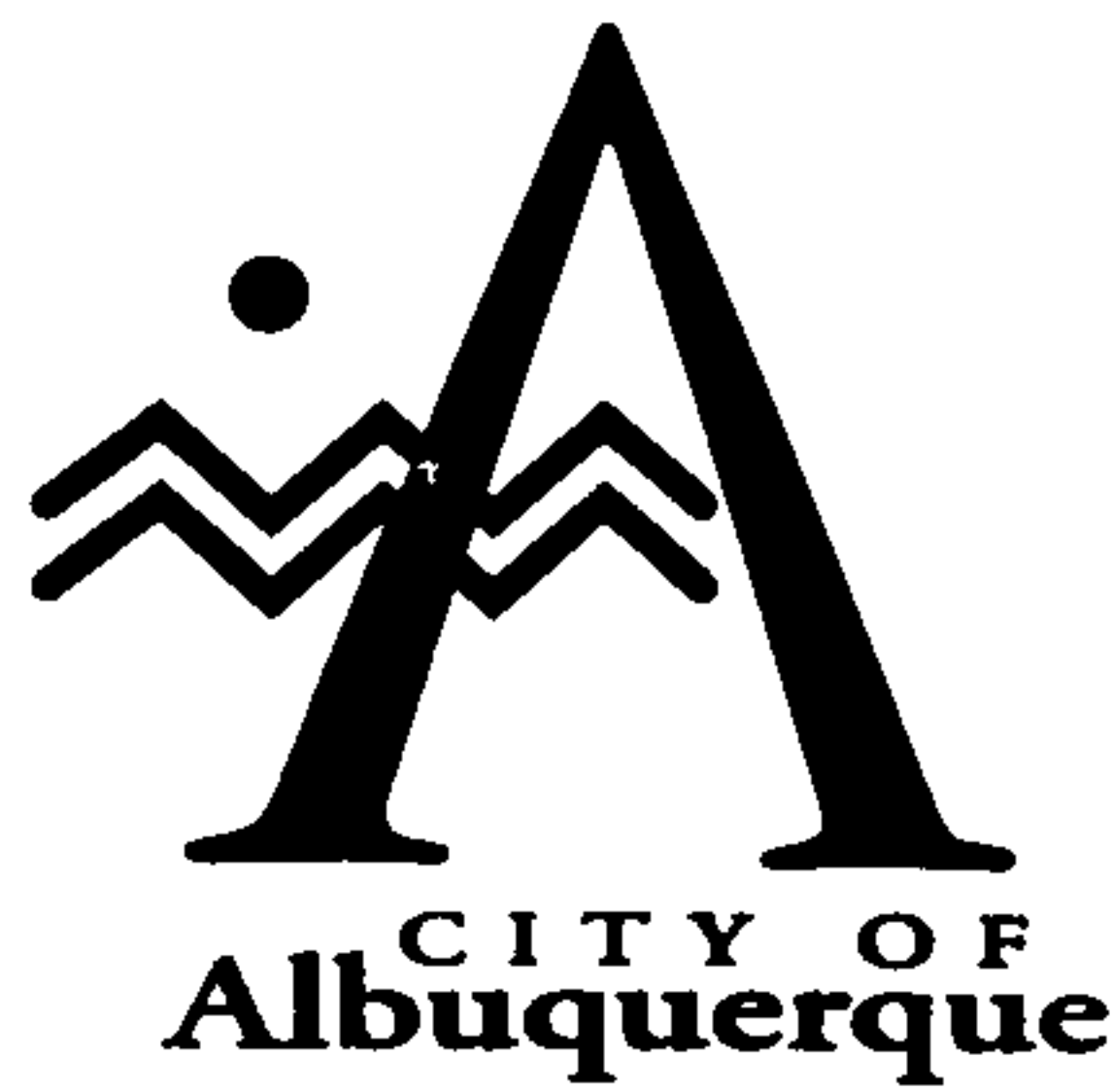




P.O. Box 1293 Albuquerque, NM 87103

September 13, 1996

Martin J. Chávez, Mayor

John M. MacKenzie, PE
D. Mark Goodwin & Assoc.
P.O. Box 90606
Albuquerque, NM 87199

RE: ENGINEER'S CERTIFICATION FOR STATE BAR ASSOC (D-17/D3S)
RECEIVED AUGUST 26, 1996 FOR CERTIFICATE OF OCCUPANCY
ENGINEER'S STAMP DATED 8-26-96

Dear Mr. MacKenzie:

Based on the information included in the submittal referenced above, City Hydrology accepts the engineer's certification for certificate of occupancy. Contact Vicki Chavez at Code Enforcement to obtain the Certificate of Occupancy for 5121 Masthead NE.

