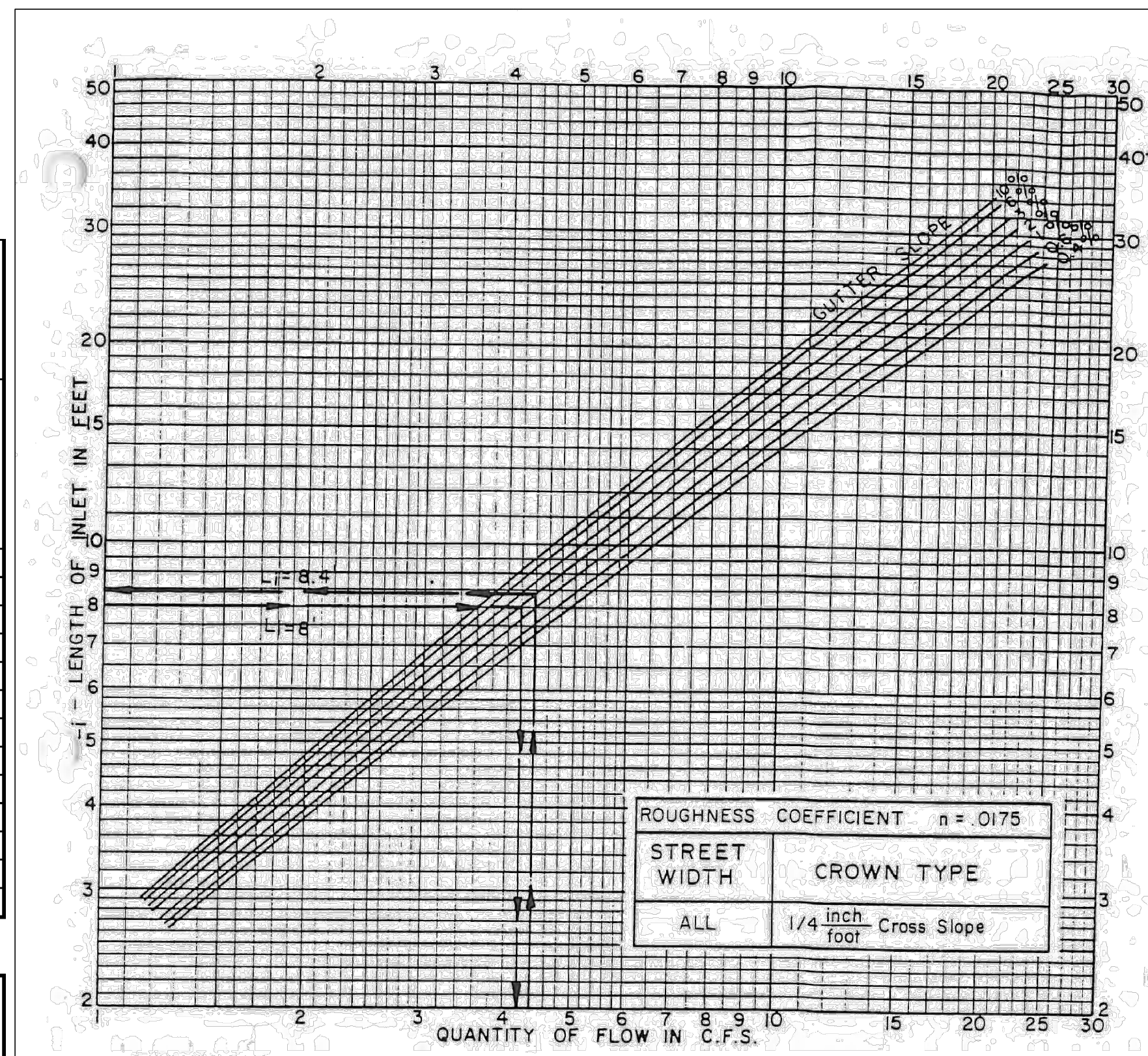


**COMPUTATION SHEET
FOR DETERMINING CAPACITY OF
CURB OPENING INLETS AND DROP INLETS IN SUMPS**

INLET NO.	GUTTER SLOPE S _o FT./FT.	CROWN SLOPE OF PVM'T 90 FT./FT.	GUTTER FLOW Q ₁₀₀ C.F.S.	DEPTH OF GUTTER FLOW Y _o FT.	CAPACITY OF INLET PER FOOT OF LENGTH Q/L C.F.S./FT.	LENGTH OF INLET OPENING L OR P FT.	CAPACITY OF INLET Q C.F.S.	NOTES
LAT 1A	1.00	0.50	1.15	0.4	0.23	5	8.5	
LAT 1C	1.00	0.50	0.77	0.4	0.15	5	8.5	
LAT 1D	1.00	0.50	1.15	0.4	0.23	5	8.5	
LAT 1F	1.00	0.50	0.93	0.4	0.19	5	8.5	
LAT 1G-1	1.00	0.50	6.66	0.4	0.67	10	17.5	
LAT 1H	0.88	0.55	0.62	0.4	0.12	5	8.5	
LAT 1J	2.50	1.00	0.99	0.4	0.20	5	8.5	
LINE 6	1.00	2.00	3.74	0.4	0.37	10	17.5	
LINE 7	1.00	2.00	5.11	0.4	0.51	10	17.5	
LAT 7A	2.50	2.00	7.24	0.4	0.72	10	17.5	
