FCA stamped Supplemental Calculations) Tract C will generate 3.46 cfs < 3.75 cfs allowable.

2. Please note that Tract A (0.6462 ac) is not part of the above referenced Drainage Report. The site must demonstrate adequate downstream capacity per ∫ 14-5-2-12(G) of the Albuquerque Code of Ordinances.

RESPONSE: Tract A is not part of the PNRDR as it is not included in the 5 acre area referenced in the PNRDR, but it is part of CDRHA – the same report that the PNRDR used as the basis for allowable discharge. The CDRHA provides for the same discharge rate per acre for this property which is part of the 'Betty Love' basin (2.66 acres with 12.07 cfs discharge = 4.53 cfs/acre.) The allowable discharge rate for Tract A = 0.6462 ac * 4.53 cfs/ac = 2.93 cfs.

Based on AHYMO Calculations (See FCA stamped Supplemental Calculations) Tract A will generate 2.71 cfs < 2.93 cfs allowable.

3. As a reminder, 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.

RESPONSE: The total project area will exceed 1 acre. The Owner has been informed that an Erosion and Sediment Control Plan and Owner's Notice of Intent (NOI) is required to be submitted as noted.

Please call/email me with any questions or comments.

Sincerely, ISAACSON & ARFMAN P.A.

Bryan J. Bobrick

Bryan J. Bobrick Project Manager Attachments

Supplemental Information

for

Paseo Nuevo Parking Lot Hydrology Submittal

by

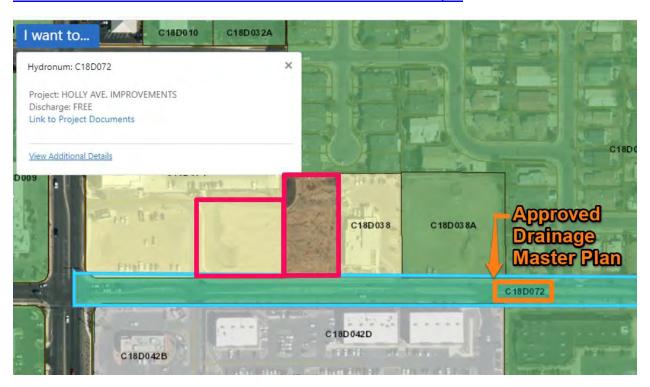




INTRODUCTION:

The allowable discharge for this site is based on the stamped, dated (2006), and approved document entitled *'Conceptual Drainage Report for Holly Avenue Improvements''* prepared by Ronald R. Bohannan, PE, of Tierra West, LLC. The document is available in the CABQ Hydrology Database via a link from project (C18/D72) provided below (Drainage Report).

http://data.cabq.gov/government/planning/drainage/C18D072/C18D072 Documents/C18-D72 HOLLY%20AVENUE%20IMPROVEMENTS DOCUMENTS No .pdf

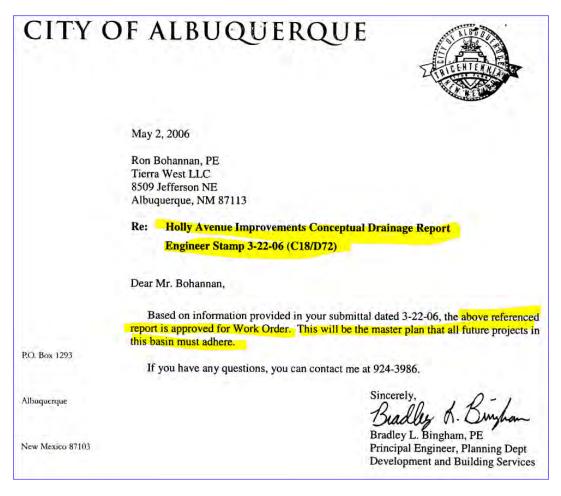


This Drainage Report analyzed the storm drain and street capacities for Holly Ave. and projected fully developed conditions to determine the discharge rates for all properties contributing to the Holly Avenue street and Storm Sewer system.

