

November 6, 2007

Mike J. Walla, P.E. 6100 Indian School Rd NE Albuquerque, NM 87110

Re: Paseo Crossing Shopping Center

8000 Paseo Del Norte Bldgs B & E

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 7/10/06 (D-19/D026)

Certification dated 9/17/07, 11-2-07

P.O. Box 1293

Based upon the information provided in your submittal received 11/05/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

Albuquerque

New Mexico 87103

www.cabq.gov

Timothy Sims)
Plan Checker - Hydrology

Sincerely

Development and Building Services

C: CO Clerk – Katrina Sigala File

Albuquerque - Making History 1706-2006

FAT(881-4025)



November 2,2006

Mike Walla, P.E. Walla Engineering Ltd. 6100 Indian School Rd. NE Albuquerque, NM 87110

Paseo Crossing, 8000 Paseo del Norte Boulevard NE, Grading and Re:

Drainage Plan

Engineer's Stamp dated 7-10-06 (D19-D26)

Dear Mr. Walla,

Based upon the information provided in your submittal received 10-30-06, the 11-2-06 above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

Albuquerque

A separate permit (SO#19) is required for construction within City Right of Way. A copy of this approval letter must be on hand when applying for the excavation permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

New Mexico 87103

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

www.cabq.gov

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.

Senior Engineer, Planning Dept. Development and Building Services

C: Edward Elwell, DMD Street / Storm Maintenance Antoinette Baldonado, Construction Services Charles Caruso, DMD Storm Drainage Design File



September 18, 2007

Mike J. Walla, P.E. 6100 Indian School Rd NE Albuquerque, NM 87110

Re: Paseo Crossing Shopping Center

8000 Paseo Del Norte Bldgs A, C and D

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 7/10/06 (D-19/D026)

Certification dated 9/17/07

Based upon the information provided in your submittal received 9/17/07, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695.

Albuquerque

P.O. Box 1293

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.

Engineering Associate - Hydrology Development and Building Services

C: CO Clerk

File

Clado

Proposed Drainage Management

The proposed off-site drainage management plan is to conform with the Master

Drainage Plan for North and South Domingo Baca Arroyos and Paseo del Norte Corridor dated

December 26, 1991. The off-site upland basin is part of basin 427.1 in the Mater Drainage Plan

and has a developed flow of 46.16 cfs during the 100-year storm. This flow from the upland

basin is conveyed to Palomas Avenue, which will be contained within the street and flow to an

existing storm drain in Wyoming Boulevard, just north of Palomas Avenue, which will outfall to

the South Domingo Baca Arroyo. The flow in Wyoming will not violate the one-lane dry criteria

requirements of an arterial street in a ten-year storm event by changing the drop inlet in

Wyoming to a double "A" with sweepers on each side. The ten-year storm from the basin that

contributes to the existing drop inlet in Wyoming Boulevard generates approximately 29.63 cfs.

The ponding height from the generated flow at a double "A" drop inlet is approximately 0.3 feet,

well below the 0.554 foot height restriction to leave one lane dry. All calculations can be found
in Section 2 of this report under Runoff Calculations & Street Capacities.

The drainage from additional acceleration and deceleration lanes on Paseo del Norte will flow into a series of drop inlets located on the south side of Paseo del Norte just east of Wyoming Boulevard. These drop inlets connect to the same existing storm drain system in Wyoming Boulevard that outfalls to the South Domingo Baca Arroyo. The flows are in accordance with the 1991 Drainage Management Plan and are eventually discharged to the Northern Diversion Channel which discharges to the Rio Grande River.

Calculations

The weighted E method from the "City of Albuquerque Development Process Manual Volume 11 – Design Criteria, 1997 Revision" was used to calculate the runoff and volume for the site. The site was further analyzed using the AHYMO program routing the flows through the site.

Summary

The off-site upland basin will drain south to Palomas Avenue then flow west in the street to an existing storm drain pipe in Wyoming Boulevard that connects to the South Domingo Baca Arroyo. Because the flow is contained within the street, there is no need to extend the storm drain connection from Wyoming Boulevard along Palomas Avenue. However, the drop inlet found in Wyoming will have to be changed to a double "A" drop inlet to contain the flows generated from the analyzed upland basin. The flow is comparable to those calculated in the previous Drainage Management Plan. As individual sites develop, within the upland basin, they will be responsible for submitting a site specific grading and drainage plan that follows this management plan.

Drainage Basins

Off-site Developed Basins

BASIN	AREA (SF)	AREA (AC)	AREA (MI²)
1	470136.8	10.7929	0.01686
Total	470136.8	10.7929	0.01686

Land Treatment Percentages

Off-site Developed Basins

BASIN	Treatment A	Treatment B	Treatment C	Treatment D
1	0.0	20.0	10.0	70.0

Runoff Calculation Results

Off-site Developed Basins

BASIN	Q-100 CFS	V-100 AC-FT
1	46.16	1.978
Total	46.16	1.978

Weighted E Method

Off-Site Basins (Future Developed)

Basin	Area	Aron	Tuest		77	4					100-Year, 6-Hr		10-Year, 6-Hr			100-Year, 10-Day			
Dusin		Area	Ireat	ment A	ırea	tment B	Treatn	nent C	Treat	ment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow	Weighted E	Volume	Flow
<u> </u>	(sf)	(acres)	%	(acres)	<u>%</u>	(acres)	%	(acres)	%	(acres)		(ac-ft)	cfs		(ac-ft)	cfs	rioigillou L	(ac-ft)	cfs
	<u> </u>			·														13.5 1.7	0.0
4	470029.0	10.7004																	
	470029.0	10.7904	0%	0.00	20%	2.16	10%	1.0790381	70%	7.55	1.965	1.767	47.25	1.184	1.065	30.33	1.965	2.692	47.2
Total	470.000	40.70										_						2.002	77.4
Total	470,029	10.79		0		2.16		1.08		7.55		1.767	47.25		1.065	30.33		2.692	47.2

CAPACITY OF DOUBLE 'C' STORM DROP INLET

Capacity of the grate:

Orifice Equation

Q = CA sqrt(2gH)Q = 0.6*4.21*sqrt(2*32.2*0.554)

Q = 15.09 cfs

Capacity of the throat:

Weir Equation

 $Q = CLH^{(3/2)}$

 $Q = 2.95 * 7.3958 * 0.554^{(3/2)}$

Q = 9.00 cfs

Total Capacity:

 $Q = 15.09_{grate} + 9.00_{throat}$ $Q = 24.09 \text{ cfs} \ 29.63 \text{ cfs} \text{ (flow generated)}$

STORM DROP INLET (EFFECTIVE AREA-IN PONDING SECTION) (DBL-A @ the ponding section w/ sweepers on each side)

