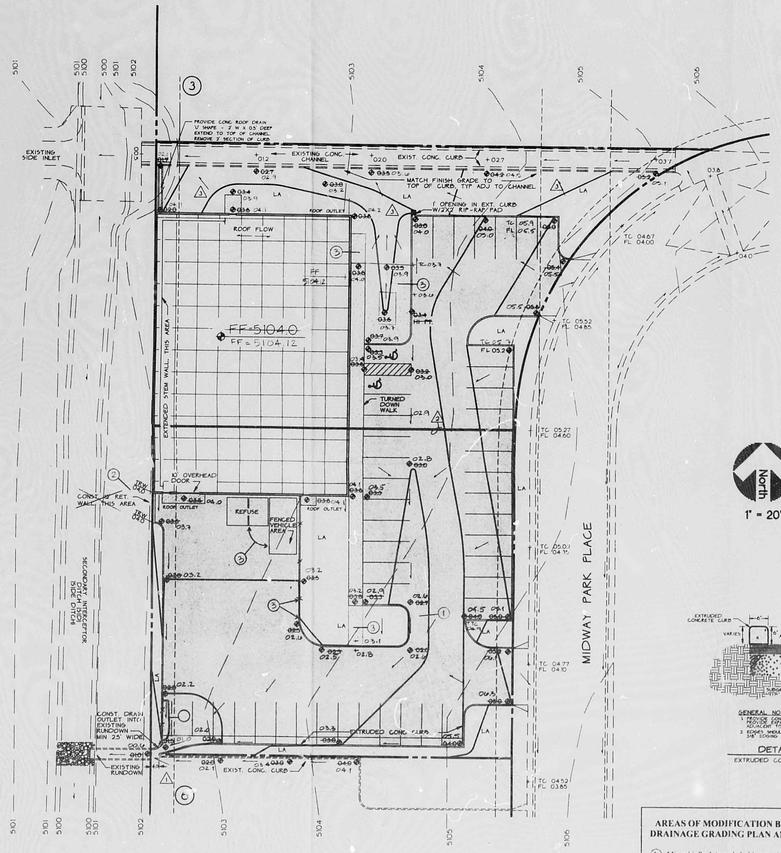
PUBLIC WORKS/HYDROLOGY

F17/D61Q



GENERAL NOTES:

LEGAL: LOTS 4 AND 5, JEFFERSON COMMONS, ALBUQUERQUE, NEW MEXICO

SURVEYOR: RONALD FORSTBAUER SURVEYING, ALBUQUERQUE, NEW MEXICO

B.M.: "SC 27 | 26 34 | 35" A STANDARD B.L.M. BRASS CAP SET IN CONCRETE PROJECTING 12" ABOVE THE GROUND. CAP IS LOCATED APPROXIMATELY 500' NORTHWEST OF THE INTERSECTION OF SUNSET AND MIDWAY PARK BLVDS. N.E. ELEVATION = 5310.41

T.B.M.: "X" ON TOP OF CURB AT EXTENSION OF LOTS 4/5 LOT LINE ELEVATION = 5105.27

SCOPE:

THE SITE IS TWO UNDEVELOPED LOTS LOCATED WITHIN THE JEFFERSON COMMONS SUBDIVISION. THE GROUND SLOPES WESTERLY AT 2%.

THE PROPOSED IMPROVEMENTS FOR THE SITE INCLUDE A 10,000 SF SLAB-ON-GRADE BUILDING, ASPHALT-PAVED PARKING AREAS AND ASSOCIATED WALKS AND LANDSCAPED AREAS.

DEVELOPED FLOWS FOR THE SITE WILL DISCHARGE INTO THE AMAFCA SECONDARY INTERCEPTOR DITCH BY TWO ROUTES: RUNOFF FROM 1/2 OF THE ROOF, NORTH L.A. AND NORTH PARKING AREA WILL DRAIN TO THE EXISTING CHANNEL LOCATED ON THE NORTH PROPERTY LINE. SITE FINISHED GRADES WILL MATCH THE TOP OF THE CHANNEL CURB TO ALLOW SITE DRAINAGE TO ENTER AS SHEET FLOW. THE REMAINING ROOF AND MAIN PARKING LOT WILL BE RELEASED AT THE SOUTHWEST CORNER INTO AN EXISTING AMAFCA APPROVED RUNDOWN.

