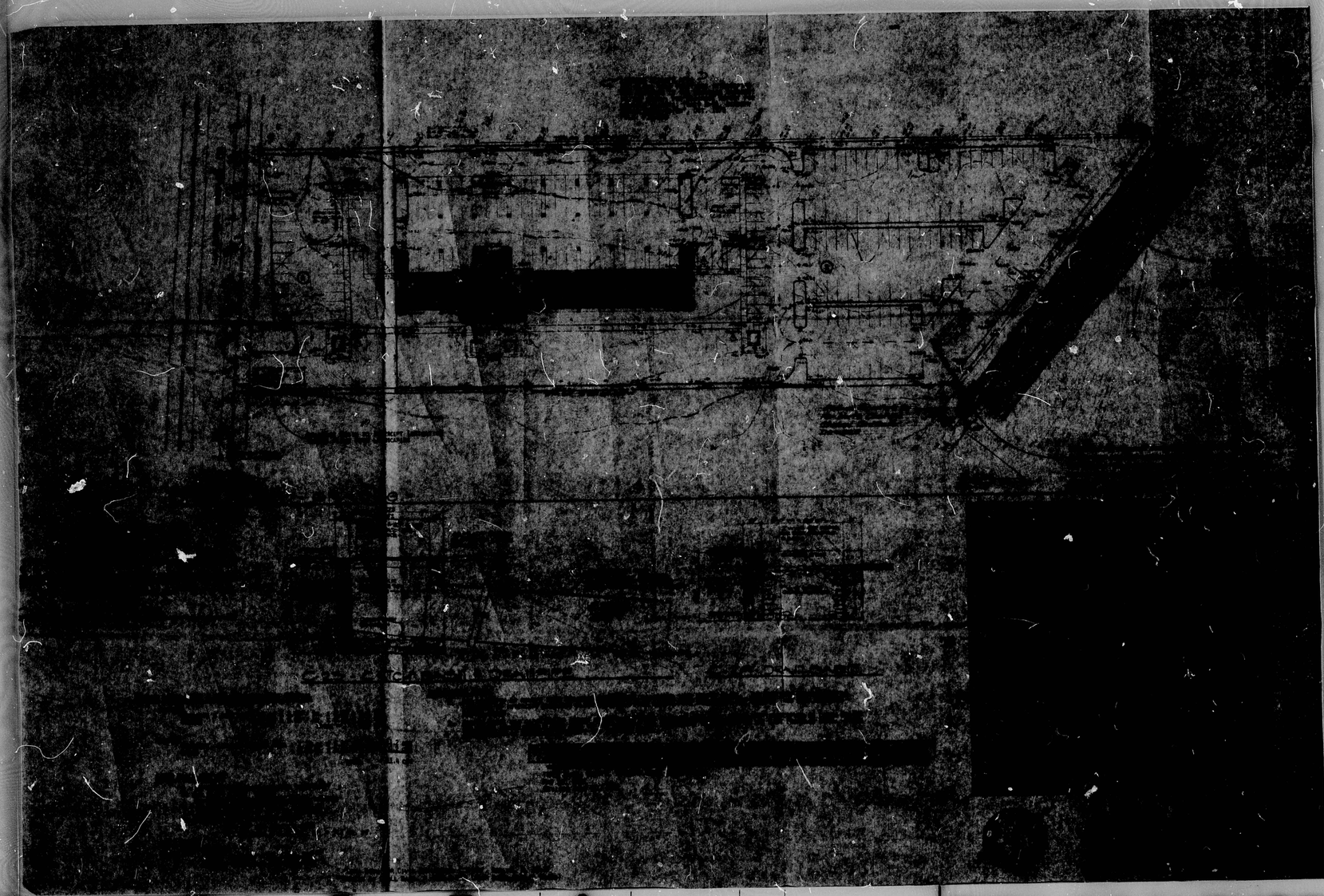
PUBLIC WORKS/HYDROLOGY

E18/D27



R1 DATE 3-15-12 OR

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FLAS SHOT TWICE
ONCE OF LIGHT
ONCE OF DARK

