HYDROLOGY K11/D20 1 PLAN

K11/D20

1 Plan

City of Albuquerque

May 9, 1983

Mr. Ray Harrison
Ray L. Harrison & Associates
1517-A Girard Blvd. NE
Albuquerque, NM 87106

REF: 216 Coors, K11-D20

Dear Mr. Harrison:

Your request for a variance on the reference project has been denied by the City Hydrologist. This site can control the developed run-off. The same requirements specified in the September 14, 1982 are still applicable. Was any effort made to obtain an easement for a pipe through lot 11 or 12 to outfall to 53rd street? A detention pond could be installed in the rear yard with a 4" pipe outfall to 53rd street. Note, that waterproofing measures will be required to prevent foundation problems and subsurface water migration to abutting lots.

Please contact this office to further discuss our requirements.

Sincerely,

Andre Houle
Civil Engineer/Hydrology

mrk

cc: Jim Fink, Assistant City Engineer/Hydrology
Espinosa Construction Company

MUNICIPAL DEVELOPMENT DEPARTMENT

Richard S. Heller, P.E., City Engineer
LaMonte J. Urban, P.L.S., Chief City Surveyor

ENGINEERING DIVISION

123 Central Avenue N.W.
Albuquerque, New Mexico 87102
Telephone (505) 766-5040

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

RECEIVED
MAR 14 1983
CITY ENGINEER

Mr. Charles Easterling, Assistant City Engineer
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Drainage Plan 216 Coors NW, Addition for
Ernest Thompson, File K 11-D20

Dear Mr. Easterling

A variance from normal criteria and standards is requested for the referenced project, as allowed in Section 6, Article H of the Drainage Ordinance.

I request that all drainage requirements be waived.

The variance is justified because their is no reasonable alternative, Coors SW was constructed approximately 1.5 feet above the adjacent property so gravity drainage to the street (public R-O-W) is not possible and the lot (50' X 135') is too small for ponding.

Ray L. Harrison
Ray L. Harrison

Copy to Andre Houle, City of Albuquerque

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 28, 1982

Mr. Ray L. Harrison
1517 A Girard Blvd.
Albuquerque, New Mexico 87106

Ref: 216 Coors NW - Drainage and Grading Plan
(K11-D20)

Dear Mr. Harrison:

Charles Easterling has discussed your letter of November 25, 1982 with me and has directed me to respond as follows:

1. In lieu of the required pond volume of 2 times the 100 year storm volume, the 10 year-10 day storm volume will be required.

2. A Indemnification Agreement is required stating that the landowner, heirs or assigns may not protest a Assessment District for future storm sewer projectsin this location to eliminate drainage problems for the consideration of allowing development to this site and handling flows with a retention pond which does not have an outfall.

3. The City is not responsible for the feasibility of the proposed development and is only responsible to prevent damages to abutting existing properties and developments which will be impacted by your development, altering the previousness of the site.

I remain at your service to discuss and resolve this matter at your earliest convenience.

Very truly,

Andre Houle, PE
Civil Engineer/Hydrology

AH/el

cc: Charles M. Easterling, Principal Assist. City Engr.
William Gooden, Community Relations Officer
Espinosa Const. Co., 801 La Senda Lane NW
Albuquerque, New Mexico 87107

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS

1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4276

RECEIVED
NOV 24 1982
CITY ENGINEER

Mr. Charles Easterling, Assistant City Engineer
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 97103

Re: Drainage Plan, 216 Coors NW, Addition for Ernest Thompson, File K11-D20

Ref: Memorandum Andre Houle PE to Ray L. Harrison on Referenced Subject Dated Sept 14, 1982.

Dear Mr. Easterling,

The referenced Drainage Plan was submitted approximately September 7, 1982. The Plan stated that this was a problem area in that Coors Blvd. was constructed about 1.5 feet above the adjacent property and the property is in a natural depressed area with no place for drainage to go. The lot is too small for ponding.