CALCULATIONS:

AREA OF SITE: 43560 SF = 1.0 AC.

A) AREA F DRAINING TO NORTHWEST CORNER = 0.37 AC.
B) AREA G DRAINING TO SOUTHWEST CORNER = 0.63 AC.

Q_{100} AT AREA F DISCHARGE POINT (MASTER PLAN, DEVELOPED, AREA F):

Q_{100} = 10.84(45/10.37) = 14 CFS

Q_{100} AT AREA G DISCHARGE POINT (MASTER PLAN, DEVELOPED, AREA G):

Q_{100} = 10.84(45/10.63) = 25 CFS

OUTLET CAPACITY AT SW CORNER:

USING ORIFICE EQUATION FOR A RECTANGULAR ORIFICE, $Q = C A (2gH)^{1/2}$

Q_{100} = 42 CFS RUNNING FULL > 25 CFS REQUIRED OK

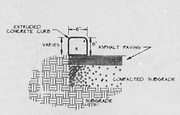
JUL 15 1997

RESUBMITTAL - AUGUST 24, 1993

1. REMOVE EXISTING CURB AS INDICATED TO ALLOW LOT 6 FLOWS TO ENTER EXISTING RUNDOWN UNHINDERED (SAME OWNER)
2. PROPERTY LINE ADDED.
3. OWNER TO PROVIDE SEDIMENT CONTROL THIS AREA.

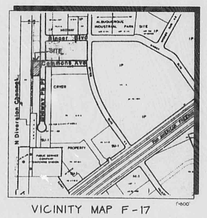
CHRISTOPHER L. WEISS — DATE 8-24-93

NORTH
1" = 20'

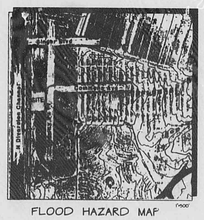


GENERAL NOTES
1. PROVIDE CONSTRUCTION JOINTS @ 10' O.C. MAX. PLACE JOINT TO MATCH WALKS.
2. EDGES SHOULD BE REMOVED WITH EDGING TOOL

DETAIL B
EXTRUDED CONCRETE CURB



VICINITY MAP F-17



FLOOD HAZARD MAP

AREAS OF MODIFICATION BETWEEN APPROVED DRAINAGE GRADING PLAN AND ACTUAL AS-BUILT

1. Minor birdbath in asphalt this area. Acceptable.
2. Retaining wall at southwest corner of building was not constructed. Acceptable due to existing grades this area.
3. Site plan feature not shown on original plan. Acceptable. Does not affect drainage.

I, Christopher L. Weiss, P.E. hereby certify that the as-built information shown is in substantial compliance with the approved drainage / grading plan.

Christopher L. Weiss, P.E. (N.M.P.E. #6653) — Date 7-11-97

As-Built Survey provided by Forstbauer Surveying Co.

LEGEND

	SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)	LA	LANDSCAPED AREA
	PROPOSED ASPHALT	TGW	TOP OF GRADE WALL
	BUILDING (EXISTING, PROPOSED)	TRW	TOP OF RETAINING WALL
	PROPERTY LINE	TA	TOP OF ASPHALT
x 65.7	EXISTING SPOT ELEVATION	TC	TOP OF CURB
30	EXISTING CONTOUR	FL	FLOW LINE
75.2	PROPOSED SPOT ELEVATION	FF	FINISHED FLOOR
30	PROPOSED CONTOUR	R/W	RIGHT OF WAY
	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)	PL	PROPERTY LINE
		PP	POWER POLE
		04.0	AS-BUILT DESIGNATION

REVISIONS
8/24/93

C.L. WEISS ENGINEERING, INC.
POST OFFICE BOX 87 SANDIA PARK, N.M. 87047 - (505) 281-9900
1500 ALVARADO DR. NE ALBUQUERQUE, N.M. 87110 - (505) 266-3444

Drawn by: D.C.
Checked: C.W.
Updated: C.W.

