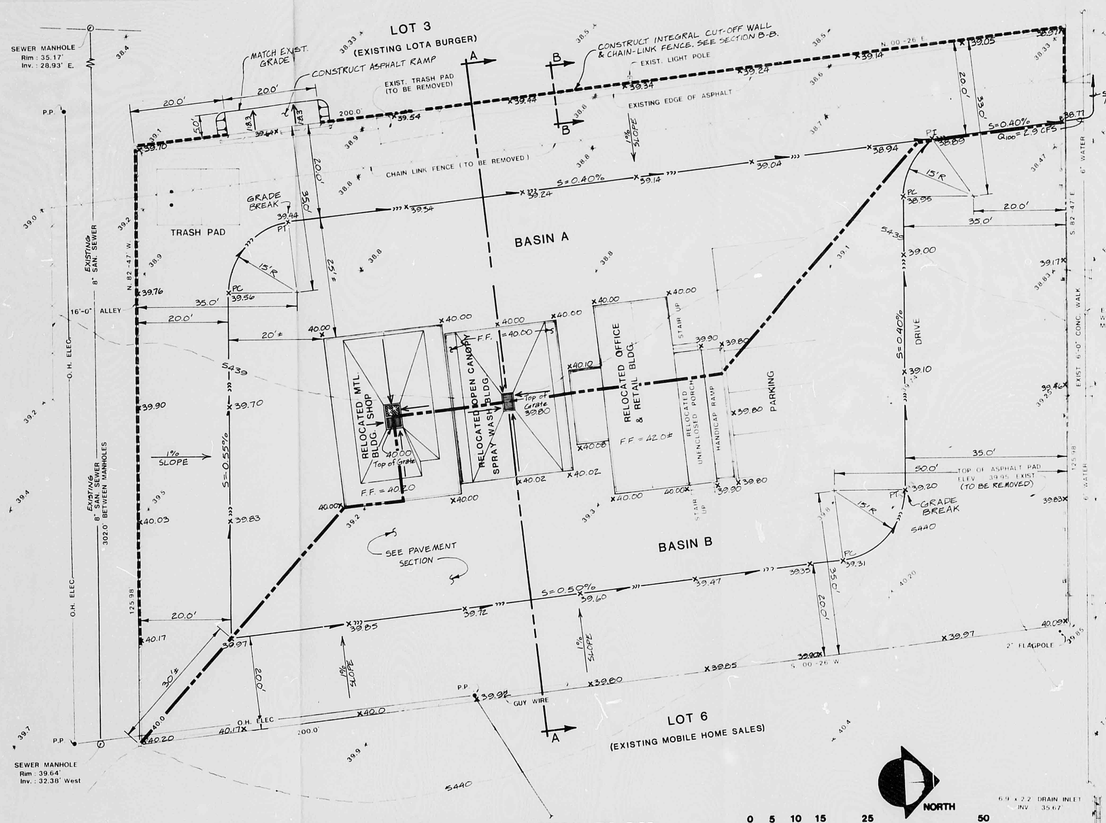
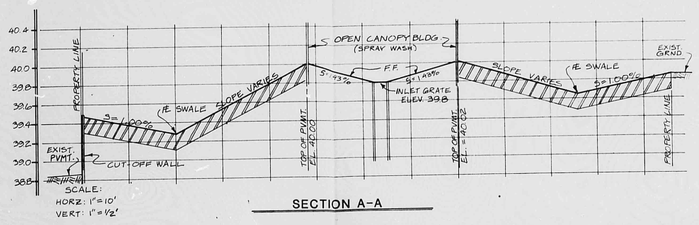
PUBLIC WORKS/HYDROLOGY

L20/D24

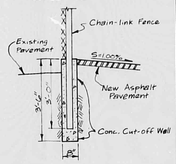


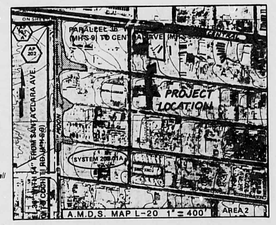
1/2-2 SITE DRAINAGE & PAVING PLAN



SECTION A-A

SECTION B-B
INTEGRAL CUT-OFF WALL & CHAIN-LINK FENCE
SCALE = 1/2" = 1'





GENERAL NOTES:

