HYDROLOGY K19/D32 3 PLANS

K19/D32

3 Plans

ARMSTRONG ENGINEERING, INC.
CONSULTING ENGINEERS
2709-C Pan American N.E.
Albuquerque, New Mexico 87107

JOHN ARMSTRONG, P.E.

(505) 345-2133

May 4, 1983

Mr. Fred J. Aguirre, P.E.
City of Albuquerque
Engineering Division/ Hydrology
123 Central Avenue N.W.
Albuquerque, New Mexico 87102

Re: Drainage Plan for McDonald's, at Wyoming and Central, approved in your letter dated March 8, 1983.

Dear Fred:

The proposed modifications are now complete and are in substantial compliance with the approved plan.

Thank You,

John Armstrong, P.E.

cc: Mr. Jim Clark/ Mcdonald's Corp.

INFORMATION SHEET

PROJECT TITLE _____ TYPE OF SUBMITTAL Revised Drainage Plan

ZONE ATLAS PAGE NO. K-19 CITY ADDRESS 8623 Central NE

LEGAL DESCRIPTION _____

ENGINEERING FIRM ARMSTRONG ENG. CONTACT John Armstrong

ADDRESS 2709-C PAN AMERICAN NE PHONE 345-2133

OWNER McDonalds Corp. CONTACT Jim CLARK

ADDRESS 5700 S. Quebec, Englewood, Co. 80111 PHONE 1-303-779-0444

ARCHITECT _____ CONTACT _____

ADDRESS _____ PHONE _____

SURVEYOR _____ CONTACT _____

ADDRESS _____ PHONE _____

CONTRACTOR _____ CONTACT _____

ADDRESS _____ PHONE _____

DATE SUBMITTED Feb 14, 1983

BY ARMSTRONG ENG.

Use this Information Sheet when submitting the following:

Drainage report or plan, conceptual grading and drainage plan, engineer's certification plan, erosion plan and grading plan. Provide the information applicable to your submittal.

McDonald's Corporation
5700 South Quebec Street
Suite 225
Englewood, Colorado 80111
303/779-0444

January 20, 1983

Fred Aguirre
City of Albuquerque
P.O. Box 1293
Albuquerque, N.M. 87103

Re: McDonald's located at 8623 Central Ave. N.W.

Dear Fred:

It was a pleasure meeting with you on Wednesday, January 19th. I appreciate your hospitality.

The schedule to correct the drainage flow on the above stated property is as follows:

John Armstrong will give to you working drawings for the new drainage within 3 weeks.

After your approval, McDonald's will change the drainage flow per the agreed plan.

The situation should be concluded within three months.

Again, thank you for your co-operation.

Sincerely,

Adrienne Ewing-meyer
Real Estate Representative

cc: Charles W. Volz
Chet Caldwell
John Armstrong
Jim Clark

McDonald's

McDonald's Corporation
5700 South Quebec Street
Suite 225
Englewood, Colorado 80111
303/779-0444

RECEIVED
JAN 17 1983
CITY ENGINEER

January 13, 1983

Charles W. Volz
Chief Building Official
City of Albuquerque
P.O. Box 1293
Albuquerque, N.M. 87103

Re: McDonald's located at 8623 Central Ave. N.W.
Certificate of Occupancy - Permit # 09488

Dear Mr. Volz:

This letter is in reference to your letter dated Jan. 5 to the above property. I have been in contact with Mr. Fred Aquirre concerning a Certificate of Occupancy on the property. We are to meet on Jan. 19, 1983 to solve the problem. If you should have any questions, please contact Mr. Aguirre or me.

Thank you for your attention to the above matter.

Sincerely,

Adrienne Ewing-meyer
Real Estate Representative

cc: Fred Aguirre
Chet Caldwell
Jim Clark

McDonald's Corporation
8840 Complex Drive
Suite 300
San Diego, California 92123
714/571-5003

October 26, 1982

City of Albuquerque
Albuquerque, NM

Attention: Flood Control Department

Re: Approval of drainage plan for
McDonald's Restaurant located
at 8623 Central N.E., Albuquerque, NM

Gentlemen:

This letter is in regard to events that have taken place concerning the construction of the above-mentioned McDonald's Restaurant and the Drainage Plan for it.

