

PO Box 1328
Corrales, NM 87048

August 17, 2001

Brad Bingham P.E.
Hydrology Division
600 2nd Street N.W.
Albuquerque, New Mexico 87103

Re: Gateway South- Children's Learning Center

Dear Mr. Bingham:

Per our conversation, and conversation with Robert Schulz Hydrology Department of Rio Rancho, it was decided to let the additional developed flows for the Children's Learning Center to go where they presently and historically flow. The corner of Grande and West Side Boulevard as shown on attached, has two-drop inlets, which presently accept flow from said site.

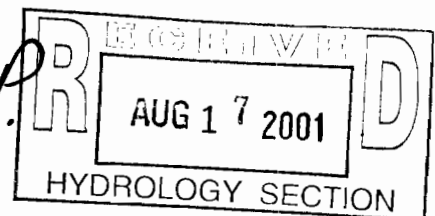
Calculation attached show existing flows = 2.97 cfs and developed flows to be = 3.84 cfs. An increase of 0.87 cfs.

This flow will be negligible to the overall drainage basin. The inlets are so close to the 528 Channel, that the increased 0.87 cfs will be gone prior to peak of this basin.

I am requesting approval of the release of the additional 0.87 cfs to the exist drop inlets to expedite building permit submittal for the Children's Learning Center. Please sign and return this letter, drawing attached or response letter for submittal and approval by Rio Rancho Hydrology Department.

Very Respectfully,

Lyle C. Losack P.E., V.P.
Lyle C. Losack P.E., VP



LCL:wd

08-01-025.ltr.doc

DEVELOPMENT CONSULTING
ENGINEERING AND SURVEYING
LOCAL GOVERNMENT SERVICES
COMPREHENSIVE LAND PLANNING
LAND DEVELOPMENT IMPLEMENTATION

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* *****
* CHILDRENS LEARNING CENTER-RIO RANCHO
*
* *100 YEAR EXISTING AND DEVELOPED CONDITIONS
* *****
* START
* TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
* RAINFALL
* TYPE=1 RAIN QUARTER=0.0
* RAIN ONE=1.87 IN RAIN SIX=2.20 IN
* RAIN DAY=2.66 IN DT=0.0333 HRS
* *****
* *
* COMPUTE NM HYD
* ID=1 HYD NO=EXIST DA=0.00161 SQ MI
* PER A=0 PER B=0 PER C=100 PER D=0
* TP=-0.1333 HR MASS RAIN=-1
* *****
*
* PRINT HYD
* ID=1 CODE=1
* *****
*
* COMPUTE NM HYD
* ID=1 HYD NO=PROP DA=0.00161 SQ MI
* PER A=0 PER B=0 PER C=44 PER D=56
* TP=-0.1333 HR MASS RAIN=-1
* *****
*
* PRINT HYD
* ID=1 CODE=1

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AHYMO PROGRAM (AHYMO 97) -
RUN DATE (MON/DAY/YR) = 08/17/2001
START TIME (HR:MIN:SEC) = 10:57:47 USER NO.= AHYMO-I-9702c01000Q29-AH
INPUT FILE = F:\N561\PROPOSED\SHEETS\LEARN-1.DAT

- Version: 1997.02c

*
* CHILDRENS LEARNING CENTER-RIO RANCHO
*
* 100 YEAR EXISTING AND DEVELOPED CONDITIONS
*

TIME=0.0 HR PUNCH CODE=0 PRINT LINES=-6
TYPE=1 RAIN QUARTER=0.0
RAIN ONE=1.87 IN RAIN SIX=2.20 IN
RAIN DAY=2.66 IN DT=0.0333 HRS