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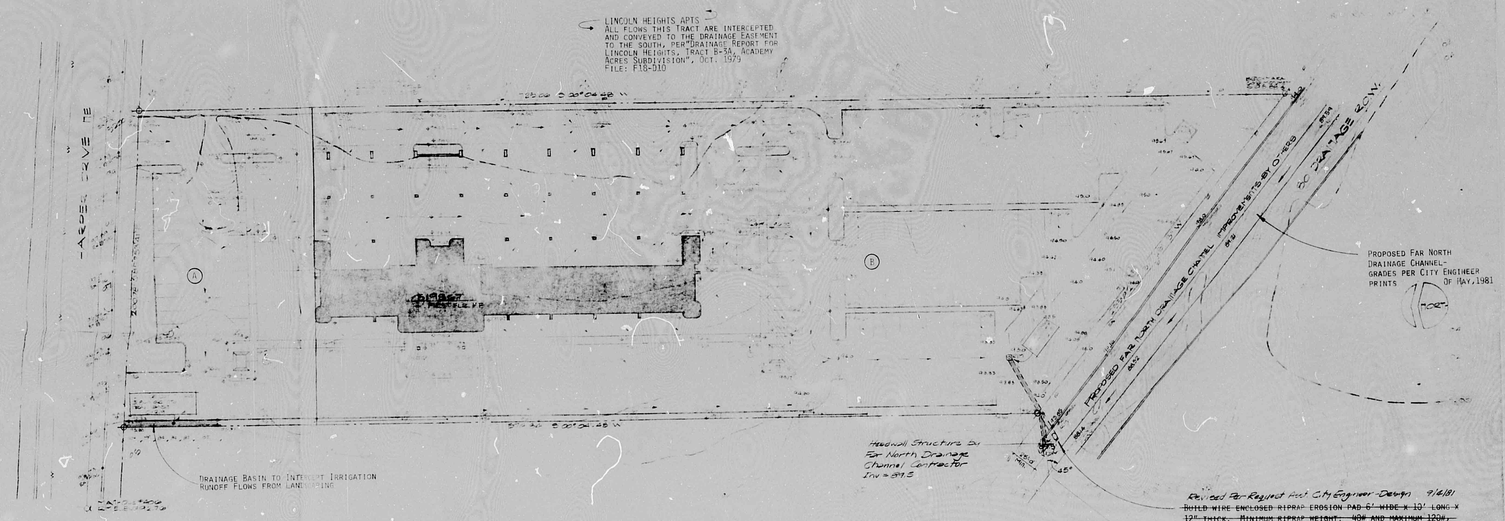
PLANS/PLATS ON FILE

FILE DESC: E18/D27

PLANS/PLATS 2

E D C B A

CITY OF ALBUQUERQUE C F



RUNOFF CALCULATIONS - 100 YEAR FREQUENCY RAINFALL

AREA (A)
CONCRETE & ASPHALT: 0.42 AC X 5.85"/ HR. X 0.90 = 2.2 CFS
GRASS: 0.12 AC X 5.85"/ HR. X 0.12 = 0.1 CFS
TOTAL = 2.3 CFS

AREA (B)
CONCRETE, ASPHALT & ROOF AREA : 2.12 AC X 5.85 X 0.90 = 11.2 CFS
GRASS : 0.34 AC X 5.85 X 0.12 = 0.2 CFS
TOTAL = 11.4 CFS

CATCH BASIN GRATING

Q = CA (2GH) X CLOGGING FACTOR (USE 2/3)*
OR A = Q ÷ (C(2GH) X 2/3)
C= 0.6, OPENINGS WITH SQUARE CORNERS
A = 11.4 ÷ (0.6 (64.4 X 1.0) X 2/3)
= 3.6 SQUARE FEET OF GRATING OPENING
SELECTION: NEENAH # R-1897-A106
36"x 36" NET GRATING AREA
108 OPENINGS @ 4.88 SQ. IN. = 3.7 SQ. FT.

DRAIN PIPE:
CHECK 24" CMP
INLET CAPACITY = 12.2 CFS, OK**
BARREL CAPACITY =20.0 CFS, OK*

* "DATA BOOK FOR CIVIL ENGINEERS, DESIGN", SEELYE, P. 18-27
**DESIGN OF SMALL DAMS, P. 566 & 568 (FROM BUREAU PUBLIC ROADS)

EXPLANATORY NOTES

1. THE MAJORITY OF RUNOFF FROM DRAINAGE AREA (A) WILL DISCHARGE INTO HARPER DRIVE. THE DRAINAGE BASIN SHOWN IS INTENDED TO INTERCEPT NUISANCE FLOWS PRIMARILY FROM LANDSCAPING IRRIGATION AND PREVENT THEM FROM ENTERING HARPER DRIVE.
2. HARPER DRIVE HAS CAPACITY TO ACCEPT STORM RUNOFF FROM DRAINAGE AREA (A). FLOWS ARE INTERCEPTED BY CATCH BASINS BEGINNING APPROXIMATELY 511' EAST OF THE PROPERTY AND CONTINUING TO THE WEST TO THE EAST FRONTAGE ROAD. STORM DRAIN SYSTEM IS DESIGNED TO ACCEPT THE 100 YEAR FLOW.