The first most significant factor to consider is that the City approved the McDonald's Drainage Plan, which showed a planter at the North property line which drained onto a curb and gutter placed on the property line. The gutter drains out to Wyoming Street to the east.

After construction was approximately 80% complete, the City and McDonald's and the property owner to the North of McDonald's, met at the construction site to discuss the fact that his building in question, which is located on the property line, had a basement below grade and he was concerned that McDonald's planter would leak into his basement.

After looking in the exterior stairwell to the basement, it was evident from scaling on the walls of the stairwell that the basement had been leaking long before McDonald's even purchased this corner property. However, to make absolutely sure that McDonald's planter would not leak into his basement, a high grade butyl rubber mat was placed in the floor of the planter. The mat drains onto the concrete gutter that is located on the property line. A drip irrigation system was also installed in place of the standard system. These improvements will guarantee that no water from McDonald's will find its way into the basement located on the property to the North of McDonald's.

The improvements were made shortly after the restaurant opened.

Very truly yours,

McDONALD'S CORPORATION

Yates Stirling

Yates Stirling
Senior Construction Engineer

cc: Jim Clark, Denver Region
Colorado Pacific
Chet Caldwell

DRAINAGE COMPLAINT REPORT

Plan No. ____ Sheet No. ____ Drainage Map ____ Approved ____ Date ____

Location: 8623 CENTRAL N.E (K-19) Project: ____

Reported by: TOMMY THOMPSON (MECH SECTION) Phone ____

Address: ____ Ext. ____

Complainant: JULIAN PADILLA Phone 266-5656

Address: 111 WYOMING N.E Ext. ____

Taken by: FRED J. AGUIRRE Date 8-26-81

COMPLAINT: POTENTIAL STRUCTURAL DAMAGES TO ~~A~~ BASEMENT COULD RESULT AT 111 WYOMING AS A RESULT OF A NEW IRRIGATION SYSTEM ADJACENT TO THIS BASEMENT CONSTRUCTED BY McDONALDS (8623 CENTRAL N.E) IS ARGUED BY MR PADILLA.

Referred to: ____

INVESTIGATION — Cause: SINCE WE DO NOT REVIEW IRRIGATION SYSTEMS AND THE SITE ~~IS IN SUBSTANTIAL~~ SATISFIES OUR DRAINAGE REQUIREMENTS, I FEEL THAT THE PROBLEM SHOULD BE RESOLVED BETWEEN McDONALDS + MR PADILLA

Recommendation: ____

PEOPLE PRESENT AT THE MEETING. 10-28-81

JULIAN PADILLA - OWNER OF 111 WYOMING N.E

CHESTER CALDWELL - McDONALDS

SKIP STERLING - McDONALDS

TIM RICH - McDONALDS

Investigated by: FRED J. AGUIRRE + BERNIE MONTOYA Date ____

JOHN ARMSTRONG - ENGR. FOR McDONALDS

FIRST MEETING WAS 8-26-81 WITH THE FOLLOWING GENTLEMEN:

JULIAN PADILLA

CHESTER CALDWELL

TIM RICH

M. DENISH AND ASSOCIATES, INC.
Consultants to Developers

March 19, 1981

Mr. Fred Aguirre
Assistant Hydrology Engineer
Engineering Division
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: McDonald's Site at Wyoming and Central

Dear Fred:

This letter will confirm our conversation of this morning.

This office certifies that the issuance of a building permit will in no way interfere with, or delay, our compliance with the additional requirements regarding drainage for the above site. We will work with you to resolve any questions you may have.

Your signature will assure us that we may obtain a building permit today; as you are aware, we have no plans to begin construction for several months.

Sincerely yours,

Herbert M. Denish

HMD/mk

20 First Plaza, Suite 320 / Post Office Box 2001 / Albuquerque, New Mexico 87103 / Telephone (505) 842-6461

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

MAYOR
David Rusk

March 17, 1981

To Whom It May Concern

Ref: 8623 Central N. E.

Attached are my comments checked in red for the above referenced address. Also included, is my business card.

If you have any questions concerning the above, please don't hesitate to call me.

