HYDROLOGY

1 of 2

H23/D3
7 PLANS

H23/D3

7 Plans

PLATE 6
Arroyo
Cross Sections

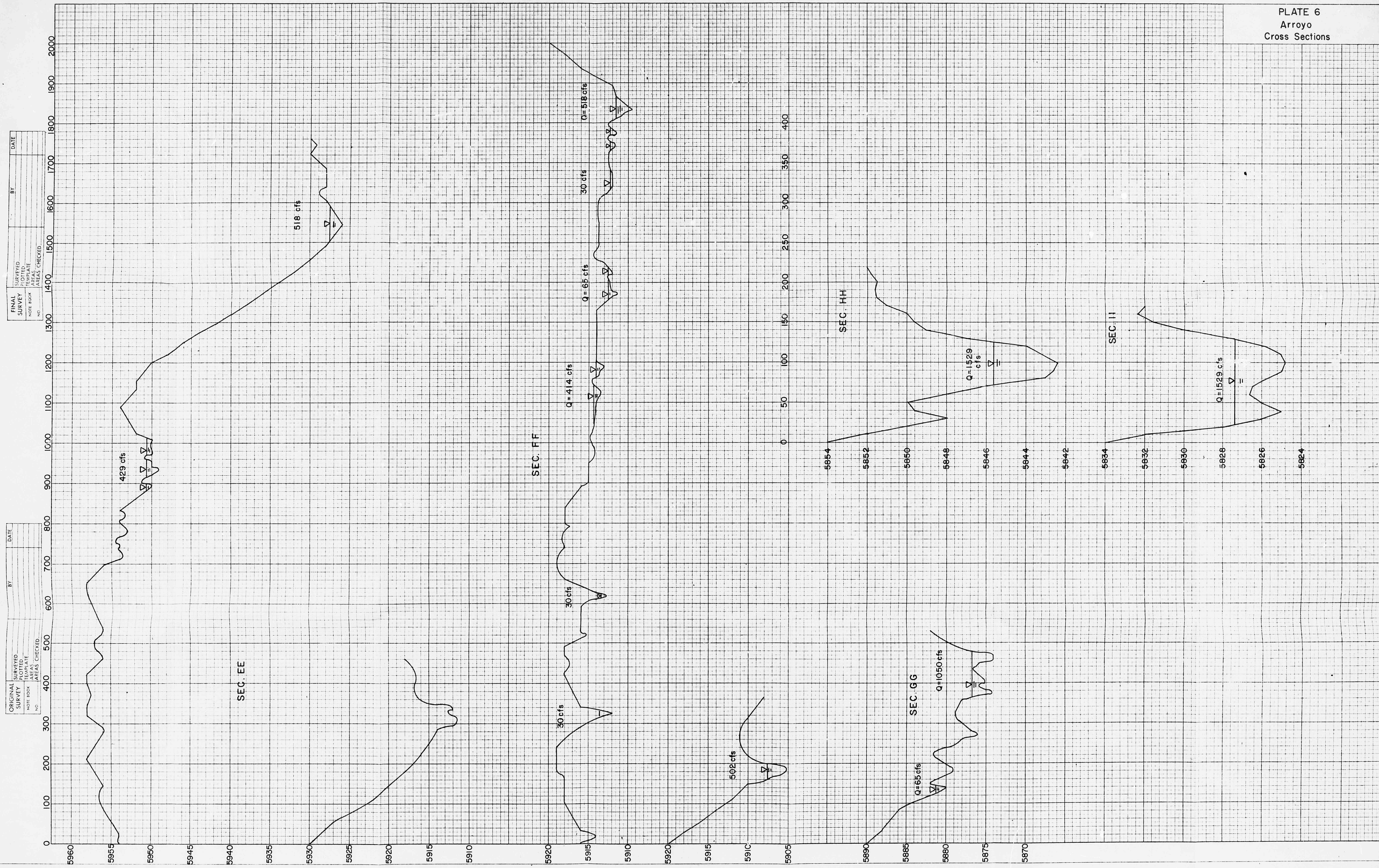


PLATE 5
Arroyo
Cross Sections

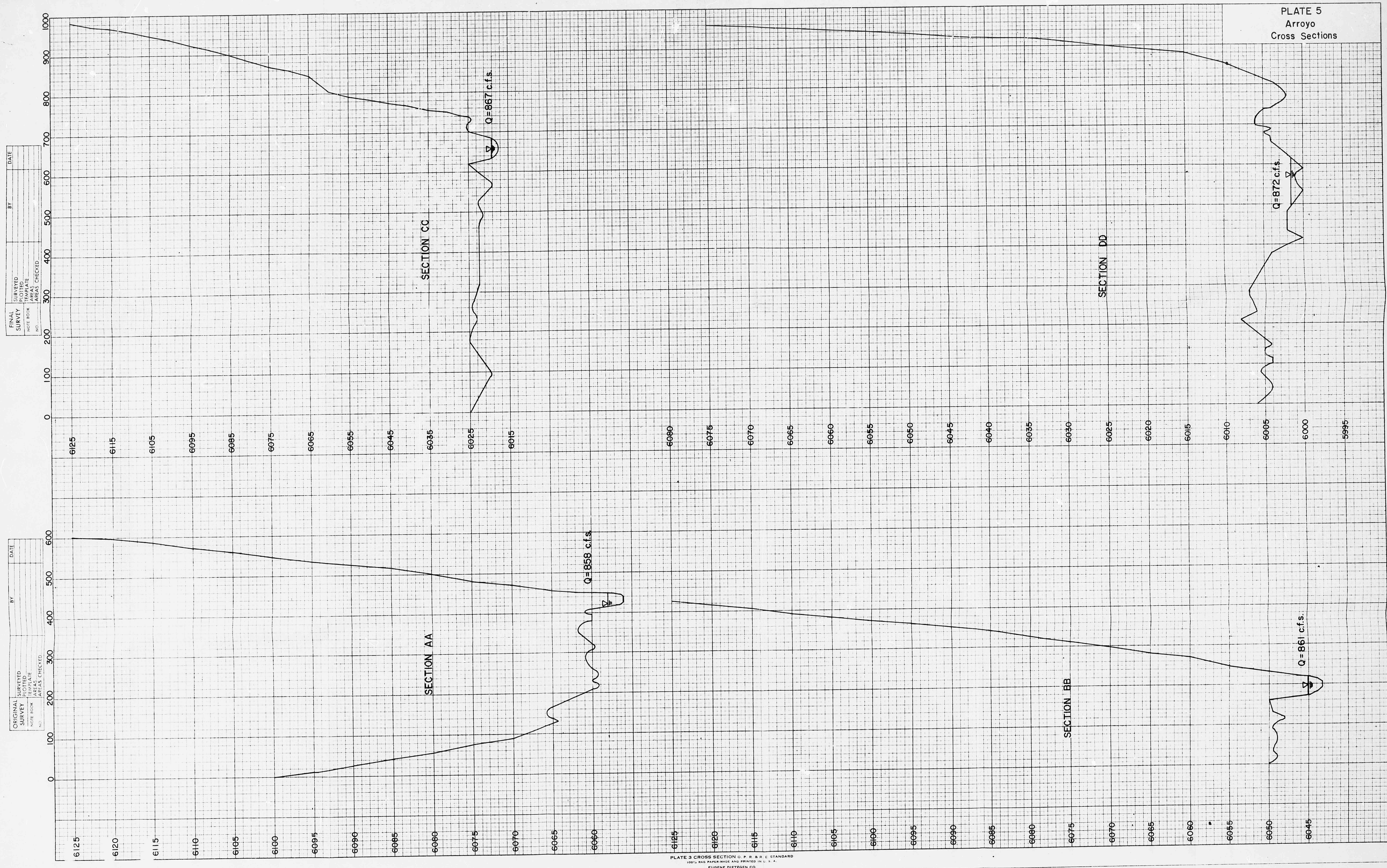
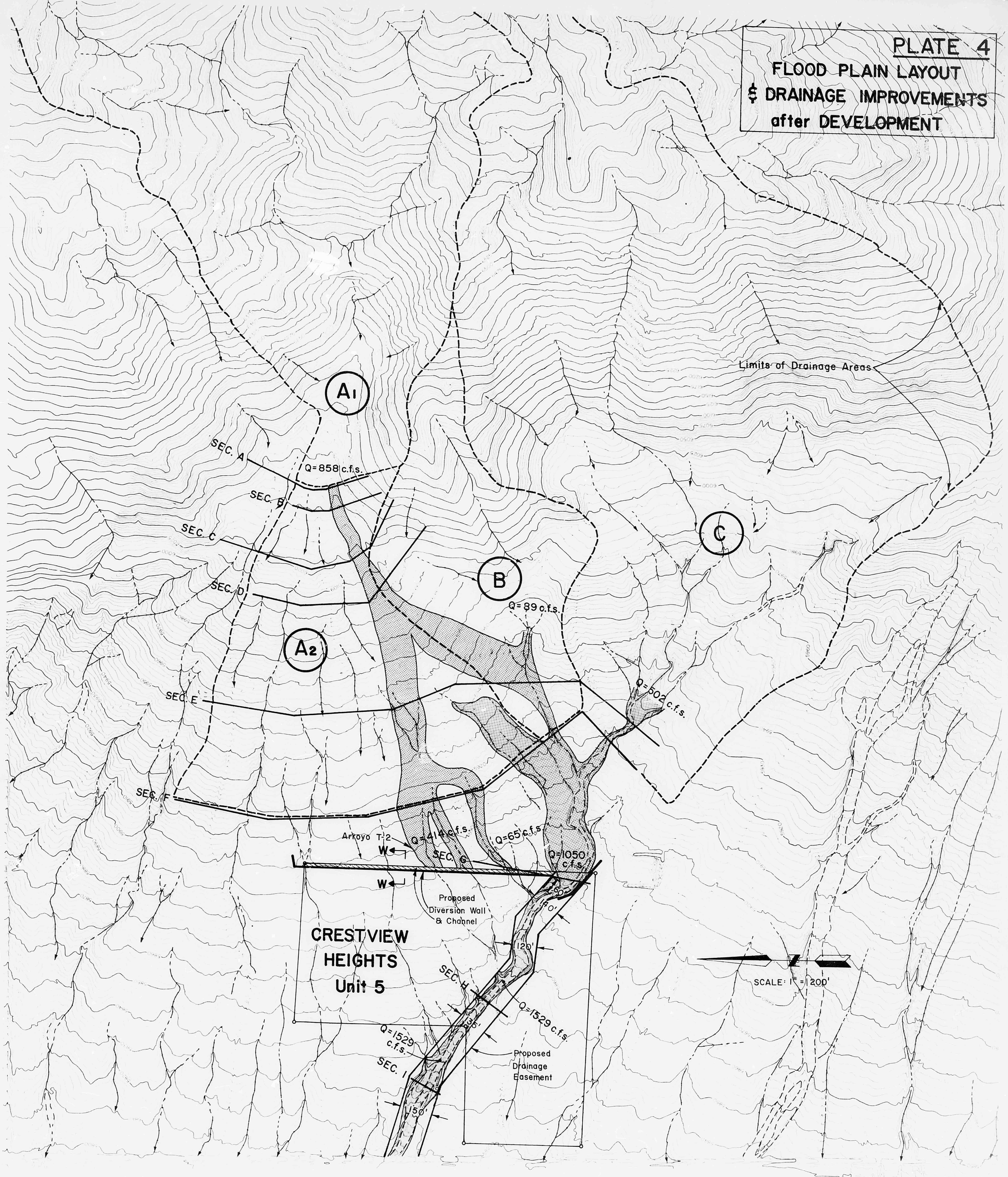


PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

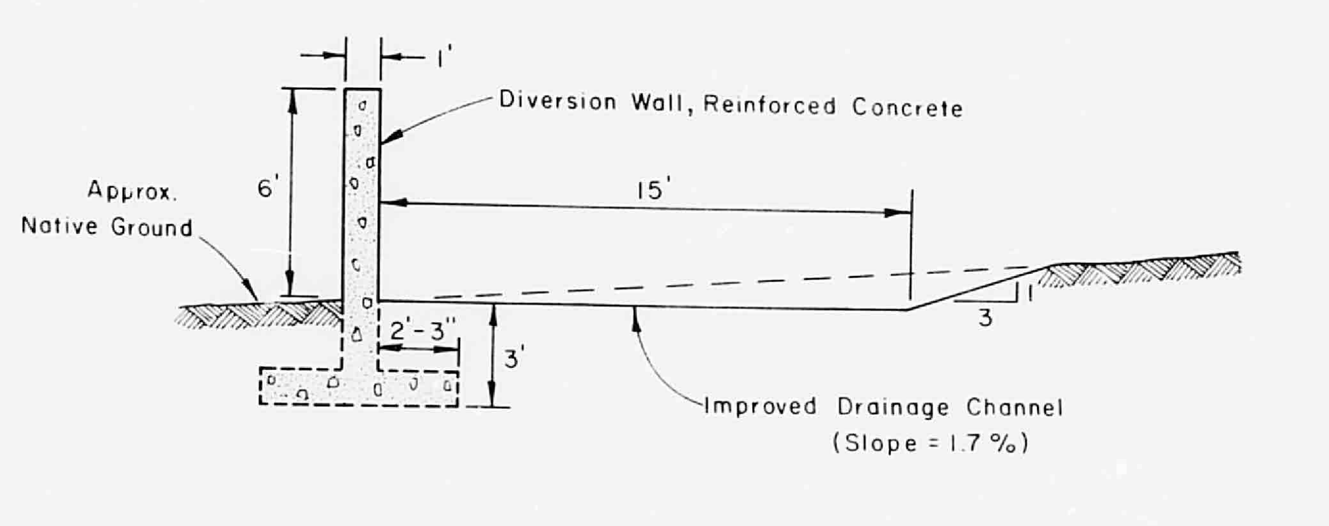
PLATE 4

FLOOD PLAIN LAYOUT & DRAINAGE IMPROVEMENTS after DEVELOPMENT


Limits of Drainage Areas
A1
A2
B
C
SEC. A
SEC. B
SEC. C
SEC. D
SEC. E
SEC. F
SEC. G
SEC. H
SEC. I
Q=858 c.f.s.
Q=89 c.f.s.
Q=502 c.f.s.
Q=414 c.f.s.
Q=65 c.f.s.
Q=1050 c.f.s.
Q=1529 c.f.s.
Q=1529 c.f.s.
Arroyo T-2
W
W
Proposed Diversion Wall & Channel
CRESTVIEW HEIGHTS Unit 5
Proposed Drainage Easement
90'
150'
120'
135'
150'
SCALE: 1" = 200'

LEGEND

o———o	Property Line
———	Easement Boundary ¢ Sec. Line
- - - -	Drainage Area Limit
Ⓐ	Drainage Area Designation
▨	Proposed Improved Drainage Channel and Diversion Wall


1'
Diversion Wall, Reinforced Concrete
Approx. Native Ground
6'
15'
3
1
2'-3"
3'
Improved Drainage Channel (Slope = 1.7%)

SECTION W-W
Scale 1" = 5'

NOTES:

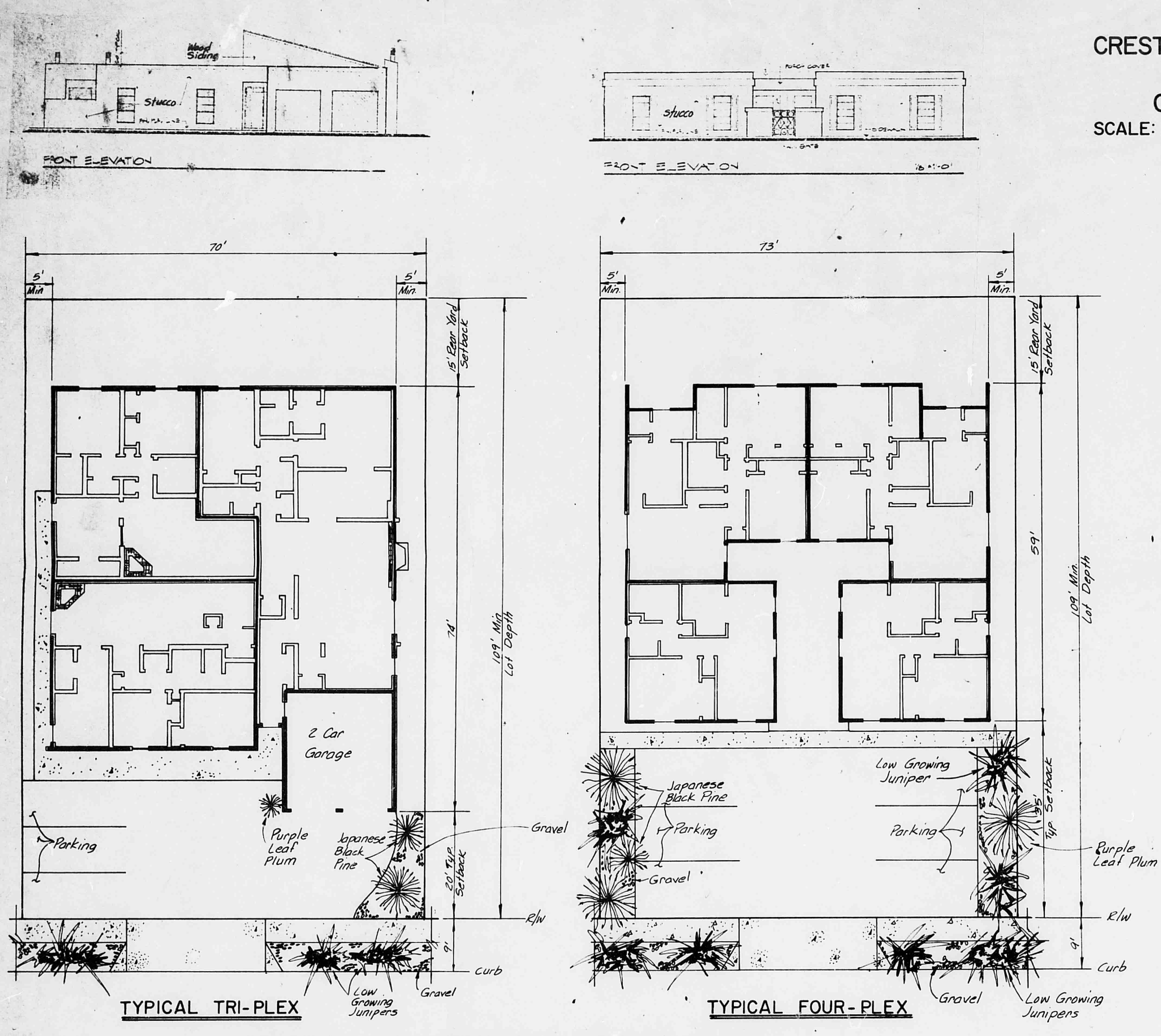
1) The flood plains indicated on this map are based solely on the contours given. Field inspections of the area have suggested that contour resolution may be inadequate in critical areas for accurate flood routing. Therefore, all proposed drainage improvements have been based on estimated worst case conditions, and for this reason, the diversion wall and channel has been extended the full length of the property.

2) The intention of this drawing is to illustrate an engineering concept. It is not intended to serve as a detailed construction plan.

BOHANNAN WESTMAN HUSTON

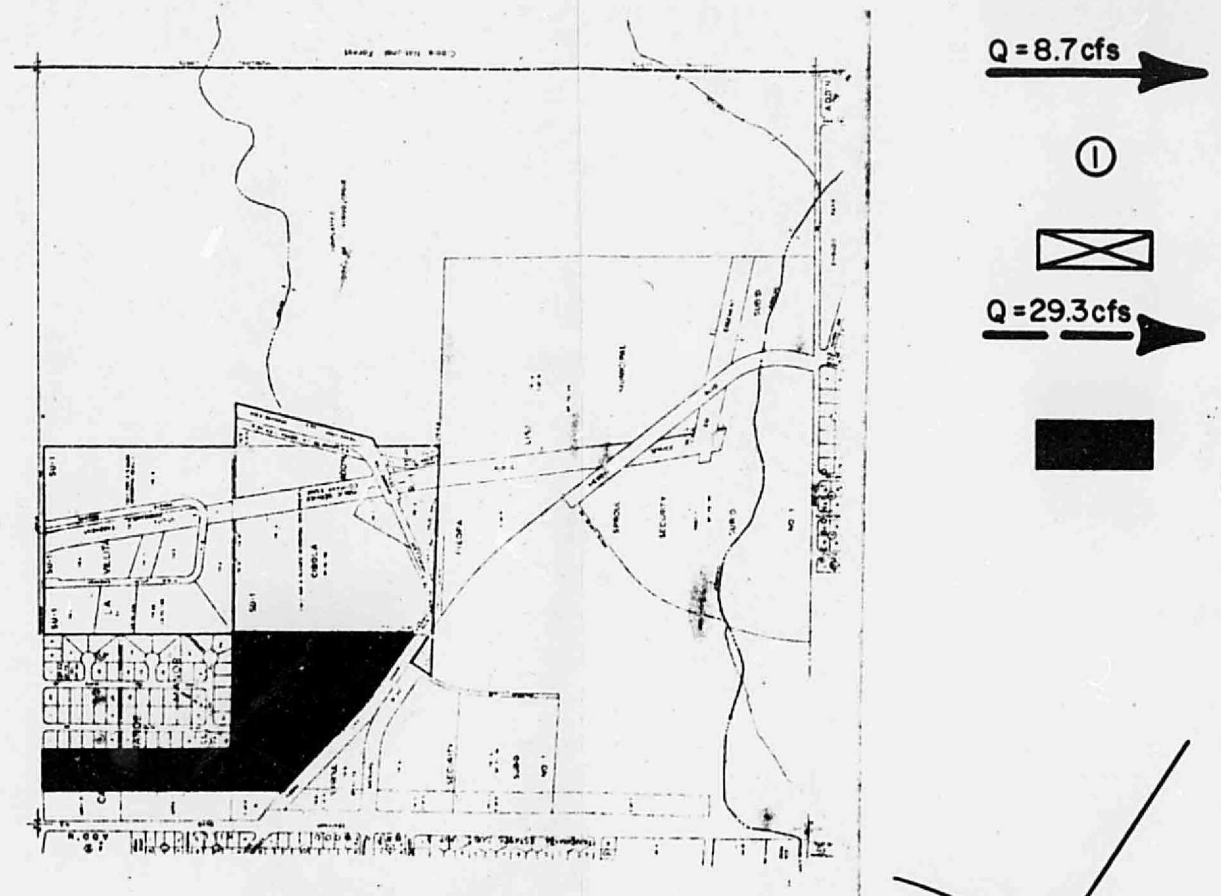
PROPOSED REPLAT
CRESTVIEW HEIGHTS, UNIT 5
&
CASA GRANDE PARK

SCALE: 1"=100'
APRIL 1977


Wood Siding
Stucco
FRONT ELEVATION
Stucco
FRONT ELEVATION
70'
5' Min.
15' Rear Yard Setback
109' Min. Lot Depth
74'
2 Car Garage
Parking
Purple Leaf Plum
Japanese Black Pine
Gravel
20' Min. Setback
R/W
Curb
9'
Low Growing Junipers
TYPICAL TRI-PLEX
73'
59'
Japanese Black Pine
Parking
Low Growing Juniper
Purple Leaf Plum
Gravel
TYPICAL FOUR-PLEX