LAT 7B	1.50	3.53	9.93	0.4	0.99	10	17.5	
LINE 11	1.50	2.00	8.84	0.4	0.88	10	17.5	
LAT 11A	1.50	2.00	3.92	0.4	0.39	10	17.5	

**COMPUTATION SHEET
FOR DETERMINING CAPACITY OF
CURB OPENING INLETS ON GRADE**

INLET NO.	GUTTER SLOPE S _o FT./FT.	CROWN SLOPE OF PVM'T 90 FT./FT.	GUTTER FLOW Q ₁₀₀ C.F.S.	DEPTH OF GUTTER FLOW Y _o FT.	CAPACITY OF INLET PER FOOT OF LENGTH Q/L C.F.S./FT.	LENGTH OF INLET OPENING L OR P FT.	CAPACITY OF INLET Q C.F.S.	NOTES
LINE 1 STA. 8+96.82	8.00	1.00	0.71	0.4	0.14	5	5	
LINE 1 STA. 8+63.55	8.25	4.50	0.22	0.4	0.04	5	5	
LINE 3	7.72	2.00	0.99	0.4	0.10	10	5	
LINE 5	9.00	1.00	2.25	0.4	0.23	10	5	
LAT 5A	9.20	1.00	1.17	0.4	0.12	10	5	



EXAMPLE

Known:
Pavement Width = 24'
Gutter Slope = 2.0 %
Pavement Cross Slope = 1/4" / 1'
Gutter Flow = 4.4 cfs

