



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 2, 2002

James D. Hughes, P.E.  
D. Mark Goodwin & Associates, PA  
P.O. Box 90606  
Albuquerque, NM 87199

**Re: Broadway Industrial Center Lot 8 Grading and Drainage Plan,  
Engineer's stamp dated 10/29/02 (M15/D38)**

Dear Mr. Hughes,

Based on our discussion today regarding your submittal dated October 29, 2002, Hydrology approves the above referenced plan for Grading. Please void my previous rejection letter dated November 27, 2002, as you have addressed the comments I had as follows:

- 1) Regarding the existing 10-inch water line across the site:  
You indicated that the contractor that relocated the 10-inch line to the easement west of the site's west property line has already cut and capped the original 10-inch line so that it is not connected to the public water system. In addition, the same contractor will be performing the site grading on Lot 8.
- 2) The contractor will be adjusting all valve cans and manhole rims as needed.
- 3) TCL approval is not required on this site.

Once the construction is complete, please send Hydrology a certified as-built for our file. If you have any questions, please call me at 924-3988.

Sincerely,

Nancy Musinski, P.E.  
Hydrology/Utility Development  
City of Albuquerque Public Works

xc: File



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 27, 2002

James D. Hughes, P.E.  
D. Mark Goodwin & Associates, PA  
P.O. Box 90606  
Albuquerque, NM 87199

*See 12/02 letter*

**Re: Broadway Industrial Center Lot 8, Engineer's stamp dated 10/29/02 (M15/D38)**

Dear Mr. Hughes,

Based on the information provided in your submittal dated October 29, 2002, I must reject the above referenced plan for Grading and Paving permits until you address the following comments (see Sheet 3 of the submittal):

- 1) The existing 10-inch water line across the site:
  - Where does this line go after it leaves the site just south of the proposed water meter?
  - The line should be cut and capped north of the tee in the public water easement north of the existing 48-inch storm drain.
- 2) There is a note to locate the existing gate valve and adjust to 6 inches above new grade. It also says ADJUST FL MIN. 10' CLEARANCE. Clearance to what? And what about the existing gate valve shown just north of that one?
- 3) If you are submitting for TCL approval, the TCL needs a submittal sheet.

If you have any questions, please call me at 924-3988.

Sincerely,

Nancy Musinski, P.E.  
Hydrology/Utility Development  
City of Albuquerque Public Works

xc: File

\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

TRANSMISSION OK

TX/RX NO 3221  
CONNECTION TEL 92378422  
SUBADDRESS  
CONNECTION ID  
ST. TIME 11/25 11:02  
USAGE T 00'29  
PGS. 1  
RESULT OK



**City of Albuquerque**

P.O. BOX 1293 ALBUQUERQUE, NEW MEX.

November 25, 2002

LARRY READ  
FAX: 237-8422

Larry Read, P.E.  
Larry Read & Associates  
4800-C Juan Tabo NE  
Albuquerque, NM 87111

Re: La Mesa Inn Grading & Drainage Plan,  
with Engineer's stamp dated 10/16/02

(K-19/D128)

Dear Mr. Read,

Based on the information that you provided in your submittal dated October 21, 2002, Hydrology requires you address the following comment before approval for Building Permit and SO-19:

- Along the east side of the property, the 6-ft-wide swale cannot fit in the 3-ft-wide space between the curb and the existing CMU wall. Based on a maximum flow of 2 cfs, a 2-ft-wide rectangular concrete channel would be adequate. Please provide a detail to show how the flow shall move through this bottleneck area.

If you have any questions, please call me at 924-3988.

Sincerely,

Nancy Musinski, P.E.  
Hydrology/Utility Development  
City of Albuquerque Public Works

MIS/D38

M-15 & M-14

Gett?

SH 1

- 1.) paragraph under Hydrology Notes is hard to read w/ run together sentences.
  - 2.) Maintenance responsibility for on site drainage facilities?
  - 3.) SD MH @ SW cor of site sits on a slope  
(adjust min to height?)
- 

SH 2 needs a TCL submitted sheet.

SH 3.

