

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Haeger Engineering LLC
Consulting Engineers and Land Surveyors

Project: Briarwood Lane Re-Alignment and Salt Creek Crossing Replacement Project
Palatine Township, IL - Plum Grove Estates Subdivision
Project #: 08-041E

Prepared: KAS
Reviewed: LAK
Date: 10/31/11

ITEM NO.	IDOT CODED PAY ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1 Demolition and Clearing						
1.01	44000100	Pavement Removal	1774	SY	\$10.00	\$17,740.00
1.02	44000200	Driveway Removal	677	SY	\$10.00	\$6,770.00
1.03	50100200	Removal of Existing Structure (SN 016-4000)	1	LS	\$85,000.00	\$85,000.00
1.04	50105220	Removal of Existing Culverts	553	LF	\$10.00	\$5,530.00
1.05	63200310	Guardrail Removal	124	LF	\$10.00	\$1,240.00
1.06	-	Selective Clearing and Removal	1	LS	\$10,000.00	\$10,000.00
1.07	-	Removal and Relocation/Re-Installation of Existing Mailboxes, Signs, Fences, Delineators, Lights and the like along the proposed improvements.	1	LS	\$10,000.00	\$10,000.00
						SBTL \$136,280.00
2 Earthwork						
2.01	-	Earthwork Complete per Plan	1	LS	\$60,000.00	\$60,000.00
2.02	20201200	Removal and Disposal of Unsuitable Material for Roadway	75	CY	\$45.00	\$3,375.00
2.03	50200450	Removal and Disposal of Unsuitable Material for Structures	75	CY	\$45.00	\$3,375.00
						SBTL \$66,750.00
3 Storm Sewer						
3.01	54213657	Precast Reinforced Concrete Flared End Section, 12"	1	EA	\$400.00	\$400.00
3.02	54213660	Precast Reinforced Concrete Flared End Section, 15"	20	EA	\$550.00	\$11,000.00
3.03	55019500	Storm Sewer, Type 1, RCP, Class IV, 12"	47	LF	\$36.00	\$1,692.00
3.04	55019600	Storm Sewer, Type 1, RCP, Class IV, 15"	435	LF	\$43.00	\$18,705.00
3.05	60207605	Catch Basin, Type C, with Type 8 Grate	1	EA	\$1,500.00	\$1,500.00
						SBTL \$33,297.00
4 Three Sided Precast Structure						
4.01	-	Three Sided Precast Structure Complete per Plan	1	LS	\$385,000.00	\$385,000.00
						SBTL \$385,000.00
5 Roadway and Driveway Improvements						
Roadway Pavement						
5.01	40603340	Hot-Mix Asphalt Surface Course, Mix "D", N70 (2", 1890 SY)	211.68	TON	\$85.00	\$17,992.80
5.02	40603085	Hot-Mix Asphalt Binder Course, IL-19.0, N70 (4", 1890 SY)	423.36	TON	\$75.00	\$31,752.00
5.03	35102000	Aggregate Base Course, Type B, 8"	1,760	SY	\$10.00	\$17,600.00
Bituminous Driveways						
5.04	40603310	Hot-Mix Asphalt Surface Course, Mix "C", N50 (2", 487 SY)	54.54	TON	\$75.00	\$4,090.80
5.05	35101800	Aggregate Base Course, Type B, 6"	487	SY	\$8.00	\$3,896.00
Concrete Driveways						
5.06	42000101	Portland Cement Concrete Pavement (Jointed), 6"	159	SY	\$40.00	\$6,360.00
5.07	35101500	Aggregate Base Course, Type B, 2"	159	SY	\$3.00	\$477.00
						SBTL \$82,168.60
6 Guardrail and Pavement Markings						
6.01	78100100	Raised Reflective Pavement Markers, Two-Way Amber	20	EA	\$60.00	\$1,200.00
6.02	78200405	Guardrail Markers, Two-Way White	9	EA	\$60.00	\$540.00
6.03	78200500	Barrier Wall Markers	6	EA	\$60.00	\$360.00
6.04	-	Steel Plate Beam Guardrails, Type A Complete Per Plan with Steel Posts Including End Terminal Sections and Markers as well as Attachments to Walls.	1	LS	\$10,000.00	\$10,000.00
						SBTL \$12,100.00