Sincerely,

Fred J. Aguirre, P.E.
Hydrology Section
Engineering Division

FJA/cc

Enclosure

Office of the City Engineer
Building Plans
Drainage Review

Date Issued 3-17-81

Gentlemen:

In order to expedite the passage of building construction plans through the drainage review we have compiled this list of requirements. With a few exceptions, these requirements are complete.

(1) Any building site 1.00 acres or larger will require a formal drainage report prepared by a professional engineer licensed to practice in New Mexico. This report must be submitted to the office of the Asst. City Engineer/Hydrology for review and acceptance prior to submission of construction plans for review.

(2) Before attempting to submit a set of plans for a building located in a flood hazard area, contact the Drainage Division. Failure to do this will often result in much lost time.

(3) When construction plans are submitted, the following items must be included:

(A) A grading plan showing:

✓ 1) existing contours extending approximately 10 feet beyond the property line. If it is not feasible to provide contours beyond the property line, spot elevations, at the the property line, <u>designated as existing and proposed</u> may be substituted.

✓ 2) proposed contours at one foot intervals and proposed spot elevations at key points.

3) finish building floor elevation (s).

✓ 4) notes defining asphalt, sidewalks, planting areas, ponding areas, property line, and any other areas whose definition would increase clarity.

5) proposed alley grades, if property abuts a dedicated unpaved alley. These grades are available, at no charge, fro. the City Engineer's office. An advance request will expedite your project.

B) A drainage plan showing:

✓ 1) direction of roof drainage including canales, gutters, and downspouts.

2) outlined contributory drainage areas, including roof areas.

3) swales with top and bottom spot elevations.

4) curb and sidewalk spot elevations.

5) flow lines with arrows and spot elevations for confirmation.

C) If ponding is required the drainage plan must also show:

1) calculations showing developed and undeveloped volumetric flow rate.

2) pond volume calculations.

3) that pond volumes balance with area contributing to the pond.

3.5) Close proximity of ponding to any structure requires the concurrence of a soils investigation report.

4) the pond overflow point with a spot elevation and slope protection if necessary.

5) positive discharge of ponds with required rate calculations and orifice calculations, if applicable.

✓ D) A discussion of offsite flows must be included. If the contour maps disagree with the designers opinion of offsite flows, further information will be required.

✓ E) A discussion of any other local conditions that effect site drainage should be included.

F) Details of ponds, curbcuts, water blocks, and any other significant drainage structures must be included.

G) The professional who designs the drainage scheme must affix his/her stamp to the drainage plan.

✓ H) A copy of the ~~approved~~ drainage plan must also be included ~~submitted~~ with the construction plans for drainage files~~, only prior to inspection~~.

I) Construction in the public right of way requires approval, prior to construction, from the City Engineers office.

Approved_____

R. S. Heller

J) Indicate all easements on site: Location, width, and purpose

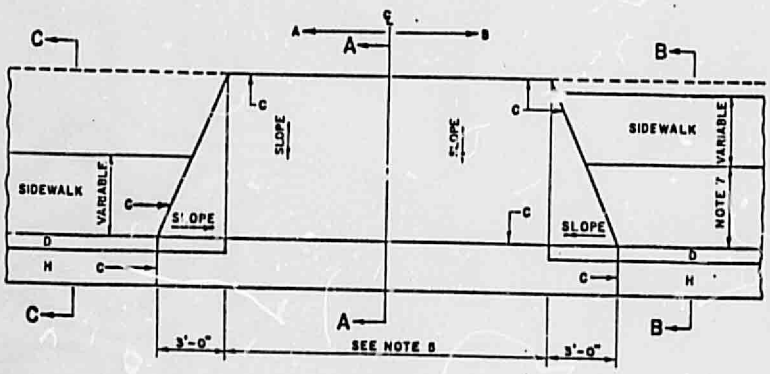
✓ K) Provide a benchmark based on mean sea level datum with a description of said benchmark.

✓ L) Provide a location map with the zone atlas number and legal description.

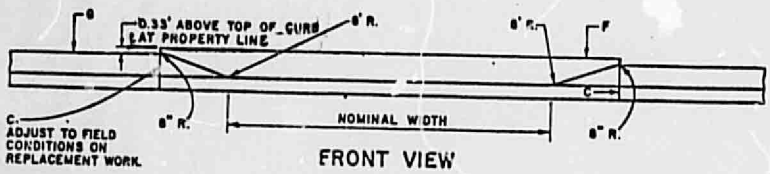
✓ M) Storm runoff must be routed over the drivepad or thru a city approved curb cut.