- what is in the 35' PNM easement besides the private  $\phi$  & SAS w/ clearcuts? All overhead wires!
- Ex. 10"  $\phi$  abandoned in place -
  - Was this a public  $\phi$ ? Where does it go?
  - Need to cut & cap at connections to public  $\phi$
- Note to locate Exist. GV - what about the other GV just a few ft north?

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

P.O. Box 90606 ♦ Albuquerque, NM 87199  
(505) 828-2200 ♦ (505) 797-9539 fax  
e-mail: dm@swcp.com

LETTER OF TRANSMITTAL

TO: CITY OF ALBUQUERQUE  
ONE STOP

DATE: October 29, 2002  
SUBJECT: LOT 8, BROADWAY  
INDUSTRIAL CENTER

We are sending:

Quantity	Date	Description
1		COPY OF GRADING & DRAINAGE PLAN
1		BACK UP CALC,S

☒ For your approval

☐ For your records

☐ As you requested

☒ For your comments

GIVE US A CALL IF YOU HAVE ANY QUESTIONS.

Project Engineer ;DOUG HUGHES , P.E.

Signed: Dave Starr  
Dave Starr



\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

TRANSMISSION OK

TX/RX NO	3238
CONNECTION TEL	9p7979539
SUBADDRESS	
CONNECTION ID	MARK GOODWIN
ST. TIME	11/27 16:58
USAGE T	00'32
PGS.	1
RESULT	OK



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO

November 27, 2002

ORIGINAL TO  
FOLLOW VIA USPS

Thanks,  
Nancy M

James D. Hughes, P.E.  
D. Mark Goodwin & Associates, PA  
P.O. Box 90606  
Albuquerque, NM 87199

**Re: Broadway Industrial Center Lot 8, Engineer's stamp dated 10/29/02 (M15/D38)**

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- 3) If you are submitting for TCL approval, the TCL needs a submittal sheet.

If you have any questions, please call me at 924-3988.

Sincerely, 

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

M-15/D38

PROJECT TITLE: Lot 8, Broadway Industrial CenterZONE MAP/DRB FILE#: M-15-E

DRB#: \_\_\_\_\_ EPC# \_\_\_\_\_

WORK ORDER#: \_\_\_\_\_

LEGAL DESCRIPTION: Lot 8, Unit 3, Broadway Industrial Center Subdivision, Within Sec. 32,CITY ADDRESS: T. 10 N., R. 3 E. N.M.P.M., Bernalillo Co., N.M.ENGINEERING FIRM: Mark Goodwin & Associates, PACONTACT: Doug HughesADDRESS: P.O. Box 90606 Albuquerque NM 87119PHONE: 828-2200CITY, STATE: Albuquerque NMZIP CODE: 87119OWNER: C & W Land DevelopmentCONTACT: Rex WilsonADDRESS: 4619 Inspiration S.E.PHONE: 450-2395CITY, STATE: A/B.ZIP CODE: 87108

ARCHITECT: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

SURVEYOR: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

## CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERTIFICATION (TCL)
- ☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

- ☐ SIA / FINANCIAL GUARANTY RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP)
- ☒ GRADING PERMIT APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: Oct. 29, 2002BY: Dave Harr

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5).
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5).
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