If I can be of further assistance, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.
Civil Engineer, Hydrology

c: Andrew Garcia

Good for You, Albuquerque!





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 8, 1995

John MacKenzie, PE
Mark Goodwin & Assoc.
P.O. Box 90606
Albuquerque, NM 87199

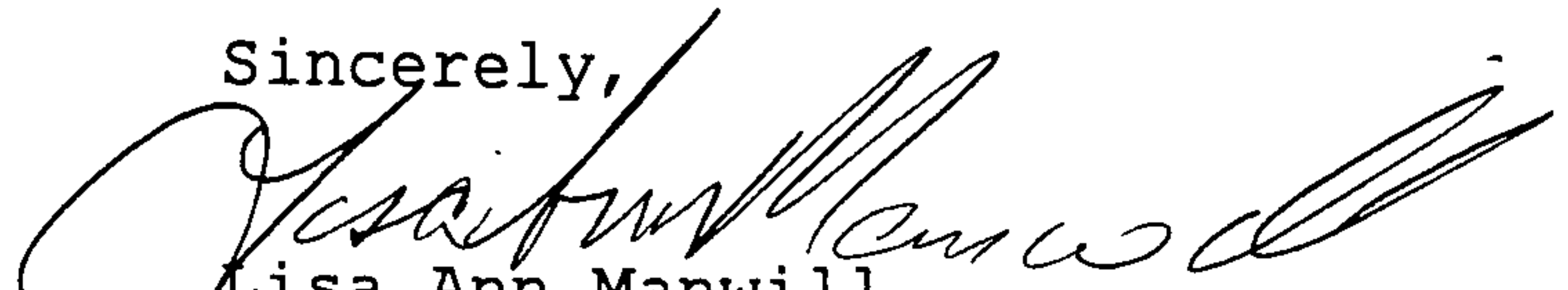
**RE: STATE BAR ASSOCIATION (D17-D3S) DRAINAGE AND GRADING PLAN
FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED
NOVEMBER 13, 1995.**

Dear Mr. MacKenzie:

Based on the information provided on your December 7, 1995
submittal, the above referenced project is approved for
Building Permit.

If I can be of further assistance, please feel free to contact me
at 768-3622.

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Parcel _____
ZAP _____
File _____
PC Date _____

PRIVATE LICENSE AGREEMENT
STORM SEWER PENETRATION
JOURNAL CENTER - ~~N.M. STATE BAR ASSOCIATION~~ OF NEW MEXICO

ful
RUE

WHEREAS, the ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY (AMAFCA) own and maintains the North Pino Arroyo Channel within the Journal Center, a concrete lined channel from I-25 to the North Diversion Channel as shown on the Replat of the Journal Center, filed for public record on the 30th day of June 1983 in Volume C21 Folio 126, and,

WHEREAS, the firm of Mark Goodwin and Associates who represents ~~N.M. Bar Association~~ (OWNER) have requested two licenses to enter on said Tract for the purpose of constructing two twelve (12) inch Storm Drains (DRAINS) within the above mentioned AMAFCA right-of-way and concrete lined channel.

STATE BAR OF NEW MEXICO

ful
RUE

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged:

