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June 14, 2004



Engineers & Constructors

Civil Engineering; Hydraulics;
Hydrology; Utility Planning & Design;
Site Planning & Design; Street Design;
Subdivision Planning & Design

Veronica J.B. Morgan, P.E.
Managing Partner

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MITCHELL & MORGAN, LLP
511 University Dr. E., Suite 204
College Station, Texas 77840
Office (979) 260-6963
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Spencer Thompson
Development Services
P.O. Box 9960
College Station, TX 77840

RE: Autumn Chase Subdivision—Oversize Participation Request

Dear Spencer:

Attached please find a request for oversize participation for the Autumn Chase Subdivision. As you will recall, this final plat was approved by the Planning & Zoning Commission on November 6, 2003. We are requesting the following:

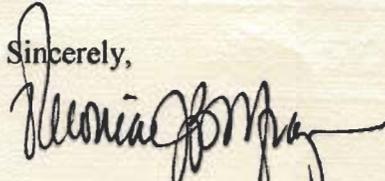
- Oversize participation in the amount of \$40,586.00 to reimburse for the cost difference between a 39' street cross section in a 60' right-of-way and a 49' street cross section on a 70' right-of-way.
- Oversize participation in the amount of \$51,457.00 to reimburse for the cost difference between a storm sewer system designed to carry the runoff from Autumn Chase Subdivision and that required to retrofit the drainage design to correct the flooding occurring at Manuel Drive and Cornell Street.

As you can see from the Traffic Impact Analysis (attached) performed by Jeff Milburn with Jeff Milburn Engineering, he indicated that a minor collector (39' cross section) is sufficient for the future needs for traffic in the area. The larger street cross section is not necessary for the traffic associated with the development of the Autumn Chase Subdivision.

We have also attached a series hydraulic modeling runs from XP-SWMM in which we analyzed the 10- and 100-year storm events. These analyses were performed for both the proposed flow (including additional flow from Manuel Drive) and the reduced flow (excluding flow from Manuel Drive). We believe that City participation should be included to pay for the larger pipe size and extra inlets required to correct the flooding situation at Manuel and Cornell Drive. Although this flooding has occurred for many years, this project has been asked to correct the situation. We are happy to correct the inadequate outfall situation, but feel that the City should also be part of the solution. We understand that similar storm sewer oversize participation has been accepted by the City. Also attached is a graphic depicting the storm sewer system with the itemization of areas where we are requesting participation. As always thank

you for your help and consideration. If I can answer any questions or clarify any portions of our request, please do not hesitate to call.

Sincerely,



Veronica J.B. Morgan, P.E.
Managing Partner

cc: file
Bob Mosley, P.E.
Mark Smith, P.E.

Attachments (7): **Oversize Participation Request Estimate**
 Engineer's Estimate
 Hydraulic Calculations
 Traffic Impact Analysis from Jeff Milburn
 Planning & Zoning Agenda
 Planning & Zoning Minutes
 Autumn Chase Subdivision Staff Report