TYPICAL LOT & SUGGESTED LANDSCAPE PLANS

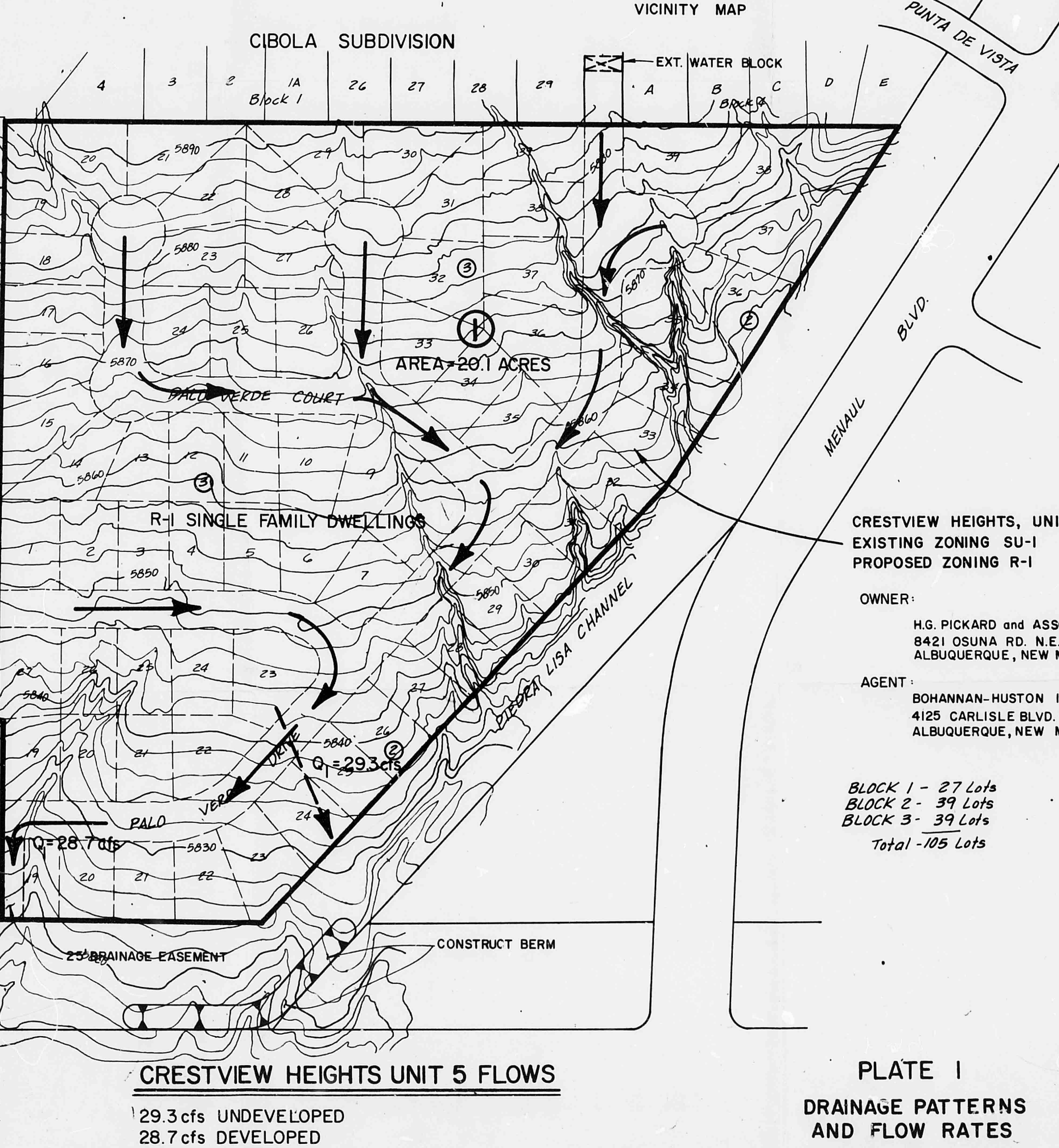
ALL LANDSCAPING TO BE DONE BY OWNERS.



VICINITY MAP

LEGEND

▬	BASIN BOUNDARY
Q=8.7cfs →	DEVELOPED FLOW RATES AND DIRECTION
①	BASIN NUMBER
☒	WATER BLOCK
Q=29.3cfs - - →	UNDEVELOPED FLOW RATES AND DIRECTION
■	BACKYARDS DISCHARGING DIRECTLY TO THE ARROYO.


CIBOLA SUBDIVISION
Block 1
EXT. WATER BLOCK
PUNTA DE VISTA
MENAUL BLVD.
AREA = 20.1 ACRES
PALO VERDE COURT
R-1 SINGLE FAMILY DWELLINGS
Block C
Block A
PALO ALTO DRIVE
Q=29.3cfs
Q=28.7cfs
PIEDRA LISA CHANNEL
25' DRAINAGE EASEMENT
CONSTRUCT BERM
5890
5880
5870
5860
5850
5840
5830

CRESTVIEW HEIGHTS, UNIT 5
EXISTING ZONING SU-1
PROPOSED ZONING R-1

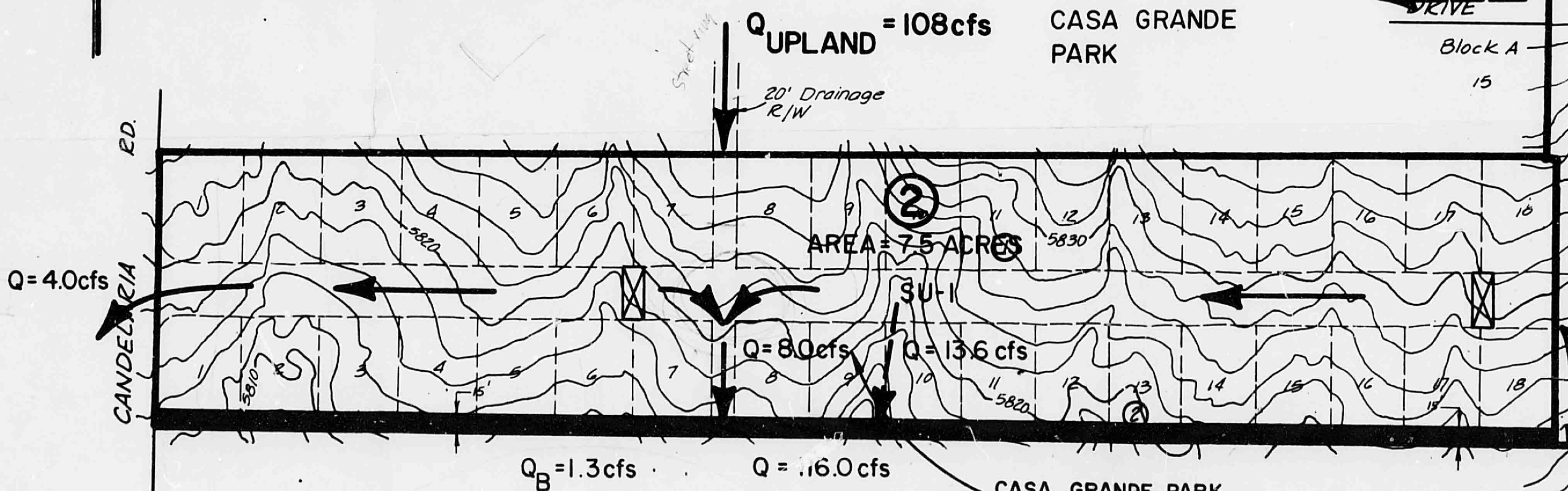
OWNER:
H.G. PICKARD and ASSOC.
8421 OSUNA RD. N.E.
ALBUQUERQUE, NEW MEXICO

AGENT:
BOHANNAN-HUSTON INC.
4125 CARLISLE BLVD. N.E
ALBUQUERQUE, NEW MEXICO

BLOCK 1 - 27 Lots
BLOCK 2 - 39 Lots
BLOCK 3 - 39 Lots
Total - 105 Lots

Q_{UPLAND} = 108cfs

CASA GRANDE PARK


20' Drainage R/W
AREA = 7.5 ACRES
SU-1
CANDELARIA RD.
Q=4.0cfs
Q=8.0cfs
Q=13.6cfs
5830
5820
QB=1.3cfs
Q=16.0cfs

CASA GRANDE PARK
EXISTING ZONING SU-1
ADMINISTRATIVE REVIEW

Q_B = TOTAL DISCHARGE FROM BACKYARDS OF LOTS 1-18, BLOCK 2.

TRAMWAY BLVD.