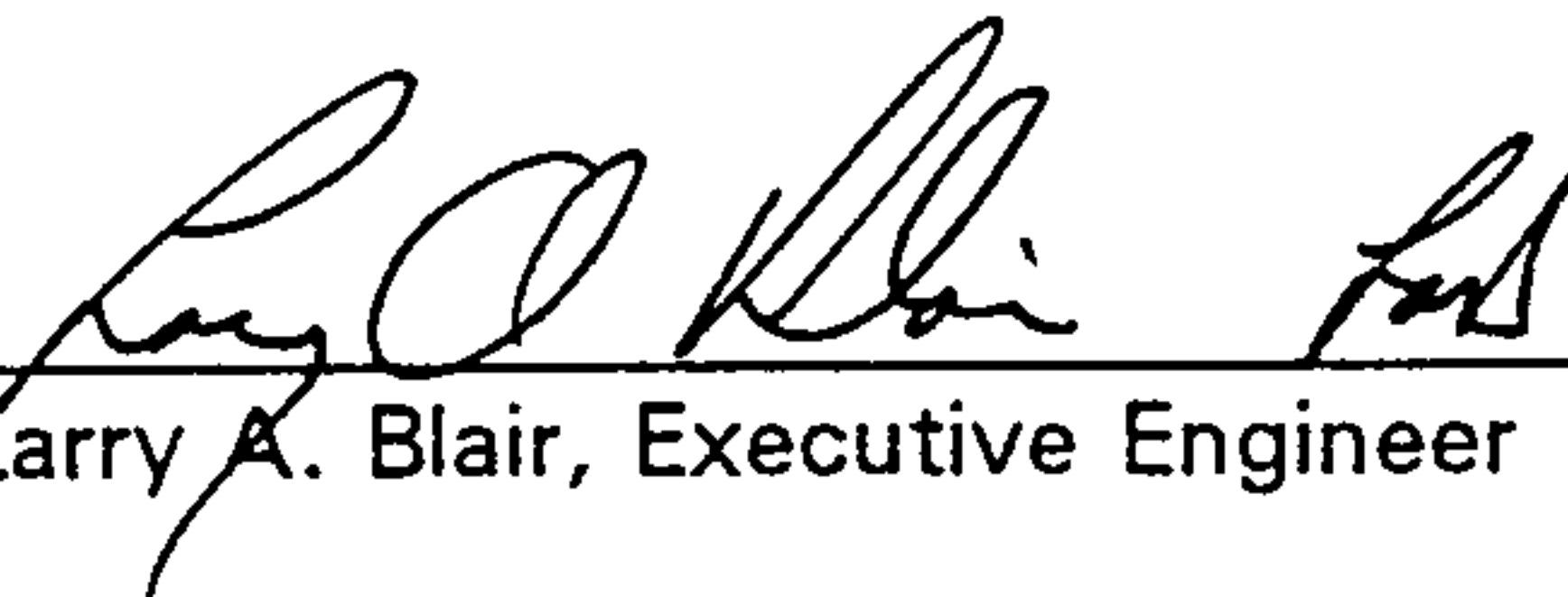
AMAFCA hereby grants to the OWNER, its successors and assigns, a license to enter upon the AMAFCA right-of-way in the area shown on attached Exhibit "A", and to construct, operate and maintain the DRAINS subject to the following terms and condition:

1. The OWNER shall obtain AMAFCA's written approval for the following:
 - a. All construction drawings for installation of these facilities. These drawings, as approved, shall become a part of this license and shall be in substantial conformance with Exhibit "B" attached hereto.
 - b. Future repair, modification, removal or other activities affecting the completed DRAINS.
2. All construction, operation, maintenance, repair, relocation and removal of the DRAINS shall be accomplished at sole expense of the OWNER and in such a manner as will not damage or interfere with the operation and maintenance of AMAFCA's flood control facilities.
3. The OWNER shall be responsible for all damages caused by construction activities. To ensure repairs of such damages, the OWNER shall require the contractor to purchase Standard Form Owner's Protective Liability insurance naming AMAFCA as additional named insured in the amounts specified in Section 107.22 "Insurance Requirements" of the NMSHD Standard Specifications for Road and Bridge Construction, 1984 Edition.
4. The OWNER shall notify AMAFCA in writing two days before beginning work on AMAFCA right-of-way.
5. Construction within the AMAFCA right-of-way or any impairment to the flood-carrying ability of the arroyo within the easement, shall be restricted to the period between October 15 and May 15. At all other times, the arroyo water way shall be in original or final condition, and excavations and other land alteration shall be returned to their original contours and compacted condition.

- _____ 6. Construction within the limits of the AMAFCA right-of-way shall be subject to inspection by
_____ AMAFCA's Executive Engineer or his designated representative.
- _____ 7. All materials to be used in the construction within the AMAFCA right-of-way shall be subject
_____ to inspection by AMAFCA, in coordination with the OWNER's Construction Manager.
- _____ 8. The OWNER shall save and hold AMAFCA harmless from all claims and judgments from
_____ damages and injury to property and persons arising from the construction, operation,
maintenance, relocation and removal of such facilities and equipment, and shall reimburse
AMAFCA of all costs and expenses incurred by AMAFCA arising from the installation, operation
or maintenance or removal of the facilities. ~~Determination of whether damage has occurred~~
~~shall be by AMAFCA.~~ (RUE) ^{ful}
- _____ 9. The OWNER shall provide AMAFCA with two sets of "as-built" blackline copies within thirty
_____ (30) days of completion of work.
- _____ 10. This license and all right and privileges herein granted may be terminated by AMAFCA should
_____ the OWNER fail to comply with provisions of this License, fail to follow approved construction
drawings, or fail to make use of the premises for the purposes stated herein for a continuous
period of one year.

