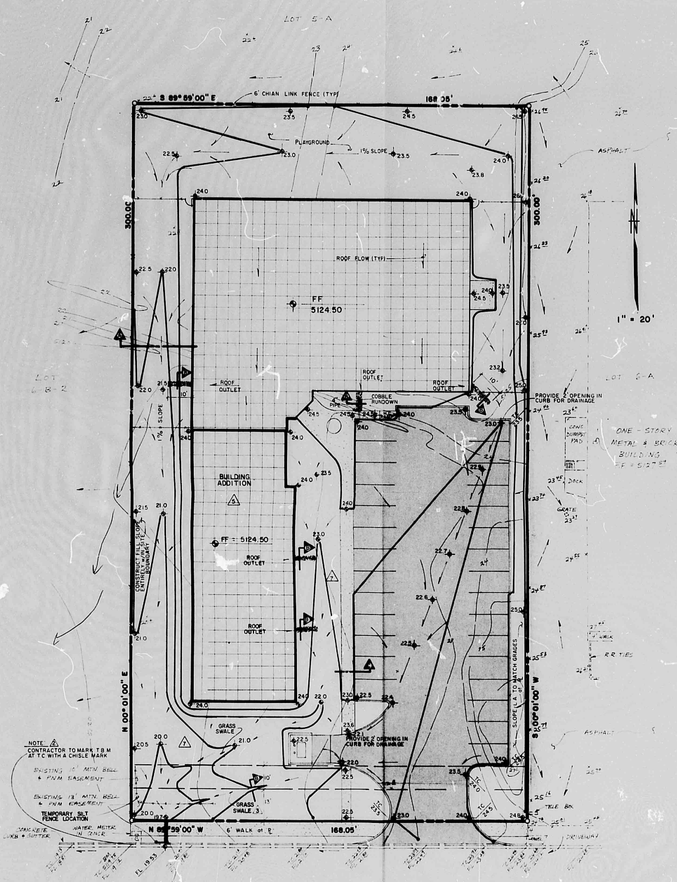
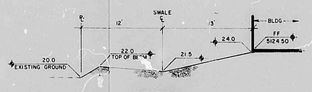



NOTE:
CONTRACTOR TO MARK TBM AT T.C. WITH A CHISLE MARK

CONSTRUCT 1' WIDE SIDEWALK CULVERT PER CITY DWG. 4-18
SIDEWALK GRATE CAPACITY:
W = 1'
n = 0.015
S = 2%
For a Q of 3.3 cfs
Depth = 0.5

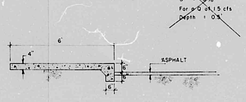



SECTION A
SWALE
NTS

SECTION B
GRASS RUNDOWN
NTS

SWALE CAPACITY:
65 = 2:1
n = 0.03
S = 3%
For Q = 4.5 cfs
Depth = 0.5'

35 = 2:1
n = 0.027
S = 3%
For Q = 1.5 cfs
Depth = 0.6'




SECTION C
TURNDOWN SIDEWALK
NTS

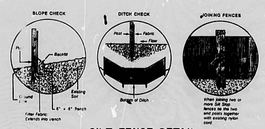
RESUBMITTAL 4-22-88
5016 SQ. FT. BLDG ADDITION
REVISE CALCULATIONS
REGRADE SITE
Christopher L. Weiss 4-22-88
CHRIS WEISS, P.E. DATE

RESUBMITTAL 10-12-87
REPLACE COBBLE-LINED SWALE WITH GRASS-LINED SWALE
GRASS SWALE CAPACITY
CHRISTOPHER L. WEISS DATE
P.E.