7 Erosion Control and Restoration							
7.01	20101100	Tree Trunk Protection		9	EA	\$150.00	\$1,350.00
7.02	28000305	Temporary Ditch Checks		14	EA	\$250.00	\$3,500.00
7.03	28000400	Perimeter Erosion Barrier		300	LF	\$3.00	\$900.00
7.04	28000500	Inlet and Pipe Protection		14	EA	\$175.00	\$2,450.00
7.05	21101615	Topsoil Respread, 4"		2,554	SY	\$4.00	\$10,216.00
7.06	25000210	Seeding, Class 2A		0.53	AC	\$3,000.00	\$1,590.00
7.07	25000310	Seeding, Class 4		0.01	AC	\$4,500.00	\$45.00
7.08	25000400	Nitrogen Fertilizer Nutrient		50.88	LB	\$2.25	\$114.48
7.09	25000500	Phosphorous Fertilizer Nutrient		50.88	LB	\$2.25	\$114.48
7.10	25000600	Potassium Fertilizer Nutrient		50.88	LB	\$2.25	\$114.48
7.11	25100630	Erosion Control Blanket (NAG DS75)		2,345	SY	\$1.00	\$2,345.00
7.12	25100800	Erosion Control Mat (NAG SC250)		209	SY	\$5.00	\$1,045.00
7.13	-	Rip Rap, Class A4, Scour Protection Including Excavation and Removal of Unsuitable Material, Geotextile Fabric, and Rip Rap Complete per Plan		294	SY	\$60.00	\$17,640.00
7.14	-	1.5" Diameter Tree Installed		12	EA	\$250.00	\$3,000.00
						SBTL	\$44,424.43

8 Traffic Control							
8.01	70101700	Traffic Control and Protection Complete per Plans		1	LS	\$15,000.00	\$15,000.00
						SBTL	\$15,000.00

TOTAL **\$775,020.03**
15% CONTINGENCY **\$116,253.00**

TOTAL WITH 15% CONTINGENCY **\$891,273.04**

Notes:

1. Based on "Briarwood Lane Re-Alignment and Salt Creek Crossing Replacement Plans," dated 10/31/2011.
2. This estimate does not include cost of permits, engineering fees, inspection, or other rights of access. Also does not include the cost of easement or R.O.W. acquisition.
3. Selective clearing and removal shall include all necessary clearing, grubbing, tree removal and other incidental removals including disposal necessary to construct the proposed improvements.
4. Earthwork shall include all work and materials necessary to bring grades to subgrade including but not limited to topsoil stripping and stockpiling, excavation, embankment fill, compaction, and subgrade preparation prior to placement of aggregate base course material or topsoil. Removal and replacement of unsuitable material for structures of roadway will be paid for separately, if required. Removal and replacement of unsuitable material for structures or roadway shall include removal and disposal of unsuitable material as well as approved material to bring back up to grade.
5. Three Sided Precast Structure Pay Item shall include all work, labor and materials necessary beyond demolition of existing structure required to fabricate and install the three sided precast structure including but not limited to structural shop drawings and calculations, in-stream work plan, cofferdams, dewatering, fabrication of precast components as well as construction and installation of all components of structure from footings through the waterproofing membrane system including but not limited to excavation for footings, installation of footings and pedestals, culvert sections, wingwalls, parapet walls with ashlar finish with pedestrian railing and lighting, structure backfill, waterproofing membrane system, etc.
6. Does not include the cost of any construction staking or the resident engineer.
7. Traffic Control and Protection shall include all traffic control devices, barriers, signs, temporary pavement markings, etc.
8. All disturbed grass areas shall be restored with a minimum of 4-Inches of topsoil, specified Seed Mix and specified erosion control blanket or mat. All disturbed areas shall be restored to their preconstruction condition or better.
9. The cost of relocation or lowering existing utilities has not been included in this estimate and may be required.
10. Whenever the performance of work is indicated on the plans, and no item is included in the contract for payment, the work shall be considered incidental to the contract and no additional compensation will be allowed.
11. This Opinion of Probable Cost is prepared as a guide only. Haeger Engineering, LLC makes no warranty that actual costs will not vary from amount indicated, and assumes no liability for such variance. Historical costs have been used and actual construction cost may vary.