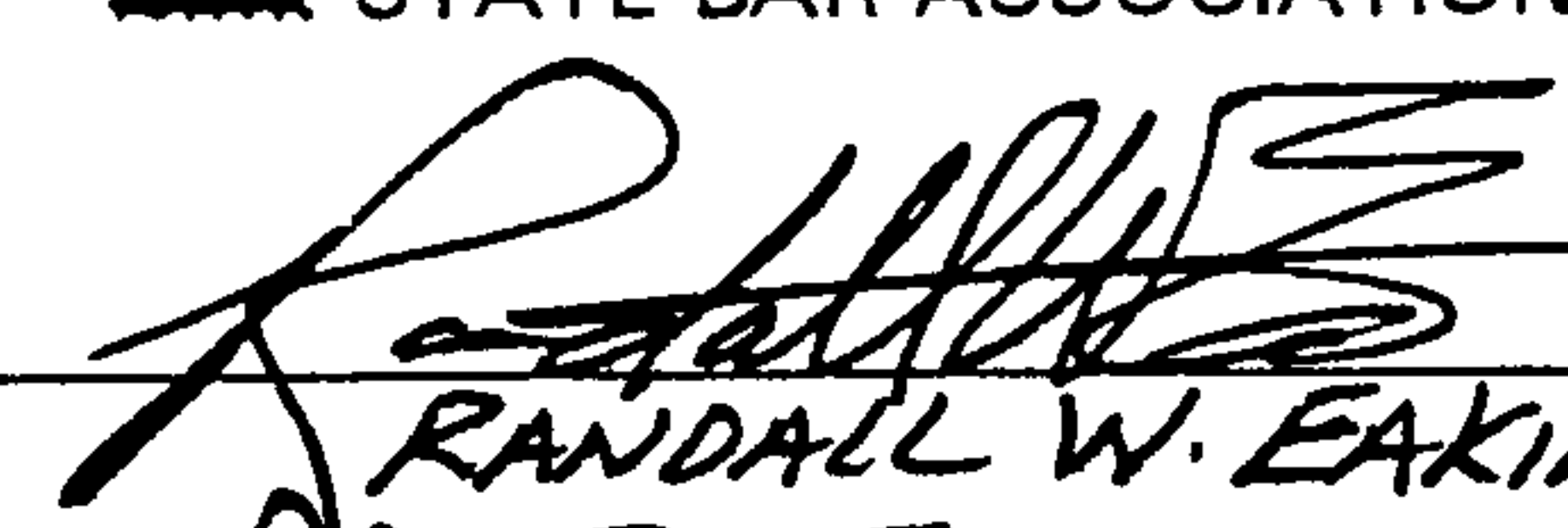
The provisions hereof shall inure to the benefit of and bind the heirs, executors, administrators, successors, and assigns of the parties hereto.

ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

By:  11/20/95
Larry A. Blair, Executive Engineer Date

OWNER (or official representative):

~~NEW~~ STATE BAR ASSOCIATION OF NEW MEXICO (RUE)

By:  11-10-95
RANDALL W. EAKIN Date

Its: PROJECT MANAGER

**License Agreement
Private Storm Sewer Penetration
State Bar Association of New Mexico
North Pino Arroyo**

Exhibit B to Agreement shall be:

Sheet 1 of 1, titled

"Bar Association Building, Grading & Drainage Plan"

By: D. Mark Goodwin & Associates, P.A.
Stamped by John M. MacKenzie, N.M.P.E. # 11619
Dated 11/13/95
Approved by AMAFCA 11/21/95

Plan is on file at AMAFCA and OWNER

EXHIBIT B



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 13, 1995

John MacKenzie, PE
Mark Goodwin & Assoc.
P.O. Box 90606
Albuquerque, NM 87199

**RE: STATE BAR ASSOCIATION (D17-D3S) DRAINAGE AND GRADING PLAN
FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED
NOVEMBER 7, 1995.**

