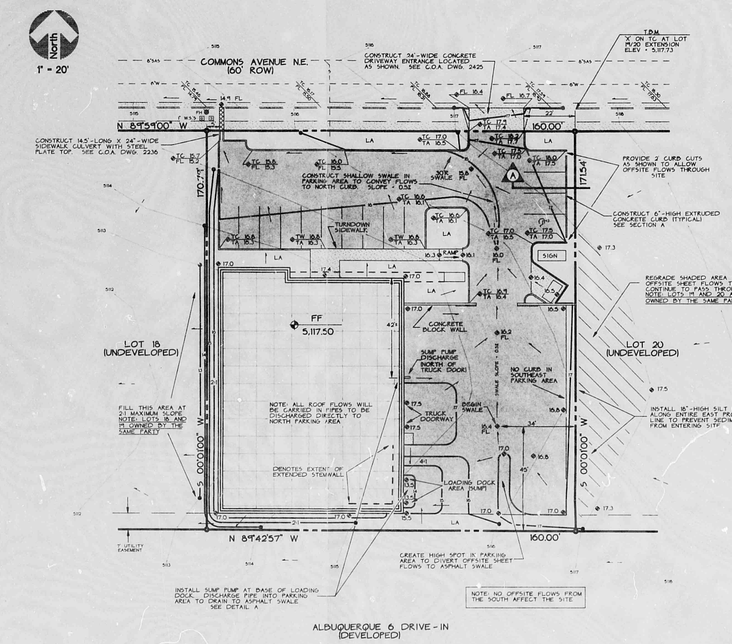
PUBLIC WORKS/HYDROLOGY

F17/D61G



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 HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALBUQUERQUE 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 OTHER UTILITIES WHICH COULD POTENTIALLY CONFLICT WITH THE CONSTRUCTION. CONTACT THE ENGINEER IN THAT THE CONFLICT CAN BE RESOLVED WITHIN A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO COLLECTOR 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. PRIOR TO ACCEPTANCE WILL BE REQUIRED PRIOR TO SIGN OFF FOR CERTIFICATE OF OCCUPANCY (C.O.).

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: Bernard J. Montoya 4/11/91
HYDROLOGY SECTION — DATE

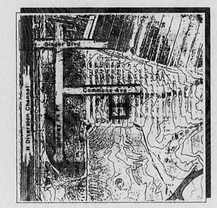
INSPECTION APPROVAL: _____
CONSTRUCTION SECTION — DATE

ACCEPTANCE: _____
CONSTRUCTION SECTION/PERMITS — DATE

HYDROLOGY APPROVAL & INSPECTION

APPROVED: B. Montoya — DATE 4/11/91
ENGINEER
INSPECTION REQUESTED DATE _____
APPROVAL DATE _____ DISAPPROVED _____
DISAPPROVAL DATE _____
SURVEY DATE _____
HYDROLOGY BOOK NO / PAGE NO. _____
CHECKED BY _____
NOTES: 1. Bldg Floor 2. Drawing Dim. of Bldg Floors, 3 & 4 Not Drawn

VICINITY MAP F-17



FLOOD HAZARD MAP
N

GENERAL NOTES:

LEGAL: LOT 19, JEFFERSON COMMONS, ALBUQUERQUE, NEW MEXICO

SURVEYOR: RONALD FORSTHALER SURVEYING, ALBUQUERQUE, NEW MEXICO

B.M.: SC 27 / 28 / 34 / 35 — A STANDARD BLM BRASS CAP SET IN CONCRETE PROJECTING 12" ABOVE THE GROUND. LOCATED APPROXIMATELY 350' NORTHWEST OF THE INTERSECTION OF COMMONS AVE. AND MIDWAY PARK BLVDS. NE. ELEVATION = 5,110.41

T.B.M.: 'X' ON TOP OF CURB AT THE EXTENSION OF LOTS 19/20 LOT LINE. ELEVATION = 5,117.73

SCOPE:

THE SITE IS AN UNDEVELOPED LOT LOCATED WITHIN THE JEFFERSON COMMONS SUBDIVISION. THE GROUND SLOPES WESTERLY AT 2-1/2%.

PROPOSED IMPROVEMENTS FOR THE SITE INCLUDE AN 8,000 SF SLAB-ON-GRADE BUILDING, AN ASPHALT-PAVED PARKING AREA AND ASSOCIATED WALKS AND LANDSCAPED AREAS.

FREE DISCHARGE OF DEVELOPED FLOWS INTO COMMONS AVENUE NE IS ALLOWED AS ESTABLISHED BY THE MASTER DRAINAGE/GRADING PLAN FOR JEFFERSON COMMONS (APPROVED JANUARY 1990 AND REVISED AUGUST 1990). FLOWS WILL BE CARRIED IN THE PARKING AREAS TO THE NORTHWEST CORNER OF THE SITE AND DISCHARGED INTO COMMONS AVENUE THROUGH A PAIR OF 3'-STANDARD SIDEWALK CULVERTS. TEMPORARY OFFSITE FLOWS FROM THE UNDEVELOPED LAND EAST OF LOT 19 (26 CFS) WILL BE SIMILARLY ROUTED THROUGH THE SITE.

A DEPRESSED AREA SERVING AS A LOADING DOCK APPROACH WILL BE LOCATED NEAR THE SOUTHEAST CORNER OF THE BUILDING. PARKING AREA RUNOFF THAT ACCUMULATES IN THE LOW SPOT WILL BE COLLECTED IN A SUMP AND PUMPED BACK INTO THE PARKING AREA AS SHOWN ON THE PLANS.