Area @ the Grate:

$$L = 88 \frac{3}{4}" - 2(6"_{ENDS}) - 6"_{CENTER PIECE} - 14(\frac{1}{2}"_{MIDDLE BARS})$$
$$= 63 \frac{3}{4}" = 5.3125'$$

$$W = 25 \frac{1}{2}" - 13(\frac{1}{2}"_{MIDDLE BARS})$$
$$= 19" = 1.5833'$$

Area =
$$5.3125 \times 1.5833$$

= 8.41 ft^2

Effective Area =
$$8.41 - \frac{1}{2}(8.41)_{\text{CLOGGING FACTOR}}$$

= 4.21 ft^2 @ the Grate

Area @ the Throat:

$$L = 13.5$$

$$H = 10 \frac{3}{4}" - 4 \frac{1}{2}"$$
$$= 6 \frac{1}{4}" = 0.5208'$$

Area =
$$13.50 \times 0.5208$$

= 7.03 ft^2 @ the Throat

Total Area

Area =
$$4.21_{GRATE}$$
 + 7.03_{THROAT}
= 11.24 ft^2

Using one Double "A" w/ Sweepers on each side (Checking the ponding depth at the inlet)

$$Q = 29.63 cfs$$

$$H = (Q/CA)^2/(2g)$$

H =
$$(29.63/(0.60 \times 11.24))^2/(2 \times 32.2)$$

= 0.2998 ft < 0.554 ft (one lane dry criteria height)

Palomas Drive 40' F-F Street Section with 8" curb Slope= 0.0368

For water depths less than 0.125 feet

Y= Water depth

Area = $8*Y^2$

P= SQRT(257*Y^2) + Y

n= 0.017

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.010	0.0008	0.1703	0.0047	0.0004	0.0008	0.4703	0.0047	0.8288	0.0077
0.020	0.0032	0.3406	0.0094	0.0024	0.0048	0.7466	0.0149	0.0200	0.0077
0.040	0.0128	0.6812	0.0188	0.0152	0.0303	1.1851	0.0474	1.0443	0.0101
0.060	0.0288	1.0219	0.0282	0.0447	0.0894	1.5529	0.0932	1.1173	0.0424
0.080	0.0512	1.3625	0.0376	0.0963	0.1926	1.8813	0.1505	1.1721	0.0094
0.100	0.0800	1.7031	0.0470	0.1746	0.3493	2.1830	0.2183	1.2165	0.0965
0.120	0.1152	2.0437	0.0564	0.2840	0.5680	2.4652	0.2958	1.2541	0.1292
0.125	0.1250	2.1289	0.0587	0.3166	0.6333	2.5332	0.3166	1.2626	0.1693

For water depths greater than 0.125 ft but less than 0.360 ft

Y1= Y-0.125

A2= A1 + 2*Y1 + 25*Y1^2 P2= P1 + SQRT(2501*Y1^2)

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.125	0.1250	2.1289	0.0587	0.3166	0.6333	2.5332	0.3166	1.2626	
0.155	0.2075	3.6592	0.0567	0.5136	1.0271	2.4750	į.		0.1693
0.185	0.3350	5.1895	0.0646	0.9040	1.8079	l l	0.3836	1.1079	0.1774
0.215	0.5075	6.7198	0.0755	1.5205	1	2.6984	0.4992	1.1056	0.2112
0.245	0.7250	8.2501	0.0879		3.0410	2.9960	0.6441	1.1387	0.2550
0.275	0.9875	9.7804		2.4030	4.8060	3.3145	0.8120	1.1801	0.3043
0.305	1.2950		0.1010	3.5905	7.1809	3.6359	0.9999	1.2219	0.3572
4	1	11.3107	0.1145	5.1202	10.2403	3.9538	1.2059	1.2616	0.4127
0.335	1.6475	12.8410	0.1283	7.0275	14.0551	4.2656	1.4290	1.2988	0.4702
0.360	1.9756	14.1163	0.1400	8.9301	17.8601	4.5201	1.6272	1.3276	0.5195

For water depths greater than 0.360 ft but less than 0.667 ft

Y2= Y - 0.360 A3= A2 + Y2*20P3= P2 + Y2

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	2Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.360	1.9756	14.0713	0.1404	8.9491	17.8982	4.5298	1.6307	1.3304	0.5209
0.400	2.7756	14.1113	0.1967	15.7417	31.4834	5.6714	2.2686	1.5803	0.7160
0.436	3.4955	14.1472	0.2471	23.0800	46.1600	6.6027	2.8788	1.7622	0.8902
0.440	3.5756	14.1513	0.2527	23.9635	47.9270	6.7019	2.9488	1.7805	0.9096
0.480	4.3756	14.1913	0.3083	33.4873	66.9746	7.6531	3.6735	1.9467	
0.520	5.1756	14.2313	0.3637	44.2184	88.4368	8.5436	4.4427	2.0879	1.1031
0.560	5.9756	14.2713	0.4187	56.0821	112.1643	9.3852	5.2557	2.0079	1.2973
0.600	6.7756	14.3113	0.4734	69.0172	1	10.1861	6.1117		1.4926
0.670	8.1756	14.3813	0.5685	94.0801	188.1601	11.5074		2.3174	1.6891
0.667	8.1156	14.3783	0.5644	92.9451	185.8901	•	7.7099	2.4775	2.0363
			0.0017	02.0701	100.0001	11.4526	7.6389	2.4712	2.0213

Street Capacity Calculations

WYOMING BOULEVARD 40' F-F Northbound Street Section with 8" curb Slope= 0.0083

For water depths less than 0.125 feet

Y= Water depth Area = 8*Y^2

P= SQRT(257*Y^2) + Y

n= 0.017

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.010	0.0008	0.1703	0.0047	0.0002	0.2234	0.0022	0.3936	0.0025
0.020	0.0032	0.3406	0.0094	0.0011	0.3546	0.0071	0.4418	0.0060
0.040	0.0128	0.6812	0.0188	0.0072	0.5628	0.0225	0.4959	0.0145
0.060	0.0288	1.0219	0.0282	0.0212	0.7375	0.0443	0.5306	0.0241
0.080	0.0512	1.3625	0.0376	0.0457	0.8934	0.0715	0.5567	0.0346
0.100	0.0800	1.7031	0.0470	0.0829	1.0367	0.1037	0.5778	0.0458
0.120	0.1152	2.0437	0.0564	0.1349	1.1707	0.1405	0.5956	0.0575
0.125	0.1250	2.1289	0.0587	0.1504	1.2030	0.1504	0.5996	0.0606

For water depths greater than 0.125 ft but less than 0.667 ft

Y1= Y-0.125

A2= A1 + 2*Y1 + 25*Y1^2 P2= P1 + SQRT(2501*Y1^2)+Y1

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.125	0.1250	2.1289	0.0587	0.1504	1.2030	0.1504	0.5996	0.0606
0.185	0.3350	5.1895	0.0646	0.4293	1.2815	0.2371	0.5251	0.0731
0.245	0.7250	8.2501	0.0879	1.1412	1.5741	0.3857	0.5604	0.1071
0.305	1.2950	11.3107	0.1145	2.4316	1.8777	0.5727	0.5992	0.1476
0.365	2.0450	14.3713	0.1423	4.4388	2.1706	0.7923	0.6331	0.1918
0.425	2.9750	17.4319	0.1707	7.2894	2.4502	1.0413	0.6623	0.2388
0.485	4.0850	20.4925	0.1993	11.1011	2.7175	1.3180	0.6877	0.2879
0.545	5.3750	23.5531	0.2282	15.9848	2.9739	1.6208	0.7099	0.3388
0.554	5.5784	24.0000	0.2324	16.7940	3.0105	1.6671	0.7129	0.3463
0.605	6.8450	26.6137	0.2572	22.0459	3.2207	1.9485	0.7297	0.3913
0.667	8.5531	29.7763	0.2872	29.6529	3.4669	2.3124	0.7481	0.4470