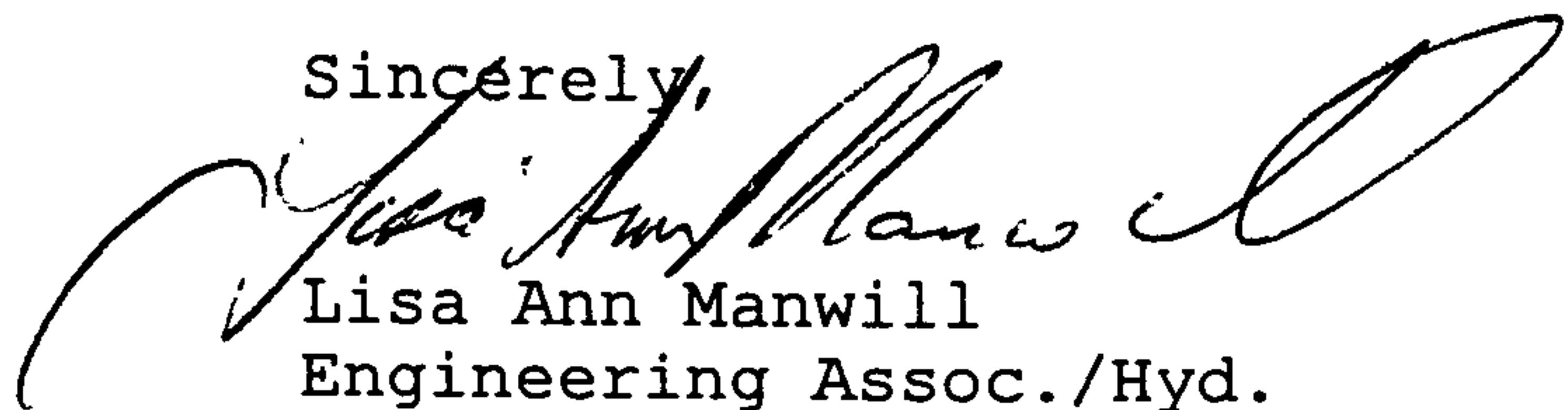
Dear Mr. MacKenzie:

Based on the information provided on your November 8, 1995
submittal, the above referenced project will be approved for
Building Permit upon AMAFCA's concurrence.

Please submit a copy of AMAFCA's approval and any drawing
changes required by AMAFCA. It would be helpful if you use
revision notes or outline in a letter any changes to the plans.

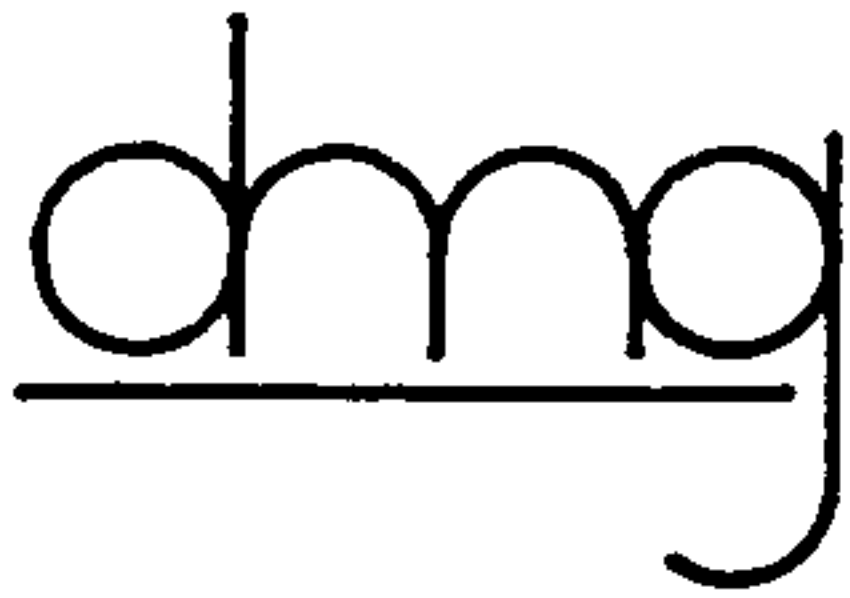
If I can be of further assistance, please feel free to contact me
at 768-3622.

