HYDROLOGY E17/D41M ONE PLAN

E17/D41M

1 PLAN

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES MCCOY, SECRETARY-TREASURER
R. WARD HUNNICUTT, DIRECTOR
REX FUNK, DIRECTOR

RICHARD E. LEONARD
EXECUTIVE ENGINEER

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 884-2215

JUN 1987
E17-DHM

June 12, 1987

Farmer Corporation
3535 Girard NE
Albuquerque, New Mexico 87107

Attention: Steve Henderson

Dear Mr. Henderson:

I inspected and have accepted as satisfactory, the storm drainage rundowns into the North Diversion Channel side ditch from the Frito-Lay facility (Midway Business Park).

Sincerely,

Larry A. Blair
Field Engineer

cc: Fred Aguirre, City Hydrology

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

January 8, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd., NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR FRITO-LAY BUILDING 5941 MIDWAY PARK, NE, RECEIVED DECEMBER 17, 1985 (E-17/D41M)

Dear Jackie:

The above referenced plan, dated December 15, 1984, is hereby approved for Building Permit.

Please provide this office with AMAFCA's confirmation of the proposed rundown and attach a copy of this approved plan to the permit sets prior to Hydrology sign-off.

Also, please be advised that we will need confirmation of acceptance by AMAFCA of the constructed rundowns prior to sign-off on the Certificate of Occupancy.

Should you have any questions or if I can be of further assistance, please call me at 768-2650.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, P.E.
C.E./Hydrology Section

cc: Rick Duran

BJG/bsj

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

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

December 5, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd., NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR FRITO-LAY BUILDING 5941 MIDWAY PARK, NE, RECEIVED NOVEMBER 20, 1986 (E-17/D41M)

Dear Jackie:

The above referenced plan, dated November 18, 1986, is hereby approved for Building Permit.

Please provide this office with AMAFCA's confirmation of the proposed rundown and attach a copy of this approved plan to the permit sets prior to Hydrology sign-off.

Also, please be advised that we will need confirmation of acceptance by AMAFCA of the constructed rundowns prior to sign-off on the Certificate of Occupancy.

Should you have any questions or if I can be of further assistance, please call me at 769-2650.

Cordially,

Billy J. Goolsby

Bill J. Goolsby, P.E.
C.E./Hydrology Section

cc: Rick Duran

BJG/bsj

1) Calculations

a) from DPM $I = 2.14$
$P_6 = 2.2$ is the $T_c = 10$ min.
$i = 4.78$

b) Q to rundowns 9.77 & 14.14 from site but all flows seem to go through rundowns.

c) Composite "C" for roofs = .03 not .27 ∴ weighted "C" value = .81

d) CN should be around 92-97 ∴ DRO = 1.4-2.0

2) Where are the .69 acres of Landscaping & undeveloped areas.

3) What is the symbol with the dots around the property - it's not in the legend.

4) Why are the grades on the southern part of the property not evened off - this seems to contribute to potential flows to the south

5) More [redacted] spot elevations are needed for the rundowns [redacted] and rip rap area - at present it is unclear.

TRAPEZOIDAL CHANNEL

Flow Rate	(cfs)	=	3.96
Depth	(ft)	=	.3001569
Velocity	(ft/s)	=	4.255409
Mannings n		=	.045
Slope (%)		=	.11
Side Slope	(H:V)	=	2
Bottom Width	(ft)	=	2.5
Top Width	(ft)	=	3.700627
Area	(ft^2)	=	.9305804
Hydraulic Radius		=	.2421909
Freeboard	(ft)	=	1.07123
Top Width (w/ freebrd)		=	7.985548
Froude Number		=	1.369436

STRIKE ANY KEY TO CONTINUE

TRAPEZOIDAL CHANNEL

Flow Rate	(cfs)	=	7.71
Depth	(ft)	=	.4364591
Velocity	(ft/s)	=	5.237271
Mannings n		=	.045
Slope (%)		=	.11
Side Slope	(H:V)	=	2
Bottom Width	(ft)	=	2.5
Top Width	(ft)	=	4.245837
Area	(ft^2)	=	1.472141
Hydraulic Radius		=	.3306767
Freeboard	(ft)	=	1.099318
Top Width (w/ freebrd)		=	8.643106
Froude Number		=	1.39768

