

SPINNAKER COVES ADDITION  
BAUGHMAN COMPANY, P.A. - JDS

SUB AREA	AREA (ACRES)	"C"	SURFACE TYPE	SLOPE (%)	LENGTH (FT)	T1 (MIN)	T2 (MIN)	INTENSITY (IN/HR)	FLOW RATE (CFS)
1	1.9	0.50	LAWN	4.0	30	2.7	3.83	7.37	3.7
2	3.1	0.50	LAWN	4.0	30	2.7	3.83	7.37	5.9
3	0.6	0.76	GUTTER	4.0	30	2.7	3.83	7.37	3.1
4	1.8	0.50	LAWN	4.0	30	2.7	3.83	7.37	3.5
5	3.7	0.50	LAWN	4.0	30	2.7	3.83	7.37	7.1
6	1.0	0.76	GUTTER	4.0	30	2.7	3.83	7.37	1.9
7	4.4	0.76	GUTTER	4.0	30	2.7	3.83	7.37	8.4
8	2.0	0.50	LAWN	4.0	30	2.7	3.83	7.37	3.9
9	3.2	0.50	LAWN	4.0	30	2.7	3.83	7.37	6.1
10	2.4	0.50	LAWN	4.0	30	2.7	3.83	7.37	4.7

SPINNAKER COVES ADDITION  
Date 5-31-95 Page 1 of 1  
BAUGHMAN COMPANY, P.A.

PIPE SIZE M.N. SLOPE (%)  
A-B 0.88  
B-C 1.31  
D-E 0.35  
F-G 1.39  
H-I 0.60  
JDS 1.40  
3.83

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE A-B

Solve For Full Flow Slope

Given Input Data:

Diameter..... 1.50 ft  
Manning's n..... 0.012  
Discharge..... 10.70 cfs

Computed Results:

Full Flow Channel Slope 0.0088 ft/ft  
Full Flow Depth..... 1.50 ft  
Velocity..... 6.05 fps  
Flow Area..... 1.77 sf  
Critical Depth.... 1.26 ft  
Critical Slope.... 0.0085 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 10.70 cfs  
QMAX @.94D..... 11.51 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE B-C

Solve For Full Flow Slope

Given Input Data:

Diameter..... 2.00 ft  
Manning's n..... 0.012  
Discharge..... 28.00 cfs

Computed Results:

Full Flow Channel Slope 0.0131 ft/ft  
Full Flow Depth..... 2.00 ft  
Velocity..... 8.91 fps  
Flow Area..... 3.14 sf  
Critical Depth.... 1.83 ft  
Critical Slope.... 0.0114 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 28.00 cfs  
QMAX @.94D..... 30.12 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE D-E

Solve For Full Flow Capacity

Given Input Data:

Diameter..... 1.25 ft  
Slope..... 0.0035 ft/ft  
Manning's n..... 0.012  
Discharge..... 4.14 cfs

Computed Results:

Full Flow Capacity.... 4.14 cfs  
Full Flow Depth..... 1.25 ft  
Velocity..... 3.37 fps  
Flow Area..... 1.23 sf  
Critical Depth.... 0.82 ft  
Critical Slope.... 0.0059 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 4.14 cfs  
QMAX @.94D..... 4.45 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE E-F

Solve For Full Flow Slope

Given Input Data:

Diameter..... 1.50 ft  
Manning's n..... 0.012  
Discharge..... 13.40 cfs

Computed Results:

Full Flow Channel Slope 0.0139 ft/ft  
Full Flow Depth..... 1.50 ft  
Velocity..... 7.58 fps  
Flow Area..... 1.77 sf  
Critical Depth.... 1.26 ft  
Critical Slope.... 0.0121 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 13.40 cfs  
QMAX @.94D..... 14.41 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE F-G

Solve For Full Flow Slope

Given Input Data:

Diameter..... 2.50 ft  
Manning's n..... 0.012  
Discharge..... 34.30 cfs

Computed Results:

Full Flow Channel Slope 0.0060 ft/ft  
Full Flow Depth..... 2.50 ft  
Velocity..... 6.99 fps  
Flow Area..... 4.91 sf  
Critical Depth.... 1.99 ft  
Critical Slope.... 0.0063 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 34.30 cfs  
QMAX @.94D..... 36.90 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE H-I

Solve For Full Flow Slope

Given Input Data:

Diameter..... 1.25 ft  
Manning's n..... 0.012  
Discharge..... 5.60 cfs

Computed Results:

Full Flow Channel Slope 0.0064 ft/ft  
Full Flow Depth..... 1.25 ft  
Velocity..... 4.56 fps  
Flow Area..... 1.23 sf  
Critical Depth.... 0.96 ft  
Critical Slope.... 0.0073 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 5.60 cfs  
QMAX @.94D..... 6.02 cfs  
Froude Number.... FULL

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE I-J

Solve For Full Flow Diameter

Given Input Data:  
Slope..... 0.0151 ft/ft  
Manning's n..... 0.012  
Discharge..... 30.10 cfs

Computed Results:  
Full Flow Diameter..... 2.00 ft  
Full Flow Depth..... 2.00 ft  
Velocity..... 9.58 fps  
Flow Area..... 3.14 sf  
Critical Depth..... 1.86 ft  
Critical Slope..... 0.0131 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 30.10 cfs  
QMAX @.94D..... 32.38 cfs  
Froude Number..... FULL

Open Channel Flow Module, Version 3.15 (c) 1990  
Haestad Methods, Inc. \* 37 Brookside Rd \* Waterbury, Ct 06708

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

Comment: PIPE K-L

Solve For Full Flow Slope

Given Input Data:  
Diameter..... 1.50 ft  
Manning's n..... 0.012  
Discharge..... 11.30 cfs

Computed Results:  
Full Flow Channel Slope 0.0099 ft/ft  
Full Flow Depth..... 1.50 ft  
Velocity..... 6.39 fps  
Flow Area..... 1.77 sf  
Critical Depth..... 1.28 ft  
Critical Slope..... 0.0092 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 11.30 cfs  
QMAX @.94D..... 12.16 cfs  
Froude Number..... FULL

Open Channel Flow Module, Version 3.15 (c) 1990  
Haestad Methods, Inc. \* 37 Brookside Rd \* Waterbury, Ct 06708

Circular Channel Analysis & Design  
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: SPINNAKER