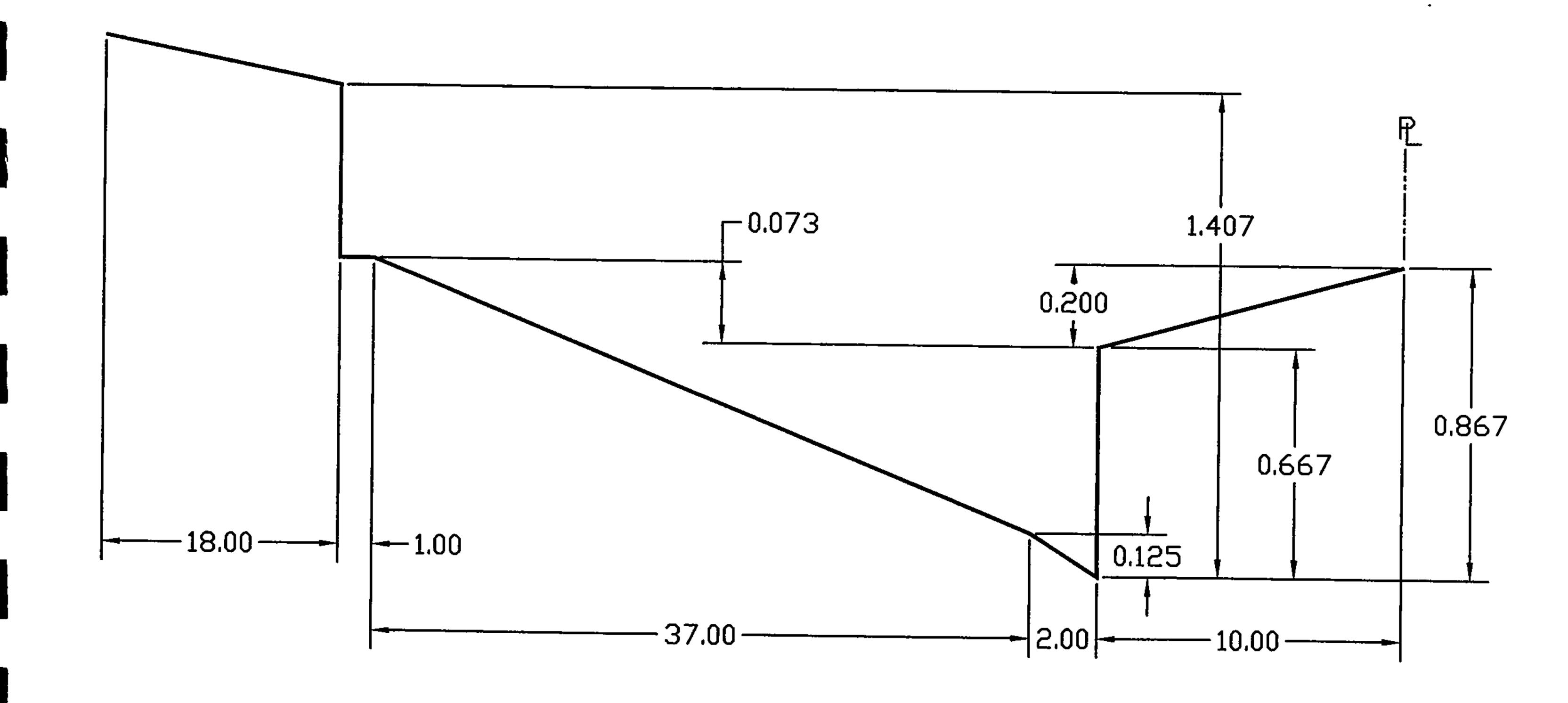
For water depths greater than 0.667 ft but less than 0.867 ft

Y3= Y - 0.667

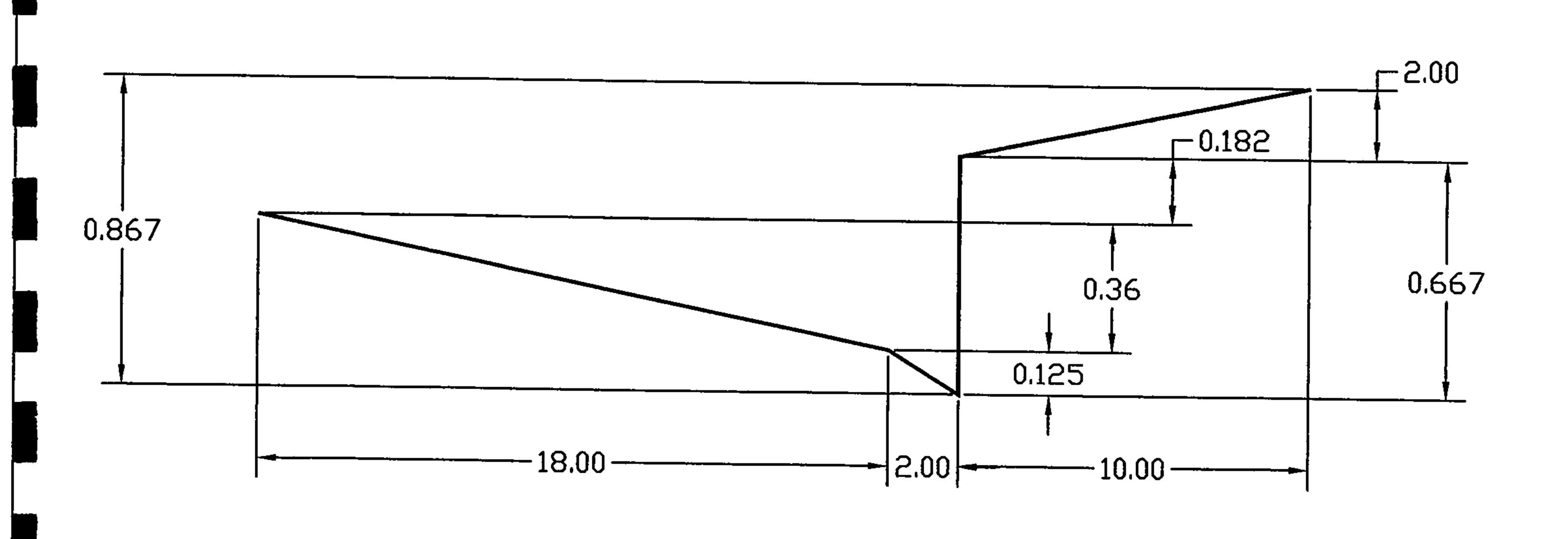
A4= A3 + P2 * Y3 + 2*(25 * Y3^2) P4= P3 + SQRT(2501 * Y3^2)

