

1" = 20'

## LEGEND

	SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)
	PROPOSED ASPHALT
	BUILDING EXISTING, PROPOSED
	PROPERTY LINE
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED CONTOUR
	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
	LANDSCAPED AREA
	TOP OF GRADE WALL (< 15' HIGH)
	TOP OF RETAINING WALL (> 15' HIGH)
	TOP OF ASPHALT
	TOP OF CURB
	FLOW LINE
	FINISHED FLOOR
	RIGHT OF WAY
	PROPERTY LINE
	POWER POLE

## GENERAL NOTES:

LEGAL: LOT 8, JEFFERSON COMMONS, ALBUQUERQUE, NEW MEXICO

SURVEYOR: RONALD FORSTBAUER SURVEYING, ALBUQUERQUE, NEW MEXICO

B.M. 27 26 25  
34 35 35  
A STANDARD BLM BRASS CAP SET IN CONCRETE PROJECTING 10" ABOVE THE GROUND. CAP IS LOCATED APPROXIMATELY 350' NORTHWEST OF THE INTERSECTION OF SINGER AND MIDWAY PARK BLVD'S. NE ELEVATION = 5110.41

T.B.M. 'X' ON TOP OF CURB AT THE EXTENSION OF LOT 7/8 LOT LINE. ELEVATION = 5107.23

## SCOPE:

THE SITE IS A DEVELOPED LOT LOCATED WITHIN THE JEFFERSON COMMONS SUBDIVISION.

PROPOSED IMPROVEMENTS FOR THE SITE INCLUDE A 1600 SF DOCK ADDITION WITH ASSOCIATED ASPHALT REPAVING. NO INCREASE IN FLOWS WILL OCCUR DUE TO THE PROPOSED DEVELOPMENT.

FREE DISCHARGE OF DEVELOPED FLOWS INTO THE AMAFCA SECONDARY INTERCEPTOR DITCH LOCATED WEST OF THE SITE WILL CONTINUE AS ESTABLISHED BY THE MASTER DRAINAGE/GRADING PLAN FOR JEFFERSON COMMONS (APPROVED JANUARY 1990 AND REVISED AUGUST 1990). MOST OF THE SITE'S DEVELOPED FLOWS (80%) WILL CONTINUE TO PASS TO THE AMAFCA CHANNEL AT THE NORTHWEST PROPERTY CORNER. THE EXISTING AMAFCA RUNDOWN AT THIS LOCATION WILL BE LOWERED 0.5' TO ACCOMMODATE THE PROPOSED GRADES. AN EXISTING COBBLE-LINED SWALE ON THE SOUTH PROPERTY LINE CARRIES THE REMAINDER OF THE SITE'S RUNOFF TO A RUNDOWN LOCATED AT THE SOUTHWEST PROPERTY CORNER.

NO OFFSITE FLOWS AFFECT THE SITE.

## CALCULATIONS: (UNCHANGED FROM PREVIOUS SUBMITTAL)

AREA OF SITE: 21,083 SF = 0.50 ACRE

## NORTHWEST RUNDOWN:

AREA DRAINING TO NW = 17,033 SF = 0.40 ACRE

 $Q_{100} = C/A = 10.84(14.65)(0.40) = 10 \text{ CFS}$ FLOW CAPACITY - PER MANNING'S EQUATION WITH  $Q_{100} = 10 \text{ CFS}$ ,  $S = 3.5\%$  MIN.,  $W = 48'$ , AND  $N = 0.015$ , FLOW DEPTH = 0.1' **OK**