STRIKE ANY KEY TO CONTINUE

TRAPEZOIDAL CHANNEL

Flow Rate	(cfs)	=	9.869324
Depth	(ft)	=	.5
Velocity	(ft/s)	=	5.639614
Mannings n		=	.045
Slope (%)		=	.11
Side Slope	(H:V)	=	2
Bottom Width	(ft)	=	2.5
Top Width	(ft)	=	4.5
Area	(ft^2)	=	1.75
Hydraulic Radius		=	.3695049
Freeboard	(ft)	=	1.111904
Top Width (w/ freebrd)		=	8.947617
Froude Number		=	1.425173

STRIKE ANY KEY TO CONTINUE

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
R. WARD HUNNICUTT, DIRECTOR
REX FUNK, DIRECTOR

RICHARD E. LEONARD
EXECUTIVE ENGINEER

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 884-2215

RECEIVED
JAN 14 1987
HYDROLOGY SECTION

December 30, 1986

Ms. Jackie S. McDowell
Chavez-Grieves Consulting Engineers, Inc.
4600 Montgomery N.E., Building C, #101
Albuquerque, New Mexico 87109

Subject: Grading and Drainage Plan December 15, 1986
Frito Lay Building

Dear Ms McDowell:

The riprap rundown details as shown are satisfactory; however, the entrance conditions need some clarification.

Calculations for Basin II indicate and "L" of 7.27 ft. is required. Section C-2 shows a total length of 4'-6". Please furnish a detail showing the contractor how to build the transition.

The curb acts as part of the length of the weir.

Sincerely,

Dan Sabo

Dan Sabo
Drainage Engineer

cc: Fred Aguirre

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg. ZONE ATLAS/DRNG.FILE #: E-17

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg C PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated CONTACT:

ADDRESS: PHONE:

ARCHITECT: Kevin Georges CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A PHONE: (505) 255-4975

SURVEYOR: Escabel - Archuleta CONTACT:

ADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. CONTACT: Doug Baker

ADDRESS: 3535 Girard PHONE: (505) 884-1366

PRE-DESIGN MEETING:

____ YES

X NO

____ COPY OF CONFERENCE RECORD SHEET PROVIDED

RECEIVED JAN 14 1987 HYDROLOGY SECTION

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

E SUBMITTED: 1/14/87

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

January 14, 1987

RECEIVED
JAN 14 1987
HYDROLOGY SECTION

Mr. Dan Sabo
Drainage Engineer
AMAFCA
P.O. Box 25851
Albuquerque, N.M. 87125

RE: GRADING AND DRAINAGE PLAN FOR FRITO LAY BUILDING

Dear Dan:

In response to your letter dated December 30, 1986, I offer the following:

Section C-2 has been modified to accommodate the total length required for Basin II.

Enclosed is a xerox of the changes that have been made to the plan.

If you have any questions or comments please feel free to call.

Sincerely,

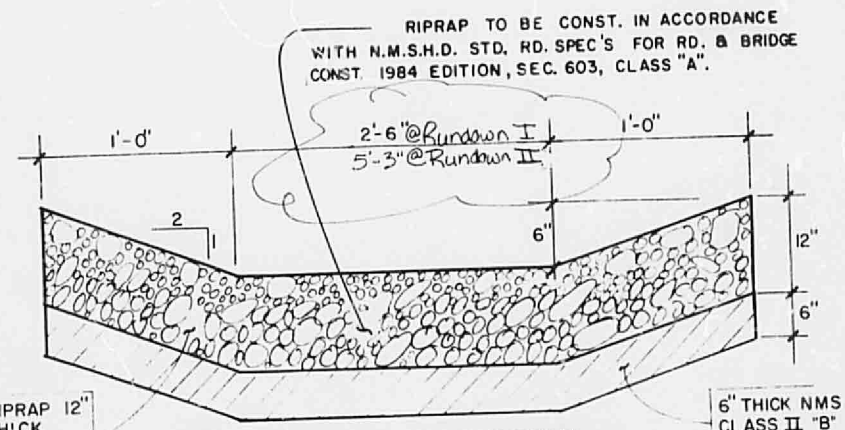
CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