# MAN-MADE CHANNELS

## VARIABLES LIST:

Y - FLOW DEPTH  
Q - FLOWRATE

B - CHANNEL BOTTOM WIDTH  
M - CHANNEL SIDE SLOPE

S - CHANNEL SLOPE  
N - CHANNEL ROUGHNESS

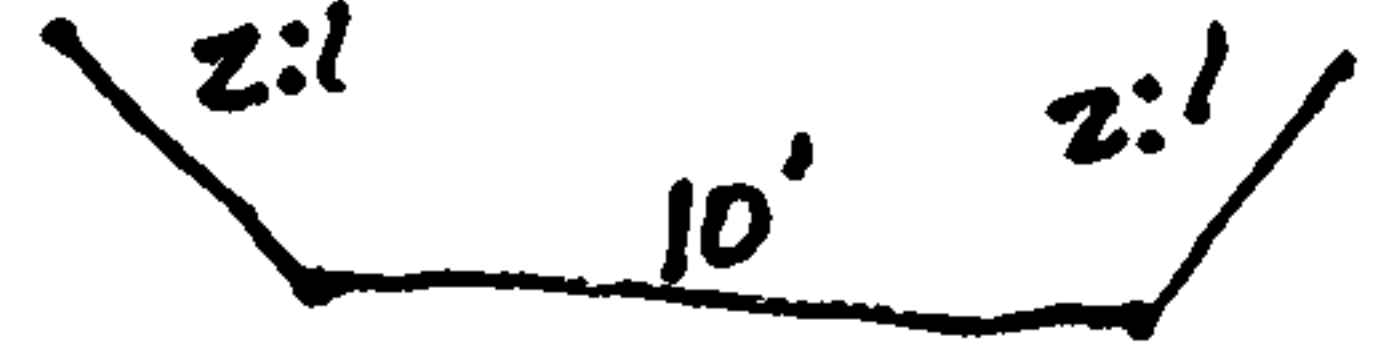
VARIABLE TO BE SOLVED (Y,Q,B,M,S OR N) ? Y

Q (CFS) ? 34  
B (FT) ? 10  
M (FT/FT) ? .5  
S (FT/FT) ? .007  
N (FT<sup>1/6</sup>) ? .04

## RESULTS

=====

Y= 1.09 FT  
A= 11.52 SF  
P= 12.44 FT  
V= 2.95 FPS  
F= 0.51



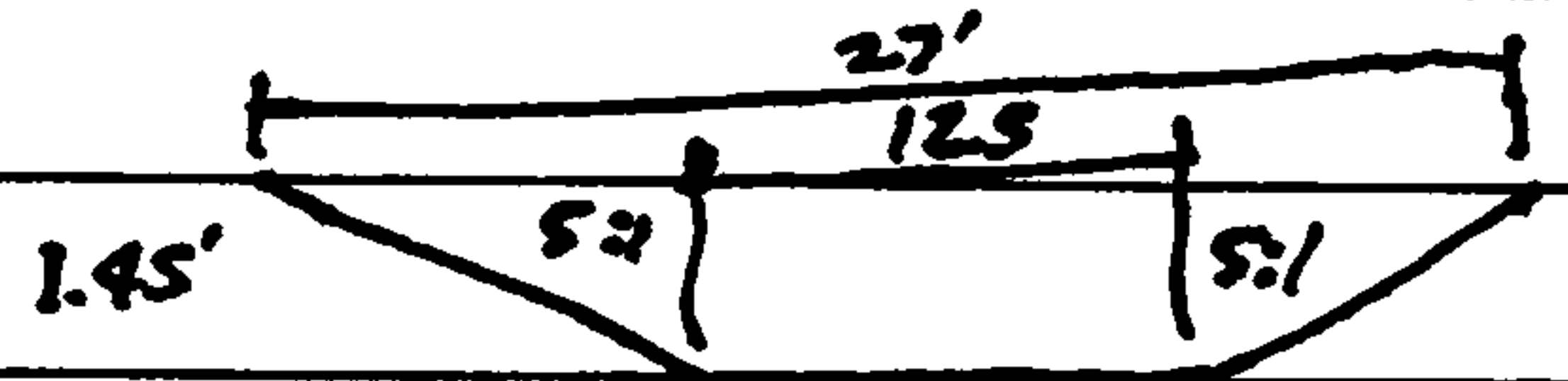
$Q = 34 \text{ cfs}$   
 $S = 0.7\%$   
 $n = 0.04$

SUB-CRITICAL FLOW

Graded Channel

C.F.S. = 23 ,  $S = 0.7\%$   $A = 28.64'$  W.P. = 27.287

$R = 1.0496$



$Q = 1.49 A R^{2/3} S^{1/2} / 0.04$

$(1.49)(28.64)(1.0496^{2/3}) / 0.04$

$(42.5736)(1.0328)(0.0837) / 0.04 = 90.83$

$Q = 90.83 \text{ cfs.}$

Only need 23 cfs. ✓

Design Q  
=  $Q_{100}$  ?

## WEIRS

Enter up to 10 weirs.