✓ N) Also include the required elevation for the Standard City Drivepad (DWG-P-

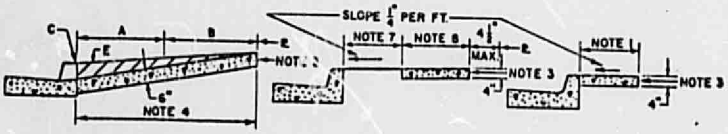
SEE ATTACHED STANDARD DRIVEPAD DETAIL



PLAN



FRONT VIEW



SECTION A-A SECTION B-B SECTION C-C

GENERAL NOTES:

1. SIDEWALK LOCATION TO BE DETERMINED BY THE PLANNING DEPARTMENT.
2. REQUESTS FOR VARIANCES TOGETHER WITH A PLAN OR SKETCH SHALL BE SUBMITTED TO THE PLANNING DEPARTMENT.
3. 1/2" EXPANSION JOINT WHERE SIDEWALK OR DRIVEPAD ABUTS BUILDINGS, FENCES, WALLS OR OTHER IMMOVABLE OBJECTS.
4. ALL DRIVEPADS SHALL BE CONSTRUCTED FROM THE BACK OF CURB TO PROPERTY LINE.
5. DRIVEPADS WIDER THAN 18 FT. (NOMINAL), TO HAVE 1/2" EXPANSION JOINT AT MIDPOINT. DRIVEPADS WIDER THAN 36 FT. TO HAVE 1/2" EXPANSION JOINTS EQUALLY SPACED WITH NOT MORE THAN 18 FT. BETWEEN JOINTS.
6. CURB TYPE SIDEWALK TO BE USED ONLY WHEN RIGHT-OF-WAY WILL NOT PERMIT THE USE OF SETBACK SIDEWALK OR IN AREAS WHICH HAVE CURB TYPE SIDEWALK.
7. SETBACK TO BE DETERMINED BY AVAILABLE RIGHT-OF-WAY. (IF LESS THAN 2 FT. USE CURB TYPE SIDEWALK).
8. SIDEWALK WIDTH SHALL BE 4'-0" MIN. ON LOCAL OR COLLECTOR STREETS, AND 6'-0" MIN. ON ARTERIAL STREETS AND ABUTTING SCHOOLS, OR CHURCHES.
9. SUBGRADE UNDER SIDEWALKS & DRIVEPADS SHALL BE COMPACTED TO 90% MAX. DENSITY AS DETERMINED BY A.S.T.M. D-1557 TO A DEPTH OF 6".

CONSTRUCTION NOTES:

A. CURB TYPE SIDEWALK, SYMMETRICAL ABOUT ℄.
B. OFFSET SIDEWALK, SYMMETRICAL ABOUT ℄.
C. 1/2" EXPANSION JOINT.
D. CURB.
E. SLOPE TO BE ADJUSTED TO PROVIDE UNIFORM TRANSITION BETWEEN DRIVEPAD AND SIDEWALK.
F. TOP OF DRIVEPAD.
G. TOP OF CURB.
H. GUTTER.

REVISIONS	CITY OF ALBUQUERQUE
	PAVING DRIVEPADS DWG. P-11 NOV. 1979

City of Albuquerque

March 8, 1983

Mr. John Armstrong
Armstrong Engineering
2709-C Pan American N.E.
Albuquerque, New Mexico

Ref: Drainage Plan for McDonald's

K19-D32

Dear John:

The proposed drainage plan to drain the existing run off along the west and north property line into Wyoming Blvd. via the existing curb cut, in the right-of-way, is an acceptable drainage scheme. Therefore, this proposed modification to the McDonald's drainage plan is approved.

The Certificate of Occupancy will be signed off by this office upon compliance with the modified plan and a Letter of Certification by the owner's engineer.

If you have any further questions regarding the above plan please feel free to contact me.