CASA GRANDE PARK FLOWS

13.6 cfs UNDEVELOPED
13.3 cfs DEVELOPED

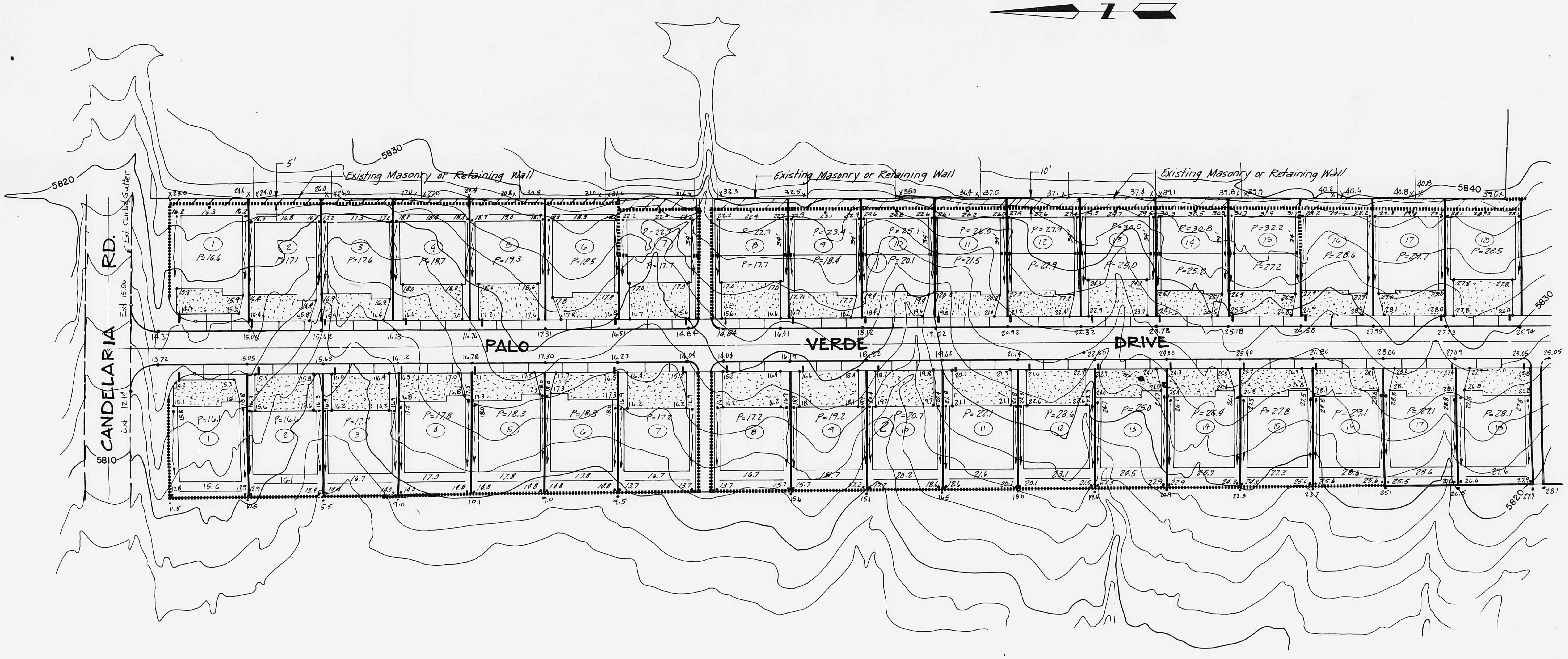
CRESTVIEW HEIGHTS UNIT 5 FLOWS

29.3 cfs UNDEVELOPED
28.7 cfs DEVELOPED

PLATE 1

DRAINAGE PATTERNS AND FLOW RATES

77-117

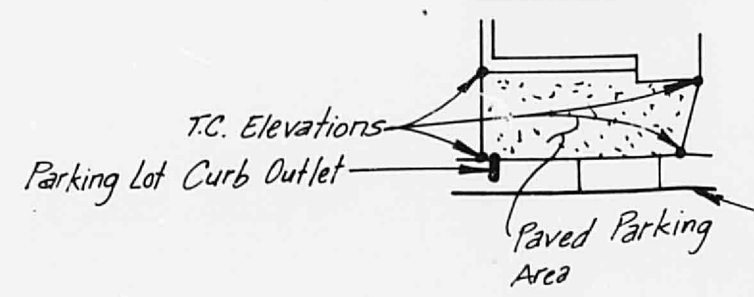

N
Existing Masonry or Retaining Wall
Existing Masonry or Retaining Wall
Existing Masonry or Retaining Wall
5'
10'
5820
5830
5840
5830
5810
5820
CANDELARIA RD.
Ext. Curb & Gutter
Ext. 15.06
Ext. 12.14
PALO VERDE DRIVE
P=16.6
P=17.1
P=17.6
P=18.7
P=19.3
P=18.5
P=22.7
P=17.7
P=22.7
P=17.7
P=23.4
P=18.4
P=25.1
P=20.1
P=26.5
P=21.5
P=27.9
P=22.9
P=30.0
P=25.0
P=30.8
P=25.8
P=32.2
P=27.2
P=28.6
P=29.7
P=28.5
P=16.1
P=16.1
P=17.7
P=17.8
P=18.3
P=18.8
P=17.2
P=17.2
P=19.2
P=20.7
P=22.1
P=22.6
P=25.0
P=26.4
P=27.8
P=29.1
P=29.1
P=28.1

NOTES:

1. Backyard slopes in areas 10'-0" beyond the house shall not exceed 3:1 (horizontal : vertical).
2. Sideyard slopes in areas 5'-0" beyond the house shall not exceed 3:1 (horizontal : vertical).
3. Provide Drainage opening .5' above finished backyard grade in lots 1-18, Block 2.
4. Walls adjacent to ponds shall be grout filled to a level at least 2' above the backyard ground elevation, and all walls shall have the first two courses above the foundation grout filled.
5. See Sheet 13 for details of front yard ponding areas.
6. Provide drainage openings at grade for side yard retaining walls for split level pads.

–LEGEND–

▪▪▪▪▪▪▪▪▪▪	Retaining Wall
———	Masonry Wall
←	Flow Path
②	Block Number
P=24.2	House Pad Elevation
⑬	Lot Number
17.9	Slope Break W/Elevation
• 18.1	Spot Elevation
▨	3:1 Slope Area
X 30.8	Existing Spot Elevation


T.C. Elevations
Parking Lot Curb Outlet
Paved Parking Area

Paved Parking Area, by homebuilder & Curb Outet (See Sheet 13 for Details)

Standard Curb & Gutter

Date	Revision	By
3/78	Change to Flat Pads	MJI
10/78	Change to Splits	MJI

CRESTVIEW HEIGHTS UNIT 5

Project No.

Seal

GRADING PLAN

ALBUQUERQUE, NEW MEXICO

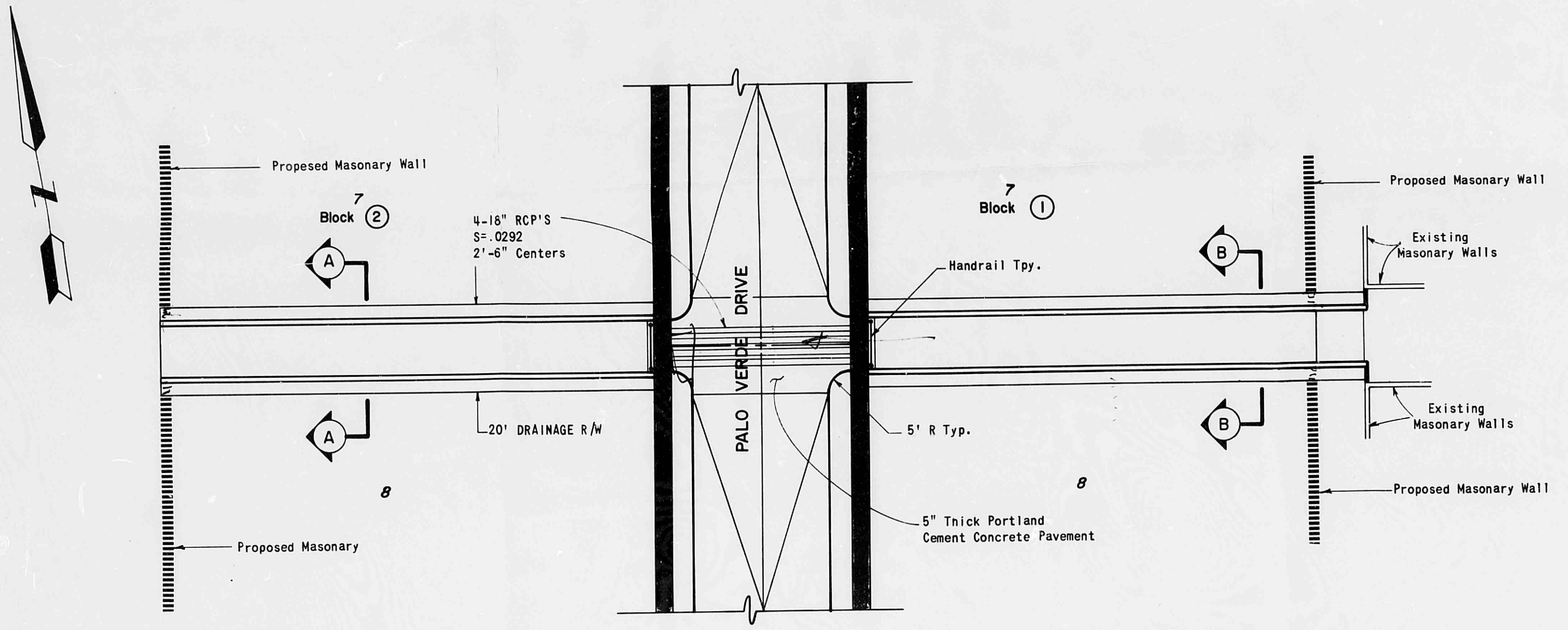
Job.No. 77-117.1	Sheet 4 Of 15
Drawn By: D.A.	Date: OCT., 1977
Checked By: M.J.I.	Scale: 1"=50'