## SOUTHWEST RUNDOWN:

AREA DRAINING TO SW = 4,050 SF = 0.09 ACRE

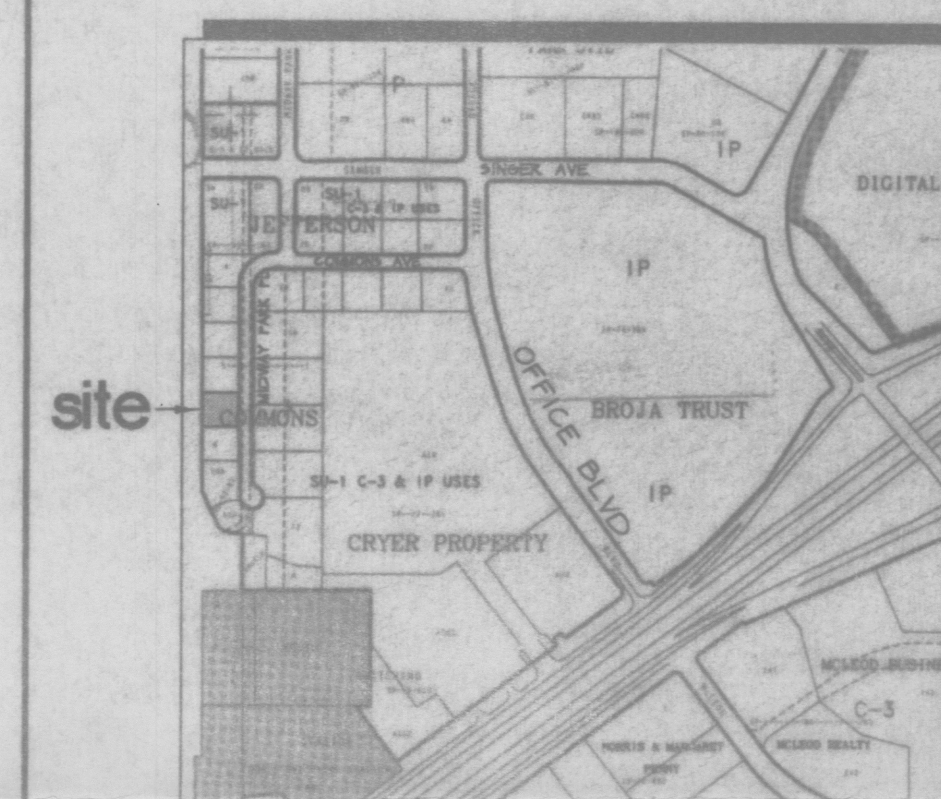
 $Q_{100} = C/A = 10.84(14.65)(0.09) = 0.4 \text{ CFS}$ FLOW CAPACITY - PER MANNING'S EQUATION WITH  $Q_{100} = 0.4 \text{ CFS}$ ,  $S = 3.5\%$  MIN.,  $W = 48'$ , AND  $N = 0.015$ , FLOW DEPTH = 0.1' **OK**

## RUNDOWN INLET CAPACITY (WORST CASE):

USING WEIR FORMULA,  $Q_{100} = CLH^{3/2}$ , WITH  $C = 2.68$ ,  $W = 4'$  AND  $H = 0.5'$  $Q_{100} = 3.8 \text{ CFS}$  RUNNING FULL > 16 CFS REQUIRED **OK**

## KEYNOTES

- EXISTING BUILDING / SITE FEATURES DASHED
- PROPOSED DOCK ADDITION SHADED
- REMOVE / REPLACE HATCHED ASPHALT PAVEMENT TO NEW GRADES AS SHOWN. MATCH EXISTING TOP OF PAVEMENT FOR SMOOTH TRANSITION
- ADDITION THIS AREA TO BE ACCESSED AT GRADE (OVERHEAD AND PEDESTRIAN DOORS) - SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION
- ADDITION THIS AREA TO BE 4' DOCK. CONSTRUCT 2" WIDE CONCRETE GUTTER AT SLOPE = 0.0050/ TO DIRECT SITE FLOWS NORTH
- TRANSITION PAVEMENT @ 3:1 AS SHOWN
- PROVIDE SHALLOW SWALE WITHIN ASPHALT PAVEMENT THIS AREA TO DIRECT ALL FLOWS WEST
- LOWER ENTRANCE TO EXISTING AMAFCA RUNDOWN 0.5' TO ALLOW FLOWS TO PASS. REMOVE / REPLACE RUNDOWN AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE TO CHANNEL. OWNER TO COORDINATE WITH AMAFCA
- ALL ROOF FLOWS TO BE RELEASED TO THE PROPOSED ON-SITE ASPHALT SWALE AT THE NORTH END OF THE PROPOSED BUILDING.



VICINITY MAP F-17



F.I.R.M. MAP



C.L. WEISS ENGINEERING, INC.

SANDIA PARK OFFICE  
POST OFFICE BOX 47  
SANDIA PARK, NM 87047  
(505) 261-1800  
ALVARADO OFFICE  
1100 ALVARADO DR. SE  
ALBUQUERQUE, NM 87102  
(505) 265-3444

## Revisions

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5531 Midway  
Jefferson Commons  
Lot 8 Building Addition