Vrry truly yours,

Fred J. Aguirre, P.E.
Civil Engineer

FJA/fs

cc: Drainage File
Reading File

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

HYDROLOGY K19/D32 3 PLANS

K19/D32

3 Plans

ARMSTRONG ENGINEERING, INC.
CONSULTING ENGINEERS
2709-C Pan American N.E.
Albuquerque, New Mexico 87107

JOHN ARMSTRONG, P.E.

(505) 345-2133

May 4, 1983

Mr. Fred J. Aguirre, P.E.
City of Albuquerque
Engineering Division/ Hydrology
123 Central Avenue N.W.
Albuquerque, New Mexico 87102

Re: Drainage Plan for McDonald's, at Wyoming and Central, approved in your letter dated March 8, 1983.

Dear Fred:

The proposed modifications are now complete and are in substantial compliance with the approved plan.

Thank You,

John Armstrong, P.E.

cc: Mr. Jim Clark/ Mcdonald's Corp.

INFORMATION SHEET

PROJECT TITLE _____ TYPE OF SUBMITTAL Revised Drainage Plan

ZONE ATLAS PAGE NO. K-19 CITY ADDRESS 8623 Central NE

LEGAL DESCRIPTION _____

ENGINEERING FIRM ARMSTRONG ENG. CONTACT John Armstrong

ADDRESS 2709-C PAN AMERICAN NE PHONE 345-2133

OWNER McDonalds Corp. CONTACT Jim CLARK

ADDRESS 5700 S. Quebec, Englewood, Co. 80111 PHONE 1-303-779-0444

ARCHITECT _____ CONTACT _____

ADDRESS _____ PHONE _____

SURVEYOR _____ CONTACT _____

ADDRESS _____ PHONE _____

CONTRACTOR _____ CONTACT _____

ADDRESS _____ PHONE _____

DATE SUBMITTED Feb 14, 1983

BY ARMSTRONG, ENG.

Use this Information Sheet when submitting the following:

Drainage report or plan, conceptual grading and drainage plan, engineer's certification plan, erosion plan and grading plan. Provide the information applicable to your submittal.

McDonald's Corporation
5700 South Quebec Street
Suite 225
Englewood, Colorado 80111
303/779-0444

January 20, 1983

Fred Aguirre
City of Albuquerque
P.O. Box 1293
Albuquerque, N.M. 87103

Re: McDonald's located at 8623 Central Ave. N.W.

Dear Fred:

It was a pleasure meeting with you on Wednesday, January 19th. I appreciate your hospitality.

The schedule to correct the drainage flow on the above stated property is as follows:

John Armstrong will give to you working drawings for the new drainage within 3 weeks.

After your approval, McDonald's will change the drainage flow per the agreed plan.

The situation should be concluded within three months.

Again, thank you for your co-operation.

Sincerely,

Adrienne Ewing-meyer
Real Estate Representative

cc: Charles W. Volz
Chet Caldwell
John Armstrong
Jim Clark

McDonald's

McDonald's Corporation
5700 South Quebec Street
Suite 225
Englewood, Colorado 80111
303/779-0444

RECEIVED
JAN 17 1983
CITY ENGINEER

January 13, 1983

Charles W. Volz
Chief Building Official
City of Albuquerque
P.O. Box 1293
Albuquerque, N.M. 87103

Re: McDonald's located at 8623 Central Ave. N.W.
Certificate of Occupancy - Permit # 09488

Dear Mr. Volz:

This letter is in reference to your letter dated Jan. 5 to the above property. I have been in contact with Mr. Fred Aquirre concerning a Certificate of Occupancy on the property. We are to meet on Jan. 19, 1983 to solve the problem. If you should have any questions, please contact Mr. Aguirre or me.

Thank you for your attention to the above matter.

Sincerely,

Adrienne Ewing-meyer
Real Estate Representative

cc: Fred Aguirre
Chet Caldwell
Jim Clark

McDonald's Corporation
8840 Complex Drive
Suite 300
San Diego, California 92123
714/571-5003

October 26, 1982

City of Albuquerque
Albuquerque, NM

Attention: Flood Control Department

Re: Approval of drainage plan for
McDonald's Restaurant located
at 8623 Central N.E., Albuquerque, NM

Gentlemen:

This letter is in regard to events that have taken place concerning the construction of the above-mentioned McDonald's Restaurant and the Drainage Plan for it.

