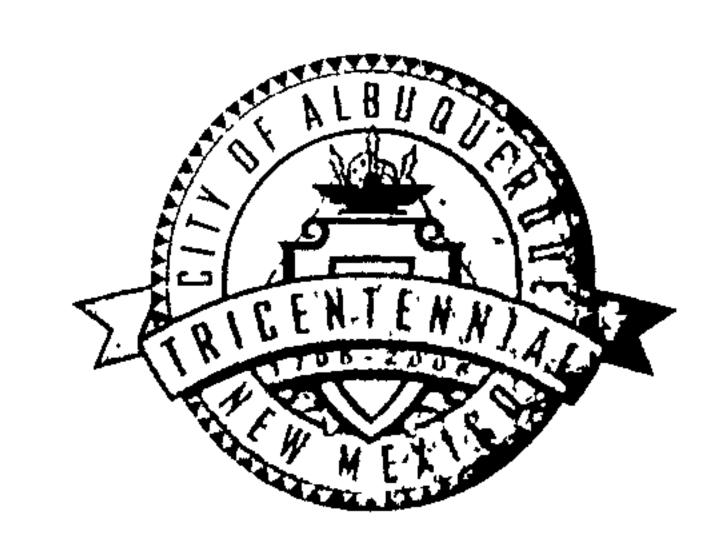
CITY OF ALBUQUERQUE



February 25, 2008

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

Re: NM School for the Blind Grading and Drainage Plan Engineer's Stamp dated 1-16-08 (L21/D62A)

Dear Mr. McGee,

P.O. Box 1293

Based upon the information provided in your submittal dated 1-17-08, the above referenced plan is approved for Work Order. Any minor comments can be addressed at DRC.

Albuquerque

If you have any questions, you can contact me at 924-3986.

New Mexico 87103

Bradley L. Bingham, PE

Sincerely,

www.cabq.gov

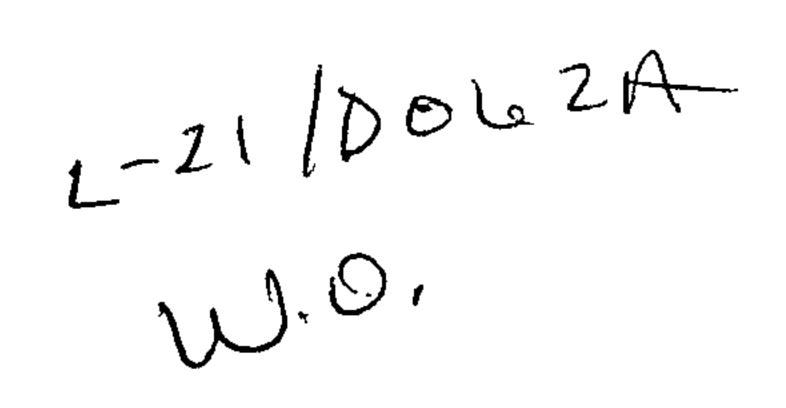
Principal Engineer, Planning Dept. Development and Building Services

C: file

ISAACSON & ARFMAN, P.A.



Thomas O. Isaacson, PE & LS • Fred C. Arfman, PE Scott M. McGee, PE



January 16, 2008

Mr. Brad Bingham
City Hydrologist
Hydrology Development
Development & Building Services Division
Planning Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: NM School for the Blind & Visually Impaired CPN 758581

Dear Brad,

The referenced project, located north of the Sandia Research Park, is proposed to be built on state-owned land. The project has been permitted through the NM Construction Industries Division. Although the onsite grading and drainage plan wasn't submitted formally to Hydrology, the attached plan and calculations are provided for your use in reviewing the work order plans for the adjacent streets.

Runoff from sub-basins 1-3 totals 15.2 cfs, which is captured by onsite inlets and conveyed offsite via a proposed 18-inch storm drain. This storm drain ties to the existing 72-inch public storm drain in Innovation Parkway SE at an existing SD manhole. Sub-basin 4 discharges 1.9 cfs through a proposed drivepad onto Innovation Parkway. Flows are carried 275' west to an existing catch basin in the north curbline of Innovation Parkway.

Please contact me with any questions or comments.

Sincerely,

ISAACSON & ARFMAN, P.A.

Scott M. McGee, PE

SMM/rtl

Attachments

RECEIVED

JAN 17 2008

HYDROLOGY SECTION JANUARY 16, 2008

SUPPLEMENTAL INFORMATION

FOR

New Mexico School For The Blind And Visually Impaired Early Childhood Program Facility