Chant and Associates

Scale: 1" = 20' Drawn By: D.J.D. Checked By: CLW Job Number: Date: MAY 2001

Drainage and  
Grading Plan

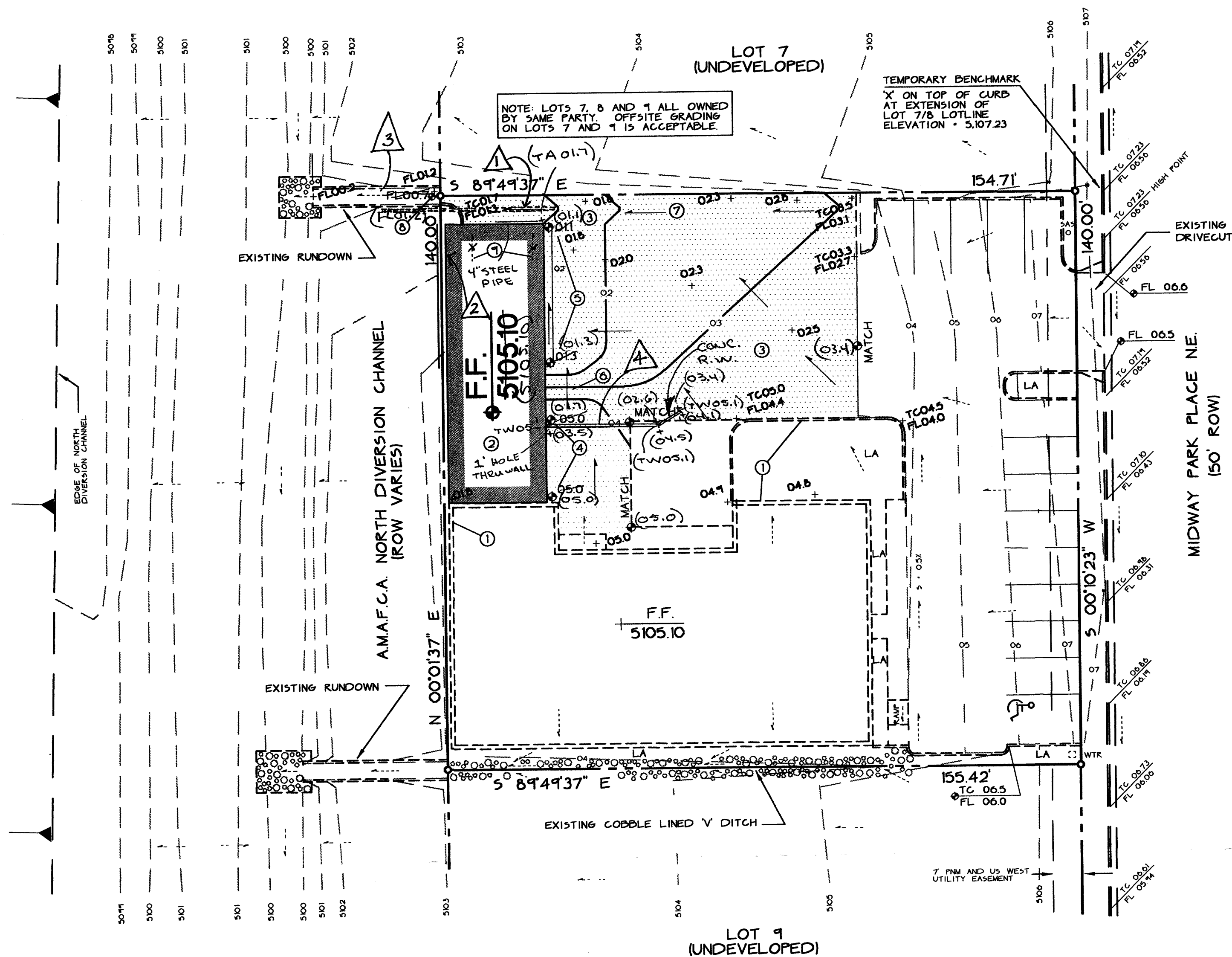
C-1  
Sh. 1 of 1

AMAFCA APPROVAL:

NAME

DATE





1" = 20'

## LEGEND

	SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)
	PROPOSED ASPHALT
	BUILDING EXISTING, PROPOSED
	PROPERTY LINE
	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED CONTOUR
	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
	LANDSCAPED AREA
	TOP OF GRADE WALL ( < 10' HIGH)
	TOP OF RETAINING WALL ( > 10' HIGH)
	TOP OF ASPHALT
	TOP OF CURB
	FLOW LINE
	FINISHED FLOOR
	RIGHT OF WAY
	PROPERTY LINE
	POWER POLE

### AREAS OF MODIFICATION BETWEEN APPROVED DRAINAGE GRADING PLAN AND ACTUAL AS-BUILT - JEFFERSON COMMONS - LOT 8 ADDITION

1. Shallow swale in asphalt to direct surface flow to AMAFCA rundown not constructed. 6" steel pipe installed at FL 01.1 to pass flows to AMAFCA North Diversion Channel. Note: If pipe ceases to function, flows will back up to elevation 01.7 (6" depth) before passing to north asphalt paved area to existing rundown.
2. Roof flow released to west side of building, captured within a PVC drainage system and released into the existing rundown. OKAY
3. Rundown not lowered (see note 1 above).
4. New concrete retaining wall constructed this area to achieve grade transition. OKAY

I, Christopher L. Weiss, P.E. hereby certify that the as-built information shown, is in substantial compliance with the approved drainage / grading plan with exceptions noted above.