CALCULATIONS:

AREA OF SITE: 27,366 SF = 0.63 AC.

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

Q_{100} = (0.81)(4.55)(0.63) = 2.4 CFS

Q_{100} AT DISCHARGE POINT (MASTER PLAN, UNDEVELOPED, AREA D)

Q_{100} = (0.4)(3.65)(0.63) = 1.2 CFS

OFFSITE FLOWS AFFECTING SITE:
(TO BE ROUTED TO COMMONS AVE. WHEN LOTS 20 AND 21 ARE DEVELOPED)

Q_{100} = (0.4)(1.65)(4) = 2.6 CFS

TOTAL FLOWS AT DISCHARGE POINT FROM SITE:

Q_{100} = 2.4 CFS (LOT 19 DEV) + 2.6 CFS (OFFSITE) = 5.0 CFS

FLOW CAPACITY OF SIDEWALK CULVERT:

PER MANNING'S EQUATION, A 24"-WIDE CONCRETE CHANNEL AT SLOPE = .25 AND N = 0.015 CARRIES A MAXIMUM FLOW RATE OF 5 CFS AT A DEPTH OF 5", WHICH IS ADEQUATE.

SUMP PUMP CALCULATION:

AREA DRAINING TO SUMP = APPROXIMATELY 1,750 SF = 0.04 AC.

Q_{100} = (0.95)(4.65)(0.04) = 0.2 CFS

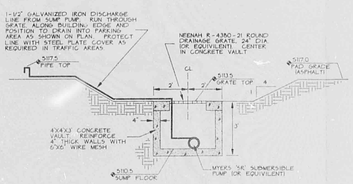
V_{100} = (0.2)(5.9)(60) = 300 CF/75 GAL/CFI = 2,250 GALLONS

FROM SUMP PUMP CURVES, MYERS 5HC SUMP PUMP, 70 GPM AT 7' HEAD REQUIRES APPROXIMATELY 30 MINUTES TO PUMP DRY.

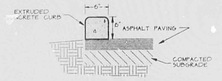
RECEIVED
APR 4 1991
HYDROLOGY DIVISION

LEGEND

- SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)
- PROPOSED ASPHALT
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- x 65.1 — EXISTING SPOT ELEVATION
- 90 — EXISTING CONTOUR
- 75.2 — PROPOSED SPOT ELEVATION
- 90 — PROPOSED CONTOUR
- SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
- LA — LANDSCAPED AREA
- TGW — TOP OF GRADE WALL (< 18" HIGH)
- TKW — TOP OF RETAINING WALL (> 18" HIGH)
- TA — TOP OF ASPHALT
- TC — TOP OF CURB
- FL — FLOW LINE
- FF — FINISHED FLOOR
- R/W — RIGHT OF WAY
- PL — PROPERTY LINE
- PP — POWER POLE



DETAIL A
LOADING RAMP SUMP PUMP (LOOKING EAST)



GENERAL NOTES
1. PROVIDE EXPANSION JOINTS AT 10' O.C. MAX.
2. PROVIDE EXPANSION JOINTS ADJACENT TO BUILDINGS, WALLS AND CURB RETURNS.
3. EDGES SHOULD BE REMOVED WITH 1/4" EDGING TOOL.

SECTION A
EXTRUDED CONCRETE CURB

REVISIONS
DESIGNED SJC
DRAWN SJC
CHECKED CJW

WEISS-HINES ENGINEERING INC.
1120 ALVARADO NE
PHONE (505) 265-3344
ALBUQUERQUE, NEW MEXICO 87110

MESA EQUIPMENT AND SUPPLY CO.
JEFFERSON COMMONS LOT 19
DRAINAGE / GRADING PLAN

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER J. WEISS
NEW MEXICO
5679
PROFESSIONAL ENGINEER

SHEET 1 OF 1

R# 35 DATE 3-19-92 OP EDP

CITY OF ALBUQUERQUE

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS1A2-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
07/02/92

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

FILE DESC: F17/D61G

PLANS/PLATS 1

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

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DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: Beverly J. Montoya 4/11/91

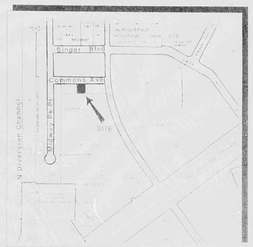
INSPECTION APPROVAL: CONSTRUCTION ENGINEER — DATE

ACCEPTANCE: CITY ENGINEER OR AUTHORIZED REPRESENTATIVE — DATE

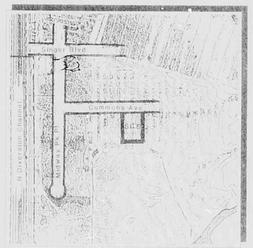
CONSTRUCTION

B. Montoya 4/11/91

1. Silt Fence 2. Grading for of Surface Flows, 3 LS No. 1/4 4. Roof Drains



VICINITY MAP F-17



FLOOD HAZARD MAP

N

GENERAL NOTES

SCOPE

CALCULATIONS

LEGEND

MESA EQUIPMENT AND SUPPLY CO.
JEFFERSON COMMONS LOT 19
DRAINAGE / GRADING PLAN

WEISS-HINES
ENGINEERING INC.

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R# 55 DATE 3/19/02 OF 57

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
07/07/02

APR 4
HYDROLOGY DIV.

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D