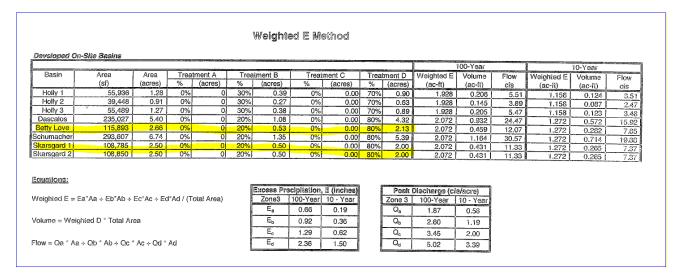
The report notes that:

The storm sewer system for Holly Avenue was based on information obtained from several drainage reports on the surrounding area, and on an analysis of the vacant land adjacent to the street. The storm sewer is sized to accept the flows from the Carmel Subdivision, the Kohl's Department Store site, and the vacant land to the west along Holly Avenue. While the flows from the Carmel Subdivision and the Kohl's were taken from approved drainage reports, the flows from the vacant land was analyzed using a 20% Type "B" and a 80% Type "D" land treatment in anticipation of the area becoming commercial development.

This report was approved for work order and designated by COA Planning Dept. Principal Engineer, Bradly L. Bingham, PE, as the "Master plan that all future projects in the basin must adhere."



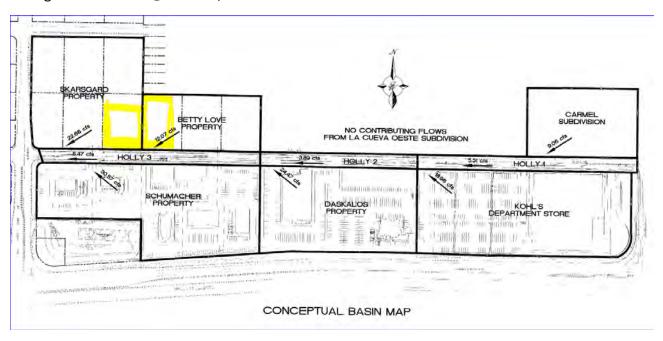
The calculations in the Drainage Report for the Betty Love Basin and the Skarsgard Basins (see table and basin exhibits below) establish a rate of 4.53 cfs/acre for fully developed conditions.



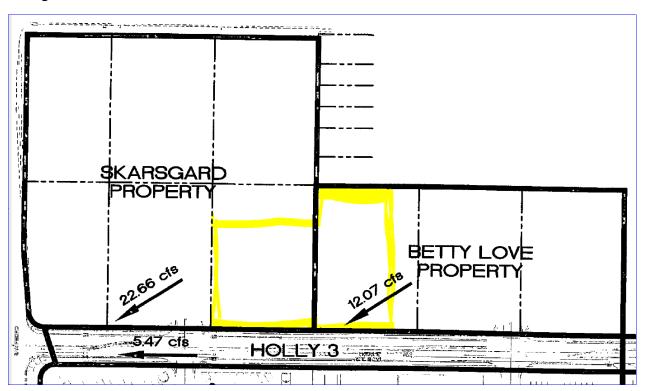
Overall Basin Exhibit:

Betty Love = 2.66 acres @ 4.53 cfs/acre,

Skarsgard = 5.0 acres @ 4.53 cfs/acre



Enlarged Basin Exhibit



The Skarsgard property, which has been partially developed, utilized this same Drainage Report to establish the allowable discharge rate. See except below.

Proposed Drainage Management Plan

As shown on the attached exhibit, the proposed site is divided into 7 onsite basins. Based on the approved Conceptual Drainage Report for the Holly Avenue Improvements (C18/D72) dated March 2006, this site is allowed to discharge 22.66 cfs to the Holly Avenue and San Pedro Drive storm sewer system.

Basin 1 consists primarily of a parking structure and will sheet flow the east and be captured in drain lines extending to the storm sewer system on the ground level and routed to the storm sewer in Holly Avenue. Basin 2 consists of the building and this drainage will be captured in the storm sewer as well. Basins 3 and 4 will drain to landscape drains and into the storm sewer system. Basin 5 will flow to a drop inlet which will be routed to the storm sewer in Holly Avenue. Basins 6 and 7 will sheet flow to Holly Avenue and enter existing drop inlets.

This site will now discharge 22.28 cfs to the Holly Avenue system, which is less than the

22.66 cfs allowed.



AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.01a, Rel: 01a RUN DATE (MON/DAY/YR) INPUT FILE = M:\PROJECTS\2300-2399\2346\CALCS\AHYMO\2346.dat USER NO.= AHYMO_Temp_U								,			
	HYDROGRAPH	FROM ID	TO ID	AREA	PEAK DISCHARGE	RUNOFF VOLUME	RUNOFF	TIME TO PEAK	CFS PER	PAGE =	1
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATI	ON
5	******	*****	*****	******	******	****					0.00
START LOCATION		71 DT	JOUEROU	· c						TIME=	0.00
	= 1 NOAA 14	АПРС	JQUERQU	E.						RAIN6=	2.400
COMPUTE NM HYD *S TRACT A	10.00	-	1	0.00129	3.46	0.136	1.97891	1.530	4.186	PER IMP=	85.00
COMPUTE NM HYD	20.00	-	2	0.00101	2.71	0.107	1.97891	1.530	4.193	PER IMP=	85.00

FINISH

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2346 PASEO NUEVO PARKING LOT
    MAY 19, 2020 - BJB/ANW
    PRECIPITATION FROM NOAA
    HOLLY AVE SITE; ALBUOUEROUE, NM; (LAT: 35.176084° LONG:-106.57590°)
        P15 = 1.07"
        P60 =
                 1.79"
        P360 = 2.40"
        P1440 = 2.74"
    HYDROLOGIC MODEL FOR SITE PROPOSED CONDITIONS
    100-YEAR, 6-HOUR STORM
    2246.DAT
    BY ISAACSON & ARFMAN PA - ÅSA NILSSON-WEBER PE / BJB
******************
               TIME=0.0 HR PUNCH CODE=0
LOCATION
                  ALBUOUEROUE
    City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.
    Land Treatment Initial Abstr.(in) Unif. Infilt.(in/hour)
        A
                  0.65
                                     1.67
        В
                  0.50
                                     1.25
                  0.35
                                     0.83
                  0.10
                                     0.04
RAINFALL
               TYPE=1 RAIN QUARTER=1.07 RAIN ONE=1.79
                RAIN SIX=2.40 RAIN DAY=2.74 DT=0.01
            6-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1
            DT = 0.010000 \text{ HOURS} END TIME =
                                              6.000000 HOURS
              0.0000 0.0008 0.0016 0.0024 0.0032 0.0041 0.0049
              0.0057 0.0065 0.0074 0.0082 0.0091 0.0100 0.0109
              0.0118 0.0127 0.0136 0.0145 0.0155 0.0165 0.0175
              0.0185 0.0195 0.0205 0.0215 0.0225 0.0236 0.0248
              0.0259 0.0270 0.0281 0.0293 0.0304 0.0315 0.0336
              0.0362 0.0387 0.0413 0.0438 0.0464 0.0489 0.0515
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0.0542 0.0740	0.0570 0.0768	0.0598 0.0799	0.0627 0.0830	0.0655 0.0861	0.0683 0.0891	0.0712 0.0922
0.0953	0.0983	0.1014	0.1045	0.1077	0.1109	0.1141
0.1173	0.1205	0.1237	0.1269	0.1302	0.1335	0.1369
0.1402	0.1436	0.1469	0.1503	0.1536	0.1570	0.1607
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0.3588	0.3685	0.3139	0.3209	0.3296	0.4089	0.4235
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*S TRACT C
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PRINT HYD ID=1 CODE=5

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FLOW	TIME								
CFS	HRS								
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0.0	0.050	0.0	1.400	1.5	2.750	0.1	4.100	0.0	5.450
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	0.300	0.0	1.650	2.3	3.000	0.0	4.350	0.0	5.700
0.0	0.350	0.0	1.700	1.7	3.050	0.0	4.400	0.0	5.750
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0.0	0.550	0.0	1.900	0.7	3.250	0.0	4.600	0.0	5.950
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0.0	0.650	0.0	2.000	0.5	3.350	0.0	4.700	0.0	6.050