The first most significant factor to consider is that the City approved the McDonald's Drainage Plan, which showed a planter at the North property line which drained onto a curb and gutter placed on the property line. The gutter drains out to Wyoming Street to the east.

After construction was approximately 80% complete, the City and McDonald's and the property owner to the North of McDonald's, met at the construction site to discuss the fact that his building in question, which is located on the property line, had a basement below grade and he was concerned that McDonald's planter would leak into his basement.

After looking in the exterior stairwell to the basement, it was evident from scaling on the walls of the stairwell that the basement had been leaking long before McDonald's even purchased this corner property. However, to make absolutely sure that McDonald's planter would not leak into his basement, a high grade butyl rubber mat was placed in the floor of the planter. The mat drains onto the concrete gutter that is located on the property line. A drip irrigation system was also installed in place of the standard system. These improvements will guarantee that no water from McDonald's will find its way into the basement located on the property to the North of McDonald's.

The improvements were made shortly after the restaurant opened.

Very truly yours,

McDONALD'S CORPORATION

Yates Stirling

Yates Stirling
Senior Construction Engineer

cc: Jim Clark, Denver Region
Colorado Pacific
Chet Caldwell

DRAINAGE COMPLAINT REPORT

Location: 8623 CENTRAL N.E (K-19) Project:

Reported by: TOMMY THOMPSON (MECH SECTION) Phone

Address: Ext.

Complainant: JULIAN PADILLA Phone 266-5656

Address: 111 WYOMING N.E Ext.

Taken by: FRED J. AGUIRRE Date 8-26-81

COMPLAINT: POTENTIAL STRUCTURAL DAMAGES TO ~~A~~ BASEMENT (COULD RESULT) AT 111 WYOMING AS A RESULT OF A NEW IRRIGATION SYSTEM ADJACENT TO THIS BASEMENT CONSTRUCTED BY McDONALDS (8623 CENTRAL N.E) IS ARGUED BY Mr PADILLA.

Referred to:

INVESTIGATION — Cause: SINCE WE DO NOT REVIEW IRRIGATION SYSTEMS AND THE SITE ~~IS IN SUBSTANTIAL~~ SATISFIES ~~OUR~~ DRAINAGE REQUIREMENTS, I FEEL THAT THE PROBLEM SHOULD BE RESOLVED BETWEEN McDONALDS + Mr PADILLA

Recommendation:

PEOPLE PRESENT AT THE MEETING. 10-28-81

JULIAN PADILLA - OWNER OF 111 WYOMING N.E

CHESTER CALDWELL - McDONALDS

SKIP STERLING - McDONALDS

TIM RICH - McDONALDS

Investigated by: FRED J. AGUIRRE + JESSIE MONTOYA Date

JOHN KAMSTRUPS - ENGR. FOR McDONALDS

FIRST MEETING WAS 8-26-81 WITH THE FOLLOWING GENTLEMEN:

JULIAN PADILLA

CHESTER CALDWELL

TIM RICH

Plan No.

Sheet No.

Drainage Map

Approved

Date

M. DENISH AND ASSOCIATES, INC.
Consultants to Developers

March 19, 1981

Mr. Fred Aguirre
Assistant Hydrology Engineer
Engineering Division
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: McDonald's Site at Wyoming and Central

Dear Fred:

This letter will confirm our conversation of this morning.

This office certifies that the issuance of a building permit will in no way interfere with, or delay, our compliance with the additional requirements regarding drainage for the above site. We will work with you to resolve any questions you may have.

Your signature will assure us that we may obtain a building permit today; as you are aware, we have no plans to begin construction for several months.

Sincerely yours,

Herbert M. Denish

HMD/mk

20 First Plaza, Suite 320 / Post Office Box 2001 / Albuquerque, New Mexico 87103 / Telephone (505) 842-6461

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

MAYOR
David Rusk

March 17, 1981

To Whom It May Concern

Ref: 8623 Central N. E.

Attached are my comments checked in red for the above referenced address. Also included, is my business card.

If you have any questions concerning the above, please don't hesitate to call me.