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**AUTUMN CHASE SUBDIVISION
ENGINEER'S ESTIMATE
6/17/2004**

Item #	Description	Quantity	Units	Unit Price	Price
GENERAL ITEMS					
1	Mobilization	1	L.S.	\$25,000.00	\$25,000.00
2	Erosion & Sediment Control	1	L.S.	\$5,000.00	\$5,000.00
3	Prepare ROW (Demolition)	1	L.S.	\$6,000.00	\$6,000.00
4	Select Fill	90	C.Y.	\$60.00	\$5,400.00
	<i>Subtotal</i>				\$41,400.00
PAVEMENT ITEMS					
5	8" Lime Stabilized Subgrade	3495	S.Y.	\$4.75	\$16,601.25
6	8" Crushed Limestone Base (Type A, Grade "1")	2813	S.Y.	\$13.50	\$37,975.50
7	4" Crushed Limestone Base	270	S.Y.	\$8.00	\$2,160.00
8	2" Hot Mix Asphaltic Concrete ("D")	2813	S.Y.	\$8.50	\$23,910.50
9	Extra Lime	24	Ton	\$110.00	\$2,640.00
10	Type 1, Reinforced Curb & Gutter	1055	L.F.	\$9.00	\$9,495.00
11	4" Thick Concrete Sidewalk (Handicap Ramps Subsidiary)	4653	S.F.	\$3.00	\$13,959.00
12	6" Concrete Driveway	249	S.Y.	\$38.00	\$9,462.00
13	Cellulose Fibermulch Seeding	3027	S.Y.	\$0.50	\$1,513.50
	<i>Subtotal</i>				\$117,716.75
DRAINAGE ITEMS					
14	Concrete Cap	57	L.F.	\$40.00	\$2,280.00
15	5' Recessed Inlet	2	Ea.	\$2,500.00	\$5,000.00
16	10' Recessed Inlet	4	Ea.	\$3,300.00	\$13,200.00
17	Standard Junction Box	1	Ea.	\$2,500.00	\$2,500.00
18	15" Class III Reinforced Concrete Pipe	35	L.F.	\$40.00	\$1,400.00
19	30" Class III Reinforced Concrete Pipe	90	L.F.	\$72.00	\$6,480.00
20	36" Class III Reinforced Concrete Pipe	533	L.F.	\$89.00	\$47,437.00
21	42" Class III Reinforced Concrete Pipe	452	L.F.	\$124.00	\$56,048.00
22	15" Sloped Headwall	1	Ea.	\$800.00	\$800.00
23	42" Cast in Place Sloped Headwall	1	Ea.	\$1,500.00	\$1,500.00
24	42" x 45 Bend	1	Ea.	\$1,400.00	\$1,400.00
25	4' Wide Standard Flume	72	L.F.	\$28.00	\$2,016.00
26	"Conlock" Interlocking Channel Pavers	100	S.Y.	\$29.00	\$2,900.00
	<i>Subtotal</i>				\$142,961.00
WATER ITEMS					
27	6" PVC C900 CL200 Waterline	245	L.F.	\$30.00	\$7,350.00
28	8" PVC C900 CL200 Waterline	488	L.F.	\$45.00	\$21,960.00
29	8" MJ Gate Valve	7	Ea.	\$750.00	\$5,250.00
30	6" MJ Gate Valve	5	Ea.	\$550.00	\$2,750.00
31	6"x 6" MJ Tees	1	Ea.	\$275.00	\$275.00
32	8"x 6" MJ Tees	4	Ea.	\$300.00	\$1,200.00
33	8"x 8" MJ Tees	3	Ea.	\$320.00	\$960.00
34	6" - 45 deg MJ Bends	2	Ea.	\$250.00	\$500.00
35	8" - 45 deg MJ Bends	4	Ea.	\$300.00	\$1,200.00
36	8" - 22.5 deg MJ Bends	4	Ea.	\$300.00	\$1,200.00
37	6" - 11.25 deg MJ Bends	4	Ea.	\$250.00	\$1,000.00
38	8" - 11.25 deg MJ Bends	4	Ea.	\$300.00	\$1,200.00
39	1" Type K Copper Water Service Connectors (>15')	1	Ea.	\$250.00	\$250.00
40	1" Type K Copper Water Service Connectors (<15')	3	Ea.	\$250.00	\$750.00
41	1 1/2" Type K Copper Water Service Connectors (>15')	2	Ea.	\$300.00	\$600.00
42	1 1/2" Type K Copper Water Service Connectors (<15')	2	Ea.	\$300.00	\$600.00
43	Standard Fire Hydrant Assembly	2	Ea.	\$2,500.00	\$5,000.00
44	Connect to Existing System	3	Ea.	\$2,500.00	\$7,500.00
45	Trench Safety	700	L.F.	\$3.00	\$2,100.00
	<i>Subtotal</i>				\$61,645.00
SANITARY SEWER ITEMS					
46	6" PVC ASTM D3034 SDR 26 Sewerline	339	L.F.	\$30.00	\$10,170.00
47	6" PVC ASTM D3034 SDR 26 Sewerline with Structural Backfill	331	L.F.	\$40.00	\$13,240.00
48	6" PVC ASTM D2241 SDR 26 Pressure Rated Sewerline	5	L.F.	\$22.00	\$110.00
49	6" PVC ASTM D2241 SDR 26 Pressure Rated Sewerline with Structural Backfill	35	L.F.	\$32.00	\$1,120.00
50	6" DI AWWA C151 CL52 Sewerline with Structural Backfill	131	L.F.	\$45.00	\$5,895.00
51	8" PVC ASTM D3034 SDR 26 Sanitary Sewer	10	L.F.	\$33.00	\$330.00
52	Sewer Cleanout	2	Ea.	\$1,200.00	\$2,400.00
53	6" Sanitary Sewer Service, >15'	3	Ea.	\$150.00	\$450.00
54	Connect 8" Sanitary Sewer to Existing 8" Sanitary Sewer	1	Ea.	\$1,500.00	\$1,500.00
55	Connect 6" Sanitary Sewer to Existing 8" Sanitary Sewer	1	Ea.	\$1,500.00	\$1,500.00
56	Connect 6" Sanitary Sewer to Existing 6" Sanitary Sewer	1	Ea.	\$1,500.00	\$1,500.00
57	Standard 4' Diameter Manhole	8	Ea.	\$3,200.00	\$25,600.00
58	Trench Safety	300	L.F.	\$3.00	\$900.00
	<i>Subtotal</i>				\$64,715.00
TOTAL COST					\$428,437.75