Depth (ft)	Area (ft^2)	P (ft)	R (A/P)	Q (cfs)	Vel (ft/s)	D*V	Fr	D2 (ft)
0.667	8.5531	29.7763	0.2872	29.6529	3.4669	2.3124	0.7481	0.4470
0.720	10.2717	32.4269	0.3168	38.0110	3.7006	2.6644	0.7686	0.5014
0.750	11.3690	33.9272	0.3351	43.6797	3.8420	2.8815	0.7818	0.5351
0.762	11.8351	34.5298	0.3428	46.1600	3.9003	2.9722	0.7874	0.5491
0.780	12.5563	35.4275	0.3544	50.0784	3.9883	3.1109	0.7958	0.5706
0.808	13.7299	36.8098	0.3730	56.6557	4.1265	3.3327	0.8092	0.6048
0.810	13.8336	36.9278	0.3746	57.2485	4.1384	3.3521	0.8103	0.6077
0.840	15.2009	38.4281	0.3956	65.2314	4.2913	3.6047	0.8251	0.6464
0.867	16.5084	39.7783	0.4150	73.1450	4.4308	3.8415	0.8386	0.6823





120' F-F STREET SECTION W/ 8" CURB, MEDIAN, AND RT TURN LANE



40' F-F STREET SECTION W/ 8" CURB

• • • • • • • • • • • •	2610 Upland Flows2	
*****	ZOLU UPTANO FIOWSZ	6 张
*		*
*	Wyoming and Paseo Shopping Center	, ,
*	S was a wood shopping center	*
*	PROPOSED CONDITIONS (100-YEAR STORM)	_
*	TOWN CANDELTONS (TOO LEAK STORM)	*
************ *	*******************	*
START *	TIME=0.0 HR	
RAINFALL	TYPE=2 RAIN QUARTER=0.0 IN RAIN ONE=2.13 IN RAIN SIX=2.55 IN RAIN DAY=2.95 IN DT=0.0500 HR	
*	12 12 1 DATE 2 2 2 1 1 DI - 0.0300 MK	
*****	************************	.11 7
*	ENTIRE DEVELOPED COMPTON	
********	COLORE DEAFFORES CONDITION	* * * *
* BASIN 1 - FL	LOW INTO PALOMAS AVENUE	
COMPUTE NM HYD	PER A=0 PER B=20.00 PER C=10.00 PER D=70 00	
PRINT HYD	TP=1333 HR MASS RAINFALL=-1 ID=1 CODE=1	
FINISH		

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -INPUT FILE = Z:\2006\26010\Reports\2610UP~2.TXT

AHYMO-Sum

- VERSION: 1997.02d

RUN DATE (MON/DAY/YR) =06/12/2006 USER NO.= AHYMO-S-9702d3TierraW-AH

		FROM	l TO		DEAK	—				3,020311E	raw-AH
COMMAND	HYDROGRA IDENTIFICATION		ID	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME	RUNOFF	TIME TO PEAK	CFS PER	PAGE =	= 1
START						(AC-FT)	(INCHES)	(HOURS)	ACRE	ITATON	ON
RAINFALL TY COMPUTE NM H FINISH	PE= 2 YD 101.(0 –	1	.01686	46.16	1.978	2.19972	1.500	4.278	TIME= RAIN24= PER IMP=	.00 2.950 70.00

Lot 28-A, Block A, Tract A, Unit A North Albuquerque Acres Albuquerque, NM

Prepared by:

Tierra West, LLC 8509 Jefferson NE Albuquerque, New Mexico 87113

Prepared for:
Jason Daskalos
5321 Menaul Boulevard NE
Albuquerque, NM 87110

July 2006

I certify that this report was prepared under my supervision, and I am a registered professional engineer in the State of New Mexico in good standing.

Job No 26010

Ronald B. Bohannan

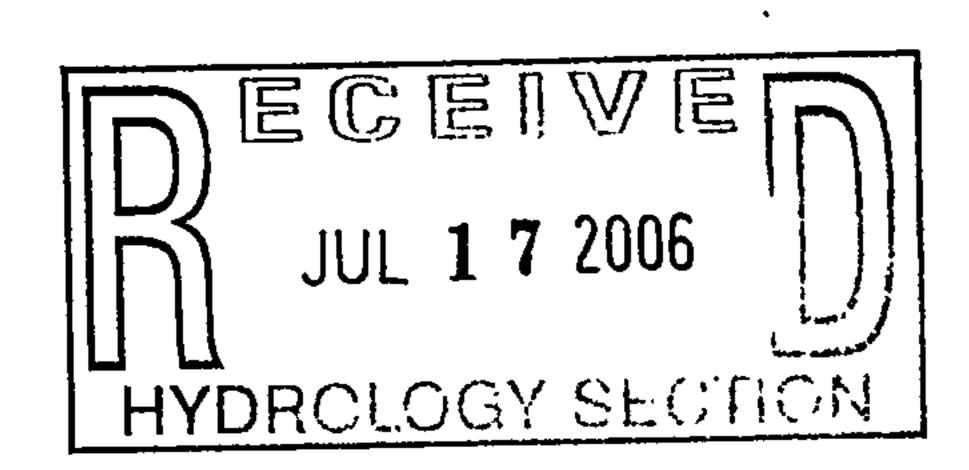


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AHYMO Calculations	

Introduction

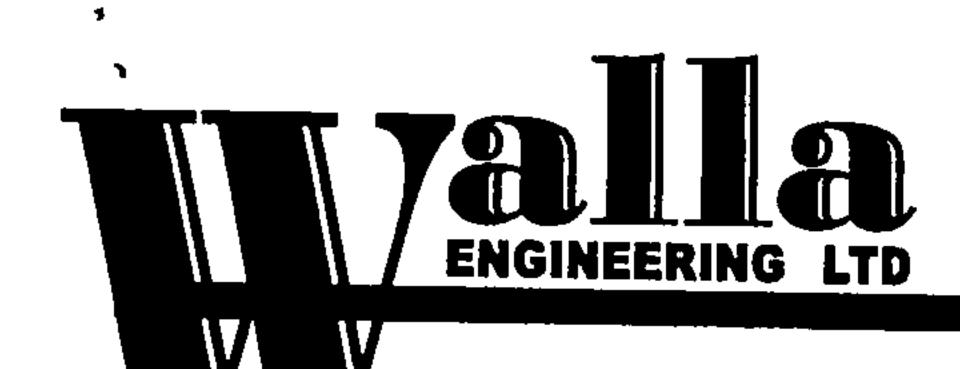
The site is located on the southeast corner of Wyoming Boulevard and Paseo del Norte. The proposed on-site development will consist of commercial uses consistent to that of a standard shopping center. The analyzed off-site basin is bordered on the north by Paseo del Norte, by the proposed on-site development of approximately 9.25 acres to the west, Palomas Avenue to the south, and Barstow Street to the east. The site is shown highlighted on the attached City of Albuquerque Zone Atlas Map, D-19-Z. The purpose of this report is to calculate the upland flows and provide a drainage analysis and management plan for the off-site flows from lots 18-27 (zoned SU-2/O-1) of Tract A, Unit A, North Albuquerque Acres that are entering Palomas Avenue and being collected in the storm drain at Wyoming Boulevard. The on-site development is being prepared by Mike Walla Engineering and the individual sites will be required to submit site specific grading and drainage plans as they are developed.