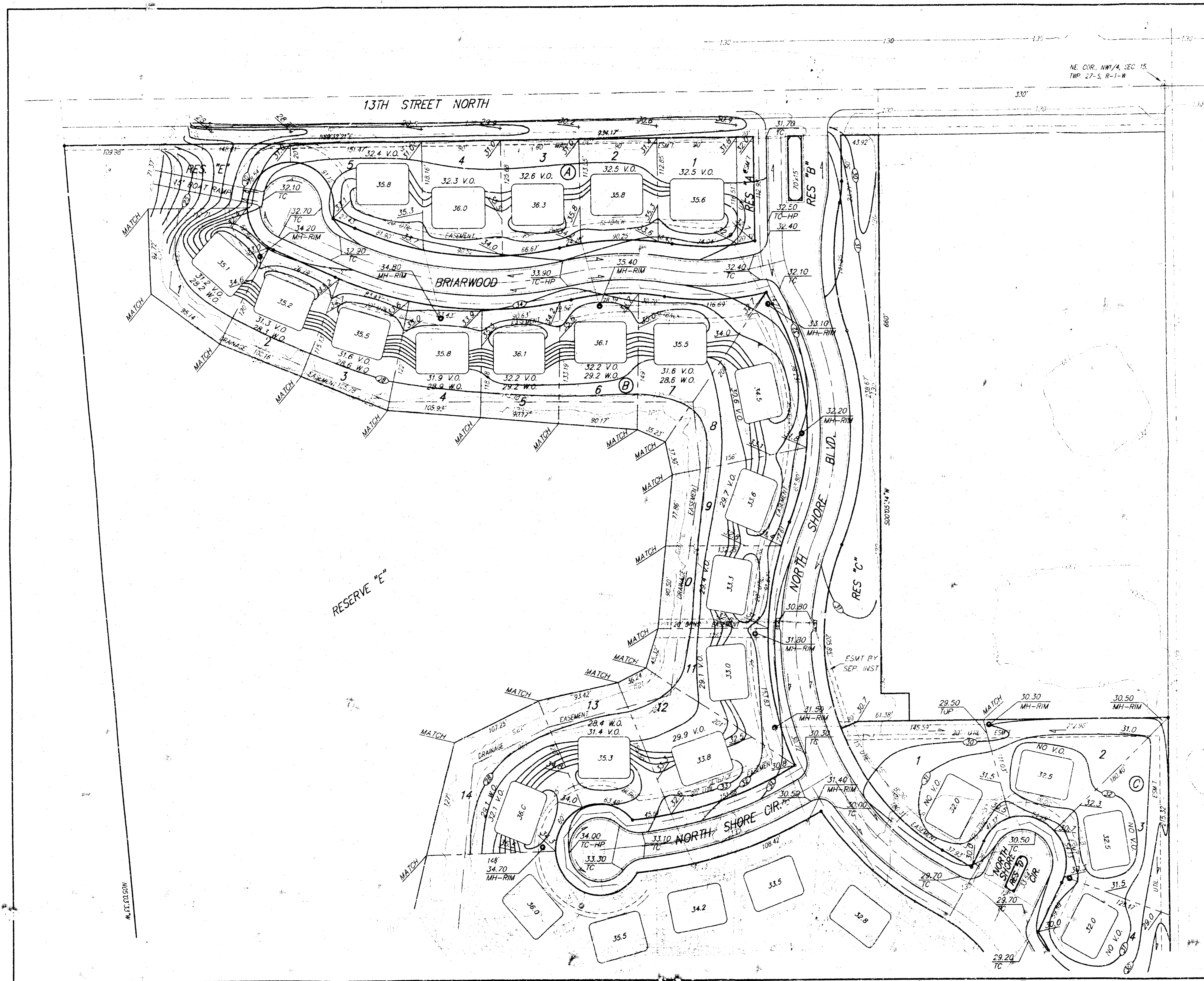
Comment: PIPE N-O

Solve For Full Flow Slope

Given Input Data:  
Diameter..... 1.25 ft  
Manning's n..... 0.012  
Discharge..... 13.70 cfs

Computed Results:  
Full Flow Channel Slope 0.0383 ft/ft  
Full Flow Depth..... 1.25 ft  
Velocity..... 11.16 fps  
Flow Area..... 1.23 sf  
Critical Depth..... 1.23 ft  
Critical Slope..... 0.0347 ft/ft  
Percent Full..... 100.00 %  
Full Capacity..... 13.70 cfs  
QMAX @.94D..... 14.74 cfs  
Froude Number..... FULL

Open Channel Flow Module, Version 3.15 (c) 1990  
Haestad Methods, Inc. \* 37 Brookside Rd \* Waterbury, Ct 06708



NE. COR. NW1/4, SEC. 15,  
TWP. 27-S, R-1-W

**APPROVED  
DRAINAGE PLAN**



1" = 50'

**NOTES**

Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.