1. Mountain Bell located in sidewalk 70'-0" East from Northeast corner of property line.
2. 6"x2.2" Drum Drain Inlet at street curb with FL = 36.20 & Inv = 31.20' located 94.2' West of Northwest corner of property line. All on site drainage shall discharge into this inlet.
3. Fire hydrant located at South edge of sidewalk 201.6' West of Northwest corner of property line.
4. Legal: Lots 4&5, Block 3, Skyline Heights Addition
5. Zone C, minimal flooding area. FEMA map # 350002 0036 C.
6. Top of pavement elevation within Lots 4&5 at South Right-of-Way line of Central Avenue to be Min. 0.33' higher than existing adjacent top of curb.
7. Lots 4&5 shall not have any on site ponding.
8. The improvements to Lots 4&5 do not increase the 100 year frequency flow from on site to the existing drainage facilities, therefore no impact is anticipated on the public drainage system.

LEGEND

- Basin Boundary Line
- Proposed Cut-off Wall
- Property Line
- 5440 — Existing Contour
- Proposed Drainage Swale Flow line
- * 39.1 — Existing Spot Elevation
- x 39.60 — Proposed top of pavement Spot Elevation

DRAINAGE CALCULATIONS

AREA:

$A = ab\sin\theta$ (parallelogram)

$a = 125.98'$ $b = 200.00'$ $\theta = 83°15'00" = 83.2167°$

$A = 125.98' \times 200.00' \times \sin 83.2167°$

$= 25,018.25\ ft^2 = 0.5744\ Ac$

Basin A = 0.2856 Ac (by planimeter)

Basin B = 0.5744 − 0.2856 = 0.2888 Ac

RAINFALL:

$t_c = 10$ min. $Q_{100} = 2.4$ in. (Plate 22.2 D-1)

$i_{100} = Q_{100}/t_c = 2.4/10 = 0.24$ in/hr (Plate 22.2 D-2)

$Q_{100} = 2.4 \times 0.24 \times 10^{-3}$

$= 5.07$ in.

HISTORIC RUNOFF:

100% Impervious (bare ground & gravel)

C-factor = 1 (Plate 22.2 C-1)

$Q_{100} = C\,I\,A = 1 \times 5.07 \times 0.5744$

$= 2.91$ CFS

DEVELOPED RUNOFF:

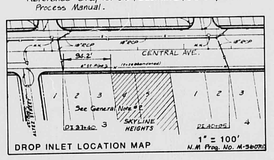
100% Impervious (roofing & asphalt paving)

Basin A $Q_{100} = 1 \times 5.07 \times 0.2856 = 1.45$ CFS

Basin B $Q_{100} = 1 \times 5.07 \times 0.2888 = 1.46$ CFS

Total Runoff $= 2.91$ CFS

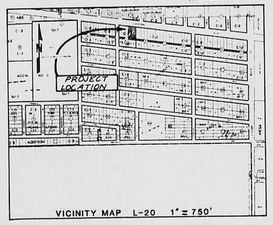
Reference: Chapter 22, Section 2, Development Process Manual.



DROP INLET LOCATION MAP

TYPICAL PARKING LOT PAVEMENT SECTION
N.T.S.

RECEIVED JAN 18 1985 HYDROLOGY SECTION



VICINITY MAP L-20 1" = 750'

CENTRAL AVENUE, S. E.

Benchmark Data: ACS 5-K20 Elevation 5427.562 Located in N.E. Quad. of Int. Central Ave. & Moon Ave. at Top of Curb.