Jackie S. McDowell

Jackie S. McDowell

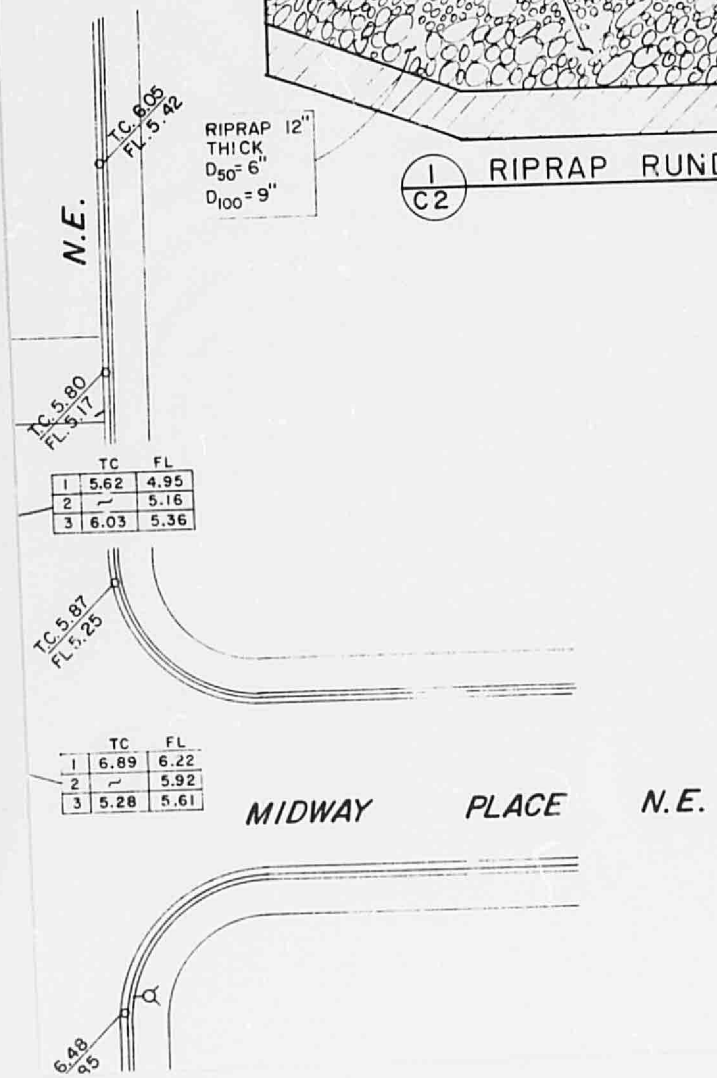
JSM:kk

CC: Fred Aquirre
Kevin Georges



1/C2 RIPRAP RUNDOWN

N.T.S.



	TC	FL
1	5.62	4.95
2	~	5.16
3	6.03	5.36

	TC	FL
1	6.89	6.22
2	~	5.92
3	5.28	5.61

RECEIVED
JAN 14 1987
HYDROLOGY SECTION

SALES

FOR FR

LOCATION AND EXISTING CONI

The site is located
and Midway Place N.E.
imately 3.01 acres.
east to west with an
from the site is int
the North Diversion Ch
inlets into the North

There is a concrete c
the site that intercep
drainage channel desi
Drainage Plan for Midw
by Andrews, Ashury &
was assumed to be 86 p
runoff without detenti

PROPOSED CONDITION:

Proposed development c
with associated parkin
the site will continu
side channel of the N

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: Public Works Dept. Hydrology Section
Attn: Barbara

DATE: 1/14/87
JOB NO.
RE: Frito Lay Bldg.

GENTLEMEN:
We are sending you X ATTACHED __ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
X COPY OF LETTER __ PLANS __
__ PRINTS __ SAMPLES

RECEIVED JAN 14 1987 HYDROLOGY SECTION

COPIES	DATE	NO.	DESCRIPTION
1			Info Sheet Letter.

