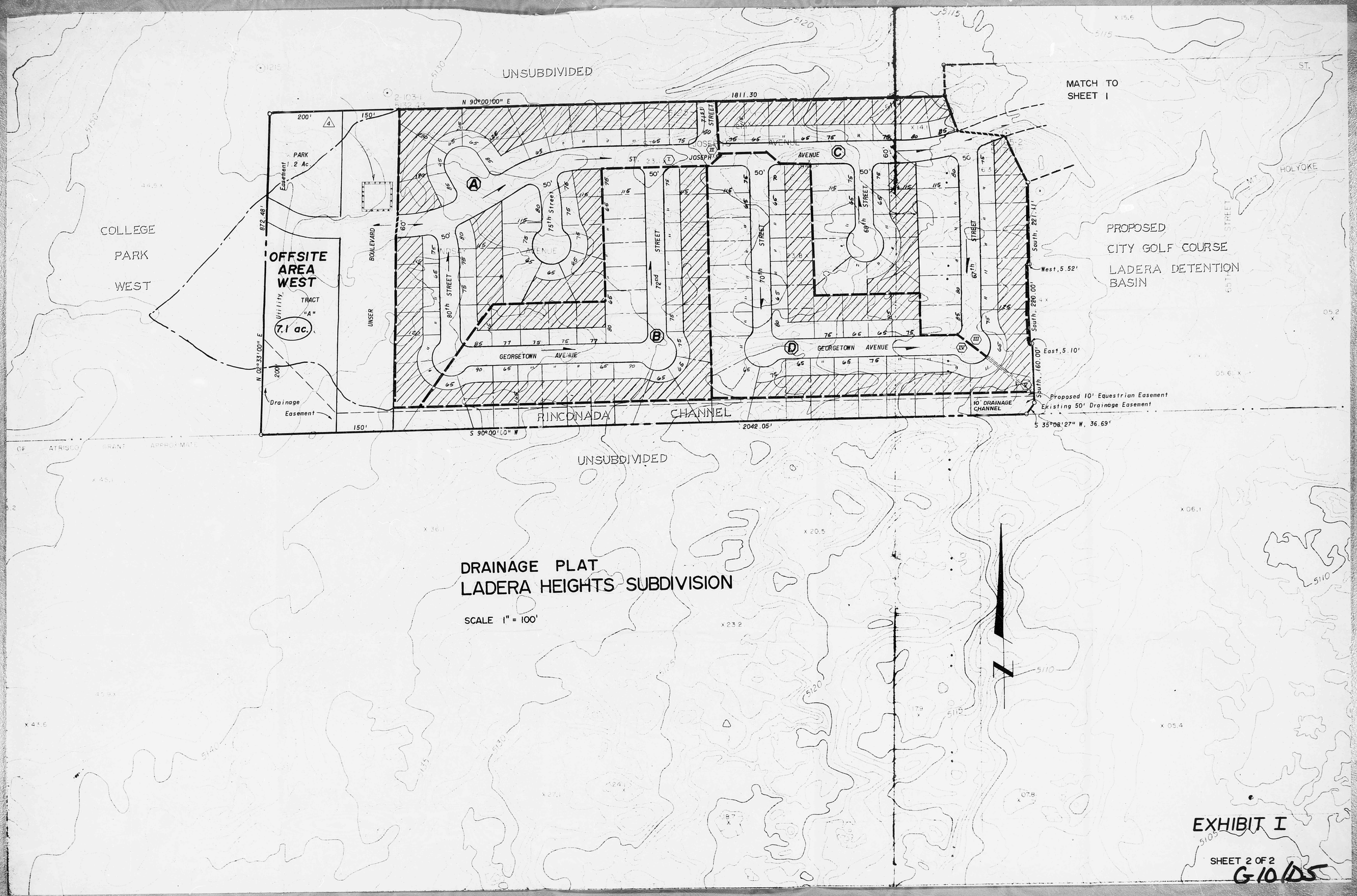
HYDROLOGY

G10/D5
FOUR PLAN

G 10-D5

4 PLANS


UNSUBDIVIDED
MATCH TO SHEET I
N 90°00'00" E
1811.30
200'
150'
PARK 1.2 Ac.
Easement
872.48'
N 02°33'00" E
OFFSITE AREA WEST
Utility TRACT "A"
7.1 ac.
UNSER BOULEVARD
COLLEGE PARK WEST
Drainage Easement
80th STREET
75th Street
72nd STREET
70th STREET
69th STREET