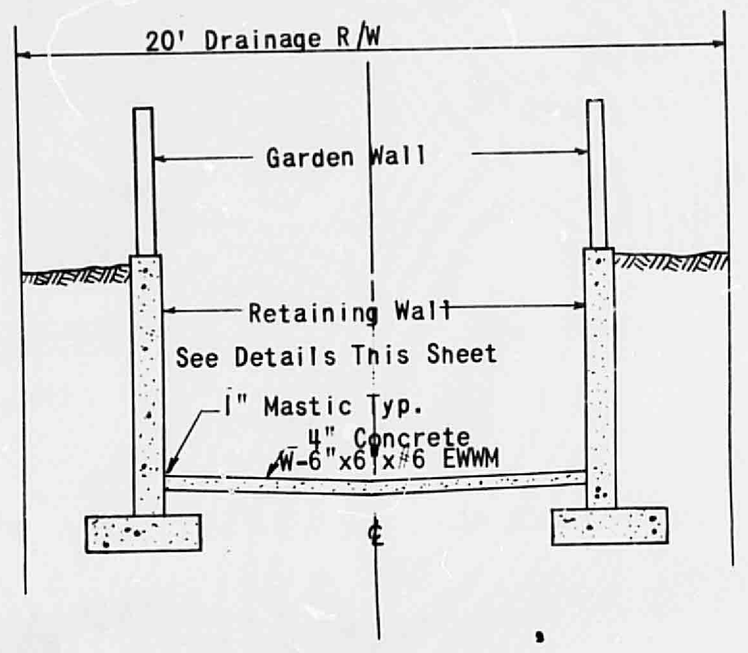
HYDROLOGY

2 of 2

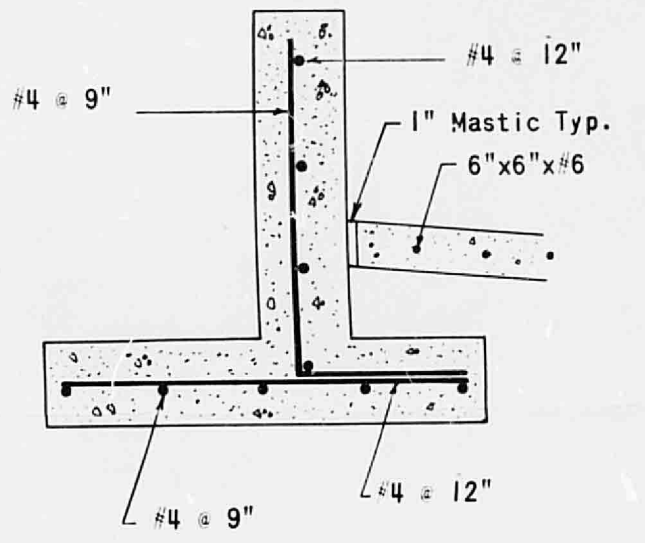
H23/D3
7 PLANS

RECEIVED
NOV 02 1978
CITY ENGINEERS

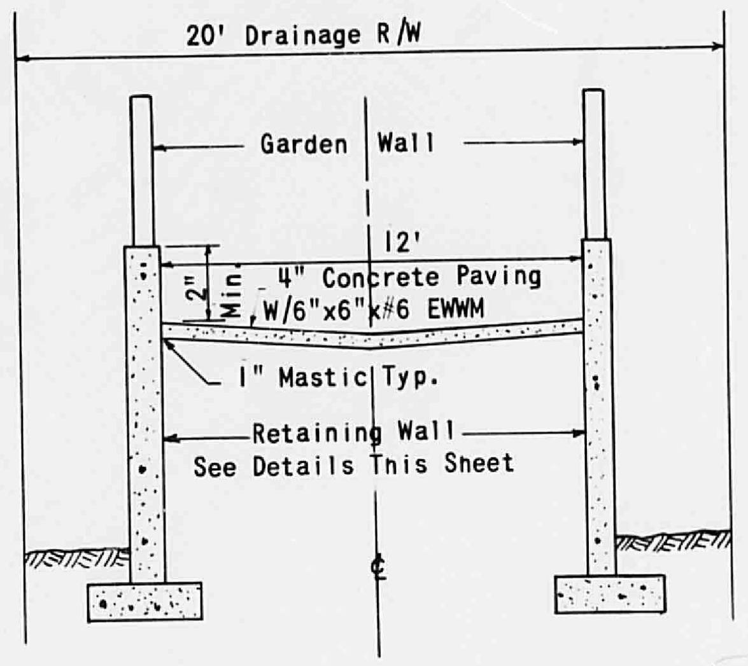

Block ②
Block ①
7
8
Proposed Masonary Wall
4-18" RCP'S
S=.0292
2'-6" Centers
Handrail Tpy.
PALO VERDE DRIVE
Existing Masonary Walls
20' DRAINAGE R/W
5' R Typ.
5" Thick Portland Cement Concrete Pavement
Proposed Masonary
A
B


20' Drainage R/W
Garden Wall
Retaining Wall
See Details This Sheet
1" Mastic Typ.
4" Concrete W-6"x6"x6 EWWM
℄

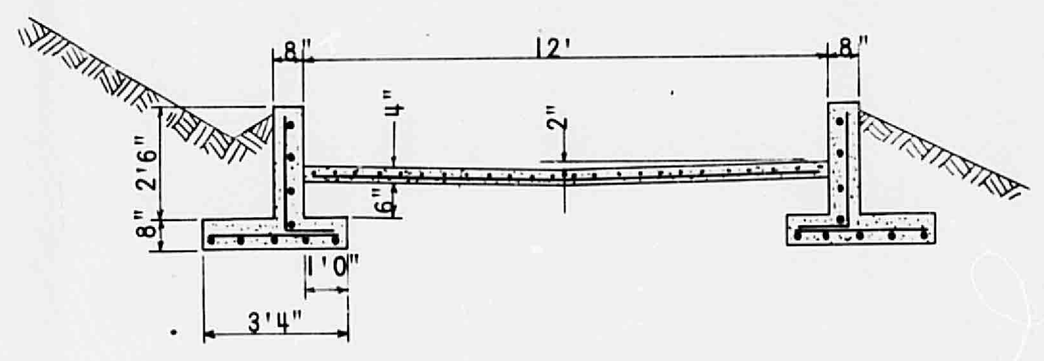
SECTION A-A
NO SCALE


#4 @ 9"
#4 @ 12"
1" Mastic Typ.
6"x6"x6
#4 @ 9"
#4 @ 12"

REBAR DETAIL
NO SCALE


20' Drainage R/W
Garden Wall
12'
Min. 4" Concrete Paving W/6"x6"x6 EWWM
1" Mastic Typ.
Retaining Wall
See Details This Sheet
℄

SECTION B-B
NO SCALE


8"
12'
8"
4"
2"
2'6"
6"
8"
1'0"
3'4"

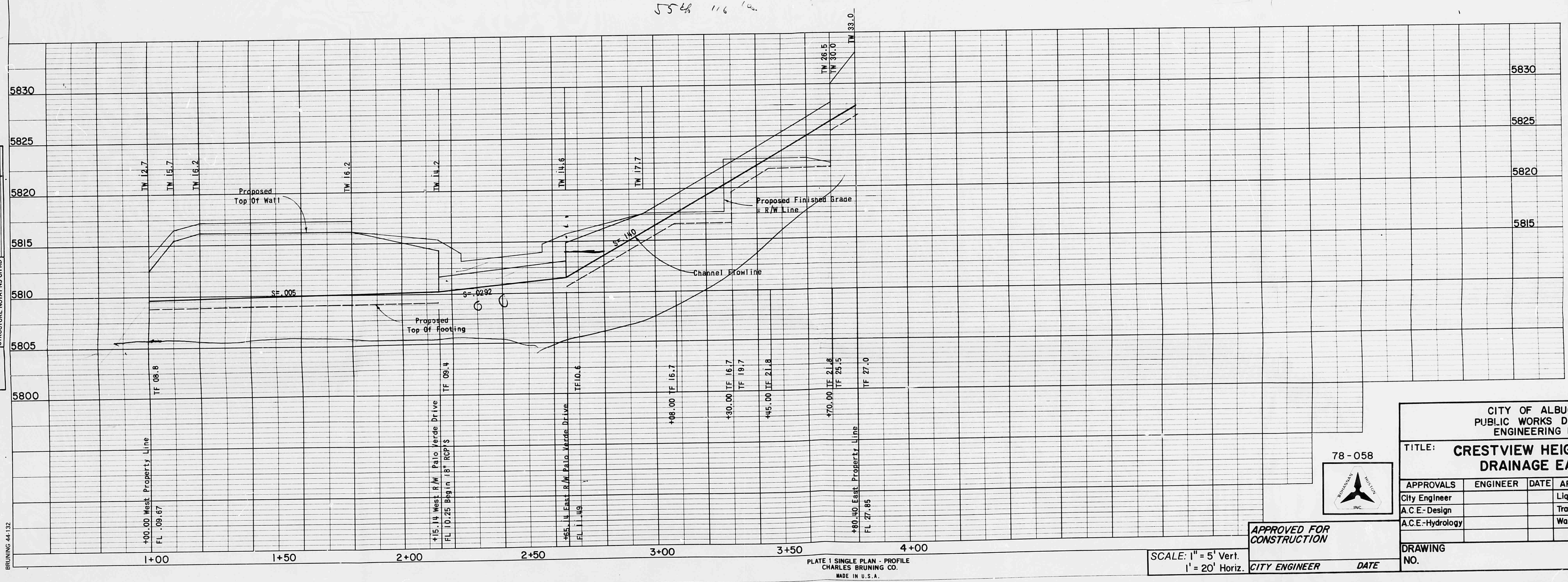
RETAINING WALL DETAIL
NO SCALE

NOTES:

Base Width #4 @ 9" Vertical Bars In Wall Every Other Bar

Weep Holes @ 10' O.C. With Gravel Pocket

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE



PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.s NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

BRUNING 44-132

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

SCALE: 1" = 5' Vert.
1' = 20' Horiz.

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

78-058

BOHANNAN HUSTON INC.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: **CRESTVIEW HEIGHTS, UNIT 5**
DRAINAGE EASEMENT

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 1

AS-BUILT INFORMATION
CONTRACTOR
WORK ACCEPTED BY DATE
DRAWING CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

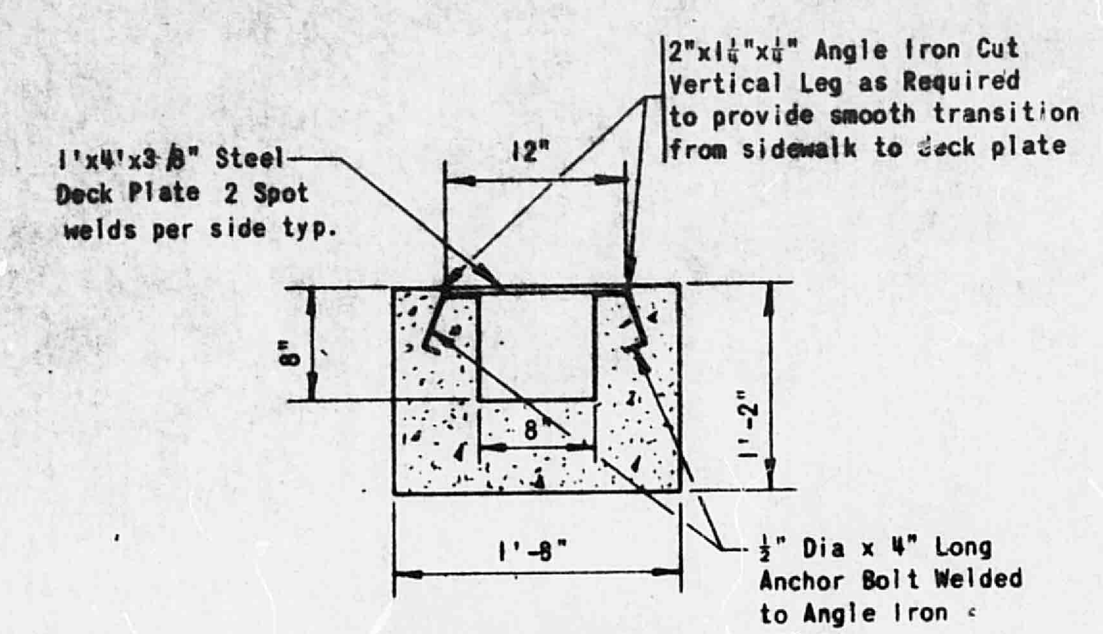
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. H-23
EST. NO.
W. O. NO.