32.0 W.O. = Walk Out Elevation  
32.0 V.O. = View Out Elevation

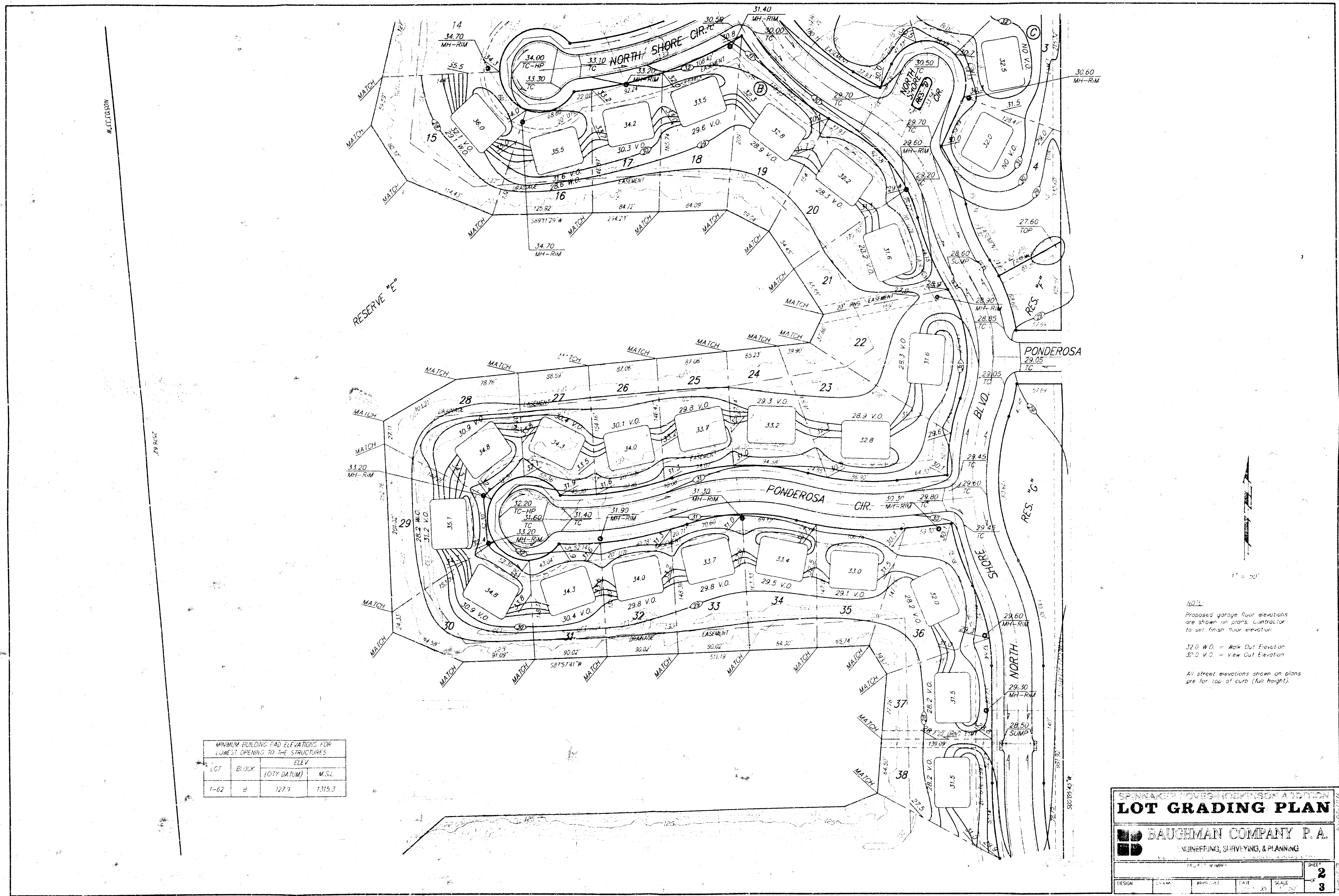
All street elevations shown on plans are for top of curb (full height).

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENINGS TO THE STREET TOPS			
	ELEV.		
10'	31.4'	(DIT DATUM)	M.S.L.
7'-6"	B	127.9	1315.3

SPINKNER COVES-HOSKINSON ADDITION  
**LOT GRADING PLAN**

**BAUGHMAN COMPANY P. A.**  
ENGINEERING, SURVEYING, & PLANNING

DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET <b>1</b> OF <b>3</b>



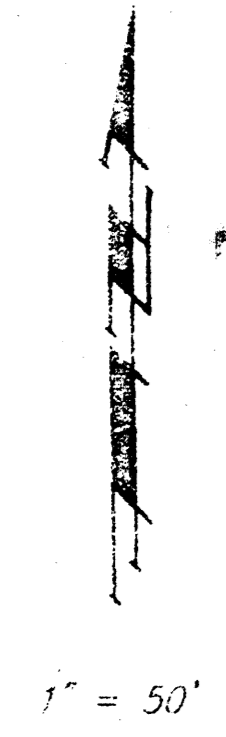
MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES

LOT	BLOCK	ELEV.	
		(CITY DATUM)	M.S.L.
1-62	B	127.9	1315.3

NOTES:  
 Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.  
 32.0 V.O. = Walk Out Elevation  
 31.0 V.O. = View Out Elevation  
 All street elevations shown on plans are for top of curb (full height).