67th STREET
JOSEPH'S AVENUE
GEORGETOWN AVENUE
60'
50'
A
B
C
D
RINCONADA CHANNEL
S 90°00'00" W
2042.05'
10' DRAINAGE CHANNEL
South, 221.11'
West, 5.52'
South, 280.00'
East, 5.10'
South, 160.00'
Proposed 10' Equestrian Easement
Existing 50' Drainage Easement
S 35°08'27" W, 36.69'
PROPOSED CITY GOLF COURSE LADERA DETENTION BASIN
HOLYOKE
UNSUBDIVIDED
DRAINAGE PLAT
LADERA HEIGHTS SUBDIVISION
SCALE 1" = 100'
EXHIBIT I
SHEET 2 OF 2
G-10105

DRAINAGE PLAT
LADERA HEIGHTS SUBDIVISION

BEING A REPLAT OF COLLEGE PARK ADDITION - UNIT 2, SUMMARY REPLAT OF COLLEGE PARK - UNIT 1, AND COLLEGE PARK SOUTH

SCALE 1" = 100'

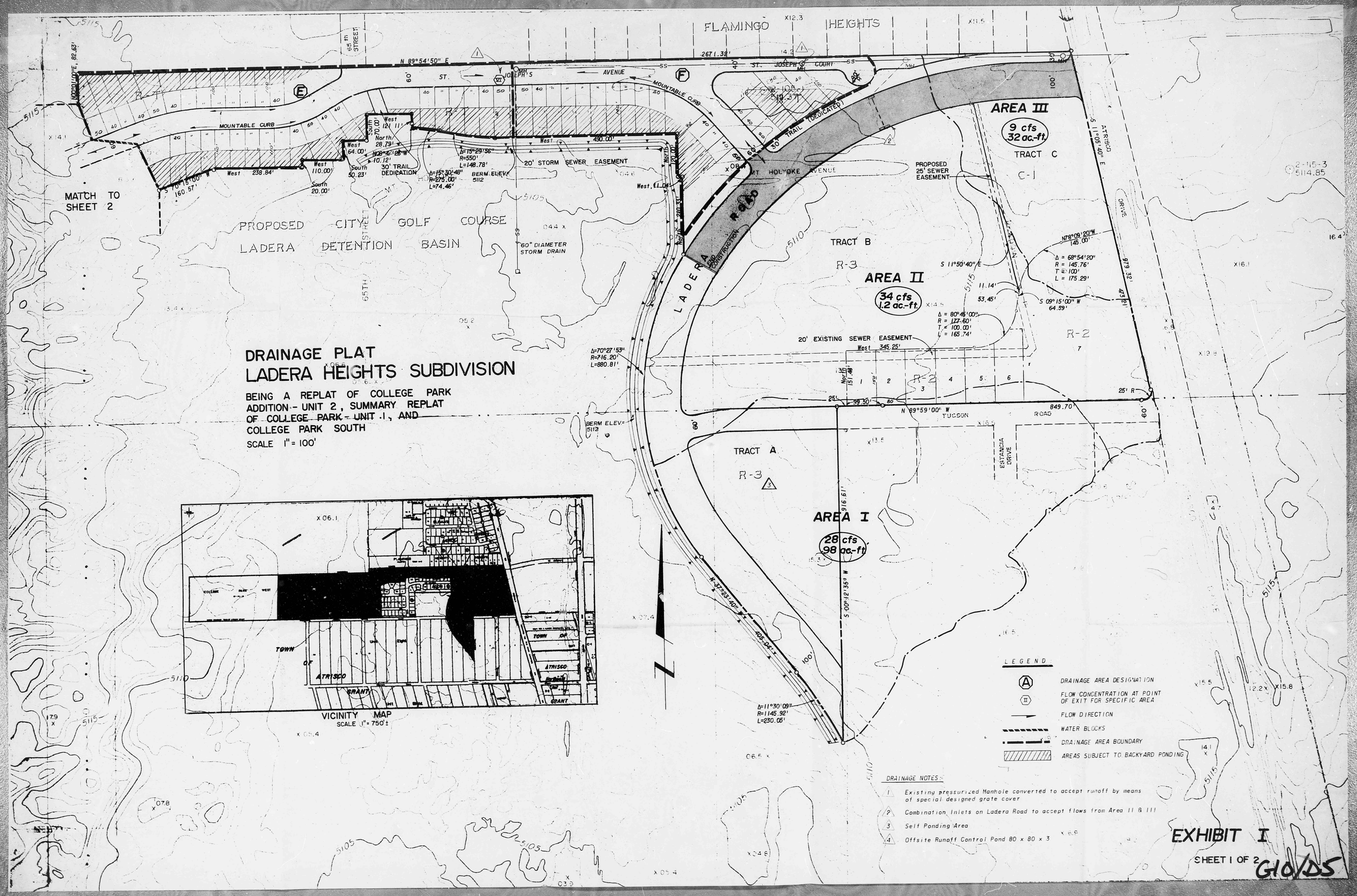
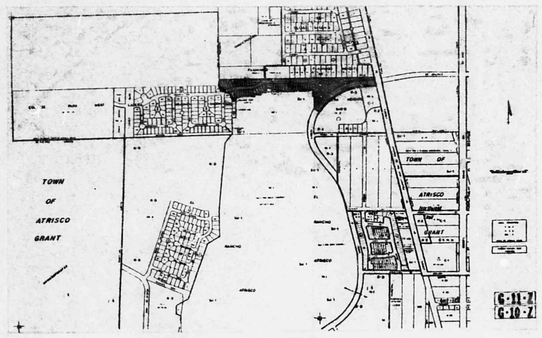