Veronica J.B. Morgan
6/17/04

AUTUMN CHASE SUBDIVISION
OVERSIZED PARTICIPATION
6/17/2004

Item #	Description	Quantity	Units	Unit Price	Price
PAVEMENT ITEMS (49' B/C TO B/C SECTION)					
1	8" Lime Stabilized Subgrade	3495	S.Y.	\$4.75	\$16,601.25
2	8" Crushed Limestone Base (Type A, Grade "1")	2813	S.Y.	\$13.50	\$37,975.50
3	2" Hot Mix Asphaltic Concrete ("D")	2813	S.Y.	\$8.50	\$23,910.50
4	Right-of-way (70 feet)	38500	S.F.	\$1.85	\$71,225.00
	Subtotal				\$149,712.25
PAVEMENT ITEMS (39' B/C TO B/C SECTION)					
1	6" Lime Stabilized Subgrade	2750	S.Y.	\$3.50	\$9,625.00
2	7" Crushed Limestone Base (Type A, Grade "1")	2383	S.Y.	\$10.75	\$25,617.25
3	1.5" Hot Mix Asphaltic Concrete ("D")	2139	S.Y.	\$6.00	\$12,834.00
4	Right-of-way (60 feet)	33000	S.F.	\$1.85	\$61,050.00
	Subtotal				\$109,126.25
OVERSIZE PARTICIPATION PAVEMENT REQUEST					\$40,586.00

Item #	Description	Quantity	Units	Unit Price	Price
DRAINAGE ITEMS (TO CONSTRUCT)					
1	10' Recessed Inlet	4	Ea.	\$3,300.00	\$13,200.00
2	Standard Junction Box	1	Ea.	\$2,500.00	\$2,500.00
3	30" Class III Reinforced Concrete Pipe	38	L.F.	\$72.00	\$2,736.00
4	36" Class III Reinforced Concrete Pipe	533	L.F.	\$89.00	\$47,437.00
5	42" Class III Reinforced Concrete Pipe	452	L.F.	\$124.00	\$56,048.00
6	42" Cast in Place Sloped Headwall	1	Ea.	\$1,500.00	\$1,500.00
7	42" x 45 Bend	1	Ea.	\$1,400.00	\$1,400.00
8	Subtotal				\$124,821.00
DRAINAGE ITEMS (30" v. 42")					
1	10' Recessed Inlet	2	Ea.	\$3,300.00	\$6,600.00
2	24" Class III Reinforced Concrete Pipe	495	L.F.	\$66.00	\$32,670.00
3	30" Class III Reinforced Concrete Pipe	452	L.F.	\$72.00	\$32,544.00
4	30" Cast in Place Sloped Headwall	1	Ea.	\$800.00	\$800.00
5	30" x 45 Bend	1	Ea.	\$750.00	\$750.00
6	Subtotal				\$73,364.00
OVERSIZE PARTICIPATION DRAINAGE REQUEST					\$51,457.00



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