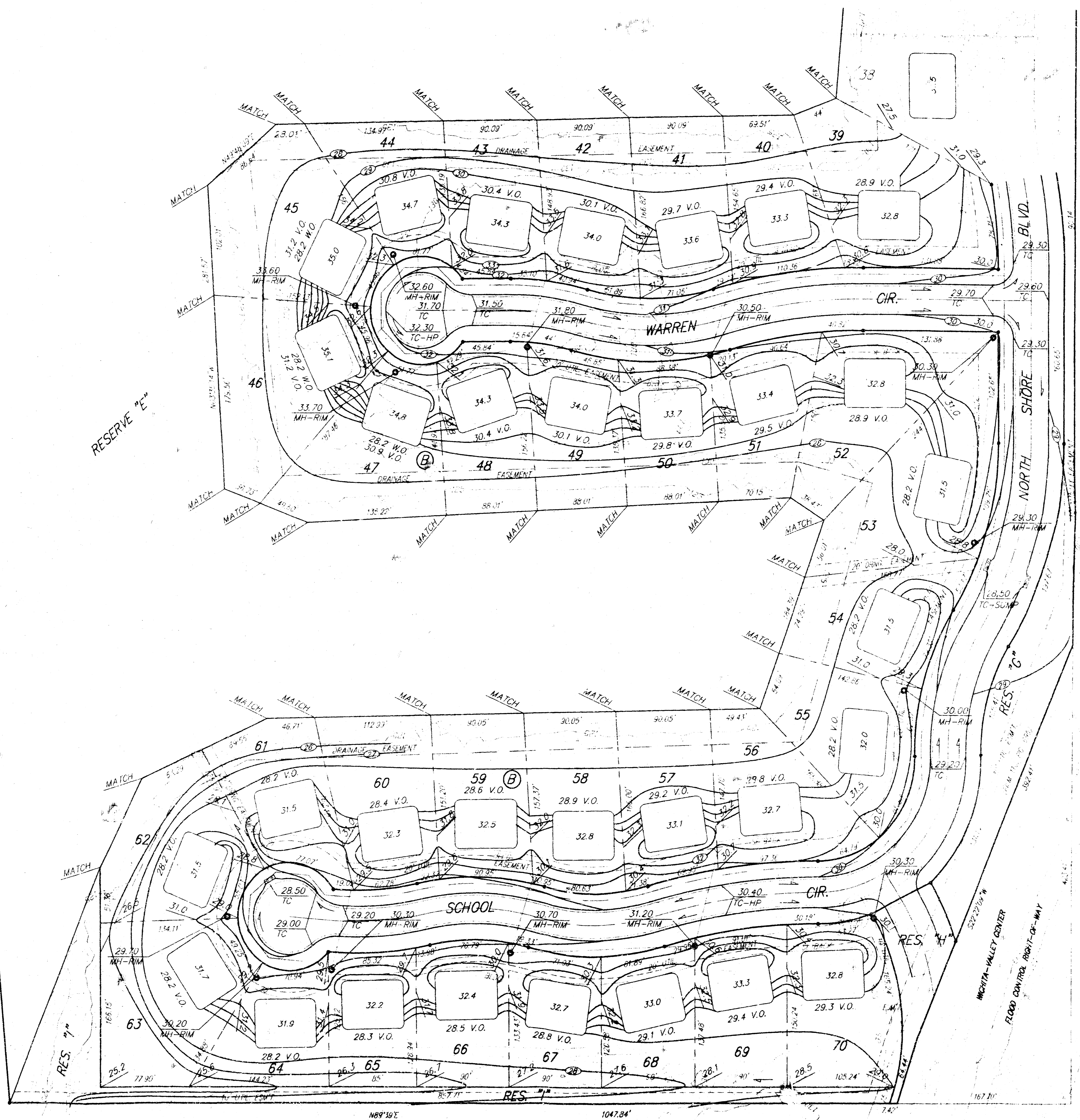
SPINNAKER LOUHS-ROBINSON A DIVISION  
**LOT GRADING PLAN**  
 BAUGHMAN COMPANY P.A.  
 ENGINEERING, SURVEYING, & PLANNING