DRAINAGE PLAN FOR NORTHPOINTE PLAZA

TRACT B-4A, UNIT 5, ACADEMY ACRES SUBDIVISION
May 29, 1981
Revised JULY 10, 1981

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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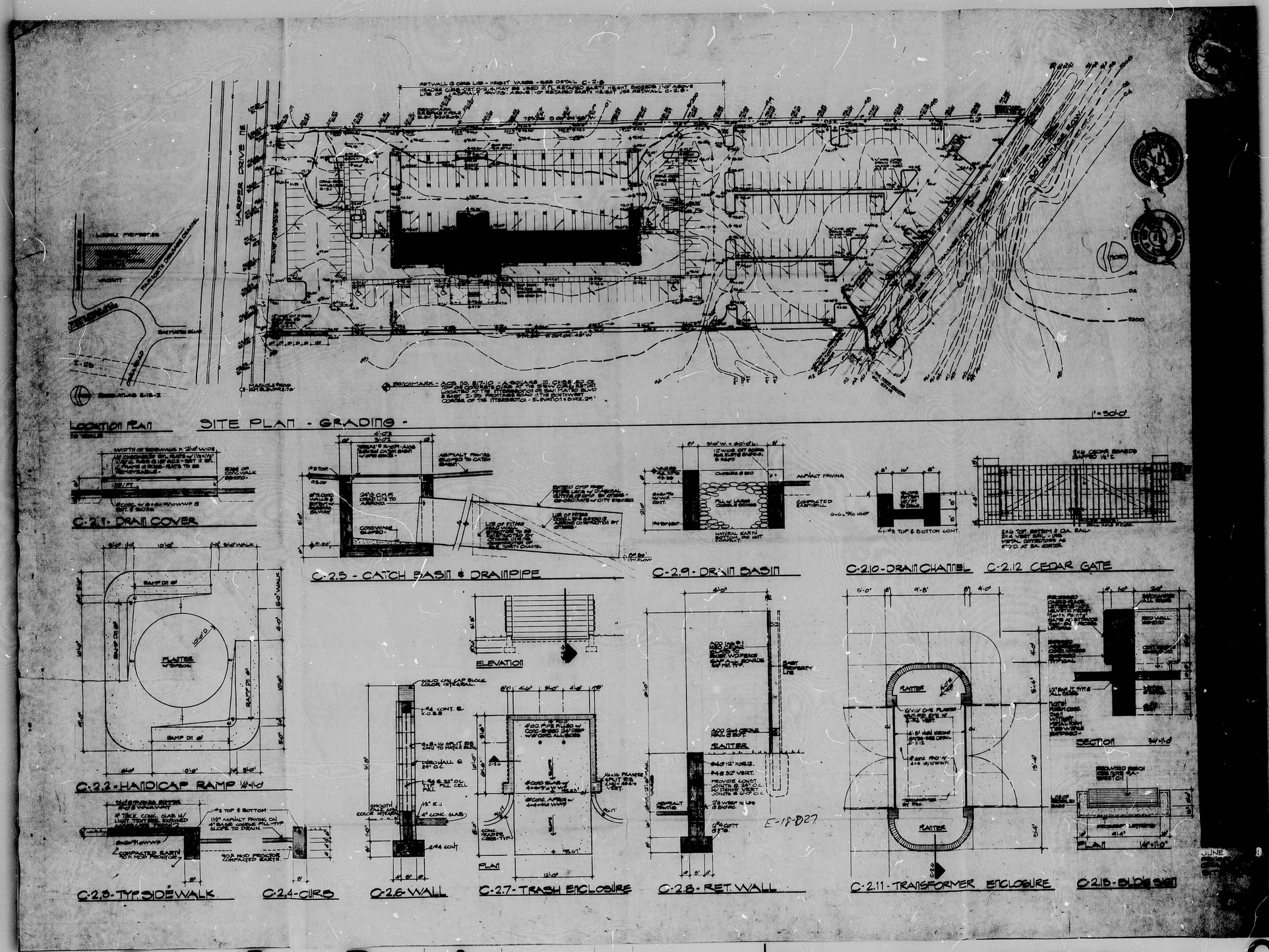
E 30 D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D F