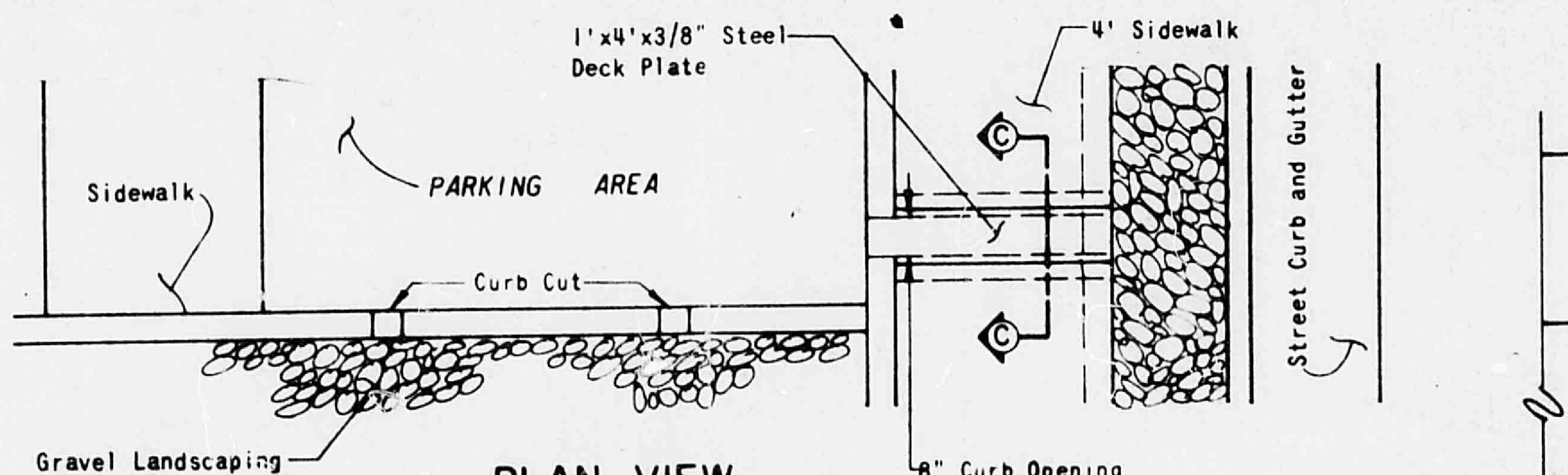
NO.	DATE	REMARKS	BY

REVISIONS

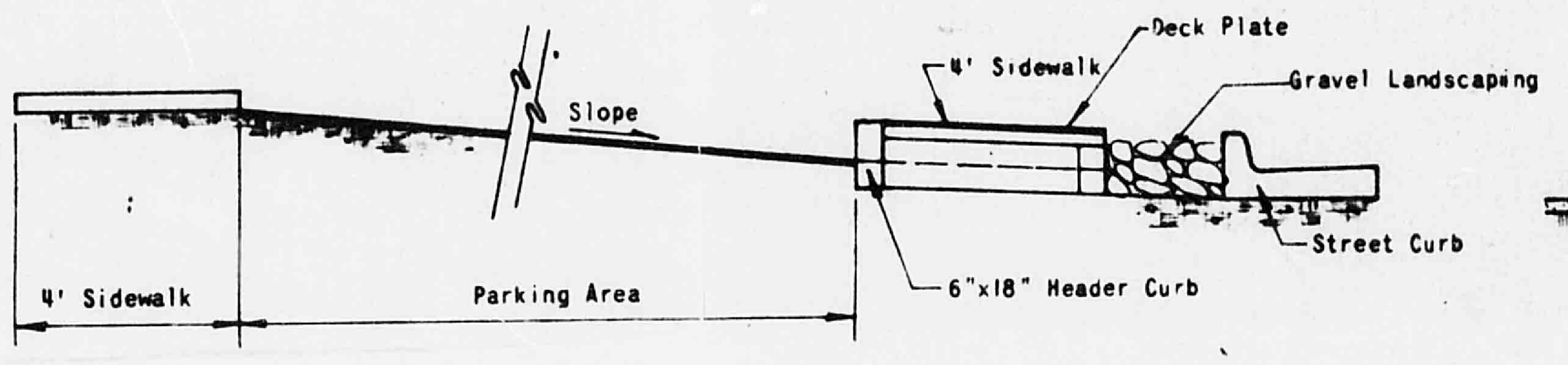
DESIGN
DESIGNED BY MJI DATE OCT. 1978
DRAWN BY DJ; JLM DATE OCT. 1978
CHECKED BY RPB DATE OCT. 1978


2"x1¼"x¼" Angle Iron Cut Vertical Leg as Required to provide smooth transition from sidewalk to deck plate
1'x4'x3/8" Steel Deck Plate 2 Spot welds per side typ.
12"
8"
8"
1'-2"
1'-8"
½" Dia x 4" Long Anchor Bolt Welded to Angle Iron @ 12" OC

SECTION C-C

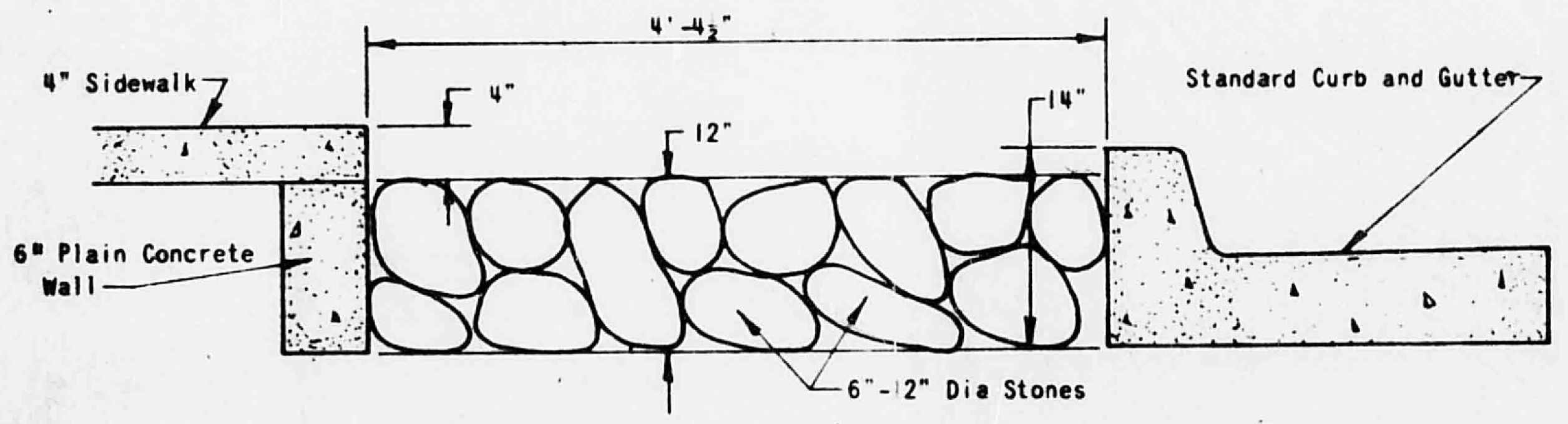

1'x4'x3/8" Steel Deck Plate
4' Sidewalk
Sidewalk
PARKING AREA
Curb Cut
C
C
Street Curb and Gutter
Gravel Landscaping 1' Deep
8" Curb Opening

PLAN VIEW


Deck Plate
4' Sidewalk
Gravel Landscaping
Slope
Street Curb
4' Sidewalk
Parking Area
6"x18" Header Curb

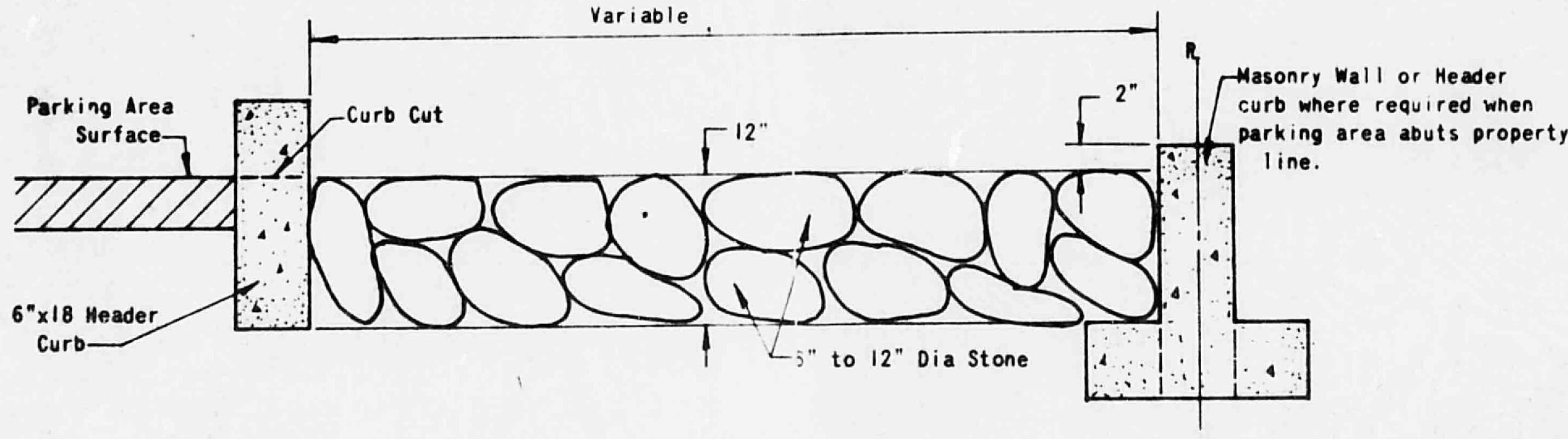
FRONT VIEW

PARKING AREA DETAIL


4'-4½"
4" Sidewalk
4"
12"
14"
Standard Curb and Gutter
6" Plain Concrete Wall
6"-12" Dia Stones

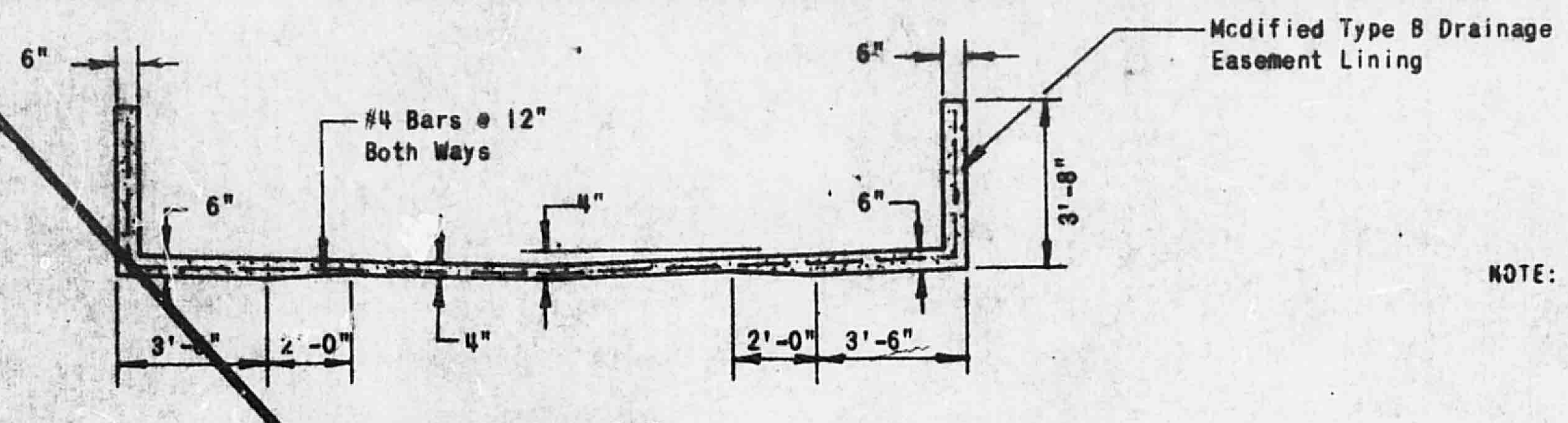
TYPICAL LANDSCAPE AREA IN PALO VERDE DRIVE R/W

(LOTS 1 thru 18, BLKS. 1 & 2)