0.0	0.700	0.1	2.050	0.5	3.400	0.0	4.750	0.0	6.100
	0.750	0.1	2.100	0.4	3.450	0.0	4.800	0.0	6.150
0.0	0.800	0.2	2.150	0.4	3.500	0.0	4.850	0.0	6.200
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0.0	0.900	0.2	2.250	0.3	3.600	0.0	4.950	0.0	6.300
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0.0	1.000	0.2	2.350	0.2	3.700	0.0	5.050	0.0	6.400
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0.0	1.100	0.3	2.450	0.2	3.800	0.0	5.150	0.0	6.500
0.0	1.150	0.4	2.500	0.1	3.850	0.0	5.200	0.0	6.550
0.0	1.200	0.5	2.550	0.1	3.900	0.0	5.250	0.0	6.600
0.0	1.250 1.300	0.6 0.7	2.600 2.650	0.1	3.950 4.000	0.0	5.300 5.350	0.0	

RUNOFF VOLUME = 1.97891 INCHES = 0.1365 ACRE-FEET
PEAK DISCHARGE RATE = 3.46 CFS AT 1.530 HOURS BASIN AREA = 0.0013 SQ. MI.

*S TRACT A

COMPUTE NM HYD

ID=2 HYD NO=20 AREA= 0.0010096875 SQ MI

PER A=0 PER B=0 PER C=15 PER D=85

TP=-0.1333 HR MASS RAIN=-1

PRINT	HYD	ID=2	CODE=5

				OUTFLOW H	/DROGRAPH REACH	20.00			
	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME
FLOW	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS
CFS	0.000	0.0	1.350	0.8	2.700	0.1	4.050	0.0	5.400
0.0	0.050	0.0	1.400	1.2	2.750	0.0	4.100	0.0	5.450
0.0	0.100	0.0	1.450	1.9	2.800	0.0	4.150	0.0	5.500
0.0	0.150	0.0	1.500	2.6	2.850	0.0	4.200	0.0	5.550
0.0	0.200	0.0	1.550	2.6	2.900	0.0	4.250	0.0	5.600
0.0	0.250	0.0	1.600	2.3	2.950	0.0	4.300	0.0	5.650
0.0	0.300	0.0	1.650	1.8	3.000	0.0	4.350	0.0	5.700
0.0	0.350	0.0	1.700	1.4	3.050	0.0	4.400	0.0	5.750
0.0	0.400	0.0	1.750	1.1	3.100	0.0	4.450	0.0	5.800
0.0	0.450	0.0	1.800	0.8	3.150	0.0	4.500	0.0	5.850
0.0	0.500	0.0	1.850	0.7	3.200	0.0	4.550	0.0	5.900
0.0	0.550	0.0	1.900	0.6	3.250	0.0	4.600	0.0	5.950
0.0	0.600	0.0	1.950	0.5	3.300	0.0	4.650	0.0	6.000
0.0	0.650	0.0	2.000	0.4	3.350	0.0	4.700	0.0	6.050
0.0	0.700	0.0	2.050	0.4	3.400	0.0	4.750	0.0	6.100
0.0	0.750	0.1	2.100	0.3	3.450	0.0	4.800	0.0	6.150
0.0	0.800	0.1	2.150	0.3	3.500	0.0	4.850	0.0	6.200
0.0	0.850	0.1	2.200	0.2	3.550	0.0	4.900	0.0	6.250
0.0									

0 0	0.900	0.2	2.250	0.2	3.600	0.0	4.950	0.0	6.300
0.0	0.950	0.2	2.300	0.2	3.650	0.0	5.000	0.0	6.350
0.0	1.000	0.2	2.350	0.2	3.700	0.0	5.050	0.0	6.400
0.0	1.050	0.2	2.400	0.2	3.750	0.0	5.100	0.0	6.450
0.0	1.100	0.2	2.450	0.1	3.800	0.0	5.150	0.0	6.500
0.0	1.150	0.3	2.500	0.1	3.850	0.0	5.200	0.0	6.550
0.0									0.330
	1.200 1.250	0.4	2.550 2.600	0.1	3.900 3.950	0.0	5.250 5.300	0.0	
	1.300	0.6	2.650	0.1	4.000	0.0	5.350	0.0	
	RUNOFF VO	LUME = 1	1.97891 INCHES	=	0.1066 ACRE-F	EET			
	PEAK DISC	HARGE RATE =	= 2.71 CFS	AT 1	1.530 HOURS BAS	IN AREA =	0.0010 SQ. MI.		

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 10:19:21