G. W. Walker & Company
Phone: (505) 268-4551
150 Louisiana N.E.
Albuquerque, New Mexico 87108

ALBUQUERQUE CAMPER CORRAL BUILDING RELOCATION

9804 EAST CENTRAL AVENUE
ALBUQUERQUE, NEW MEXICO

job no. 0640918
dwn. by CLB
app. by CLB
date 1/3/85
revisions

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SHT #: 2-2
OF

RI 58 DATE 3-26-02 OP EJP

CITY OF ALBUQUERQUE

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DIRECTOR

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PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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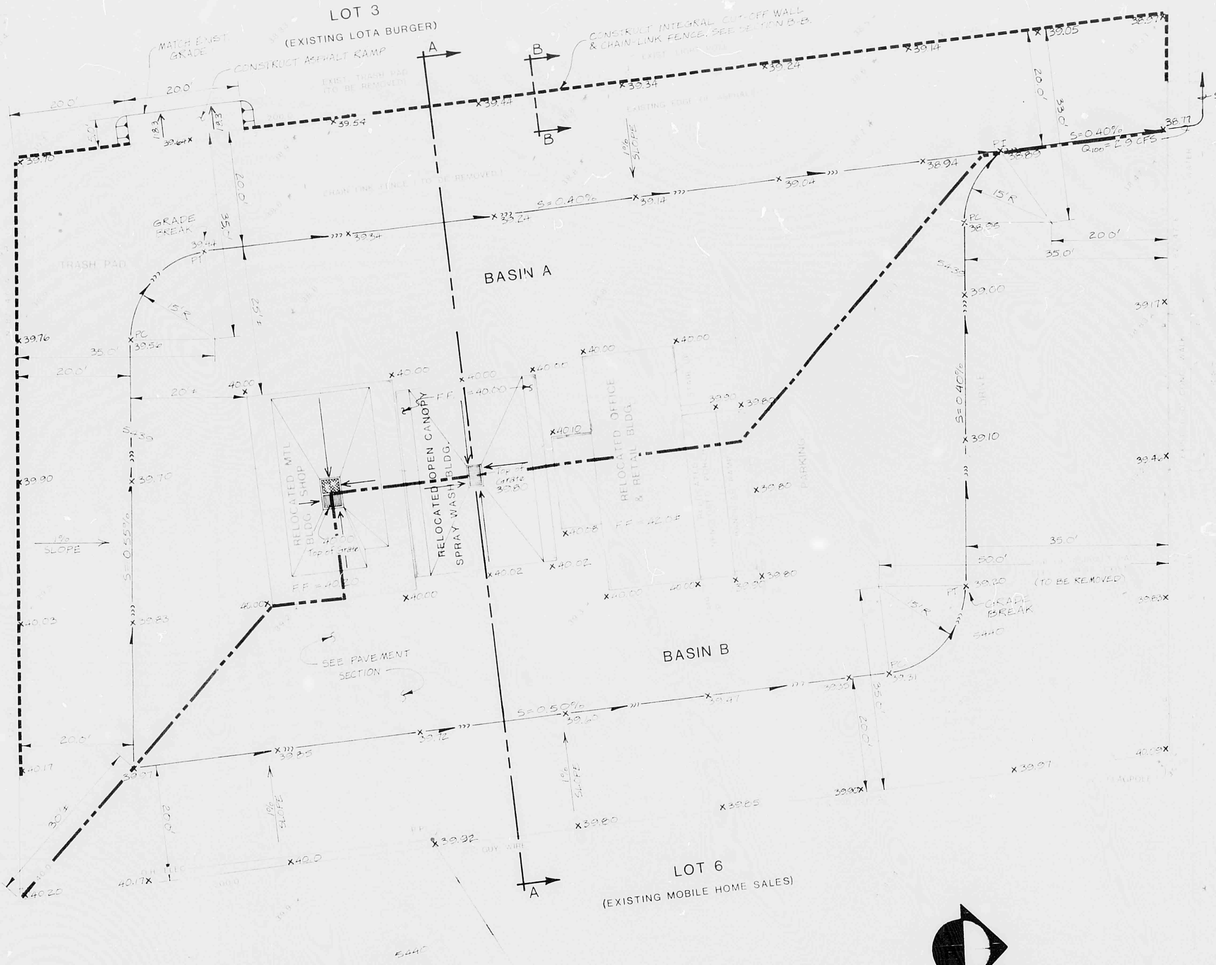
PLANS/PLATS ON FILE

FILE DESC: L20/D24

PLANS/PLATS 1

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



1/2-2 SITE DRAINAGE & PAVING PLAN

SCALE : 1" : 10'-0"

GENERAL NOTES:

1. Mountain Bell locates in sidewalk 10'-0" East from Northeast corner of property line.
2. & 3. Proposed Drainage Inlet at target curb with FL = 39.20 & Inv. = 37. locate 6.0±2' West of Northwest corner of property line. All on site drainage shall discharge into this inlet.
3. Fire hydrant located at South edge of sidewalk 20.16' West of Northwest corner of property line.
4. Legal: Lots 4&5, Block 3, Skyline Heights Addition.
5. Zone C, minimal flood insurance FEMA map #
6. Top of pavement elevation at corner of Lots 4 & 5 at curb line East of Skyline of Central Avenue to be Min. 0.33' higher than existing adjacent top of curb.
7. Lots 4 & 5 shall not have any on site ponding.
8. Tree improvements to Lots 4&5 do not increase the 100 year frequency flow from on site to the existing drainage facilities, therefore no impact is anticipated on the public drainage system.