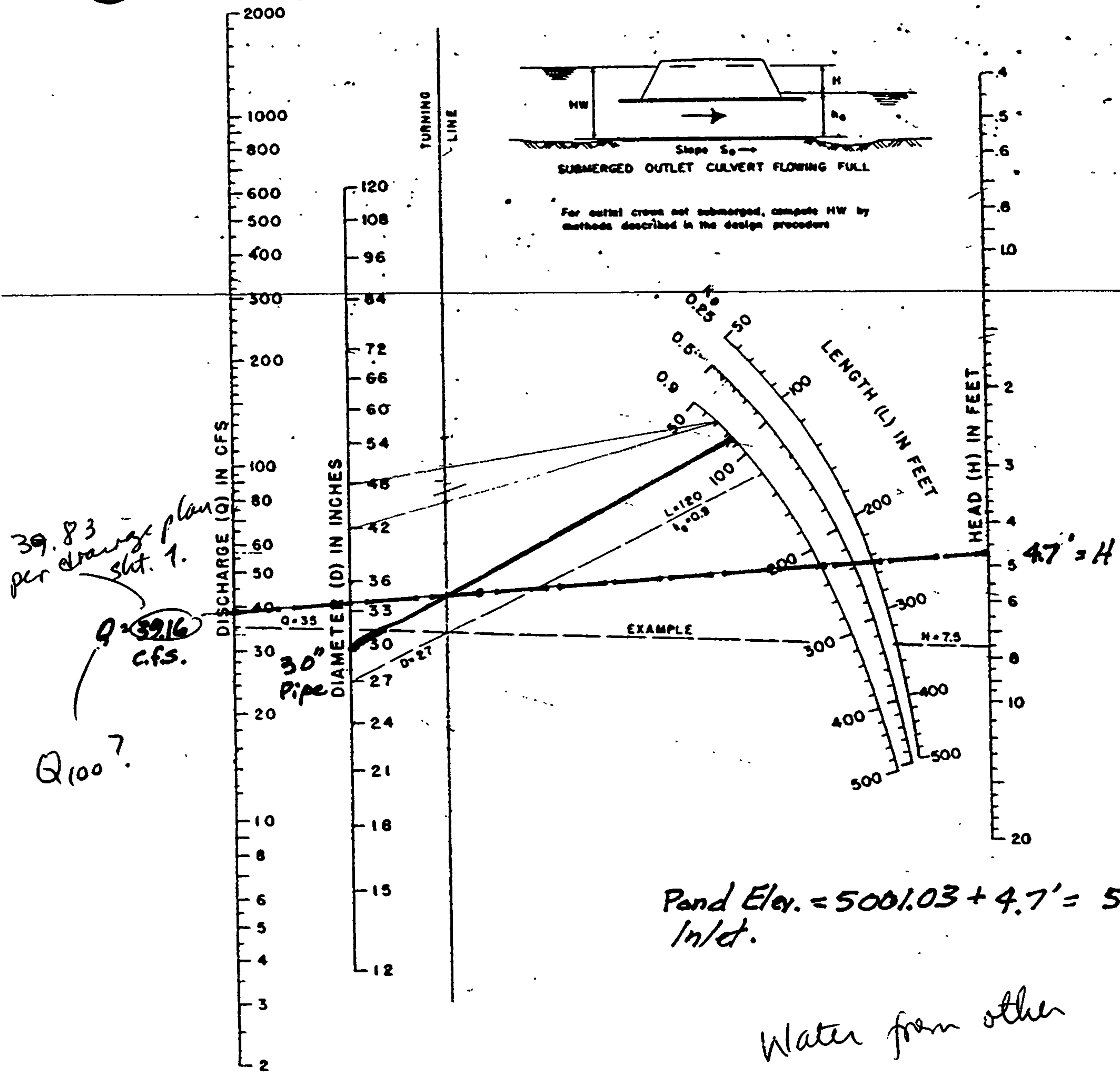
Enter <Return> only for flowrate and length to end.

FLOWRATE (CFS)	LENGTH (FT)	COEFF (-)	HEAD (FT)
-------------------	----------------	--------------	--------------

39.16	12.6	3.000	1.03
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# CHART 6



Pond Elev. =  $5001.03 + 4.7' = 5005.73@$   
Inlet.

Water from other sites -  
What is pond's max WSEL?

BUREAU OF PUBLIC ROADS JAN. 1963

$$V = Q/A$$

$$39.16/4.91 = 7.98$$