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,

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.

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

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Planning Dept.
Development and Building Services

C: file

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

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

L-21/D062A
W.O.

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

Scott M. McGee, PE
SMM/rtl
Attachments

RECEIVED
JAN 17 2008
HYDROLOGY SECTION

128 Monroe St. NE • Albuquerque, NM 87108 • (505) 268-8828 • FAX (505) 268-2632
M:\ACTIVE\PROJECT DOCUMENTS\1584\CORRESPONDENCE\OUT\1584 Bingham 01-16-08.doc

JANUARY 16, 2008

SUPPLEMENTAL INFORMATION

FOR

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

BY

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax. 505-268-2632

Project No. 1584

BASIN NO. 1 **DRAINING TO NORTH INLETS 1, 2, 3, 4 AND 5**

Area of basin flows = 78251 SF = 1.8 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 1.88 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 12236 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 7.7 cfs

TREATMENT	
A =	0%
B =	15%
C =	25%
D =	60%

BASIN NO. 2 **DRAINING TO WEST INLET 6**

Area of basin flows = 14834 SF = 0.3 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 1.33 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 1638 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 1.2 cfs

TREATMENT	
A =	0%
B =	5%
C =	90%
D =	5%

BASIN NO. 3 **SURFACE DRAINING SOUTHWEST TO INLET 7**

Area of basin flows = 59730 SF = 1.4 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 2.11 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 10498 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 6.3 cfs

TREATMENT	
A =	0%
B =	10%
C =	10%
D =	80%

BASIN NO. 4 **DISCHARGING TO INNOVATION PARKWAY SE**

Area of basin flows = 17014 SF = 0.4 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 2.18 in.

Sub-basin Volume of Runoff (see formula above)

V360 = 3092 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 1.9 cfs

TREATMENT	
A =	0%
B =	5%
C =	10%
D =	85%

OVERALL SITE

Area of basin flows = 169828 SF = 3.9 Ac.

The following calculations are based on Treatment areas as shown in table to the right

Sub-basin Weighted Excess Precipitation (see formula above)

Weighted E = 1.94 in.

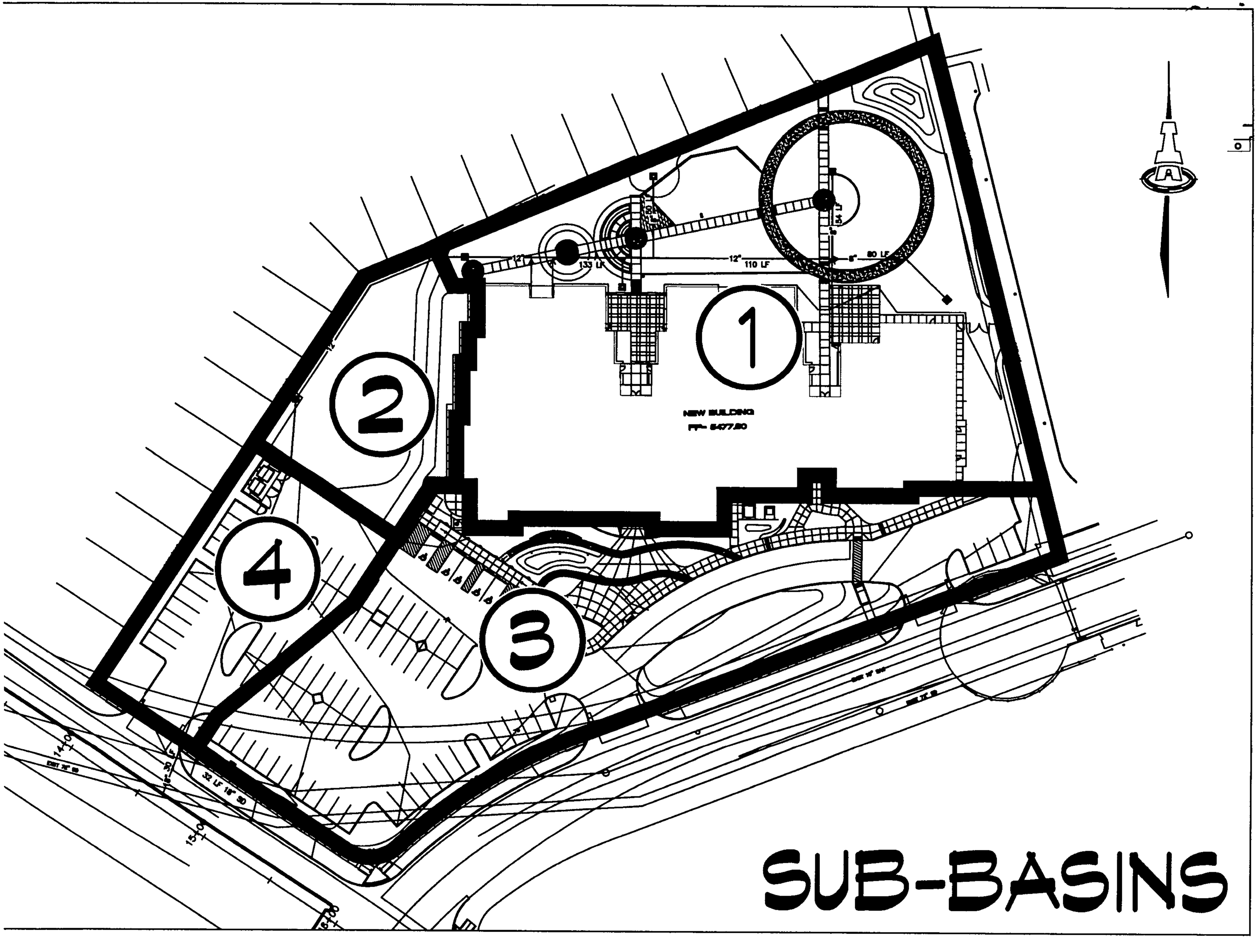
Sub-basin Volume of Runoff (see formula above)

V360 = 27464 CF

Sub-basin Peak Discharge Rate: (see formula above)

Qp = 17.0 cfs

TREATMENT	
A =	0%
B =	11%
C =	24%
D =	65%


1
2
3
4
NEW BUILDING
FF= 5477.50
12"
133 LF
12"
110 LF
8"
80 LF
54 LF
20 LF
32 LF 18"
14.0
15.0

SUB-BASINS