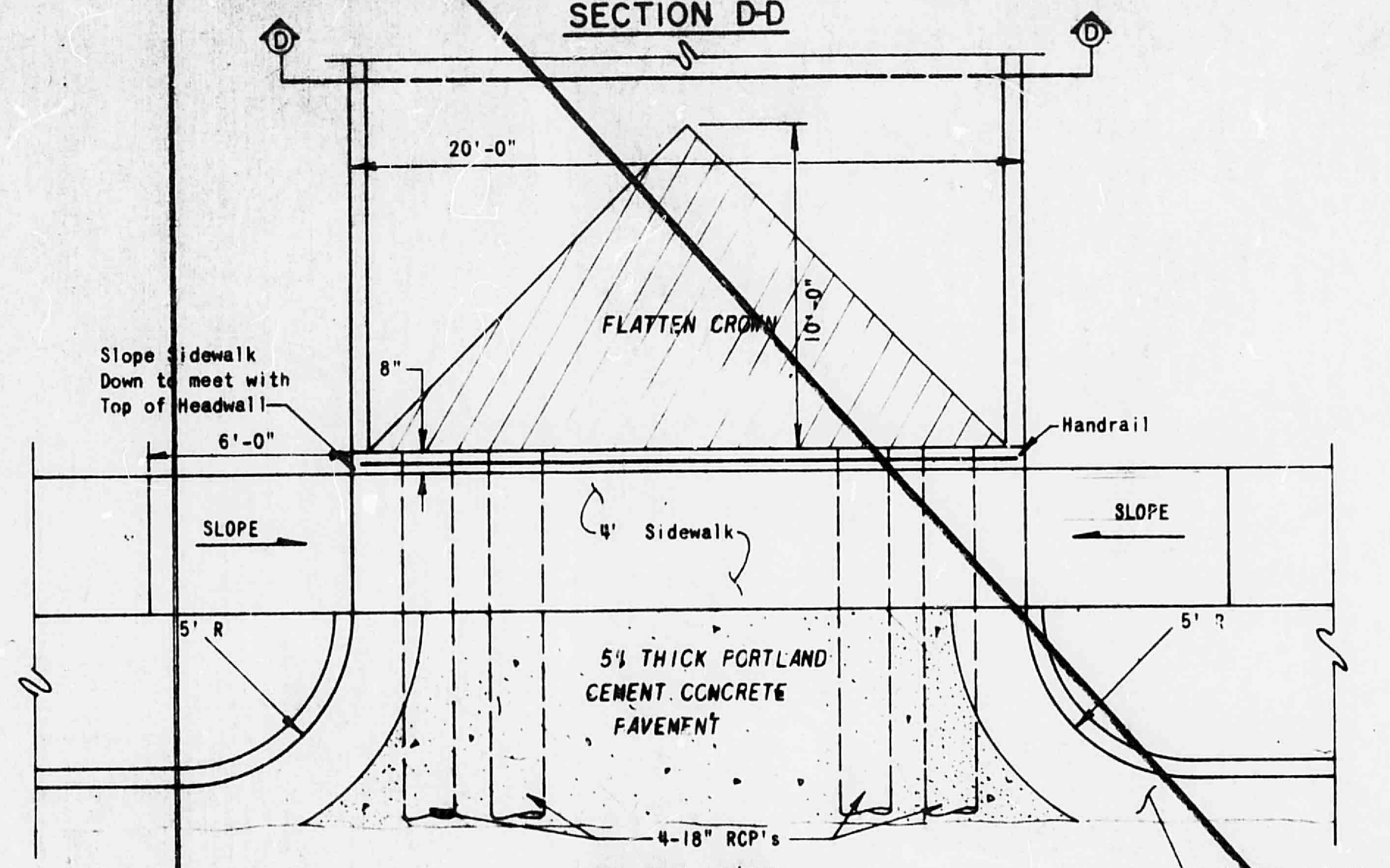

Variable
Parking Area Surface
Curb Cut
12"
2"
R
Masonry Wall or Header curb where required when parking area abuts property line.
6"x18 Header Curb
6" to 12" Dia Stone

TYPICAL SIDE LOT LANDSCAPE AREA FROM STREET R/W TO SET-BACK LINE

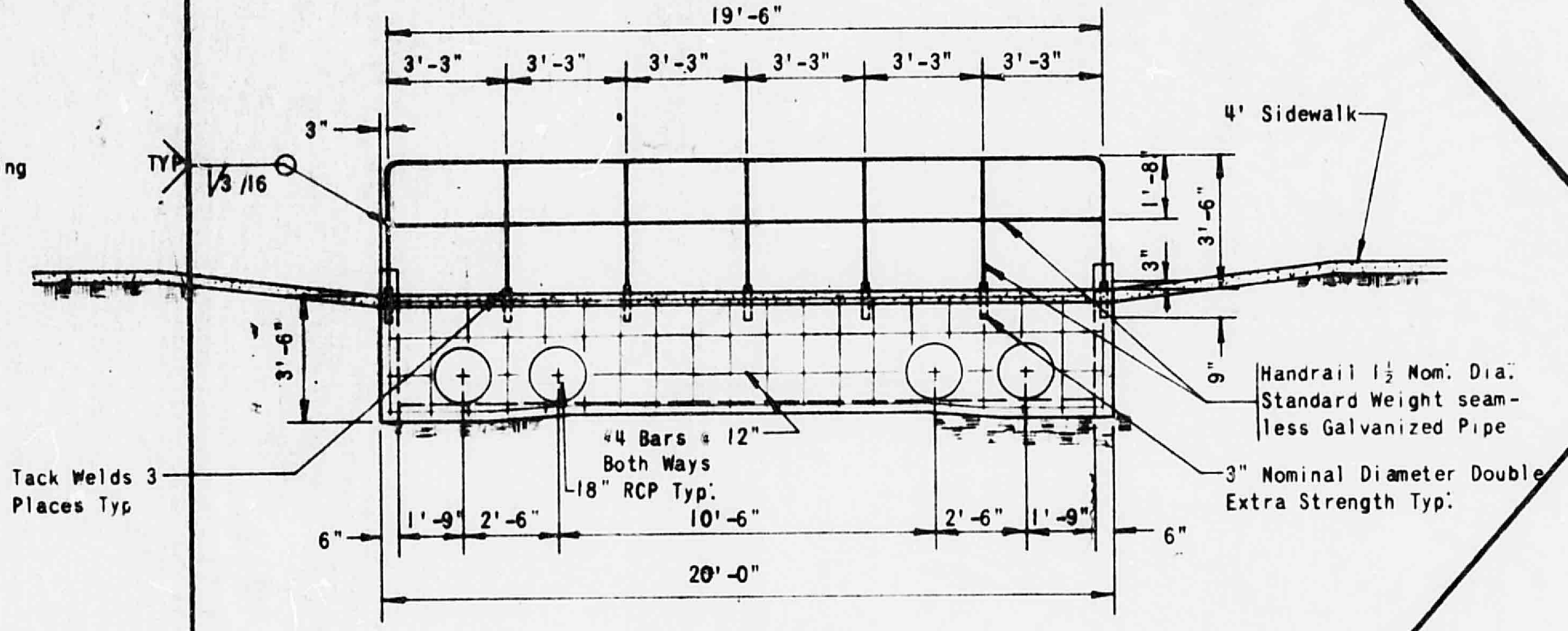
(LOTS 1 thru 18, BLKS. 1 & 2)


6"
6"
#4 Bars @ 12" Both Ways
Modified Type B Drainage Easement Lining
6"
4"
6"
3'-8"
3'-6"
2'-0"
4"
2'-0"
3'-6"

SECTION D-D


D
D
20'-0"
FLATTEN CROWN
10'-0"
Slope Sidewalk Down to meet with Top of Headwall
8"
6'-0"
Handrail
SLOPE
4' Sidewalk
SLOPE
5' R
5' R
5½ THICK PORTLAND CEMENT CONCRETE PAVEMENT
4-18" RCP's
Curb and Gutter

PLAN VIEW


19'-6"
3'-3"
3'-3"
3'-3"
3'-3"
3'-3"
3'-3"
3"
TYP
3/16
4' Sidewalk
1'-8"
3'-6"
3"
3'-6"
9"
Handrail 1½ Nom. Dia. Standard Weight seamless Galvanized Pipe
Tack Welds 3 Places Typ
#4 Bars @ 12" Both Ways
18" RCP Typ.
3" Nominal Diameter Double Extra Strength Typ.
6"
1'-9"
2'-6"
10'-6"
2'-6"
1'-9"
6"
20'-0"

FRONT VIEW

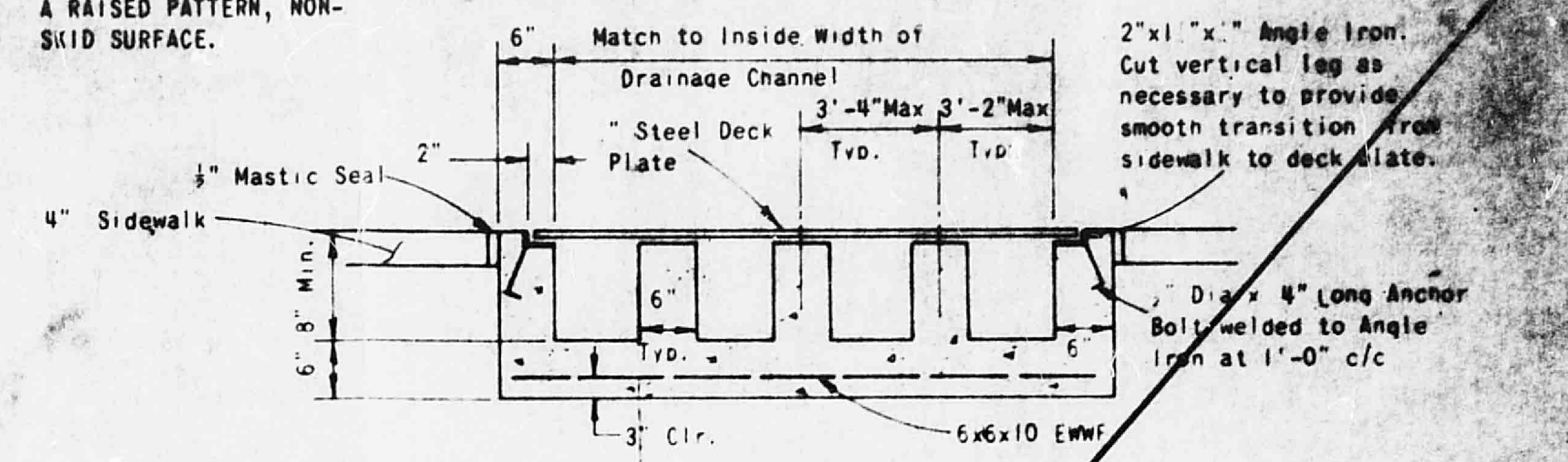
HEADWALL DETAIL

NOTES

1. ALL CONCRETE SHALL BE 5.5 C 3000.
2. HANDRAIL DIMENSIONS GIVEN TO CENTER OF PIPE.
3. ALL PIPE BENDS SHALL HAVE A 6" RADIUS.
4. ALL STEEL REINFORCEMENT SHALL BE GRADE 40 DEFORMED BARS, UNLESS OTHERWISE NOTED.