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File



D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS & SURVEYORS

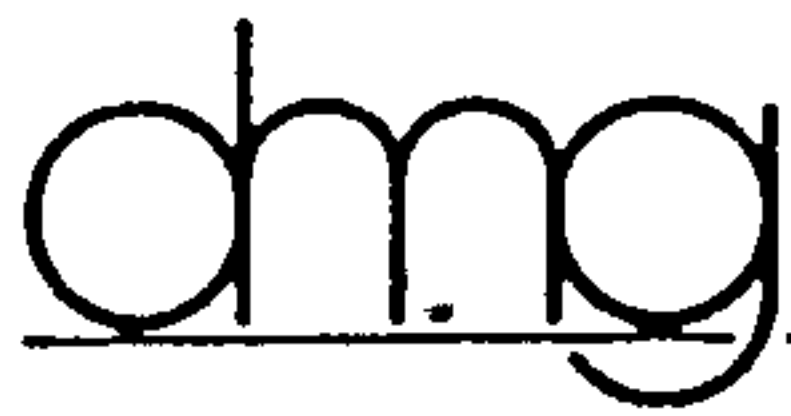
PROJECT Star - Bar Assoc.
SUBJECT Drainage
BY JMM DATE 11/6/95
CHECKED _____ DATE _____
SHEET _____ OF _____

SIDEWALK CULVERT

The proposed sidewalk culvert will be analyzed
as follows: $Q = 4.14$ cfs from ATT-100

$$L = \frac{Q}{2.9(H)^{1.5}} = \frac{4.14}{2.9(0.5)^{1.5}} = 4.03 \text{ ft}$$

USE 4'
opening



D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT State of New Mexico
SUBJECT Drainage
BY GMM DATE 8/20/93
CHECKED _____ DATE _____
SHEET _____ OF _____

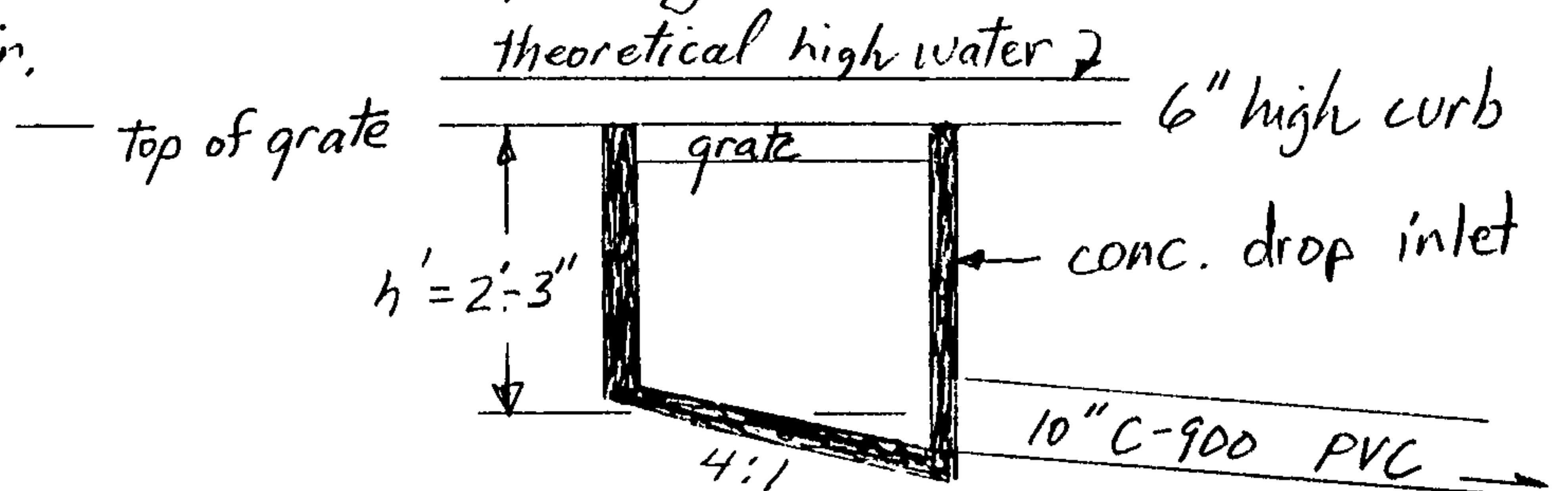
Typc "D" Inlet Capacity

Based upon std. dwg. 2220, the grate's open area was found to be 4.438 ft

$$Q = CA\sqrt{2gh} = 0.8(4.44)\sqrt{2(32.2)(0.25)}$$

$$Q = 14.25 \text{ cfs}$$

The pipe to the North Pino Arroyo will consist of 10" diam. C-900 PVC. The opening will be the controlling factor.