Existing Drainage Conditions

This site is part of the 1991 approved Master Drainage Plan, North and South Domingo Baca Arroyos and Paseo del Norte Corridor Drainage Management Plan, dated December 26, 1991. According to this plan, each lot was analyzed to have a storm water discharge equivalent to 70% D, 10% C and 20% B to reflect light industrial/commercial development for which the area is zoned. The off-site tracts shall discharge the 100-year flow to Palomas Avenue and be collected in an existing storm drain in Wyoming Boulevard that discharges to the South Domingo Baca Arroyo at Wyoming Boulevard south of Palomas Avenue.

FIRM Map

The site is located on FIRM Map section 35001C0141F as shown on the attached excerpt. The map shows that the site does not lie within any 100-year flood plains.



*

Engineering

TO: Brad Bingham, City of Albuquerque Hydrology

FROM:

Mike J. Walla, P.E. - Walla Engineering, LTD.

DATE:

June 12, 2006

PROJECT:

Paseo Crossing Shopping Center – Lot #1 thru 5 and 28 thru 32, Block

#21, Tract #A, Unit #A, NAA

Zone Atlas D-19-Z

SUBJECT:

Grading & Drainage Report

DESCRIPTION

The subject property is a 5.94 acre property being developed for construction of a shopping center. Currently the site is unimproved and slopes from east to west with several small arroyos carrying approximately 17.35 CFS in developed flows to existing storm drain facilities in Wyoming Blvd. to the west or Paseo Del Norte Blvd. to the north of the subject site. The proposed improvements to this site include 5 new retail or restaurant buildings along with a large parking area. The enclosed plan indicates the proposed grading of the site and drainage improvements required to direct runoff to downstream facilities.

CALCULATIONS

Upstream offsite tributary area affecting this site appears to be limited to an area west of Browning Street since this street has been constructed in such a way that flows east of this street are intercepted and redirected to adjacent drainage courses that do not directly affect the subject site (see sheet 3). The calculated developed flow value of 8.24 CFS (see sheet 2) is accepted at the east end of the subject site and collected in onsite storm drain which conveys this runoff to the north basin of the site. Sheets 1 & 2 of the enclosed calculations identify basin areas and flows

6 1 0 0 Indian School Road NE • Suite 2 1 0 Albuquerque • New Mexico • 8 7 1 1 0 (5 0 5) 8 8 1 - 4 0 2 5

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developed on site. The south basin (Basin I), transmits runoff to the west end of the property and the runoff enters the public system via connection to the back of an existing drop inlet in Wyoming Blvd. The 100-yr flow value is 13 CFS and the outfall pipe has been sized for almost 3 times that flow rate. The north basin (Basin II) drains to Paseo Del Norte and the maximum expected flows to PDN include the offsite runoff east of the site. The total 100-yr flow rate expected is 25.5 CFS and the 24" diameter RCP is sized with twice that capacity. Sheets 4 & 5 are pipe calculations describing flow values as they leave the site from each of the basins and enter storm drain facilities in Wyoming Blvd. and Paseo Del Norte Blvd.

SUMMARY

The proposed on site drainage system has capacity to protect the proposed structures and the site has a large capacity for runoff storage in case of blockage in the storm drains. The curbs at the west end of the site will overflow if the onsite storage limit is reached before any buildings are endangered.

Prepared by:

Michael J. Walla, P.E.

President, Walla Engineering, Ltd.