Sincerely,

Fred J. Aguirre, P.E.
Hydrology Section
Engineering Division

FJA/cc

Enclosure

Office of the City Engineer
Building Plans
Drainage Review

Date Issued 3-17-81

Gentlemen:

In order to expedite the passage of building construction plans through the drainage review we have compiled this list of requirements. With a few exceptions, these requirements are complete.

(1) Any building site 1.00 acres or larger will require a formal drainage report prepared by a professional engineer licensed to practice in New Mexico. This report must be submitted to the office of the Asst. City Engineer/Hydrology for review and acceptance prior to submission of construction plans for review.

(2) Before attempting to submit a set of plans for a building located in a flood hazard area, contact the Drainage Division. Failure to do this will often result in much lost time.

(3) When construction plans are submitted, the following items must be included:

(A) A grading plan showing:

✓ 1) existing contours extending approximately 10 feet beyond the property line. If it is not feasible to provide contours beyond the property line, spot elevations, at the the property line, <u>designated as existing and proposed</u> may be substituted.

✓ 2) proposed contours at one foot intervals and proposed spot elevations at key points.

3) finish building floor elevation (s).

✓ 4) notes defining asphalt, sidewalks, planting areas, ponding areas, property line, and any other areas whose definition would increase clarity.

5) proposed alley grades, if property abuts a dedicated unpaved alley. These grades are available, at no charge, fro. the City Engineer's office. An advance request will expedite your project.

B) A drainage plan showing:

✓ 1) direction of roof drainage including canales, gutters, and downspouts.

2) outlined contributory drainage areas, including roof areas.

3) swales with top and bottom spot elevations.

4) curb and sidewalk spot elevations.

5) flow lines with arrows and spot elevations for confirmation.

C) If ponding is required the drainage plan must also show:

1) calculations showing developed and undeveloped volumetric flow rate.

2) pond volume calculations.

3) that pond volumes balance with area contributing to the pond.

3.5) Close proximity of ponding to any structure requires the concurrence of a soils investigation report.

4) the pond overflow point with a spot elevation and slope protection if necessary.

5) positive discharge of ponds with required rate calculations and orifice calculations, if applicable.

✓ D) A discussion of offsite flows must be included. If the contour maps disagree with the designers opinion of offsite flows, further information will be required.

✓ E) A discussion of any other local conditions that effect site drainage should be included.

F) Details of ponds, curbcuts, water blocks, and any other significant drainage structures must be included.

G) The professional who designs the drainage scheme must affix his/her stamp to the drainage plan.

✓ H) A copy of the ~~approved~~ drainage plan must also be included ~~submitted~~ with the construction plans for drainage files, ~~only prior to inspection~~.

I) Construction in the public right of way requires approval, prior to construction, from the City Engineers office.

Approved_____

R. S. Heller

J) Indicate all easements on site: Location, width, and purpose

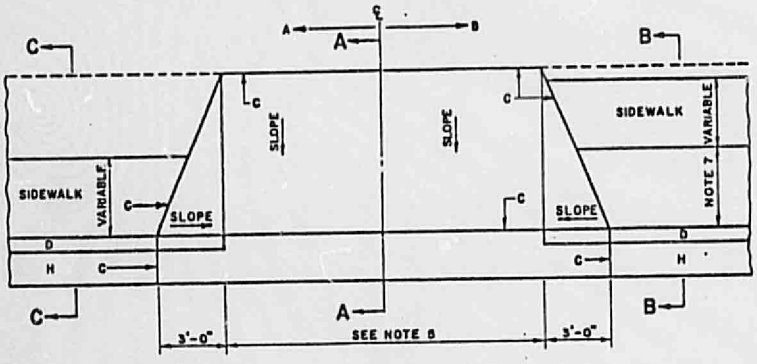
✓ K) Provide a benchmark based on mean sea level datum with a description of said benchmark.

✓ L) Provide a location map with the zone atlas number and legal description.

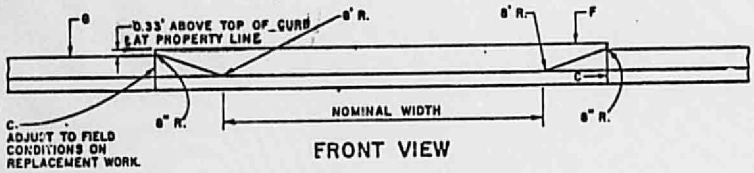
✓ M) Storm runoff must be routed over the drivepad or thru a city approved curb cut.