$$Q = CA\sqrt{2gh}$$

$$Q = 0.8(0.545)\sqrt{2(32.2)2.75}$$

$$Q = 5.80 \text{ cfs}$$

SECTION
no scale



D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT Sta Bar Building
SUBJECT Drainage
BY JMM DATE 6/30/93
CHECKED _____ DATE _____
SHEET _____ OF _____

This site will be separated into 3 drainage basins, 2 discharging into the North Pino Arroyo and a third discharging into Masthead Street N.E. Two concrete channels will be constructed to convey surface runoff into the North Pino.

From AHYMO, the total runoff will be 2.81 cfs during peak runoff of the 100 year - 6 hour storm. From this, the runoff reaching the 12" wide channel that serves drainage basin B will be 1.36 cfs, based upon the areal percentage of this watershed. To minimize grade changes in the western parking lot area, a small portion of the parking area at the southwest corner of the site will drain into Masthead Street N.E.

A large portion of Basin B will drain directly into the North Pino via landscape and roof drain conveyance. Drainage basin A will be sloped toward the west and discharged into the North Pino via a concrete channel at the northwest corner of the site. A 24' wide concrete channel/sidewalk culvert will convey runoff from the southern parking area of drainage basin A to the western parking lot. The sizing of this and this basin's discharge channel follows