CHRISTOPHER L. WEISS  
REGISTERED PROFESSIONAL ENGINEER  
NEW MEXICO  
#6653  
4-25-02

## GENERAL NOTES:

LEGAL: LOT 8, JEFFERSON COMMONS, ALBUQUERQUE, NEW MEXICO  
SURVEYOR: RONALD FORSTBAUER SURVEYING, ALBUQUERQUE, NEW MEXICO  
D.M. 27 26 34 35 A STANDARD BLM BRASS CAP SET IN CONCRETE PROJECTING 10" ABOVE THE GROUND CAP IS LOCATED APPROXIMATELY 350' NORTHWEST OF THE INTERSECTION OF SINGER AND MIDWAY PARK BLVD'S. NE. ELEVATION = 5110.41

T.B.M. 'X' ON TOP OF CURB AT THE EXTENSION OF LOTS 7/8 LOT LINE. ELEVATION = 5107.23

## SCOPE:

THE SITE IS A DEVELOPED LOT LOCATED WITHIN THE JEFFERSON COMMONS SUBDIVISION.  
PROPOSED IMPROVEMENTS FOR THE SITE INCLUDE A 1600 SF DOCK ADDITION WITH ASSOCIATED ASPHALT RETAVING. NO INCREASE IN FLOWS WILL OCCUR DUE TO THE PROPOSED DEVELOPMENT.

FREE DISCHARGE OF DEVELOPED FLOWS INTO THE AMAFCA SECONDARY INTERCEPTOR DITCH LOCATED WEST OF THE SITE WILL CONTINUE AS ESTABLISHED BY THE MASTER DRAINAGE/GRADING PLAN FOR JEFFERSON COMMONS (APPROVED JANUARY 1990 AND REVISED AUGUST 1990). MOST OF THE SITE'S DEVELOPED FLOWS (80%) WILL CONTINUE TO PASS TO THE AMAFCA CHANNEL AT THE NORTHWEST PROPERTY CORNER. THE EXISTING AMAFCA RUNDOWN AT THIS LOCATION WILL BE LOWERED 0.5' TO ACCOMMODATE THE PROPOSED GRADES. AN EXISTING COBBLE-LINED SWALE ON THE SOUTH PROPERTY LINE CARRIES THE REMAINDER OF THE SITE'S RUNOFF TO A RUNDOWN LOCATED AT THE SOUTHWEST PROPERTY CORNER.

NO OFFSITE FLOWS AFFECT THE SITE.

## CALCULATIONS: (UNCHANGED FROM PREVIOUS SUBMITTAL)

AREA OF SITE: 21,053 SF = 0.50 ACRE

## NORTHWEST RUNDOWN:

AREA DRAINING TO NW = 17,033 SF = 0.40 ACRE

$Q_{100} \cdot C1A = 10.84(14.05)(0.40) = 1.0 \text{ CFS}$

FLOW CAPACITY - PER MANNING'S EQUATION WITH  $Q_{100} = 1.0 \text{ CFS}$ ,  $S = 3.5\%$  MIN.,  $W = 48'$ , AND  $N = 0.015$ , FLOW DEPTH = 0.1' **OK**

## SOUTHWEST RUNDOWN:

AREA DRAINING TO SW = 4,050 SF = 0.09 ACRE

$Q_{100} \cdot C1A = 10.84(14.05)(0.09) = 0.4 \text{ CFS}$

FLOW CAPACITY - PER MANNING'S EQUATION WITH  $Q_{100} = 0.4 \text{ CFS}$ ,  $S = 3.5\%$  MIN.,  $W = 48'$ , AND  $N = 0.015$ , FLOW DEPTH = 0.1' **OK**