✓ N) Also include the required elevation for the Standard City Drivepad (DWG-P-

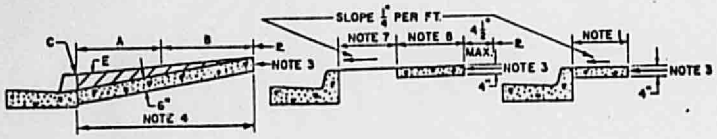
SEE ATTACHED STANDARD DRIVEPAD DETAIL



PLAN



FRONT VIEW



SECTION A-A SECTION B-B SECTION C-C

GENERAL NOTES:

1. SIDEWALK LOCATION TO BE DETERMINED BY THE PLANNING DEPARTMENT.
2. REQUESTS FOR VARIANCES TOGETHER WITH A PLAN OR SKETCH SHALL BE SUBMITTED TO THE PLANNING DEPARTMENT.
3. 1/2" EXPANSION JOINT WHERE SIDEWALK OR DRIVEPAD ABUTS BUILDINGS, FENCES, WALLS OR OTHER IMMOVABLE OBJECTS.
4. ALL DRIVEPADS SHALL BE CONSTRUCTED FROM THE BACK OF CURB TO PROPERTY LINE.
5. DRIVEPADS WIDER THAN 18 FT. (NOMINAL), TO HAVE 1/2" EXPANSION JOINT AT MIDPOINT. DRIVEPADS WIDER THAN 36 FT. TO HAVE 1/2" EXPANSION JOINTS EQUALLY SPACED WITH NOT MORE THAN 18 FT. BETWEEN JOINTS.
6. CURB TYPE SIDEWALK TO BE USED ONLY WHEN RIGHT-OF-WAY WILL NOT PERMIT THE USE OF SETBACK SIDEWALK OR IN AREAS WHICH HAVE CURB TYPE SIDEWALK.
7. SETBACK TO BE DETERMINED BY AVAILABLE RIGHT-OF-WAY. (IF LESS THAN 2 FT. USE CURB TYPE SIDEWALK).
8. SIDEWALK WIDTH SHALL BE 4'-0" MIN. ON LOCAL OR COLLECTOR STREETS, AND 6'-0" MIN. ON ARTERIAL STREETS AND ABUTTING SCHOOLS, OR CHURCHES.
9. SUBGRADE UNDER SIDEWALKS & DRIVEPADS SHALL BE COMPACTED TO 90% MAX. DENSITY AS DETERMINED BY A.S.T.M. D-1557 TO A DEPTH OF 6".

CONSTRUCTION NOTES:

A. CURB TYPE SIDEWALK, SYMMETRICAL ABOUT ℄.
B. OFFSET SIDEWALK, SYMMETRICAL ABOUT ℄.
C. 1/2" EXPANSION JOINT.
D. CURB.
E. SLOPE TO BE ADJUSTED TO PROVIDE UNIFORM TRANSITION BETWEEN DRIVEPAD AND SIDEWALK.
F. TOP OF DRIVEPAD.
G. TOP OF CURB.
H. GUTTER.

REVISIONS	CITY OF ALBUQUERQUE PAVING DRIVEPADS DWG. P-11 NOV. 1979

City of Albuquerque

March 8, 1983

Mr. John Armstrong
Armstrong Engineering
2709-C Pan American N.E.
Albuquerque, New Mexico

Ref: Drainage Plan for McDonald's

K19-P32

Dear John:

The proposed drainage plan to drain the existing run off along the west and north property line into Wyoming Blvd. via the existing curb cut, in the right-of-way, is an acceptable drainage scheme. Therefore, this proposed modification to the McDonald's drainage plan is approved.

The Certificate of Occupancy will be signed off by this office upon compliance with the modified plan and a Letter of Certification by the owner's engineer.

If you have any further questions regarding the above plan please feel free to contact me.

Vrry truly yours,

Fred J. Aguirre, P.E.
Civil Engineer

FJA/fs

cc: Drainage File
Reading File

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