BY





Project No. 1584

RECEIVED

JAN 17 2008

HYDROLOGY SECTION

1584 DPM Calculations - 100 yr 6 hr.xls

BASIN NO.	1	DRA	AINING TO NORTH INLETS 1, 2, 3, 4 AND 5				
Area of basin flows =	78251			1.8 Ac.			
The following calculate	ions are based on T	reatment area	s as shown in table to the right	t			
	Sub-basin Weigh	ted Excess Pr	ecipitation (see formula above)			
	Weighted E	=	1.88 in.	TREATM	ENT		
	Sub-basin Volum	e of Runoff (s	ee formula above)	A =	0%		
	V360		12236 CF	B =	15%		
	Sub-basin Peak I	ischarge Rate	: (see formula above)	C =	25%		
	Qp	=	7.7 cfs	D =	60%		
BASIN NO.	2:	DRA	NING TO WEST INLET 6		•	-	
Area of basin flows =	14834	SF	=	0.3 Ac.			
The following calculati	ons are based on Ti	reatment areas	s as shown in table to the right	t			
	Sub-basin Weigh	ted Excess Pro	ecipitation (see formula above))			
	Weighted E	=	1.33 in.	TREATM	ENT		
	Sub-basin Volum	e of Runoff (s	ee formula above)	A =	0%		
	V360	=	1638 CF	B =	5%		
	Sub-basin Peak D	ischarge Rate	: (see formula above)	C = 0	90%		
	Qp	=	1.2 cfs	D =	5%		
BASIN NO.	3:	SURI	ACE DRAINING SOUTHV			· · · · · · · · · · · · · · · · · · ·	
Area of basin flows =	59730	SF	FACE DRAINING SOUTHV	VEST TO INLET 7 1.4 Ac.			
Area of basin flows =	59730	SF		VEST TO INLET 7 1.4 Ac.			
Area of basin flows =	59730 ons are based on Tr Sub-basin Weight	SF eatment areas	FACE DRAINING SOUTHV	VEST TO INLET 7 1.4 Ac.			
Area of basin flows =	ons are based on Tr Sub-basin Weight Weighted E	SF eatment areas ted Excess Pre	ecipitation (see formula above) 2.11 in.	VEST TO INLET 7 1.4 Ac.			
Area of basin flows =	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum	SF eatment areas ted Excess Pre	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above)	VEST TO INLET 7 1.4 Ac.	ENT 0%		
Area of basin flows =	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum V360	SF eatment areas ted Excess Presente of Runoff (s	ee formula above) 10498 CF	1.4 Ac. TREATM A = B =	ENT 0% 10%		
Area of basin flows =	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum V360	SF eatment areas ted Excess Presente of Runoff (s	ee formula above) 10498 CF (see formula above)	1.4 Ac. TREATM A = B = C =	ENT 0% 10% 10%		
Area of basin flows = The following calculati	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum V360	SF eatment areas ted Excess Present e of Runoff (see the second in the s	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs	VEST TO INLET 7 1.4 Ac. TREATM A = B = C = D =	ENT 0% 10% 10% 80%		
Area of basin flows = The following calculati BASIN NO.	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp	SF eatment areas ted Excess Present e of Runoff (seed Excess Present) e of Runoff (seed Excess Present) Excess Present Excess	ee formula above) 10498 CF (see formula above)	VEST TO INLET 7 1.4 Ac. TREATM A = B = C = D =	ENT 0% 10% 10% 80%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Tr Sub-basin Weight Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp	SF eatment areas ted Excess Present e of Runoff (see the second excess areas e of Runoff (see the second excess areas ischarge Rate DISC SF	as shown in table to the right cipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION =	1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac.	ENT 0% 10% 10% 80%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volume V360 Sub-basin Peak D Qp 4 17014 ons are based on Transub-based	sF eatment areas ted Excess Present e of Runoff (see Excess Rate) = oischarge Rate = DISC SF eatment areas	as shown in table to the right cipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right	1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac.	ENT 0% 10% 10% 80%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp 17014 ons are based on Transub-basin Weight	sF eatment areas ted Excess Present e of Runoff (see Excess Rate) = oischarge Rate = DISC SF eatment areas	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right ecipitation (see formula above)	1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac.	ENT 0% 10% 10% 80%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp 17014 ons are based on Transub-basin Weighted E Weighted E	SF eatment areas ted Excess Present areas of Runoff (some section of the section	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right ecipitation (see formula above) 2.18 in.	1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac. TREATM	ENT 0% 10% 10% .80%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp Qp 17014 ons are based on Transub-basin Weighted E Sub-basin Volume Sub-basin Volume	SF eatment areas ted Excess Present areas of Runoff (some section of the section	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right ecipitation (see formula above) 2.18 in. ee formula above)	VEST TO INLET 7 1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac. TREATM A =	ENT 0% 10% 10% 80% ENT 0%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp 17014 ons are based on Transub-basin Weighted E Sub-basin Volume Weighted E Sub-basin Volume V360	SF eatment areas ted Excess Present areas sischarge Rate DISC SF eatment areas ted Excess Present areas ted Excess Present areas ted Excess Present areas ted Excess Present areas	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right ecipitation (see formula above) 2.18 in. ee formula above) 3092 CF	1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac. TREATM A = B = B =	ENT 0% 10% 10% 80% ENT 0% .5%		
Area of basin flows = The following calculati BASIN NO. Area of basin flows =	ons are based on Transub-basin Weighted E Sub-basin Volum V360 Sub-basin Peak D Qp 17014 ons are based on Transub-basin Weighted E Sub-basin Volume Weighted E Sub-basin Volume V360	SF eatment areas ted Excess Present areas sischarge Rate DISC SF eatment areas ted Excess Present areas ted Excess Present areas ted Excess Present areas ted Excess Present areas	as shown in table to the right ecipitation (see formula above) 2.11 in. ee formula above) 10498 CF (see formula above) 6.3 cfs HARGING TO INNOVATION as shown in table to the right ecipitation (see formula above) 2.18 in. ee formula above)	VEST TO INLET 7 1.4 Ac. TREATM A = B = C = D = ON PARKWAY SE 0.4 Ac. TREATM A =	ENT 0% 10% 10% 80% ENT 0%		

1584 DPM Calculations - 100 yr 6 hr.xls

	•	OVI	ERALL SITE				· · · · · · · · · · · · · · · · · · ·
Area of basin flows =	169828	SF		=	3.9 Ac.		
The following calculation	ons are based on Tr	eatment area	as as shown in table	to the r	ight		
	Sub-basin Weight	ed Excess Pa	recipitation (see for	mula ab	ove)		
	Weighted E				TREATMENT		
	Sub-basin Volume	me of Runoff (see formula above)			A =	0%	
•	V360		27464 (CF	B =	11%	
	Sub-basin Peak D	ıb-basin Peak Discharge Rate: (see formula above)			C =	24%	
	Qp	=	17.0	fs	D =	65%	