JEFFERSON COMMONS LOTS 4 and 5
DRAINAGE / GRADING PLAN

SHEET 1 OF 1

R1 15 DATE 3-19-02 OP EOP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (NMA)(1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 11/20/02

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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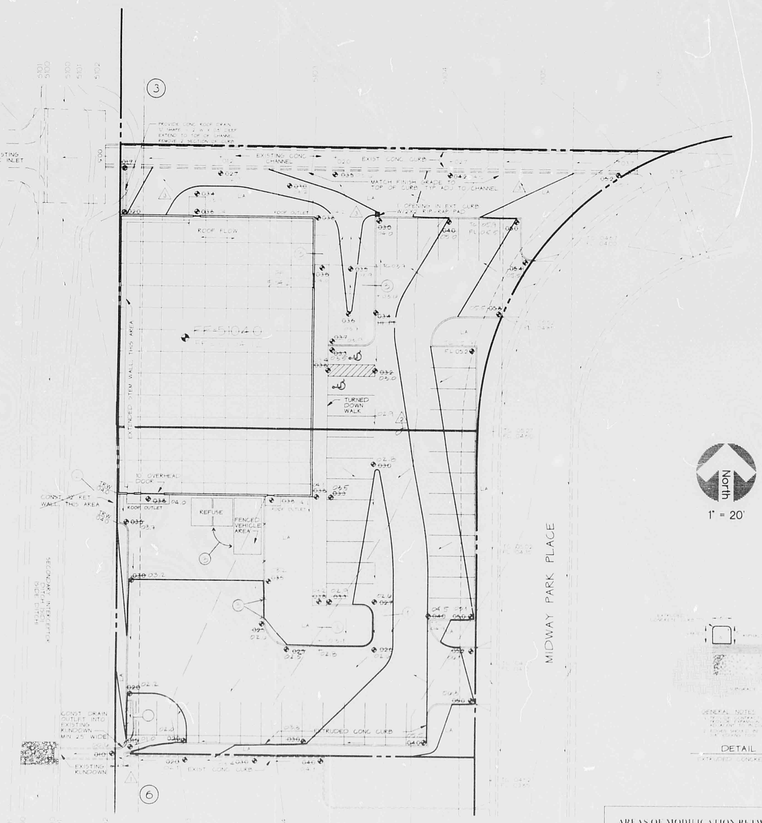
PLANS/PLATS ON FILE

FILE DESC: F17/D601Q

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F



North
1" = 20'

DETAIL B

GENERAL NOTES:

LEGAL: LOTS 4 AND 5, JEFFERSON COMMONS, ALBUQUERQUE, NEW MEXICO

SURVEYOR: RONALD FORSTBAUER SURVEYING, ALBUQUERQUE, NEW MEXICO

BM: NO. 22 LOC: A STANDARD BOW BRASS CAP SET IN CONCRETE PROTRUDING ABOVE THE GROUND, STAMPED "22" LOCATED APPROXIMATELY 700 NORTHWEST OF THE INTERSECTION OF SUNSET AND MIDWAY PARK BLVDS NE. ELEVATION = 5304.47

TBM: X CUT ON TOP OF CURB AT EXTENSION OF LOTS 4/5 LOT LINE ELEVATION = 5306.27

SCOPE:

THE SITE IS TWO UNDEVELOPED LOTS LOCATED WITHIN THE JEFFERSON COMMONS SUBDIVISION. THE ON-SITE SLOPES ARE FAIRLY FLAT.

THE PROPOSED IMPROVEMENTS FOR THIS SITE INCLUDE A SERVICE STATION, CANOPY, PUMP ISLANDS, UNDERGROUND TANKS, PAVED PARKING, PAVED DRIVES, AND LANDSCAPED AREAS.