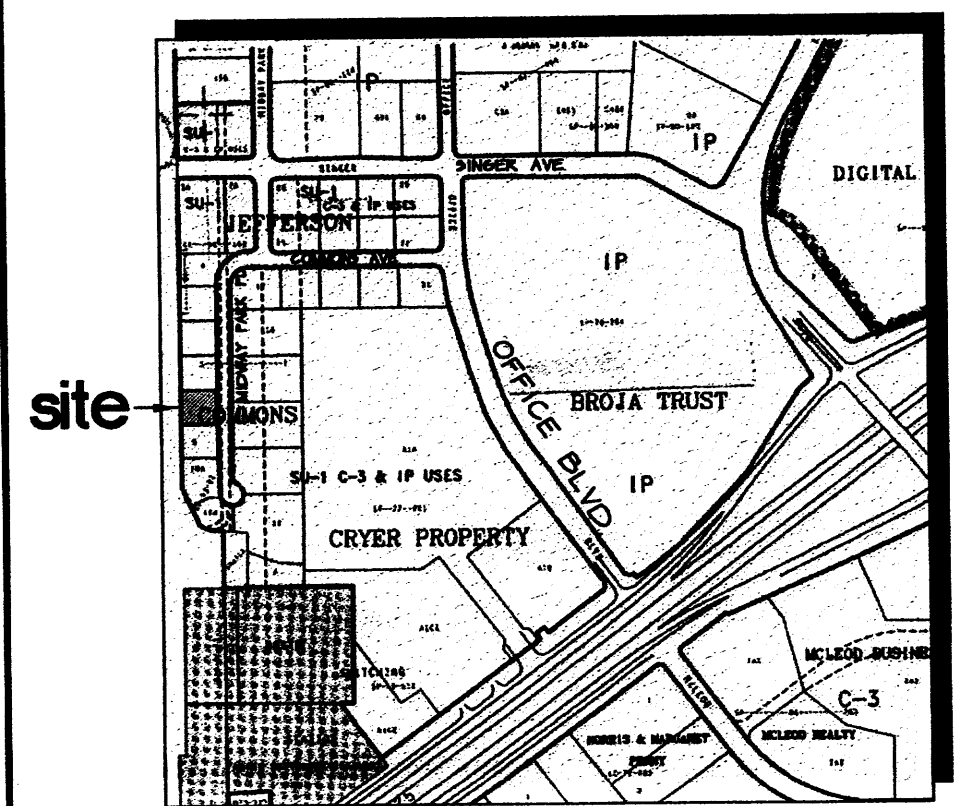
## RUNDOWN INLET CAPACITY (WORST CASE):

USING WEIR FORMULA,  $Q_{100} = CLH^{3/2}$ , WITH  $C = 2.65$ ,  $W = 4'$  AND  $H = 0.5'$ :

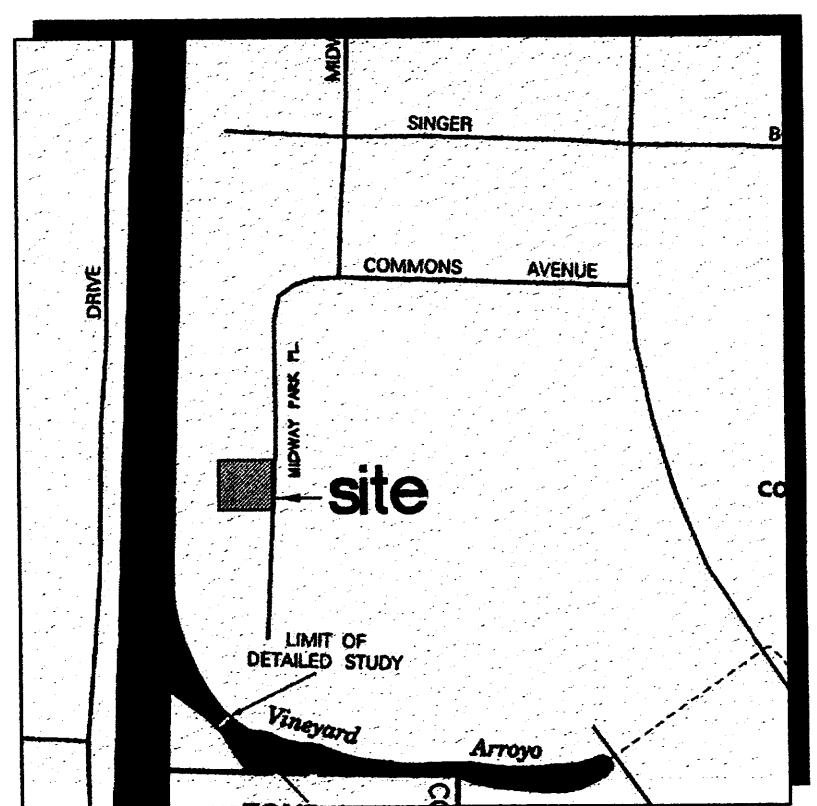
$Q_{100} = 3.8 \text{ CFS}$  RUNNING FULL > 1.0 CFS REQUIRED **OK**