LEGEND

- Basin Boundary Line
- Proposed Cut-off Wall
- Property Line
- 5440 Existing Contour
- Proposed Drainage Swale Flow line
- × 39.1 Existing Spot Elevation
- × 39.40 Proposed top of pavement Spot Elevation

DRAINAGE CALCULATIONS

AREA

$A = ab\sin\theta$ (parallelogram)

$a = 126.94'$ $b = 200.00'$ $B = 83°13'00" = 83.216°$

$A = 126.94 \times 200.00 \times \sin 83.216°$

$= 25,019.6 \times 0.9914$ $= 0.5744$ Ac.

Basin A = 0.2886 Ac. (by planimeter)

Basin B = 0.5744 − 0.2886 = 0.2858 Ac.

RAINFALL:

$T_c = 10$ min. $Q_{100} = 2.4$ in. (Plate 22.2 D-1)

$I_{100} = Q_{100}$ in 24 T_c (Plate 22.2 D-2)

$= 2.4 \times 4.2$ $= 10.08$

$= 5.07$ in.

HISTORIC RUNOFF:

100% Impervious (bare ground & gravel)

C factor = 1 (Plate 22.2 C-1)

$Q_{100} = C\,I\,A = 1 \times 5.07 \times 0.5744$

$= 2.91$ CFS

DEVELOPED RUNOFF:

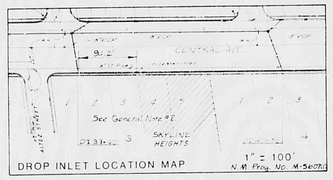
100% Impervious (roofing & asphalt paving)

Basin A $Q_{100} = 1 \times 5.07 \times 0.2886 = 1.46$ CFS

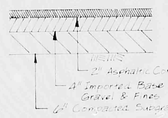
Basin B $Q_{100} = 1 \times 5.07 \times 0.2858 = 1.45$ CFS

Total Runoff = 2.91 CFS

Reference: Chapter 22, Section 2, Development Process Manual.

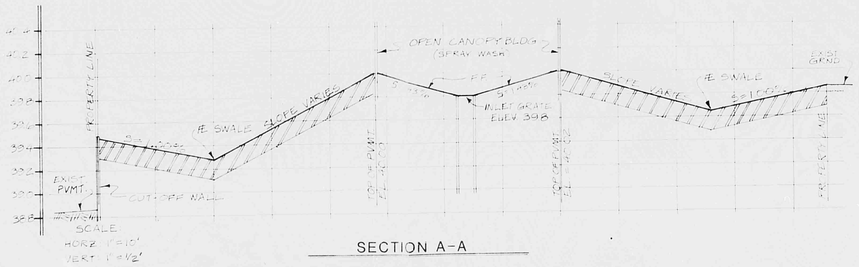


DROP INLET LOCATION MAP



TYPICAL PARKING LOT PAVEMENT SECTION

N.T.S.

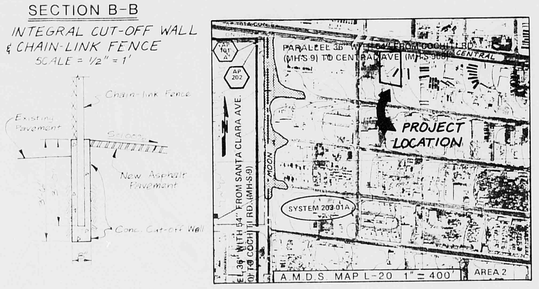


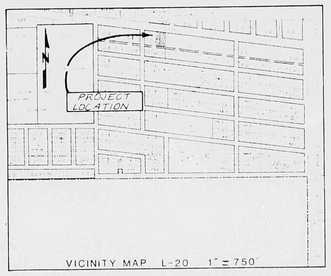
SECTION A-A

SECTION B-B

INTEGRAL CUT-OFF WALL & CHAIN-LINK FENCE

SCALE = 1/2" = 1'





VICINITY MAP L-20 1" = 750'

RECEIVED JAN 18 1985 HYDROLOGY SECTION

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87108

ALBUQUERQUE CAMPER CORRAL
BUILDING RELOCATION
9804 EAST CENTRAL AVENUE
ALBUQUERQUE, NEW MEXICO

1/7/85

Benchmark Data:
ACS 5-K20
Elevation 5427.062
Located in N.E. Quad. of Int. Central Ave. & Moon Ave. at Top of Curb.

job no. 0640918
dwn. by CLB
app. by CLB
date 1/3/85
revisions

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SHT # : 2-2 OF

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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