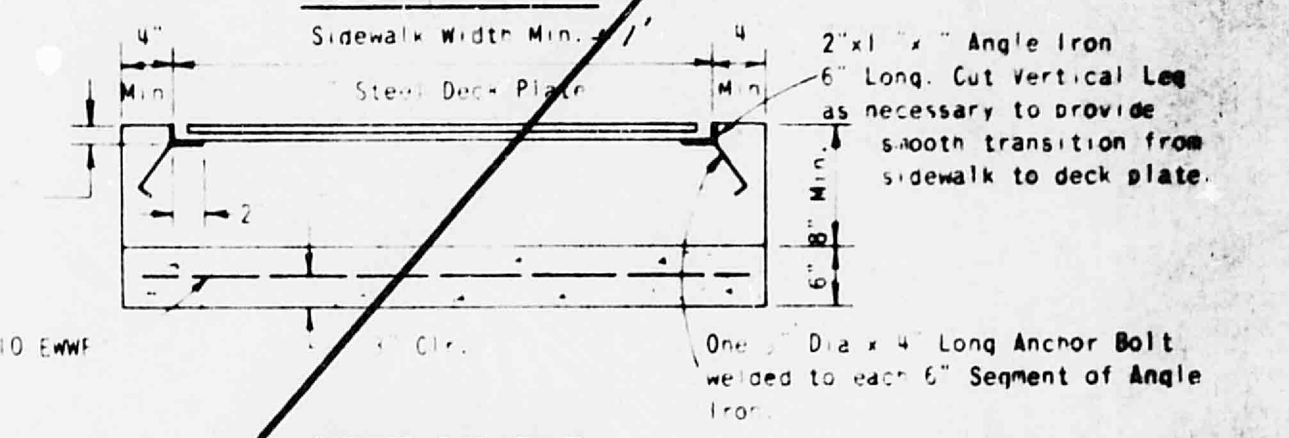
48 HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE AND CABLE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

NOTE: DECK PLATE SHALL HAVE A RAISED PATTERN, NON-SKID SURFACE.

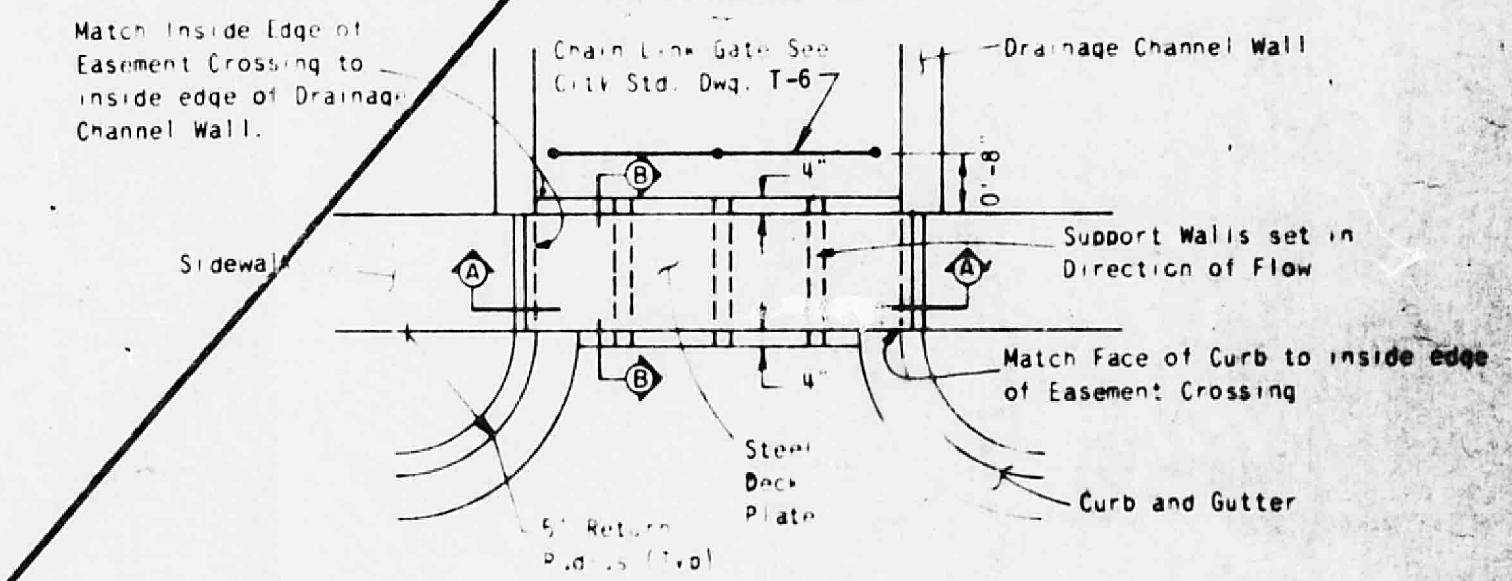

6"
Match to Inside Width of Drainage Channel
3'-4"Max Typ.
3'-2"Max Typ.
" Steel Deck Plate
2"
½" Mastic Seal
4" Sidewalk
2"x1"x" Angle Iron. Cut vertical leg as necessary to provide smooth transition from sidewalk to deck plate.
6"
Typ.
6" 8" Min.
6"
" Dia x 4" Long Anchor Bolt welded to Angle Iron at 1'-0" c/c
3" Clr.
6x6x10 EWWF

SECTION A-A

NOTE: SUPPORT AND END WALLS SHALL BE MONOLITHIC WITH FLOOR. SUPPORT WALLS SHALL BE EVENLY SPACED.

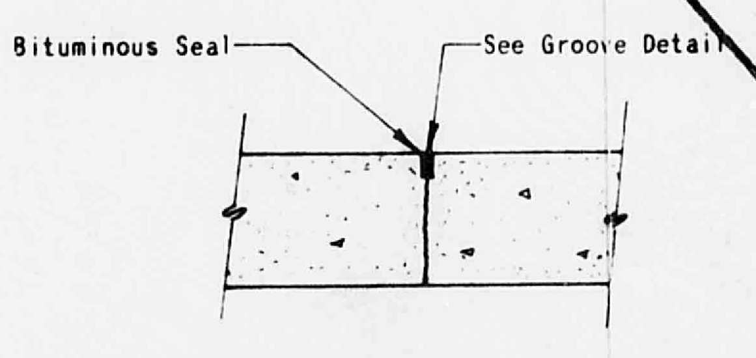

4" Min
Sidewalk Width Min.
Steel Deck Plate
4 Min
2"x1"x" Angle Iron 6" Long. Cut Vertical Leg as necessary to provide smooth transition from sidewalk to deck plate.
2
6" 8" Min.
6x6x10 EWWF
3" Clr.
One ½" Dia x 4" Long Anchor Bolt welded to each 6" Segment of Angle Iron

SECTION B-B


Match Inside Edge of Easement Crossing to inside edge of Drainage Channel Wall.
Chain Link Gate See City Std. Dwg. T-6
Drainage Channel Wall
8'-0
4"
B
A
A
Sidewalk
Support Walls set in Direction of Flow
B
4"
Match Face of Curb to inside edge of Easement Crossing
Steel Deck Plate
5' Return Radius (Typ)
Curb and Gutter

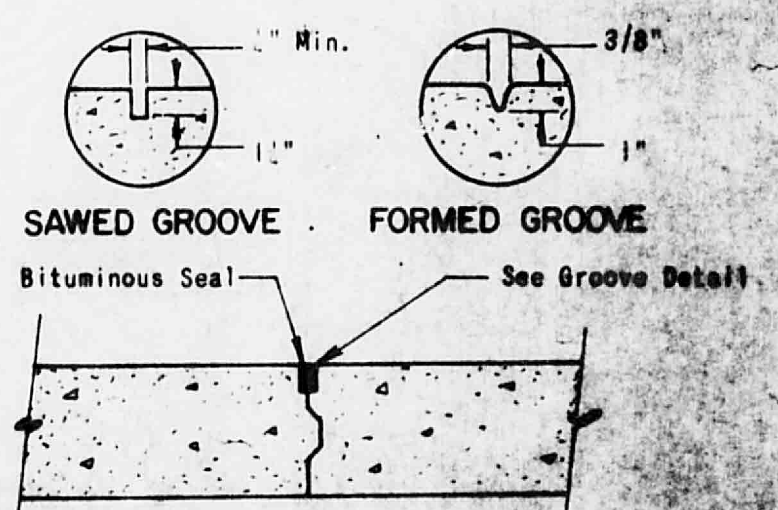
EASEMENT CROSSING

NO SCALE

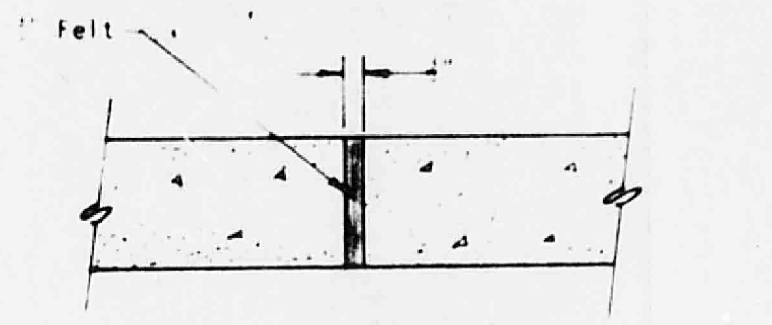

Bituminous Seal
See Groove Detail

PLACE AT 10'-0" CENTERS BOTH WAYS

CONTRACTION JOINT DETAIL


" Min.
1½"
3/8"
1"
SAWED GROOVE
FORMED GROOVE
Bituminous Seal
See Groove Detail

CONTRUCTION JOINT DETAIL



PLACE AT 15'-0" CENTERS BOTH WAYS

EXPANSION JOINT DETAIL

PORTLAND CEMENT CONCRETE PAVEMENT JOINTING DETAILS

APPROVAL:

ASSIST. CITY ENGR. - DESIGN — DATE 23 Jan 78
TRAFFIC ENGINEER — DATE 3-1-78
HYDROLOGY ENGINEER — DATE 2-21-78
CITY ENGINEER — DATE 2-2-78

C-72-77

CRESTVIEW HEIGHTS UNIT 5

Date | Revision | By

Project No

Seal

DRAINAGE DETAILS

ALBUQUERQUE, NEW MEXICO

Job No 77-117.1	Sheet 13 Of 16
Drawn By JRJ	Date OCT., 1977
Checked By MJI	Scale No Scale