THESE ARE TRANSMITTED as checked below:

__ FOR APPROVAL
X FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ _____

__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19__

REMARKS:

COPY TO: File

SIGNED: John S. McDowell

If enclosures are not as noted, kindly notify us at once.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 8, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd., NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR FRITO-LAY BUILDING 5941 MIDWAY PARK, NE, RECEIVED DECEMBER 17, 1985 (E-17/D41M)

Dear Jackie:

The above referenced plan, dated December 15, 1986, is hereby approved for Building Permit.

Please provide this office with AMAFCA's confirmation of the proposed rundown and attach a copy of this approved plan to the permit sets prior to Hydrology sign-off.

Also, please be advised that we will need confirmation of acceptance by AMAFCA of the constructed rundowns prior to sign-off on the Certificate of Occupancy.

Should you have any questions or if I can be of further assistance, please call me at 768-2650.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, P.E.
C.E./Hydrology Section

cc: Rick Duran

BJG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg. ZONE ATLAS/DRNG.FILE #: E-17/D41M

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg. C PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated CONTACT:

ADDRESS: PHONE:

ARCHITECT: Kevin Georges CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A PHONE: (505) 255-4975

SURVEYOR: Escabel - Archuleta CONTACT:

ADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. CONTACT: Doug Baker

ADDRESS: 3535 Girard PHONE: (505) 884-1366

PRE-DESIGN MEETING:

____ YES

X NO

____ COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED DEC 17 1986 HYDROLOGY SECTION

DRB NO.

EPC NO.

PROJ. NO. E17/D41M

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN REVISED

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 12/17/86

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: Hydrology
Attn: Barbara

DATE: 12/17/86
JOB NO.
RE: Frito Lay Bldg
E-17/DAIM

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

___ SHOP DRAWINGS ___ CHANGE ORDER ___ SPECIFICATIONS
___ COPY OF LETTER ___ PLANS ___
X PRINTS ___ SAMPLES

RECEIVED
DEC 17 1986
HYDROLOGY SECTION

COPIES	DATE	NO.	DESCRIPTION
1			REVISED Grading & Drainage Plan dated 12/10/86
1			Info. Sheet
1			letter of approval for previous plan dated 12/5/86

THESE ARE TRANSMITTED as checked below:

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___ RETURNED FOR CORRECTIONS
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___ SUBMIT ___ COPIES FOR DISTRIBUTION
___ RETURN ___ CORRECTED PRINTS
___ PRINTS RETURNED AFTER LOAN TO US
___ FOR BIDS DUE _____ 19___

REMARKS:

COPY TO: file

SIGNED: Jackie S. McDonald

If enclosures are not as noted, kindly notify us at once.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

December 5, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd., NE
Albuquerque, New Mexico 87109

RE: REVISED DRAINAGE PLAN FOR FRITO-LAY BUILDING 5941 MIDWAY PARK, NE, RECEIVED NOVEMBER 20, 1986 (E-17/D41M)

Dear Jackie:

The above referenced plan, dated November 18, 1986, is hereby approved for Building Permit.

Please provide this office with AMAFCA's confirmation of the proposed rundown and attach a copy of this approved plan to the permit sets prior to Hydrology sign-off.

Also, please be advised that we will need confirmation of acceptance by AMAFCA of the constructed rundowns prior to sign-off on the Certificate of Occupancy.

Should you have any questions or if I can be of further assistance, please call me at 768-2650.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, P.E.
C.E./Hydrology Section

cc: Rick Duran

BJG/bsj

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

November 20, 1986

RECEIVED
NOV 20 1986
HYDROLOGY SECTION

Billy J. Goolsby, P.E.
City of Albuquerque
Public Works Dept/Hydrology Section
P.O. Box 1293
Albuquerque, N.M. 87103

RE: DRAINAGE PLAN FOR FRITO LAY BUILDING
(E-17/D41 M)

Dear Billy:

In response to your letter dated November 12, 1986 I offer the following:

1. The rundowns have been changed to riprap and have been designed to allow for freeboard - see plan.

2. The area at the south end of the building is dirt (undeveloped).

3. The rundowns in the AMAFCA side channel are existing and have been referenced as so on the plan.

4. Elevations have been added between the building and the west property line to show how it will drain.

5. A drain pipe has been added at the south end of the building where the loading ramp is.

6. The water at the end of the two foot concrete valley gutter will be turned 90 by the 6" curb at the north end. The velocity at this location is approximately 3 feet/sec and the depth is approximately 4.8 inches.