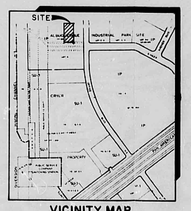
REVISED 04-28-87
ADDED CAPACITY NOTE FOR SWALE & SIDEWALK CULVERT
ADDED TBM NOTE
CHRISTOPHER L. WEISS, P.E. DATE

## LEGEND

- ASPHALT PAVING
- LANDSCAPED AREA
- PROPERTY LINE
- EXISTING CURB & GUTTER W/SIDEWALK
- 12.7 EXISTING SPOT ELEVATION
- 12 EXISTING CONTOUR
- 12.7 PROPOSED SPOT ELEVATION
- 12 PROPOSED FINISHED CONTOUR
- SURFACE FLOW DIRECTION
- BUILDING STRUCTURE




SILT FENCE DETAIL
NTS




VICINITY MAP
F - 17

FLOOD HAZARD MAP

SCOPE:

The proposed improvements are comprised of a 15,000 square foot block building to be used as a Montessori School site. Sidewalks, fences and an asphalt-paved parking lot will be provided. The remaining area will be landscaped with trees, shrubs and native grasses.

The present site is open undeveloped land with no improvements. The lot slopes at approximately 2% from northeast to southwest and is covered by a growth of sparse native grasses.

The intent of this plan is to show:

a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walk and pavement.

c) The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.

d) The relationship of onsite improvements with existing neighboring properties to insure an orderly transition between proposed and surrounding grades.

GENERAL NOTES: Storm runoff will be discharged into Singer Blvd. which will carry it west to Midway Park Blvd., thence south to an existing improved drainage easement, and finally west where it drains into the North Diversion Channel. This lot is in compliance with the Midway Business Park Drainage Plan (revised 7/20/84 which was approved by City Hydrology 6/10/84.

LEGAL: Lot 6-B-1, Midway Business Park, Albuquerque, NM.

SURVEYOR: Ronald V. Forstbauer Surveying Co., Rio Rancho, NM.

B.M.: Standard BLM brass cap in concrete stamped SC 22 24 22T5P, elevation 5,110.41', located 1.0 mile west of I-25 and Osuna Road interchange and 0.3 mile south of Osuna.

T.B.M.: Top of curb at south extension of west property line. Elevation = 5,119.7'.

SOILS: From SCS Bernalillo County, NM, Soils Map, Soil Type EmB, Group 'B'.

FLOOD HAZARD: Site is not located within a flood hazard zone as shown on FIRM Map # ..16.

OFF-SITE DRAINAGE: No off-site flows reach the site.

EROSION CONTROL: Contractor will be responsible for containing any sediment generated during construction by using either a fabric silt fence or by constructing a 1'-high earth berm across low point(s) of discharge from the lot.

4 CALCULATIONS: Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100-year, 6-hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD: Q = CiA

Area = Site area: 50,415 sq.ft. = 1.1574 ac.

Runoff Coefficient:

Existing site:
Undeveloped Area = 50,415 ft²
Landscaped Area = 0 ft²
Paved Area = 0 ft²

$C_1 = \frac{(50,415)(0.40)}{50,415} = 0.40$

Developed Site:
Roof Area = 15,149 ft²
Landscaped Area = 23,239 ft²
Paved Area = 12,027 ft²

$C_1 = \frac{(15,149)(0.90)}{50,415} = 0.27$

$C_2 = \frac{(23,239)(0.25)}{50,415} = 0.12$

$C_3 = \frac{(12,027)(0.95)}{50,415} = 0.23$

Composite C = 0.40

Composite C = 0.62

Rainfall Intensity:

$i = P_1 (6.84)^{-0.51} = 4.65"$ per hour

where $P_1$ = 2.27" NOAA (2-2 yr-1)
$T_c$ = 10 minutes

Existing Conditions:

$Q_{100} = (0.40)(4.65)(1.16) = 2.2$ cfs

$V_{100} = (0.40)(50,415)(2.2)(1/12) = 3,700$ cu. ft.

Developed Conditions:

$Q_{100} = (0.62)(4.65)(1.16) = 3.3$ cfs

$V_{100} = (0.62)(50,415)(2.2)(1/12) = 5,730$ cu. ft.