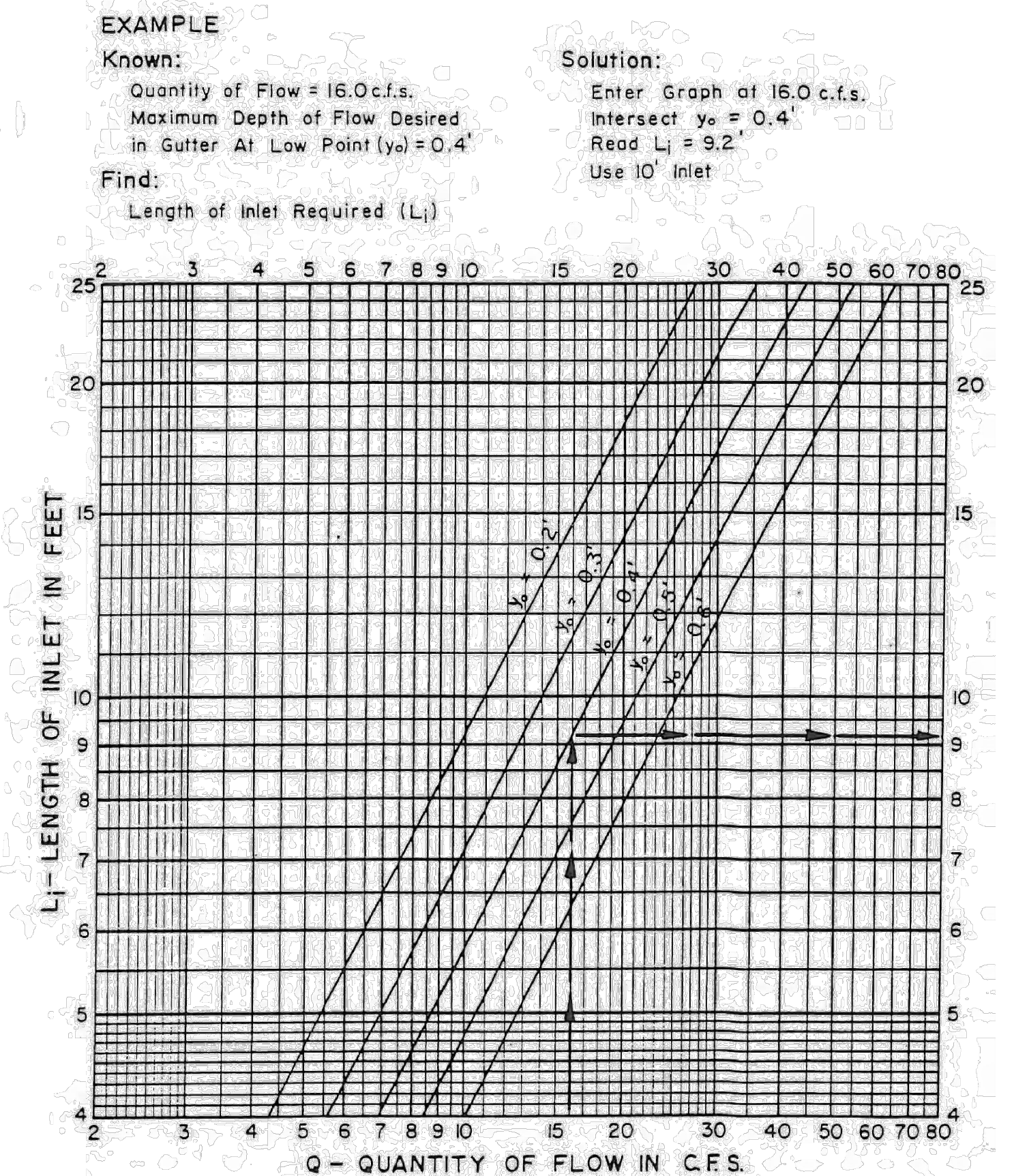
Find:
Length of Inlet Required (L_i)

Solution:
Enter Graph at 4.4 cfs
Intersect Slope = 2.0 %
Read L_i = 8.4'

Decision:
1. Use 10' Inlet
No Flow Remains in Gutter
2. Use 8' Inlet
Intercept Only Part of Flow
Use 8' Inlet
Enter Graph at L_i = 8'
Intersect Slope = 2.0 %
Read Q = 4.2 cfs
Remaining Gutter Flow = 4.4 cfs - 4.2 cfs = 0.2 cfs

**RECESSED AND STANDARD
CURB OPENING INLET
CAPACITY CURVES
ON GRADE**

FIGURE 3.5a



**RECESSED AND STANDARD
CURB OPENING INLET
CAPACITY CURVES
AT LOW POINT**

FIGURE 3.7

EXAMPLE

Known:
Quantity of Flow = 16.0 c.f.s.
Maximum Depth of Flow Desired in Gutter At Low Point (y_o) = 0.4'

Find:
Length of Inlet Required (L_i)

Solution:
Enter Graph at 16.0 c.f.s.
Intersect y_o = 0.4'
Read L_i = 9.2'

Use 10' Inlet

AS-BUILT

THIS RECORD DRAWING IS COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS IS PROVIDED BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER. THE ORIGINAL SEALED DRAWING ARE ON FILE AT THE OFFICES OF WINKELMANN AND ASSOCIATES, INC.

Maria L. Boilla
WINKELMANN AND ASSOCIATES, INC.

10-19-2016
DATE

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No.	DATE	REVISION
1.	12/09/2015	BULLETIN #1
2.	12/18/2015	ISSUE FOR CONSTRUCTION
3.		
4.		
5.		
6.		

Winkelmann & Associates, Inc.

CONSULTING CIVIL ENGINEERS ■ SURVEYORS
7720 HILGRET PLAZA DRIVE, SUITE 325
ROCKWALL, TEXAS 75087
(972) 960-7090
FAX (972) 960-7098
P.E. # 100106
M.A. # 100106

STATE OF TEXAS
M.A. # 100106
PROFESSIONAL ENGINEER
10-19-2016
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARIA C. BOILLA-NICHOLS, P.E. # 100106

INLET COMPUTATIONS
SEC. N. GOLIAD ST. AND E. QUAIL
RUN RD.
ROCKWALL, TEXAS

C-11.17
DAL574