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT =	.033300 HOURS	END TIME =	5.994000 HOURS
.0000	.0016	.0033	.0050 .0067 .0085 .0103
.0121	.0140	.0160	.0180 .0200 .0221 .0243
.0265	.0288	.0312	.0336 .0361 .0387 .0414
.0442	.0471	.0501	.0533 .0566 .0600 .0636
.0674	.0714	.0757	.0808 .0863 .0922 .1044
.1323	.1754	.2374	.3221 .4335 .5756 .7527
.9690	1.1767	1.2619	1.3336 1.3972 1.4551 1.5084
1.5579	1.6041	1.6474	1.6881 1.7266 1.7629 1.7973
1.8298	1.8607	1.8900	1.9178 1.9442 1.9515 1.9573
1.9627	1.9680	1.9729	1.9777 1.9823 1.9867 1.9909
1.9950	1.9990	2.0029	2.0066 2.0102 2.0137 2.0172
2.0205	2.0238	2.0269	2.0300 2.0331 2.0360 2.0389
2.0418	2.0446	2.0473	2.0500 2.0526 2.0552 2.0578
2.0603	2.0627	2.0651	2.0675 2.0698 2.0721 2.0744
2.0766	2.0788	2.0810	2.0832 2.0853 2.0873 2.0894
2.0914	2.0934	2.0954	2.0974 2.0993 2.1012 2.1031
2.1050	2.1068	2.1086	2.1104 2.1122 2.1140 2.1157
2.1174	2.1191	2.1208	2.1225 2.1242 2.1258 2.1274
2.1290	2.1306	2.1322	2.1338 2.1353 2.1369 2.1384
2.1399	2.1414	2.1429	2.1444 2.1459 2.1473 2.1487
2.1502	2.1516	2.1530	2.1544 2.1558 2.1571 2.1585
2.1599	2.1612	2.1625	2.1639 2.1652 2.1665 2.1678
2.1691	2.1703	2.1716	2.1729 2.1741 2.1754 2.1766
2.1778	2.1791	2.1803	2.1815 2.1827 2.1839 2.1850
2.1862	2.1874	2.1886	2.1897 2.1909 2.1920 2.1931
2.1943	2.1954	2.1965	2.1976 2.1987 2.1998

*
COMPUTE NM HYD

ID=1 HYD NO=EXIST DA=0.00161 SQ MI
PER A=0 PER B=0 PER C=100 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .105867HR TP = .133300HR K/TP RATIO = .794199 SHAPE CONSTANT, N = 4.514851
UNIT PEAK = 4.6880 CFS UNIT VOLUME = .9977 B = 388.14 P60 = 1.8700
AREA = .001610 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

*
PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA EXIST

RUNOFF VOLUME = .99430 INCHES = .0854 ACRE-FEET
PEAK DISCHARGE RATE = 2.97 CFS AT 1.499 HOURS BASIN AREA = .0016 SQ. MI.

*
COMPUTE NM HYD ID=1 HYD NO=PROP DA=0.00161 SQ MI
PER A=0 PER B=0 PER C=44 PER D=56
TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 3.5596 CFS UNIT VOLUME = .9960 B = 526.28 P60 = 1.8700
AREA = .000902 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .105867HR TP = .133300HR K/TP RATIO = .794199 SHAPE CONSTANT, N = 4.514851
UNIT PEAK = 2.0627 CFS UNIT VOLUME = .9941 B = 388.14 P60 = 1.8700
AREA = .000708 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

*
PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA PROP

RUNOFF VOLUME = 1.53815 INCHES = .1321 ACRE-FEET
PEAK DISCHARGE RATE = 3.84 CFS AT 1.499 HOURS BASIN AREA = .0016 SQ. MI.

AHYMO PROGRAM SUMMARY TABLE (AHYMO 97) -
INPUT FILE = F:\N561\PROPOSED\SHEETS\LEARN-1.DAT

- VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =08/17/2001
USER NO.= AHYMO-I-9702c01000Q29-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO		PAGE =
								PEAK	ACRE	

START										
RAINFALL	TYPE= 1									
COMPUTE NM HYD	EXIST	-	1	.00161	2.97	.085	.99430	1.499	2.879	RAIN6= 2.200
COMPUTE NM HYD	PROP	-	1	.00161	3.84	.132	1.53815	1.499	3.727	PER IMP= .00
										56.00