SUMMARY:

$Q_{100} = (3.3)-(2.2) = 1.1$ cfs (increase)
$V_{100} = (5,730)-(3,700) = 2,030$ cu. ft. (increase)

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with Albuquerque Interim Standard Specifications for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved within a minimum amount of delay.
5. Backfill compaction shall be according to _ inches _ street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.
7. Contractor is responsible for obtaining excavation permit for sidewalk culvert/drain.
8. Proof of acceptance will be required prior to sign off for Certificate of Occupancy (C.O.).

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: Tommy J. Montoya 4/21/88
Hydrology Section Date

INSPECTION APPROVAL: _____
Construction Section Date

ACCEPTANCE: _____
Construction Section/Permits Date

RECEIVED
APR 22 1988
HYDROLOGY SECTION

F-17/0058

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 268 - 3444

REVISIONS | DATE
DESIGN
DRAWN
CHECKED

MONTESSORI SCHOOL
GRADING & DRAINAGE PLAN

ENGINEERING

SHEET 1 OF 1

REF 21 DATE 2-24-93 CP 1SP

CITY OF ALBUQUERQUE

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Karen Aragon
CITY CLERK RECORDER

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NORMETA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires May 6, 1996
Norma Sanchez

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

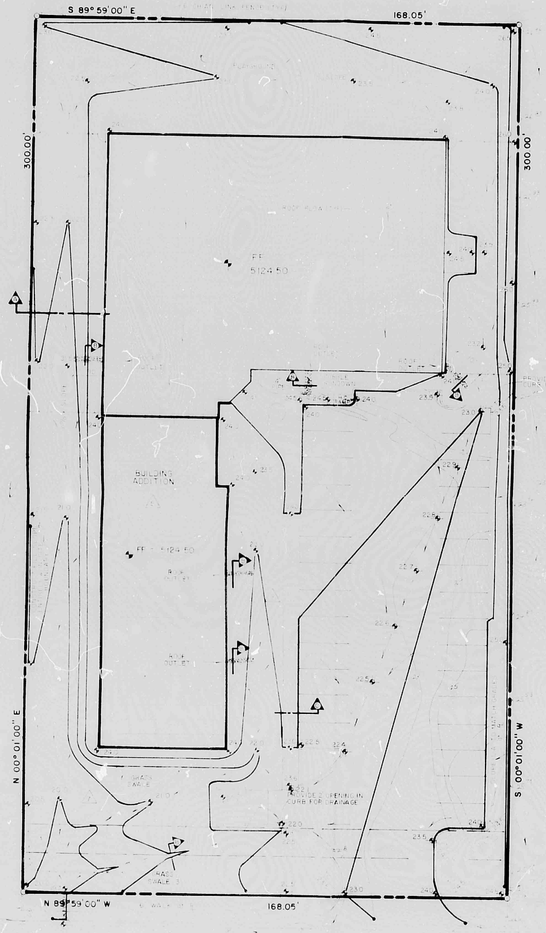
FILE DESC: F-17/0058

# PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F



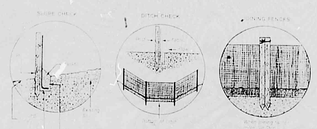

1" = 20'

SECTION A

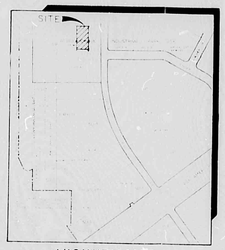
SECTION B

SECTION C

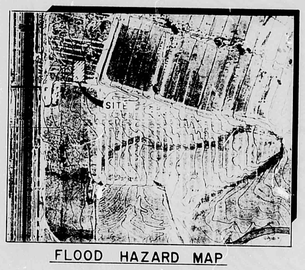
LEGEND



SILT FENCE DETAIL




VICINITY MAP




FLOOD HAZARD MAP

# MONTESSORI SCHOOL
## GRADING & DRAINAGE PLAN

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

REVISION | DATE
DESIGNED
DRAWN
CHECKED

SHEET OF

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NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires MAY 8 1985

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CITY OF ALBUQUERQUE

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