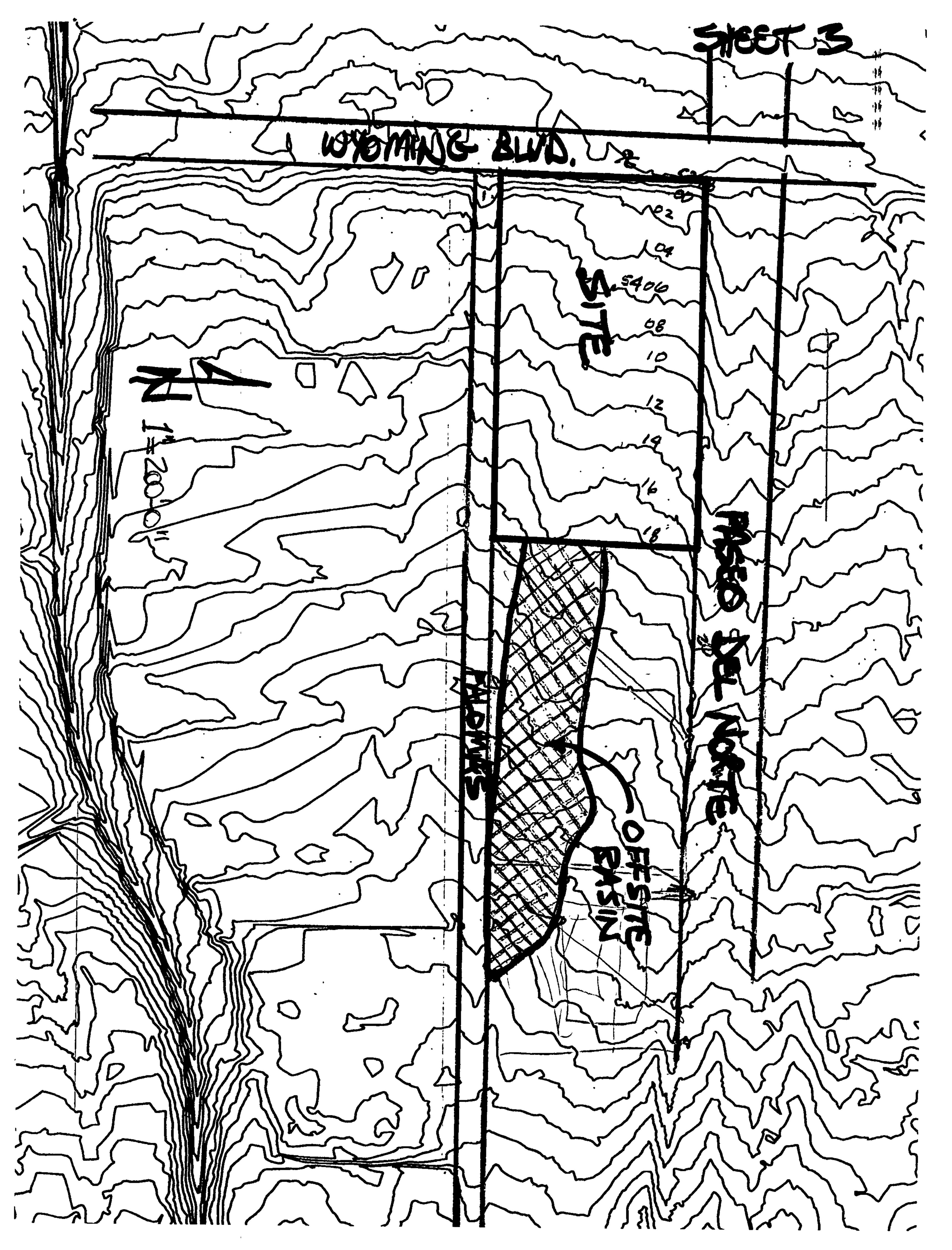


MJW/Hs

		PR	ECIPITA	ATION ZONE	4				
		DE	SIGN S	TORM: (IN)	1hr	6hr	24hr	4day	10day
	.				2.23	2.90	3.65	4.70	5.95
EXISTING				_					
LAND	AREA	AREA	P6	Q	Q	V6	V24	V4day	V10day
TRTMNT	(ACRE)			(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
A	0.000	0%	0.80	2.20	0.00	0	0	0	0
В	2.557	100%	1.08	2.92	7.47	10,024	10,024	10,024	10,024
	0.000	0%	1.46	3.73	0.00	0	0	0	0
D	0.000	0%	2.64	5.25	0.00	0	0	0	0
TOTALS	2.557	100%			7.47	10,024	10,024	10,024	10,024
PROPOSI	ED CONE	ITIONS	- BASIN	11-WEST	MYCKM),	NG)			
LAND	AREA	AREA	P6	Q	` Q	₹ V6	V24	V4day	V10day
TRTMNT	(ACRE)	%		(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
Α	0.000	0%	0.80	2.20	0.00	Ò	0	0	0
В	0.207	8%	1.08	2.92	0.60	812	812	812	812
C	0.000	0%	1.46	3.73	0.00	0	0	0	0
D	2.350	92%	2.64	5.25	12.34	22,521	28,918	37,875	48,539
TOTALS	2.557	100%			12.94	23,332	29,730	38,687	49,350
EXISTING	CONDIT	IONS - E	BASIN II						
LAND	AREA	AREA	P6	Q	Q	V6	V24	V4day	V10day
TRTMNT	(ACRE)	%		(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
Α	0.000	0%	0.80	2.20	0.00	0	0	Ò	Ò
В	3.383	100%	1.08	2.92	9.88	13,263	13,263	13,263	13,263
C	0.000	0%	1.46	3.73	0.00	0	0	0	0
D	0.000	0%	2.64	5.25	0.00	0	0	0	0
TOTALS	3.383	100%			9.88	13,263	13,263	13,263	13,263
PROPOSE	ED COND	ITIONS	- BASIN	ii - NOR	TH (FA	SEO 1052	NORTE		
LAND	AREA	AREA	P6	Q	Q	V6	V24	V4day	V10day
TRTMNT	(ACRE)	%		(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
Α	0.000	0%	0.80	2.20	0.00	`O´	0	0	0
В	0.237	7%	1.08	2.92	0.69	929	929	929	929
С	0.000	0%	1.46	3.73	0.00	0	0	0	0
D	3.146	93%	2.64	5.25	16.52	30,149	38,714	50,705	64,980
TOTALS	3.383	100%			17.21	31,078	39,643	51,634	65,909

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EXISTING	CONDIT	IONS - (DFFSIT	E BASIN					
LAND	AREA	AREA	P6	Q	Q	V6	V24	V4day	V10day
TRTMNT	(ACRE)	%		(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
Α	0.000	0%	0.80	2.20	0.00	0	0	0	0
B	2.600	100%	1.08	2.92	7.59	10,193	10,193	10,193	10,193
C	0.000	0%	1.46	3.73	0.00	0	0	0	0
D	0.000	0%	2.64	5.25	0.00	0	0	0	0
TOTALS	2.600	100%			7.59	10,193	10,193	10,193	10,193
PROPOSE	ED COND	ITIONS	- OFFS	ITE BASIN					
LAND	AREA	AREA	P6	Q	Q	V6	V24	V4day	V10day
TRTMNT	(ACRE)	%		(CFS/AC)	(CFS)	(CF)	(CF)	(CF)	(CF)
Α	1.118	43%	0.80	2.20	2.46	3,247	3,247	3,247	3,247
В	0.520	20%	1.08	2.92	1.52	2,039	2,039	2,039	2,039
C	0.520	20%	1.46	3.73	1.94	2,756	2,756	2,756	2,756
D	0.442	17%	2.64	5.25	2.32	4,236	5,439	7,124	9,129
TOTALS	2.600	100%			8.24	12,277	13,480	15,165	17,171



Worksheet Worksheet for Circular Channel

Project Description	1
Worksheet	Circular Channel
Flow Element	Circular Channel
Method	Manning's Formu
Solve For	Discharge

Input Data		
Mannings Coeffic	0.013	
Slope	120000	ft/ft
Depth	1.30	ft
Diameter	18	in

Results		
Discharge	38.01	cfs
Flow Area	1.6	ft²
Wetted Perime	3.59	ft
Top Width	1.02	ft
Critical Depth	1.50	ft
Percent Full	86.7	%
Critical Slope	0.126430	ft/ft
Velocity	23.36	ft/s
Velocity Head	8.48	ft
Specific Energ	9.78	ft
Froude Numbe	3.26	
Maximum Disc	39.14	cfs
Discharge Full	36.39	cfs
Slope Full	0.130918	ft/ft
Flow Type	Supercritical	