7. The drainage basins have been added to the plan and discharge rates computed.

8. The small dots along the property line and easement line is a 8' chain link fence and referenced as so on the plan.

9. AMAFCA's approval for the rundowns into their right-of-way is currently being procured.

Additional items discussed in our meeting on November 18, 1986 have been addressed on the plan.

Your timely assistance in this matter is appreciated.

Cordially,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

Jackie S. McDowell

Jackie S. McDowell

JSM:kk

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg. ZONE ATLAS/DRNG.FILE #: E-17/D41M

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves — CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg. C — PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated — CONTACT:

ADDRESS: — PHONE:

ARCHITECT: Kevin Georges — CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A — PHONE: (505) 255-4975

SURVEYOR: Escabel - Archuleta — CONTACT:

ADDRESS: 1330 San Pedro #101 — PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. — CONTACT: Doug Baker

ADDRESS: 3535 Girard — PHONE: (505) 884-1366

RECEIVED NOV 20 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

X NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: ___

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

RECEIVED
NOV 20 1986
HYDROLOGY SECTION

LETTER OF TRANSMITTAL

TO: Public Works Dept
Hydrology Section

DATE: 11/20/86
JOB NO.
RE: Frito Lay Bldg.

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS __
X PRINTS __ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
1			Grading & Drainage Plan Rev. 11-18-86
1			Letter responding to comments.
			Info. Sheet

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19__

REMARKS:

COPY TO: file
AMAFCA

SIGNED: Jackie S. McDonald

If enclosures are not as noted, kindly notify us at once.

Verbal comments provided
11/18/86
Will receive another update
revision.

11/18/86

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

November 12, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd., NE
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR FRITO-LAY BUILDING IN MIDWAY BUSINESS PARK (E-17/D41M) RECEIVED OCTOBER 27, 1986

Dear Jackie:

I have reviewed the above referenced submittal for Building Permit and forward the following comments:

1. In the calculations and design of the concrete rundowns, you have not allowed any freeboard. The channel is designed to carry the water at the very top of the structure. If an obstruction gets into the channel (board, rock, paper, etc.), the water could flow around the structure and wash it out.

2. What is the area at the south end of the building? Is it landscaping or dirt?

3. At the ends of the rundowns are what appear to be erosion pads in the AMAFCA side channel. What size are they? Where are the hydraulic calcs for the design? What size rock is to be used?

4. There are no elevations shown between the building and the west property line where the asphalt curb is to be installed. How will this area drain?

5. At the south end of the building, there appears to be a loading ramp (?) that slopes toward the building. There is no indication as to how this area will drain. On one side, a roll curb is called for; is there a wall on the other side?

6. How is the water intended to be turned 90° at the end of the 2 foot concrete valley gutter? What is the depth at this point? What will keep the momentum from carrying the water straight ahead?

7. Your calculations do not reflect multiple drainage basins, yet there are four different locations identified on the plan. What is the discharge rate for each of these locations?

8. What is the symbolism of the small dots along the easement lines and the south and west property lines?

9. The S.O. #19 process is not appropriate for the rundowns into AMAFCA right-of-way. You will need to obtain AMAFCA's approval and coordination for the proposed construction and inspection of these facilities. For release of the building permit and Certificate of Occupancy, please provide, in writing, the approval and acceptance by AMAFCA.

Should you have any questions regarding this review, please call me at 768-2650.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, P.E.
C.E./Hydrology Section

BJG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg ZONE ATLAS/DRNG.FILE #: E-17

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg C PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated CONTACT:

ADDRESS: PHONE:

ARCHITECT: Kevin Georges CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A PHONE: (505) 255-4975

SURVEYOR: Escabel - Archuleta CONTACT:

ADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. CONTACT: Doug Baker

ADDRESS: 3535 Girard PHONE: (505) 884-1366

PRE-DESIGN MEETING:

____ YES

X NO

____ COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED NOV 12 1986 HYDROLOGY SECTION

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

DATE SUBMITTED:

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

RECEIVED NOV 12 1986 HYDROLOGY SECTION

LETTER OF TRANSMITTAL

TO: Public Works Dept.
Hydrology
Attn: Barbara

DATE: 11/11/86
JOB NO.
RE: Frito-Lay Bldg
E-17/D41M

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
__ COPY OF LETTER __ PLANS __ _____
X PRINTS __ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
2			Grading & Drainage Plans - Revised 11/10/86
1			Info Sheet

THESE ARE TRANSMITTED as checked below:

X FOR APPROVAL
__ FOR YOUR USE
__ AS REQUESTED
__ FOR REVIEW AND COMMENT
__ APPROVED AS SUBMITTED
__ APPROVED AS NOTED
__ _____

__ RETURNED FOR CORRECTIONS
__ RESUBMIT ___ COPIES FOR APPROVAL
__ SUBMIT ___ COPIES FOR DISTRIBUTION
__ RETURN ___ CORRECTED PRINTS
__ PRINTS RETURNED AFTER LOAN TO US
__ FOR BIDS DUE _____ 19__

REMARKS:

COPY TO: File
AMAFCA - Dan Sabo

SIGNED: Jackie S. McDowell

If enclosures are not as noted, kindly notify us at once.

RECEIVED
OCT 27 1986
HYDROLOGY SECTION

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

October 23, 1986

Mr. Carlos A. Montoya, P.E.
City/County Floodplain Administrator
City of Albuquerque
P.O. Box 1293
Albuquerque, N.M. 87103

RE: DRAINAGE AND GRADING PLAN FOR FRITO-LAY
(E-17/D41M)

Dear Carlos:

In response to your letter dated October 15, 1986, I offer the following:

1. AMAFCA is currently reviewing this grading and drainage plan. We will forward a copy of their concurrence statement to your office when we receive it.

2. Asphalt will be laid on the west side of the building to the property line. An asphalt curb will be installed at the roof drain downspouts to dissipate the water entering the side channel to the North Diversion Channel. Concrete rundowns will be installed on the north and south sides of the building to transport runoff to the side channel to the North Diversion Channel.

Your timely assistance in this matter is appreciated.

Cordially yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

Jackie S. McDowell

Jackie S. McDowell

JSM:mf

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg ZONE ATLAS/DRNG.FILE #: E-17/D44M

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg. C PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated CONTACT:

ADDRESS: PHONE:

ARCHITECT: Kevin Georges CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A PHONE: (505) 255-4975

SURVEYOR: Escabel-Archuleta CONTACT:

ADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. CONTACT: Doug Baker

ADDRESS: 3535 Girard PHONE: (505) 884-1366

RECEIVED
OCT 27 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:

____ YES

X NO

____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10/27/86

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

RECEIVED OCT 27 1986 HYDROLOGY SECTION

LETTER OF TRANSMITTAL

TO: Public Works Dept
Hydrology Dept
Attn: Barbara

DATE: 10/27/86
JOB NO.
RE: Frito Lay Bldg.
(E-17/D41M)

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

___ SHOP DRAWINGS ___ CHANGE ORDER ___ SPECIFICATIONS
___ COPY OF LETTER ___ PLANS ___
X PRINTS ___ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
2			Grading & Drainage Plan
1			info sheet
1			letter responding to comments.

THESE ARE TRANSMITTED as checked below:

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___ APPROVED AS NOTED
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___ PRINTS RETURNED AFTER LOAN TO US
___ FOR BIDS DUE _____ 19___

REMARKS:

COPY TO: File

SIGNED: Jackie S. McDonald

If enclosures are not as noted, kindly notify us at once.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

October 15, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL DRAINAGE PLAN FOR FRITO-LAY
(E-17/D41M) RECEIVED OCTOBER 13, 1986

Dear Ms. McDowell:

I have reviewed the referenced plan and forward the following comments:

1. Any construction in AMAFCA right-of-way will require their conc rence.

2. Please address erosion potential from roof and asphalt runoff to the AMAFCA channel.

If you have any questions regarding this project, please call me at 768-2650.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administ ator

CAM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Frito Lay Bldg ZONE ATLAS/DRNG.FILE #: E-17

LEGAL DESCRIPTION: Lot 16, Midway Business Park

CITY ADDRESS: 5941 Midway Park

ENGINEERING FIRM: Chavez Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 Montgomery Bldg. C PHONE: (505) 881-7376