The referenced Memorandum stated that I must drain to the street or pond twice a 100 year storm which are impossible conditions to met.

In a meeting I had shortly after I received the memorandum, I discussed this problem with you. My recollection is that yoy said if City Drainage requirements couldn't be met, there should be no construction and a suit aganist the State Highway Department was in order.

I notified my cleint of this discussion and he said he was going to the City CommunityRelations Office, which he did.

I am notifying you the drainage requirements placed on the project are impossible to met.

Ray L Harrison
Ray L. Harrison

Copy to
Andre Houle, City of Albuquerque
William Gooden, City of Albuquerque

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

RECEIVED

SEP 07 1982

ENGINEERING

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE Addition for Ernest Thompson

ZONE ATLAS PAGE NO. K 11 - Z CITY ADDRESS 216 Coors Blvd. SW

LEGAL ADDRESS Lot 14, Block 1, Yucca Addition #2

ENGINEERING FIRM Ray Harrison & Associates CONTACT Ray Harrison

ADDRESS 1517 A Girard NE 87106 PHONE 265 4276

OWNER ERNEST THOMPSON CONTACT Ernest Thompson

ADDRESS 216 Coors Blvd. SW PHONE 836 5114

ARCHITECT/SURVEYOR Same CONTACT

ADDRESS PHONE

DATE SUBMITTED

BY Ray Harrison

RAY L. HARRISON & ASSOCIATES
CONSULTING ENGINEERS
1517-A GIRARD BLVD. NE
ALBUQUERQUE, NEW MEXICO 87106
(505) 265-4216

RECEIVED
SEP 07 1982
ENGINEERING

September 7, 1982

DRAINAGE PLAN
ADDITION FOR ERNEST THOMPSON
216 Coors Blvd. SW

Criteria: The project consists of a 1300 Sq. Ft. addition to an existing building on the Southwest Mesa. This project is classic in trying to construct an addition to an existing building where no consideration has been given to drainage. The major problem is that Coors Blvd. SW was constructed approximately 1.5 feet above the adjacent property with no way of draining this property, because the grades are flat or even depressed. A Pre-design conference was held with Jim Fink of the City Hydrology Department with the following criteria being established. A curb is to be constructed around the property that will pond a few inches of drainage with a ½% slope from the back to the front of the property and a 100 year overflow to the street R-O-W.

Planning History - No planning action in progress.

Professional Certification - Drainage Plan, Survey, and Grading Plan by Ray L. Harrison P. E. & L. S. 2198

Flood Hazard - Tract is not in Flood Hazard Area per FHBM , copy attached. Tract is notincluded in Master Drainage Study, Site delineated on Ortho Photo Topo Map attached.

OFFSITE FLOWS:
By inspection there are no off-site flow onto this property.

ON-SITE CONDITIONS:
Flow Volumes and Rates - Present Development
Soil M-W A Hydro group B, imprevious 1550/6750 = 23% C = .44

Q_{100} = .44 X 2. X 2.3 X 6750/43560 = .35 CFS

Q_{10} = .657 X .35 = .23 CFS

Future Development, imprevious 4450/6750 = 65% C = .66

Q_{100} = .66 X 2.2 X 2.3 X 6750/43560 = .52 CFS

Q_{10} = .657 X .52 = .34 CFS

Proposed Treatment
Ponding volume required (valley)

$Q = 2.2/12 \times 6750 \times .66 = 815$ Cu. Ft.

Volume furnished See profile on grading plan
337 Cu. Ft.

Positive discharge - none

Pond spillway calculations Ref: King & Brater
Broad crested weir Figure 5 - 9

$Q = CLH^{3/2}$ $L = 20'$ $H = 0.2'$ $C = 2.82$ Table 5-9

$Q = 5$ CFS $Q_{100} = .52$ CFS.

Ray L. Harrison