EXHIBIT I

SHEET 1 OF 2

G10/DS

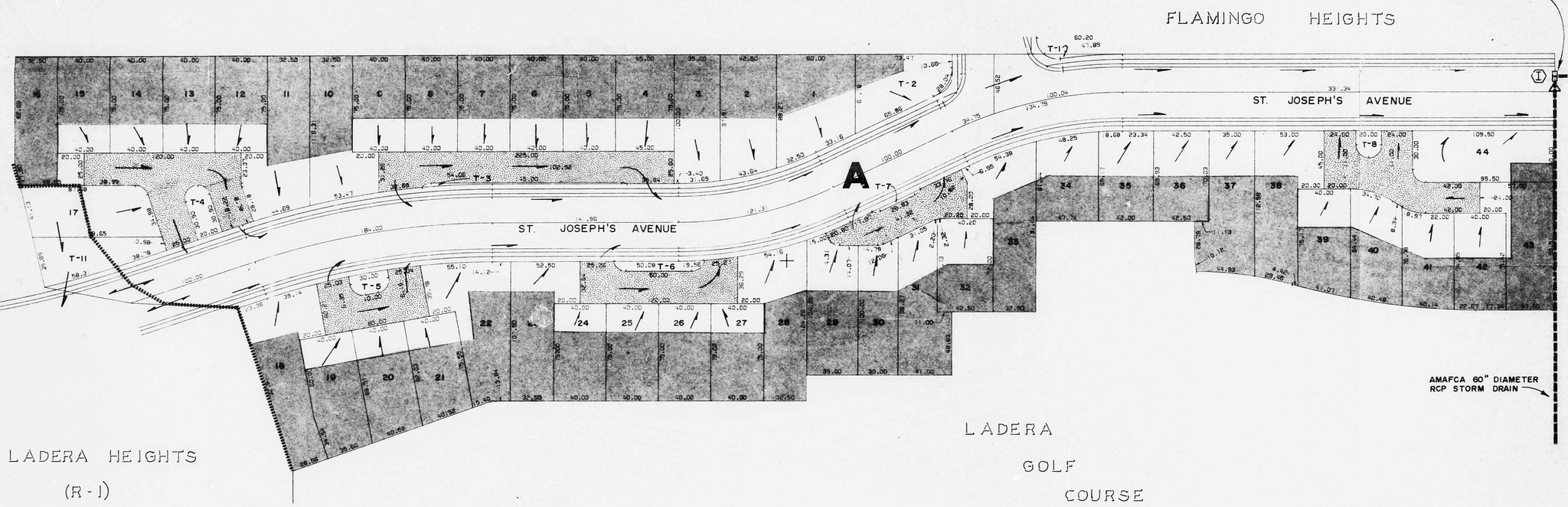


VICINITY MAP

LEGEND

- AREA TO POND 100%
- AMAFCA 60" DIAMETER STORM DRAIN
- FLOW DIRECTIONAL ARROWS
- A — DRAINAGE BASIN
- (I) — STUDY POINT
- DRAINAGE BASIN LIMITS

1" = 40'



CALCULATIONS AND NOTES

1. No offsite flow are accepted for this portion.
2. Drainage basin "A" (3.6 acres) to drain to drop inlet No. 1.
3. Determination of rate and volume at study point (I).
   a. $Q = CIA$, where $C = 0.65$
      $Q = (0.65)(5.25)(3.6)$
      $Q = 12.3$ cfs, Use 12 cfs
   b. $V = CDA$, where $D = 0.183'$
      $V = (0.65)(0.183)(3.6)(43560)$
      $V = 18,650$ cu. ft.

AS BUILT INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES
REFERENCES
MAP NO
EST NO
WO NO
NO.
BY
DATE
REMARKS
REVISIONS
DESIGN
DESIGNED BY
DRAWN BY
CHECKED BY
NO. DATE

CHAMBERS CAMPBELL ISAACSON CHAPLIN INC.

