

Bolivar and Maple Reconstruction Project

FEBRUARY 18, 2019

Bolivar and Maple

Bonds For a Better Bellaire Street Ranking List

Rank	Street		Bond Phase	Drainage Score	Paving Score	Cumulative Score <i>This is a weighted score of (drainage x .60)+(paving x .40)</i>
1	4700	WILLOW ST	Group B Phase I - 2017	68	23	50
2	4900-5000	MAYFAIR ST	Group B Phase I - 2017	43	55	48
3	500	BOLIVAR ST 	Group C Phase II - 2018	33	69	47
4	4700	LINDEN ST	Group B Phase I - 2017	45	23	36
5	4900-5000	IMPERIAL ST	Group B Phase I - 2017	43	24	35
6	4500	MAPLE ST 	Group C Phase II - 2018	42	22	34
7	4600	CEDAR ST	Group C Phase III - 2019	25	45	33
8	5100	SPRUCE ST	Group C Phase II - 2018	12	61	32
9	4300	CYNTHIA ST	Group C Phase III - 2019	34	24	30
10	4500	LARCH LN	Group C Phase III - 2019	30	30	30
11	4300	EDITH ST		7	63	29
12	6700	N 5TH	Group C Phase II - 2018	8	57	28
13	500	CHELSEA ST	Group C Phase III - 2019	0	64	26
14	4500	MIMOSA DR	Group C Phase III - 2019	30	20	26
15	5200	SPRUCE ST	Group C Phase II - 2018	0	65	26

**City of Bellaire - Public Works Department
Storm Drainage Priority Rating System**

Purpose:

To protect the citizens and property of the City of Bellaire by reducing the damage and hazards associated with stormwater run-off.

Calculation:

Each block/segment in the City starts off with a Drainage Ranking Score (DRS) of 100. Points are deducted as shown below in order to provide a ranking of areas for candidate project locations. This calculation may be redone as new information becomes available.

Item #	Criteria Description	Point Deduction
1.)	Structural Flooding Damage	25 maximum
	No Structures Flooded	0
	Pre 1980 Construction	10
a	Structural Flooded Recorded	
	1980-1994	15
	1995-2004	20
	2005-Present	25
2.)	Existing Drainage Infrastructure	10 maximum
	less than 25%	10
a	Existing Capacity Versus a 2-Year Standard Design	
	25% to 50%	8
	50% to 75%	5
	Greater than 75%	0
3.)	Drainage Study	10 maximum
	Excessive Ponding Identified in the Drainage Study	
a	No	0
	Yes	10

4.)	Drainage Area	5	maximum
	Less Than 0-10 Acres		0
a	Size of Drainage Area Served by Storm Sewer		
	10-20 Acres		2
	20-50 Acres		4
	Greater than 50 Acres		5
5.)	Open Ditch	5	maximum
	Is the block served by an open ditch		
a	No		0
	Yes		5
6.)	Project Readiness	35	maximum
	No Design Complete		0
a	Design Status		
	Partial Design Finished		15
	Complete Design		35
7.)	Regional System	5	maximum
	Is there an opportunity for Consideration in a Regional Drainage Project		
a	No		0
	Yes		5
8.)	Redevelopment Opportunity	5	maximum
	Is there an opportunity for future redevelopment on this block		
a	No		0
	Yes		5
		100	MAXIMUM

Bolivar and Maple

764 total street segments (blocks) scored in Bellaire

Bolivar scored 3rd out of 764 & Maple scored 6th out of 764

Block	Street	Pavement Type	Previous Bond Project	Street Classification	Segment Length	Criteria #1					Criteria #2	Criteria #3		
						Structural Flooding							% of Capacity	Excessive Ponding (Drainage Study)
						None	Pre-1980	1980-1993	1994-2004	2005-Present				
500	BOLIVAR ST	Concrete		LOCAL	454					1	25	41.58%	8	N
500	BOLIVAR ST	Concrete		LOCAL	156						0	100.00%	0	N

Criteria #4	Criteria #5	Criteria #6	Criteria #7	Criteria #8	Maximum Score 100	Maximum Score 100	PCI Rating			
Drainage Area	Ditch or Curb	Project Readiness	Regional Partnership	Redevelopment Opportunity	Drainage Score	Paving Score				
8.82	0	N	0	None	0	N	0	33	69	31
	0	N	0	None	0	N	0	0	14	86

Bolivar and Maple

Project scope **Bolivar:**

Increase drainage capacity to 100 year standard

Replace existing 6" and 18" with 30" and 36" storm sewer

Total Cost of 100-Year Storm Sewer = \$58,344.00

Total Cost of 2-Year Storm Sewer = \$47,257.00

Cost Difference between 100-year and 2-year storm sewer:

\$58,344 - \$47,257 = **\$11,187.00**

Bolivar and Maple

Project scope **Maple:**

Increase drainage capacity to 100 year standard

Replace existing 18" with 24" and 42" storm sewer

Total Cost of 100-Year Storm Sewer = \$254,430

Total Cost of 2-Year Storm Sewer = \$129,162

Cost Difference between 100-year and 2-year storm sewer:

$\$254,430 - \$129,162 = \$125,268$

*Cost to upgrade both streets from 2yr to 100yr standard is 8% of total project cost

Bolivar and Maple

Project scope both:

New concrete curb and gutter

Sidewalk on one side of street

- Bolivar 4' only on west side (9-24-18 City Council direction following petition discussion)
- Maple 4' only on south side (no petition)

Start in April of 2019

240 calendar days to complete (November 19)

Bolivar and Maple

11 contractors bid

Range \$1,763,703 to \$2,599,019

Engineers Estimate \$2,156,000

Astatus Construction LLC., low bidder

Astatus references and sub-contractor checked

Astatus low bidder on all construction projects

- Bolivar Maple
- Spruce and 5th
- Water Lines Project

Project plan / schedule all three projects

Company representative here to answer questions

Bolivar and Maple

Recommendation:

Approve award of contract to AStatus in the amount of \$1,763,703.