## KEYNOTES

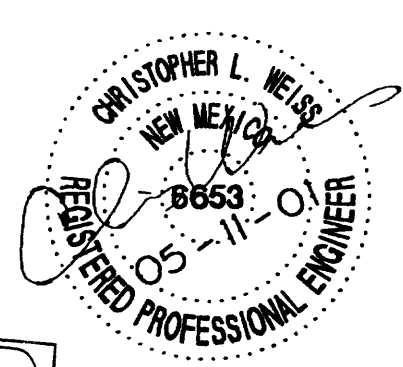
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2. PROPOSED DOCK ADDITION SHADED
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4. ADDITION THIS AREA TO BE ACCESSED AT GRADE (OVERHEAD AND PEDESTRIAN DOORS) - SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION
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VICINITY MAP F-17



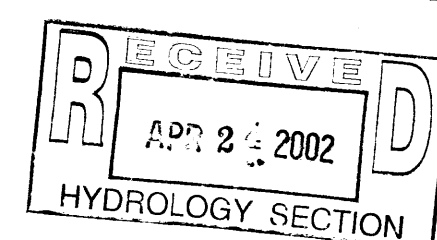
F.I.R.M. MAP



## C.L. WEISS ENGINEERING, INC.



SANDIA PARK OFFICE  
POST OFFICE BOX 97  
SANDIA PARK, NM 87047  
(505) 261-1800  
ALVARADO OFFICE  
1100 ALVARADO DR. NE  
ALBUQUERQUE, NM 87110  
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Revisions

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### Jefferson Commons Lot 8 Building Addition

Client and Associates

Scale: 1" = 20' Drawn By: BJB Checked By: CLW Job Number: MAY 2001

Drainage and  
Grading Plan

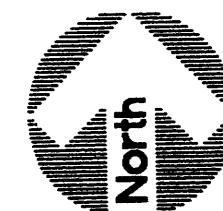
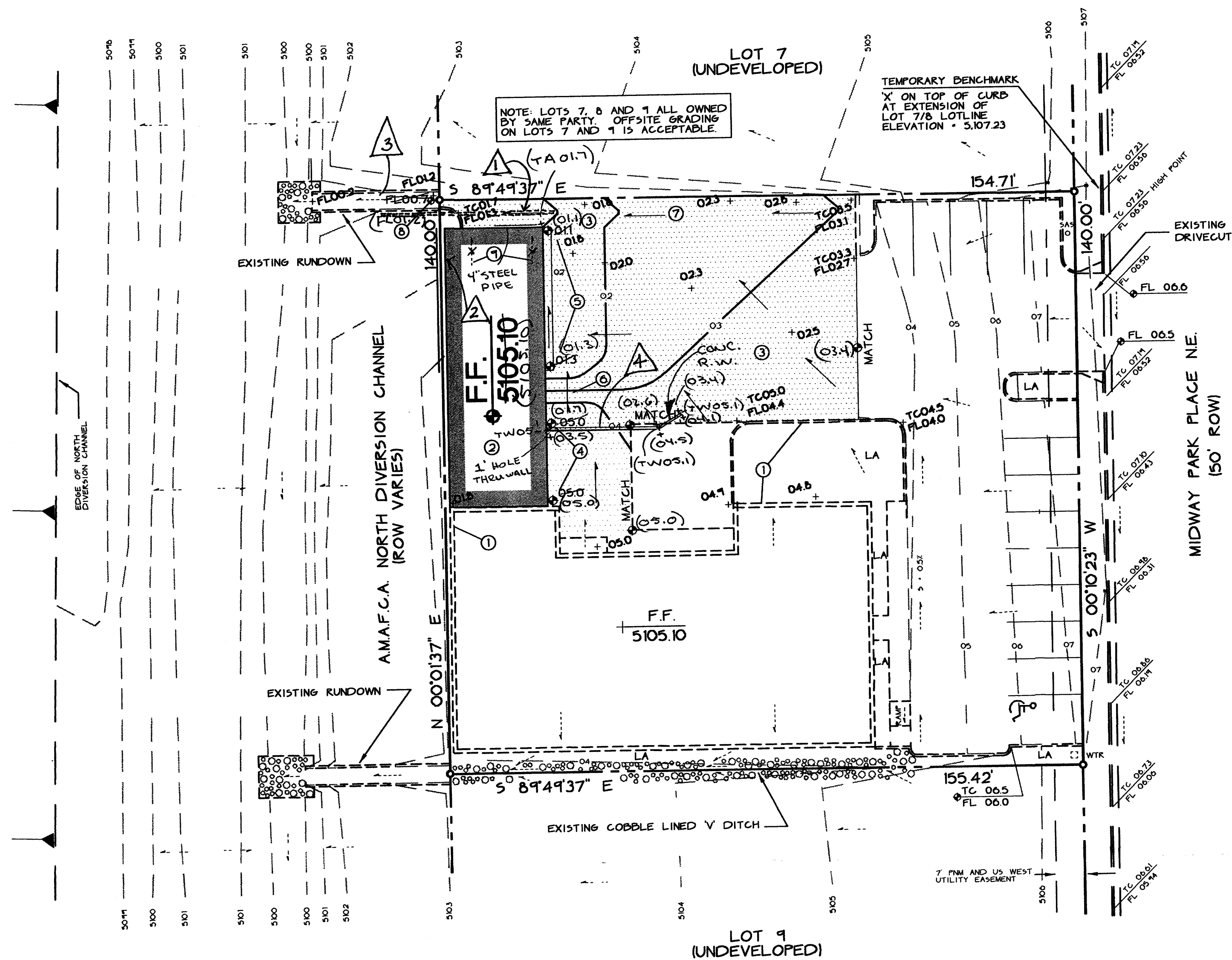
C-1  
Sheet 1 of 1