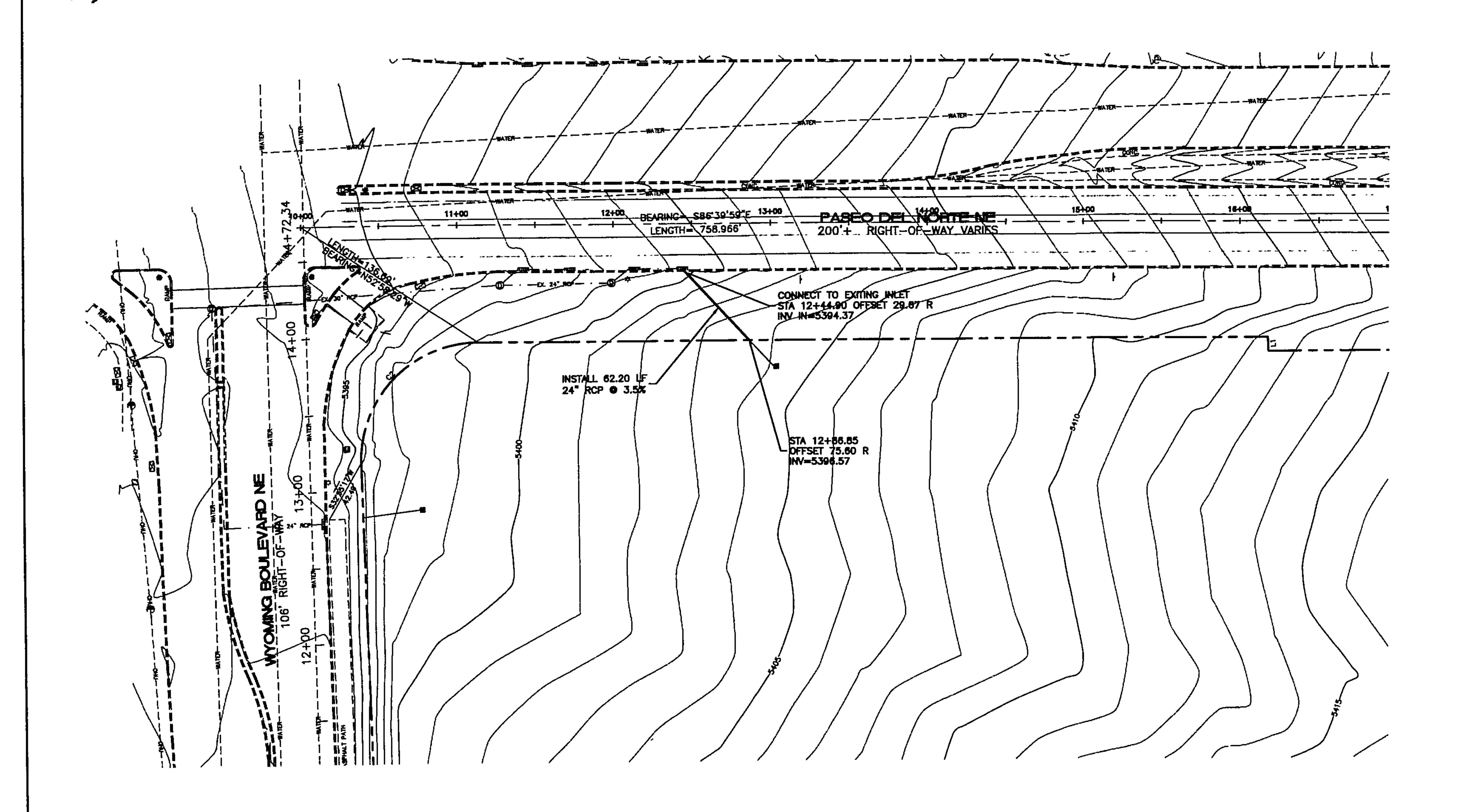
PASIN I (WYOMING) DISCHARGE CHARCITY
DISCHROE CHARCITY
ACRIL = 13CFS

Worksheet Worksheet for Circular Channel

Project Description	1
Worksheet	Circular Channel
Flow Element	Circular Channel
Method	Manning's Formu
Solve For	Discharge

Input Data		
Mannings Coeffic	0.013	
Slope	035000	ft/ft
Depth	1.88	ft
Diameter	26	in

Results		
Discharge	54.76	cfs
Flow Area	3.4	ft²
Wetted Perime	5.19	ft
Top Width	1.47	ft
Critical Depth	2.13	ft
Percent Full	86.8	%
Critical Slope	0.034632	ft/ft
Velocity	16.12	ft/s
Velocity Head	4.04	ft
Specific Energ	5.92	ft
Froude Numbe	1.87	
Maximum Disc	56.36	cfs
Discharge Full	52.39	cfs
Slope Full	0.038243	ft/ft
Flow Type	Supercritical	



NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, INLESS
OTHERWISE STATED OR PROVIDED HEREON, WITH CITY OF ALBUQUERQUE
INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988
THROUGH UPDATE 7.

3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990), FOR LOCATION OF EXISTING UTILITIES.

4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

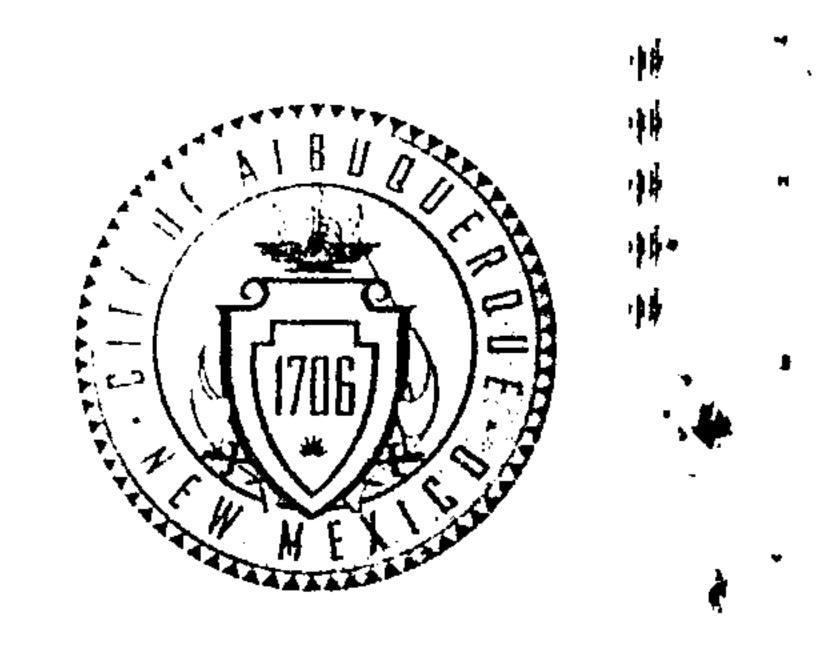
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE, PER CITY OF ALBUQUERQUE SPECIFICATIONS.

6. MAINTENANCE OF THOSE FACILITIES NOT WITHIN DEDICATED EASEMENTS SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24—HOUR BASIS.
8. CONTRACTOR IS RESPONSIBLE TO PROVIDE UTILITY STUBS 5' FROM BUILDING

9. CONTRACTOR IS REQUIRED TO VERIFY INVERT AND LOCATIONS OF STORM DRAINS AND SANITARY SEWER AT SERVICE CROSSINGS AND CONNECTIONS AT START OF CONSTRUCTION. CONTRACTOR SHALL IMMEDIATLEY NOTIFY ENGINEER OF DISCREPENCIES BETWEEN INVERT ELEVATIONS SHOWN ON THESE PLANS AND ACTUAL FIELD ELEVATIONS.

LEGEND DESCRIPTION EXISTING SAS MANHOLE - EXISTING SANITARY SEWER LINE PROPOSED SAS MANHOLE PROPOSED SAS CLEANOUT --- PROPOSED SANITARY SEWER LINE SANITARY SEWER SERVICE LINE EXISTING METER EXISTING VALVE W/BOX EXISTING FIRE HYDRANT EXISTING AIR RELEASE VALVE EXISTING REDUCER ----EX. 16" WL---- EXISTING WATER LINE PROPOSED METER PROPOSED VALVE W/BOX PROPOSED FIRE HYDRANT PROPOSED REDUCER WL-----PROPOSED WATER LINE EXISTING STORM SEWER MANHOLE EXISTING STORM SEWER INLET --- EXISTING STORM SEWER LINE PROPOSED STORM SEWER MANHOLE PROPOSED DBL. "A" INLET PROPOSED SNGL "A" INLET ============= EXISTING CURB & GUTTER PROPOSED CURB & GUTTER - BOUNDARY LINE EXISTING BOUNDARY LINE PROPOSED SIDEWALK ___ CENTERLINE --- EXISTING LOT LINES SETBACK LINE BENCH MARK STREET LIGHTS DIRECTION OF FLOW CROSS SLOPE SCALE: HORIZ. 1"-40" TIERRA WEST, LLC DESIGNED OF DESIGNED CHECKED CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP PASEO DEL NORTE DRAINAGE IMPROVEMENTS MO./DAY/YR. MO./DAY/YR. DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL CITY PROJECT NO. ZONE MAP NO. *7856.81*



Planning Department Transportation Development Services Section

June 4, 2009

Ronald Burstein, Registered Architect, Studio Southwest Architects Inc. 2101 Mountain Road NW Albuquerque, NM 87104

Re:

Approval of a Permanent Certificate of Occupancy (C.O.) for

Paseo Crossing Shopping Center, [D-19 / D26]

8000 Paseo Del Norte NE

Architect's Stamp Dated 06/03/09

Dear Mr. Burstein:

The TCL/Letter of Certification submitted on dated June 4, 2009, is sufficient for acceptance by this Office for Final (Permanent) Certification of Occupancy (C.O.). Notification has been made to the Building and Safety.