DESIGN	DATE	SCALE	SHEET
			<b>2</b>
			<b>3</b>



**NOTE:**  
 Proposed garage floor elevations are shown on plans. Contractor to set finish floor elevation.  
 32.0 W.O. = Walk Out Elevation  
 32.0 V.O. = View Out Elevation  
 All street elevations shown on plans are for top of curb (full height).

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES			
LOT	BLOCK	(CITY DATUM)	ELEV
1-62	B	127.9	1.515.3

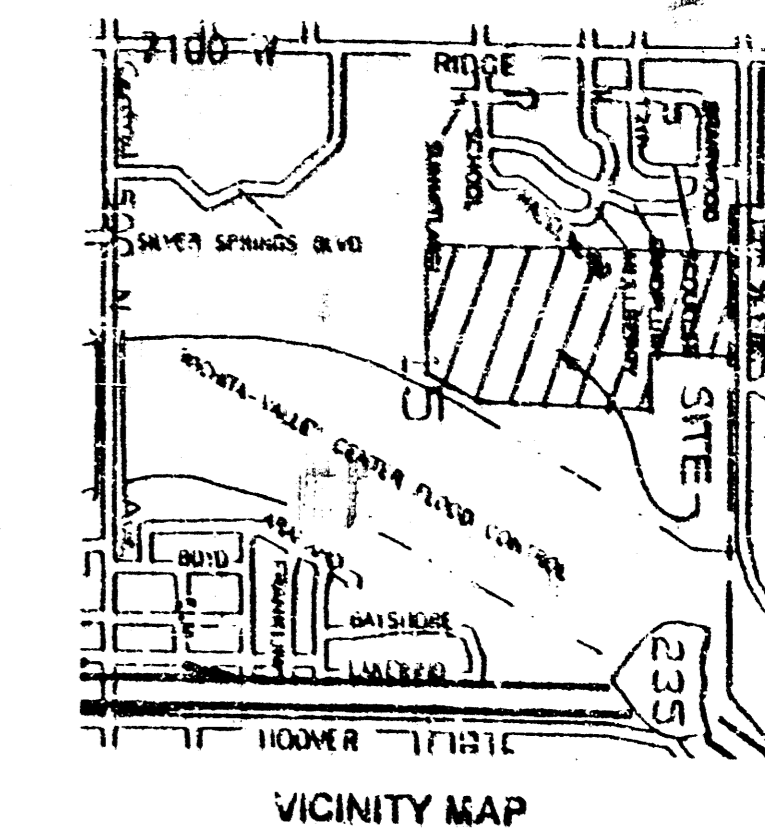


**LOT GRADING PLAN**

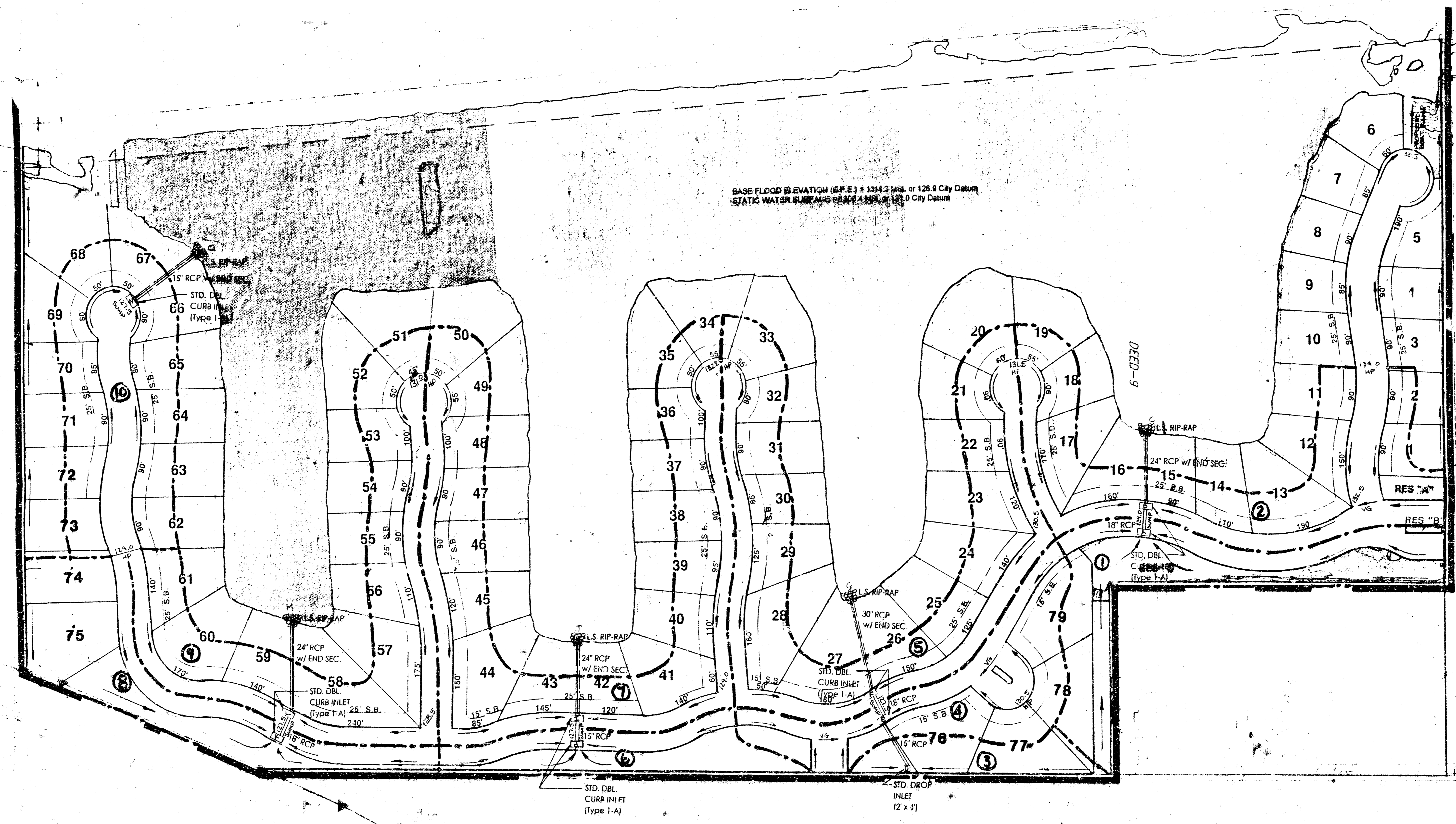
**BAUGHMAN COMPANY P.A.**  
 ENGINEERING, SURVEYING, & PLANNING

DESIGN: [ ] DRAWN: [ ] CHECKED: [ ] DATE: [ ]

3



BASE FLOOD ELEVATION (B.F.E.) = 1314.3 MSL or 126.9 City Datum  
 STATIC WATER SURFACE = 1310.0 MSL or 126.0 City Datum



# PRELIMINARY PLAT SPINNAKER COVES

- NOTES:
1. ALL DRAINAGE TO BE DISCHARGED INTO ADJACENT LAKE THROUGH STORM WATER SEWERS, FLUMES, OR OVERLAND FLOW.
  2. MINIMUM PAD ELEVATIONS TO BE ESTABLISHED AS FOLLOWS:  
 LOTS 6 THROUGH 68 1316.0 MSL or 128.6 City Datum
  3. NO OFF-SITE DRAINAGE ENTERS THIS PLAT OTHER THAN THE BIG SLOUGH NORTH TRIBUTARY, WHICH ENTERS THE LAKE AT THE 13th STREET BRIDGE.