UNDEVELOPED FLOWS ON THE SITE WILL DISCHARGE INTO THE AMAFCA NEIGHBOR HOOD CHANNEL WITH PER TWO ROUTES. FLOWS FROM THE WEST, NORTH, AND EAST WILL DISCHARGE INTO THE CHANNEL VIA THE WEST, NORTH, AND EAST PERIPHERAL CURB. FLOWS FROM THE SOUTHEAST WILL DISCHARGE INTO THE CHANNEL CURB TO ALLOW SITE DRAINAGE TO ENTER AN INLET IN THE CHANNEL. THE SOUTHWEST CORNER WILL DRAIN TO THE SOUTHWEST CORNER AT THE SOUTHWEST CORNER INTO AN EXISTING AMAFCA APPROVED POND.

CALCULATIONS:

AREA OF SITE: 87,840 SF = 2.02 AC

A) AREA 1: DRAINING TO NORTHWEST CORNER = 0.51 AC
B) AREA 2: DRAINING TO SOUTHWEST CORNER = 1.51 AC

C) AREA 3: DISCHARGE POINT MASTER PLAN (DEVELOPED) AREA 3
$Q_{100} = 1.0 \times 2.02 = 2.02$ CFS
Q_{100} (MASTER PLAN) = 1.4 CFS

D) AREA 4: DISCHARGE POINT MASTER PLAN (DEVELOPED) AREA 4
$Q_{100} = 1.0 \times 0.51 = 0.51$ CFS
Q_{100} (MASTER PLAN) = 0.25 CFS

SUMP: INFILTRATE AT VIA CORNER

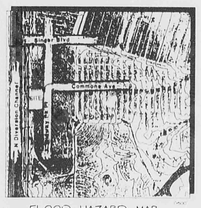
USING RATIONAL EQUATION FOR A RECTANGULAR WEIRS, $Q = C_d L H^{3/2}$
WHERE $H = 0.25$ FOR REQUIRED 100 YR

RESUBMITTAL - AUGUST 24, 1993

1. REMOVE EXISTING CURB AS INDICATED TO ALLOW SURFACE FLOW TO ENTER EXISTING FUNCTIONAL UNDERGROUND CHANNEL SYSTEM
2. PROPERTY LINE ADJUSTED
3. [illegible]

CHRISTOPHER L. WEISS DATE

VICINITY MAP F-17



FLOOD HAZARD MAP

LEGEND

	SIDEWALK, CURB AND GUTTER EXISTING / PROPOSED	LA	LANDSCAPED AREA
	PROPOSED ASPHALT	TGW	TOP OF GRADE WALL
	BUILDING EXISTING / PROPOSED	TW	TOP OF RETAINING WALL
	PROPERTY LINE	TA	TOP OF ASPHALT
4567	EXISTING SPOT ELEVATION	TC	TOP OF CURB
4567	EXISTING CONTOUR	FL	FLOW LINE
	PROPOSED CURB SUBGRADE	FF	FINISHED FLOOR
	PROPOSED CONTOUR	ROW	RIGHT OF WAY
	SURFACE FLOW DIRECTION EXISTING / PROPOSED	PL	PROPERTY LINE
		PP	POWER POLE

AREAS OF MODIFICATION BETWEEN APPROVED DRAINAGE GRADING PLAN AND ACTUAL AS BUILT

1. Minor hardscape in asphalt this area. Acceptable.
2. Retaining wall at rear/east corner of building was not constructed. Acceptable due to drainage/grades this area.
3. Site plan feature not shown on original plan. Acceptable. Does not affect drainage.

I, Christopher L. Weiss, PE, hereby certify that this as-built information shown is an substantial conformance with the approved drainage grading plan.

Christopher L. Weiss PE, NM 9 [illegible] DATE 9-24-93

As-Built Survey provided by Forstbauer Surveying co.

C.L. WEISS ENGINEERING, INC.
POST OFFICE BOX 37 SANDIA PARK, N.M. 87047 (505) 281-8000
1100 ALVARADO DR. NE ALBUQUERQUE, N.M. 87110 (505) 266-3444

JEFFERSON COMMONS LOTS 4 and 5
DRAINAGE / GRADING PLAN

SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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No. 5 DATE 3/17/93 OF 5/97

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
[illegible]
NOTARY PUBLIC
STATE OF NEW MEXICO
01/20/93

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D F