PO Box 1293

Albuquerque

NM 87103 &

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

www.cabq.gov

Engineer

C:

Hydrology file

CO Clerk



Studio Southwest Architects Inc.

TRAFFIC CERTIFICATION

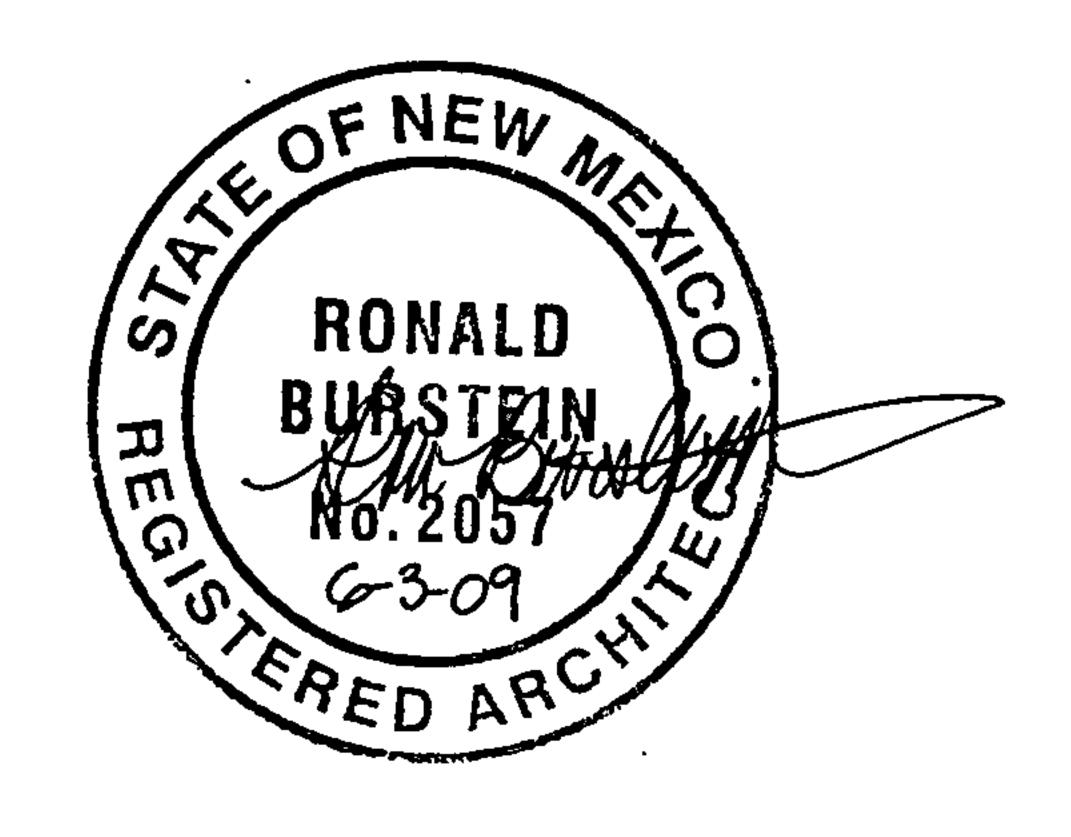
I, RON BURSTEIN, NMRA 2057, OF THE FIRM STUDIO SOUTHWEST ARCHITECTS, INC., HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE DRB APPROVED PLAN DATED MARCH 31, 2006. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JUNE 3, 2009 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE INFORMATION PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR PERMANENT CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY
COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE
OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE
RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT
VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER
PURPOSE

JUNE 3, 2009

Albuquerque
2101 Mountain Road NW
Albuquerque, NM 87104
T 505.843.9639
F 505.843.9683
mail@studioswarch.com

Santa Fe
130 Grant Avenue, Suite 102
Santa Fe, NM 87501
T 505.982.7191
F 505.992.0585
mail@studioswarch.com





District Three Office - Albuquerque

November 26, 2008

Mr. Gilbert A. Luna, President Universal Constructors, Inc. P.O. Box 6008 Albuquerque, NM 87197

Subject:

Offsite improvements - Pasco Crossing Development

Albuquerque, Bernalillo County, District Three

Dear Mr. Luna:

I am writing you this letter to inform you that the NMDOT has completed its review of the offsite improvements related to the Paseo Crossing development in Albuquerque. The Development is located at the SE Corner of the Paseo Del Norte and Wyoming intersection.

The NMDOT is satisfied that all our comments and concerns have been addressed. Therefore we are accepting all the offsite improvements.

If you have any questions or require additional information, please feel free to give me a call at (505) 841-2761.

Sincerely,

Rec Tony Abbo, P.E., P.T.O.E.

ADE - Engineering support/District Three Traffic Engineer

cc:

Nancy Perea Christina Bahl

File

RECEIVED APR 0 1 2009

March 18, 2009

CERTIFICATE OF COMPLETION AND ACCEPTANCE

Peggy Daskalos, Managing Member Solid Gold Classic, LLC 5321 Menaul Blvd NE Albuquerque, NM 87110

RE:

Paseo Crossings Shopctr Pav/Util.Imps

Project Number: 785681

Dear Ms. Daskalos:

This is to certify that the City of Albuquerque accepts the construction of the infrastructure provided in the Work Order Construction Plans, City project number 785681. The work was completed pursuant to the required public infrastructure listed in the Subdivision Improvements Agreement (SIA) Procedure B, between Solid Gold Classic, LLC and the City of Albuquerque executed on July 12, 2006.

PO Box 1293

Having satisfied the requirements referenced above, the SIA and any associated Financial Guaranty, held by the City, can now be released. Any performance/warranty bond and the indemnity and hold hamiless provisions of the SIA in favor of the City shall remain in effect. The contractor's warranty period will begin March 18, 2009 and is effective for a period of one (1) year.

Albuquerque

Please be advised this Certificate of Completion and Acceptance shall only become effective upon final plat approval and filing in the Bemalillo County Clerk's office.

NM 87103

Should you have any questions or issues regarding this project, please contact me at (505) 924-3996.

www.cabq.gov

Richard Dourte, P.E.

City Engineer

Development & Building Services

Planning Department

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cc: TIERRA WEST, LLC (e-mail) 并有一个工程的工程就可能提供的一个工程的工程。如果有一个工程的工程的工程的工程。 1 C.C.M. (e-mail) Vincent Paul, DMD Maps & Records (e-mail) A Contract Cont Barbara A. Romero, DMD Street Maintenance (e-mail) Paul Baca, DMD Street Maintenance (e-mail) David Rodriquez, Maps & Records (e-mail) Martin Sanchez, Maps & Records (e-mail) SIA File, City Project Number 785681

Albuquerque - Making History 1706-2006