A.M.A.F.C.A. APPROVAL:

NAME

DATE





1" = 20'

## LEGEND

---	SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)
---	PROPOSED ASPHALT
---	BUILDING EXISTING, PROPOSED
---	PROPERTY LINE
X 05.7	EXISTING SPOT ELEVATION
20	EXISTING CONTOUR
75.2	PROPOSED SPOT ELEVATION
30	PROPOSED CONTOUR
---	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
LA	LANDSCAPED AREA
T&W	TOP OF GRADE WALL ( < 15' HIGH)
TRW	TOP OF RETAINING WALL ( > 15' HIGH)
TA	TOP OF ASPHALT
TC	TOP OF CURB
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FF	FINISHED FLOOR
R/W	RIGHT OF WAY
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PP	POWER POLE

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I, Christopher L. Weiss, P.E. hereby certify that the as-built information shown, is in substantial compliance with the approved drainage / grading plan with exceptions noted above.

Christopher L. Weiss  
 4-23-02  
 CHRISTOPHER L. WEISS P.E. - NMPE #6653

## GENERAL NOTES:

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 SURVEYOR: RONALD FORSTBAUER SURVEYING, ALBUQUERQUE, NEW MEXICO  
 B.M.: 27 26 34 35 A STANDARD BLM BRASS CAP SET IN CONCRETE PROJECTING 10" ABOVE THE GROUND CAP IS LOCATED APPROXIMATELY 350' NORTHWEST OF THE INTERSECTION OF SINGER AND MIDWAY PARK BLVD'S. NE ELEVATION = 5110.41

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## SOUTHWEST RUNDOWN:

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FLOW CAPACITY - PER MANNING'S EQUATION WITH  $Q_{100} = 0.4 \text{ CFS}$ ,  $S = 3.5\% \text{ MIN.}$ ,  $W = 48"$ , AND  $N = 0.015$ , FLOW DEPTH = < 0.1' **OK**

## RUNDOWN INLET CAPACITY (WORST CASE):

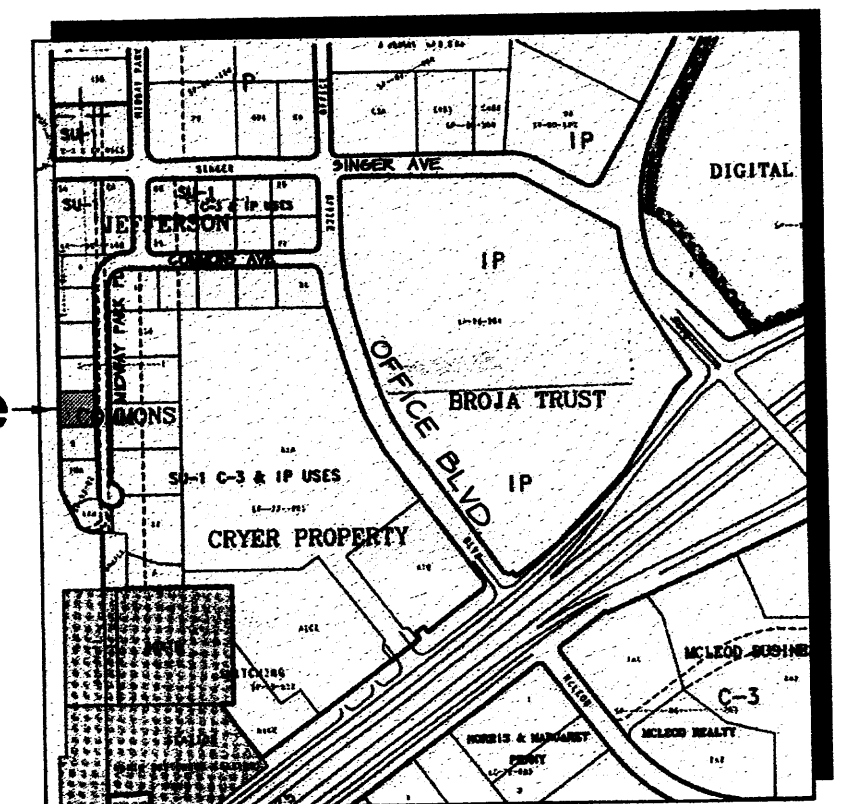
USING WEIR FORMULA,  $Q_{100} = CLH^{3/2}$ , WITH  $C = 2.08$ ,  $W = 4'$  AND  $H = 0.5'$ :