LADERA HEIGHTS TOWNHOMES

PLANS PREPARED UNDER THE DIRECTION OF

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

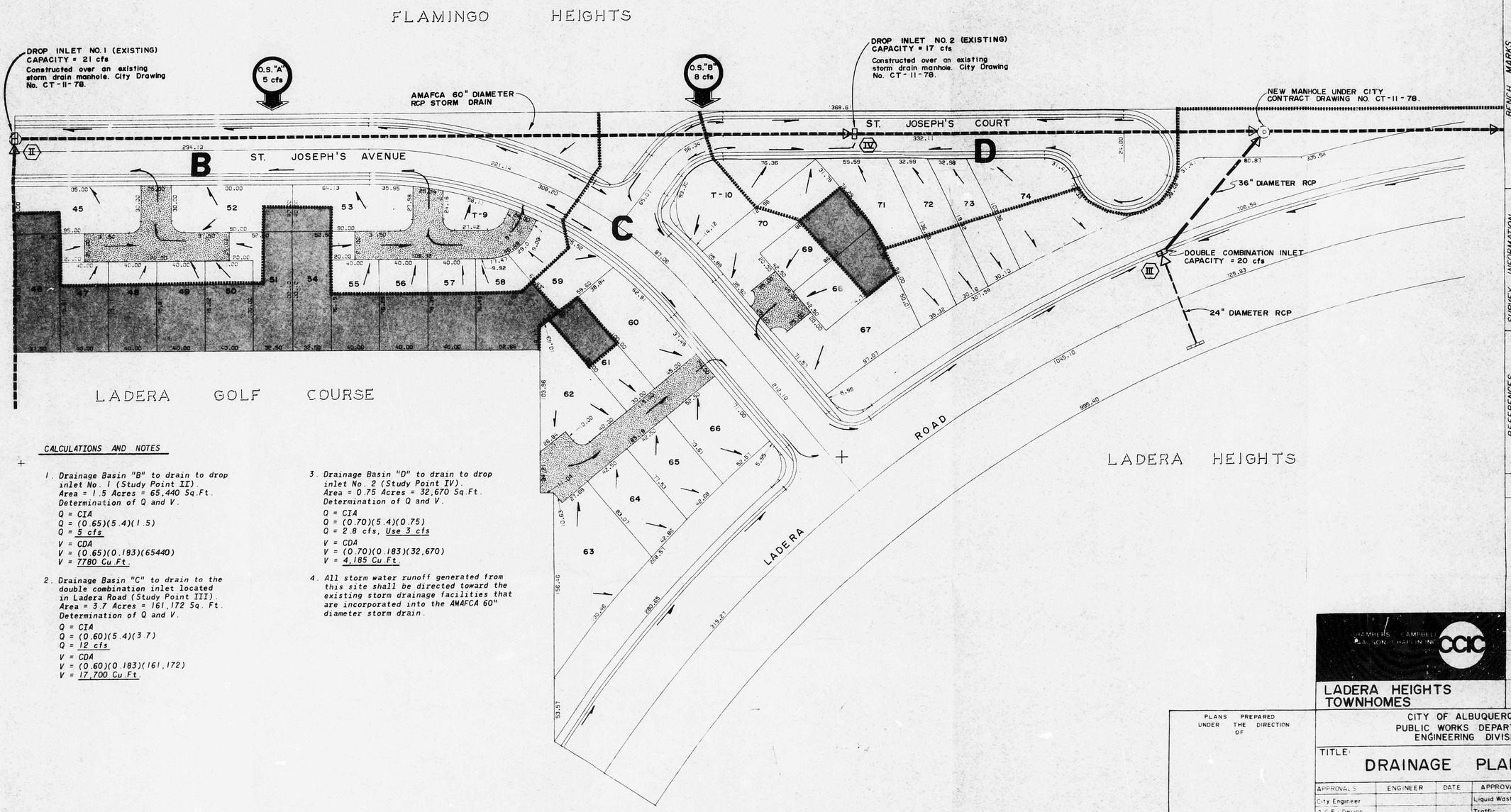
TITLE: DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO

SHEET 1 OF 2

G10/D5



CALCULATIONS AND NOTES

1. Drainage Basin "B" to drain to drop inlet No. 1 (Study Point II).
   Area = 1.5 Acres = 65,440 Sq.Ft.
   Determination of Q and V.
   Q = CIA
   Q = (0.65)(5.4)(1.5)
   Q = 5 cfs
   V = CDA
   V = (0.65)(0.183)(65440)
   V = 7780 Cu.Ft.

2. Drainage Basin "C" to drain to the double combination inlet located in Ladera Road (Study Point III).
   Area = 3.7 Acres = 161,172 Sq. Ft.
   Determination of Q and V.
   Q = CIA
   Q = (0.60)(5.4)(3.7)
   Q = 12 cfs
   V = CDA
   V = (0.60)(0.183)(161,172)
   V = 17,700 Cu.Ft.

3. Drainage Basin "D" to drain to drop inlet No. 2 (Study Point IV).
   Area = 0.75 Acres = 32,670 Sq.Ft.
   Determination of Q and V.
   Q = CIA
   Q = (0.70)(5.4)(0.75)
   Q = 2.8 cfs, Use 3 cfs
   V = CDA
   V = (0.70)(0.183)(32,670)
   V = 4,185 Cu.Ft.

4. All storm water runoff generated from this site shall be directed toward the existing storm drainage facilities that are incorporated into the AMAFCA 60" diameter storm drain.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECT BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE

REFERENCES
MAP NO. — W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CAMPBELL CAMPBELL & ASSOCIATES, INC. CCIC

LADERA HEIGHTS TOWNHOMES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PLANS PREPARED UNDER THE DIRECTION OF

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

TITLE: DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO

SHEET 2 OF 2

G10/D5