PLAN SHOT TWICE
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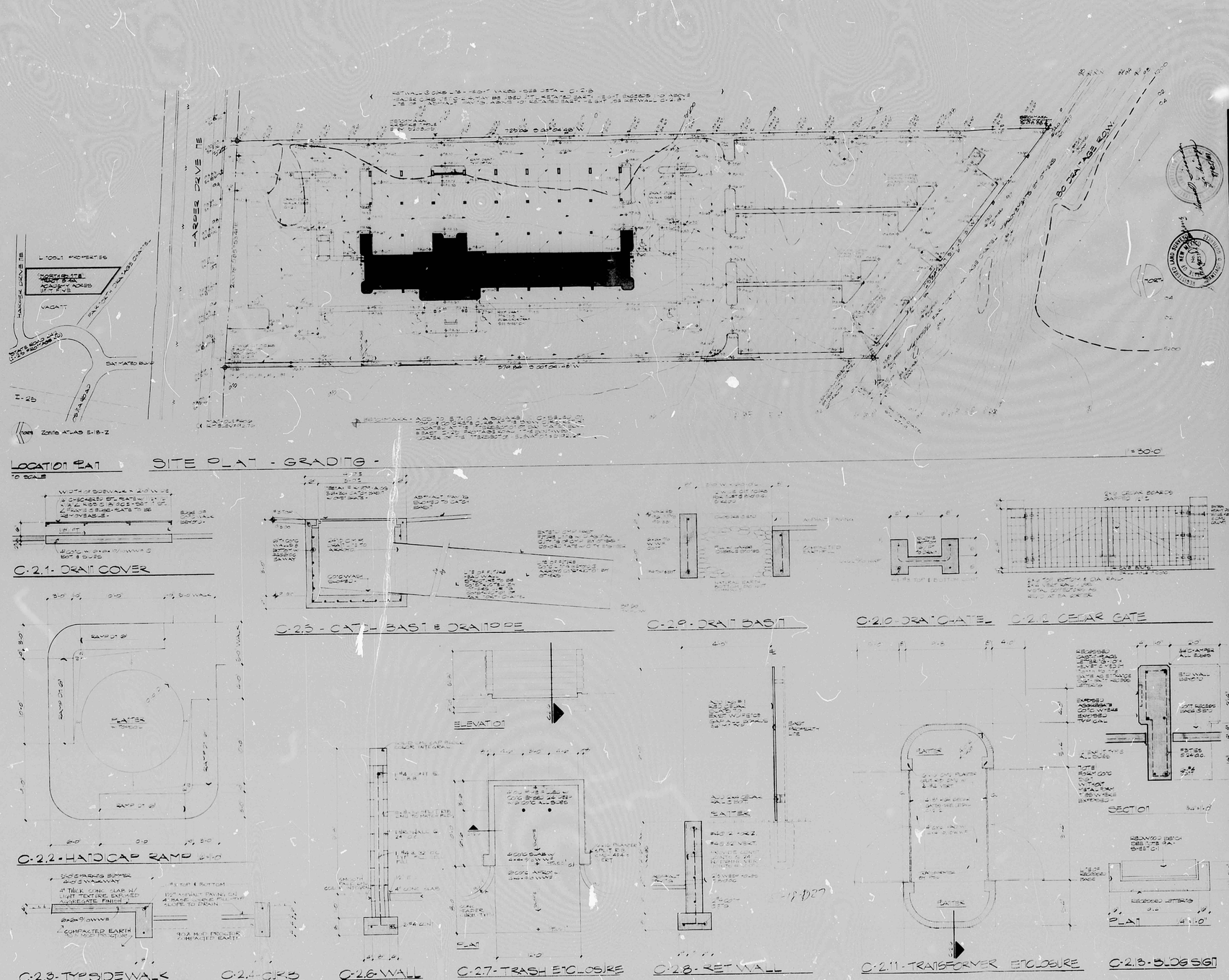
C D F



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C D F