$Q_{100} = 3.8 \text{ CFS RUNNING FULL} > 1.0 \text{ CFS REQUIRED}$  **OK**

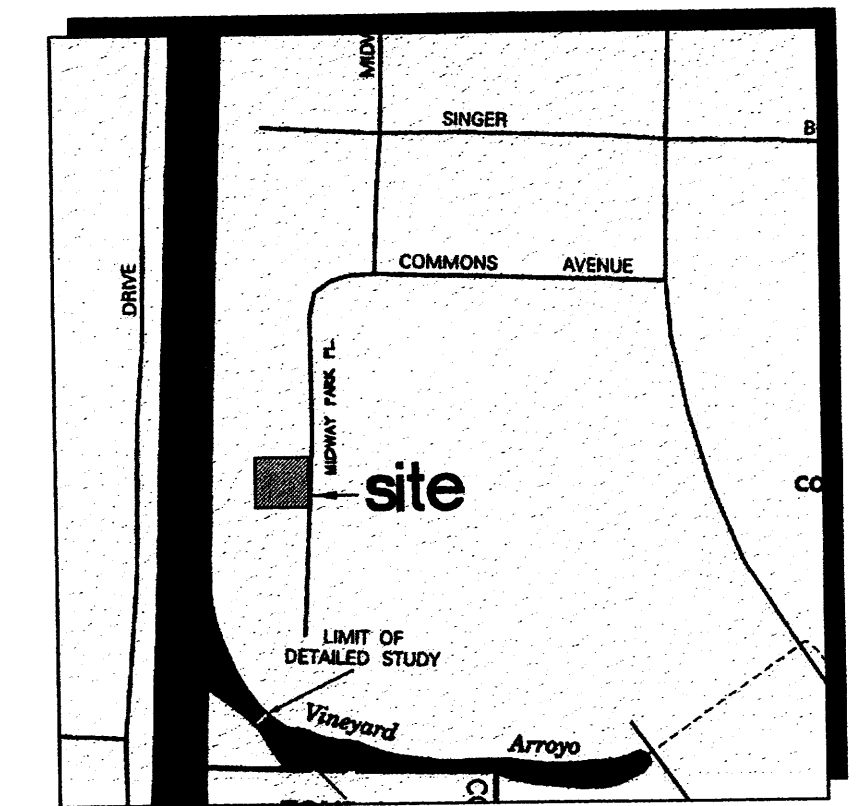
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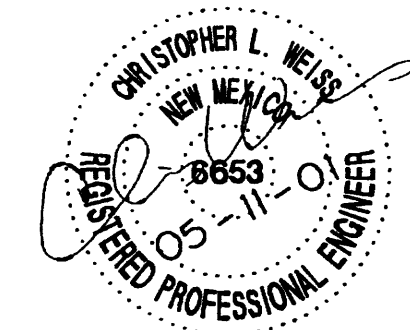
site



VICINITY MAP F-17



F.I.R.M. MAP



## C.L. WEISS ENGINEERING, INC.



SANDIA PARK OFFICE  
 POST OFFICE BOX 97  
 SANDIA PARK NM 87047  
 (505) 261-1800  
 ALVARADO OFFICE  
 100 ALVARADO DR. NE  
 ALBUQUERQUE, NM 87110  
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### Jefferson Commons Lot 8 Building Addition

Chart and Associates

Scale: 1" = 20' Drawn By: D.J.D. Checked By: Job Number: CLW Date: MAY 2001

Drainage and  
 Grading Plan

C-1  
 Sheet 1

AMAFCA APPROVAL:

NAME

DATE