OWNER: Frito Lay Incorporated CONTACT:

ADDRESS: PHONE:

ARCHITECT: Kevin Georges CONTACT: Kevin Georges

ADDRESS: 127 Jefferson Suite A PHONE: (505) 255-4975

SURVEYOR: Escabel - Archuleta CONTACT:

ADDRESS: 1330 San Pedro #101 PHONE: (505) 266-8791

CONTRACTOR: Farmer Corp. CONTACT: Doug Baker

ADDRESS: 3535 Girard PHONE: (505) 821-1366

RECEIVED OCT 13 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

___ YES

X NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJ. NO.

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: 10-10-86

BY: Jackie S. McDowell

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: Public Works Dept
Hydrology Section
4th Floor City Hall
Attn: Barbara

DATE: 10/13/86
JOB NO.
RE: Frito Lay

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

__ SHOP DRAWINGS __ CHANGE ORDER __ SPECIFICATIONS
X COPY OF LETTER __ PLANS __
X PRINTS __ SAMPLES

RECEIVED OCT 13 1986 HYDROLOGY SECTION

COPIES	DATE	NO.	DESCRIPTION
2			Grading & Drainage Plan
1			Letter of Conceptual approval
1			Info. Sheet

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REMARKS:

COPY TO: file

SIGNED: Jackie S. McDonnell

If enclosures are not as noted, kindly notify us at once.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

September 24, 1986

Jackie McDowell
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL DRAINAGE PLAN FOR FRITO-LAY (E-17/D41M) RECEIVED SEPTEMBER 17, 1986

Dear Ms. McDowell:

The above referenced plan, dated September 16, 1986, is approved for Site Development Plan.

If you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: FRITO-LAY SALES & DISTRIBUTION CTR ZONE ATLAS/DRNG.FILE #: E-17 /041M

LEGAL DESCRIPTION: LOT 16, MIDWAY BUSINESS PARK

CITY ADDRESS: 5941 MIDWAY PARK N.E.

ENGINEERING FIRM: CHAVEZ-GRIEVES CONSL.ENGRS.,INC. CONTACT: JACKIE McDOWELL

ADDRESS: 4600-C MONTGOMERY N.E. ABQ.87109 PHONE: (505) 881-7376

OWNER: FRITO-LAY INC. CONTACT: KEVIN DIDION

ADDRESS: 7701 CARPENTER RD.,PLANO, TX. PHONE: (214) 353-4963

ARCHITECT: KEVIN GEORGES & ASSOCIATES CONTACT: STEVE ROUTON

ADDRESS: 127 JEFFERSON N.E., SUITE A, ABQ.NM PHONE: (505) 255-4975

SURVEYOR: A & E ENGINEERS, INC. CONTACT: JOHN F. ESQUIBLE

ADDRESS: 1330 SAN PEDRO N.E., SUTIE 101,ABQ. PHONE: (505) 266-8791

CONTRACTOR: FARMER CORPORATION CONTACT: STEVE HENDERSON

ADDRESS: 3535 GIRARD N.E., ABQ., N.M. PHONE: (505) 884-1366

RECEIVED
SEP 17 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:

____ YES
X NO
____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ____
EPC NO. ____
PROJ. NO. ____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
X CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

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____ BUILDING PERMIT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ ROUGH GRADING PERMIT APPROVAL
____ GRADING/PAVING PERMIT APPROVAL
____ OTHER ____ (SPECIFY)

DATE SUBMITTED: 9/17/86

BY: JACKIE McDOWELL

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.
4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: Public Work Dept.
Hydrology Section
Attn: Barbara

DATE: 9/17/86
JOB NO.
RE: Kato Lang Bldg.

GENTLEMEN:
We are sending you X ATTACHED ___ UNDER SEPARATE COVER the following items:

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X PRINTS ___ SAMPLES

RECEIVED
SEP 17 1986
HYDROLOGY SECTION

COPIES	DATE	NO.	DESCRIPTION
1			Info. Sheet
2			Conceptual Grading & Drainage Plans

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REMARKS:

COPY TO: File

SIGNED: Michael S. McDowell

If enclosures are not as noted, kindly notify us at once.

1397