JUN 30 1993

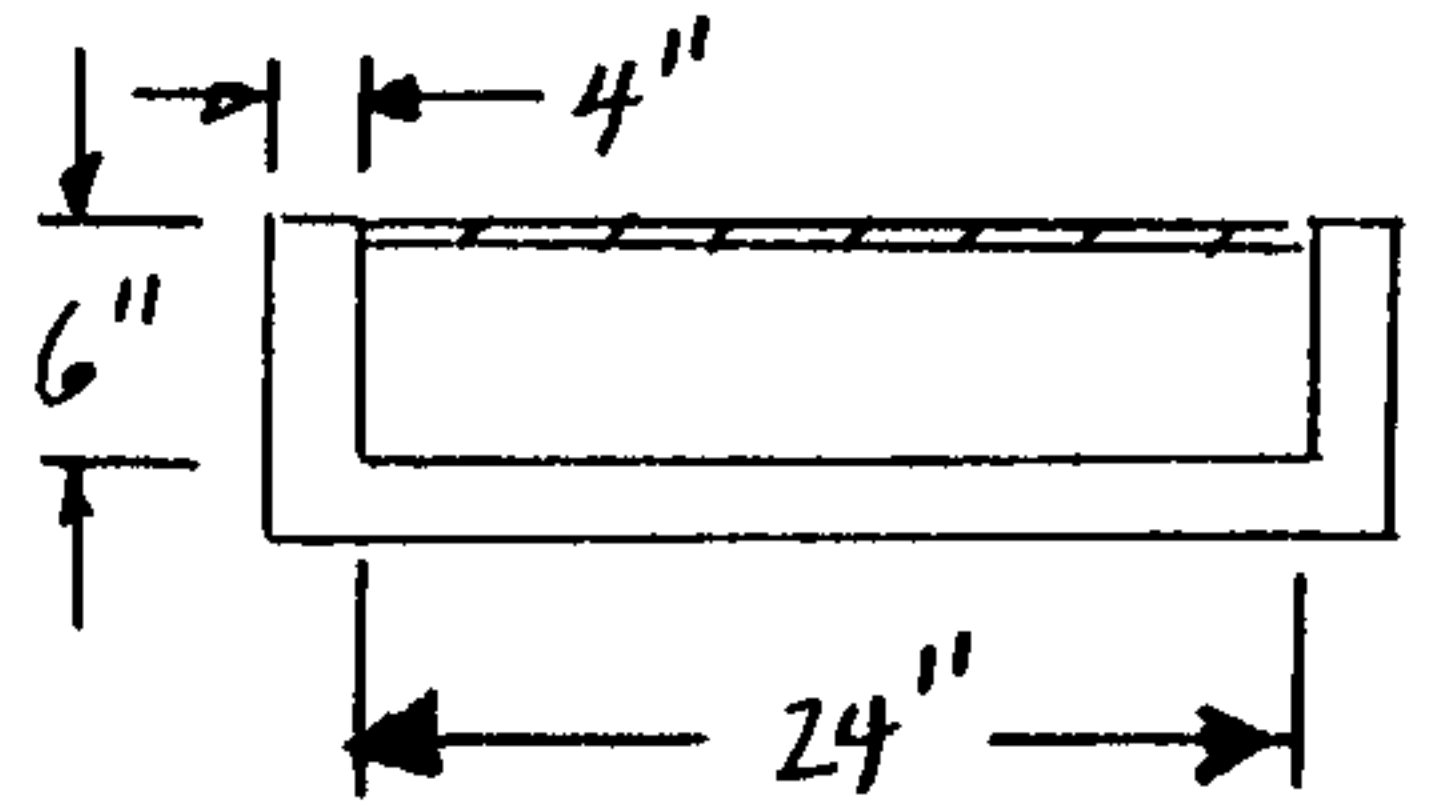
RECEIVED



D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

PROJECT Sta Bar Building
SUBJECT Drainage
BY JMM DATE 6/30/93
CHECKED _____ DATE _____
SHEET _____ OF _____

Sidewalk Culvert in Drainage Basin A



$$WP = 3' \quad \text{Area} = 1 \text{ ft}^2$$

$$r_H = \frac{1}{3} = 0.33$$

$$\text{slope} = 0.75\%$$

N.T.S.

$$Q = \frac{1.49}{.015} (1) (0.33)^{0.67} (.0075)^{0.5} \quad Q = 2.70 (2') (.5')^{3/2} = 1.9 \text{ cfs}$$

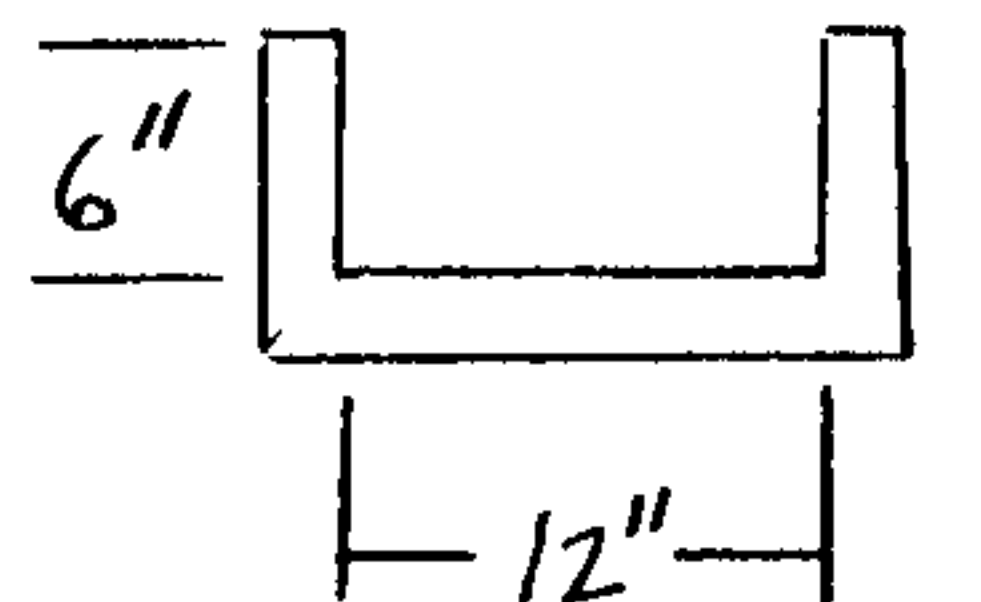
$$Q = 4.12 \text{ cfs}$$

Based upon the area of the south parking lot, the flow this channel need to convey relative to the total on-site runoff is 4 cfs.

Concrete Channel Discharging Basin A Runoff

$$WP = 2' \quad \text{Area} = 0.5 \text{ ft}^2$$

$$r_H = \frac{0.5}{2} = 0.25 \quad \text{slope } 17.91\%$$



N.T.S.

$$Q = \frac{1.49}{.015} (0.5) (0.25)^{0.67} (.01791)^{0.5} \quad Q = 2.70 (1') (.5')^{3/2} = .95 \text{ cfs}$$

$$Q = 8.30$$

This basin will discharge 5.12 cfs

The 12" wide channel discharging parking lot runoff from Basin B will have substantially more than capacity than the 1.36 cfs required.

301000