

MANHOUR ESTIMATE

Downer Place, Galena Boulevard and New York Street Downtown Two-Way Traffic
 Phase II - Contract Plans, Specifications and Estimates
 City of Aurora
 HR Green Job No.: 88160255

DATE: 06/08/16

Task	SHEETS	Senior PM	Proj. Eng. II	Staff Eng. II	Des. Tech. II	PLS II	Sr. Field Tech.	Admin. OM	Total
2.1 - Downer Place									242
A - Intersection Design Studies (IDS)									80
2040 Traffic Projections and Coordination with CMAP		2	8						10
Capacity Analyses		2	8						10
Intersection Geometrics		2	6	4	8				20
IDS Exhibits	3	2	10	8	10				30
Design Exception Documentation		2	5	3					10
B - Preparation of Contract Plans, Specifications and Estimates									162
a - Signing and Pavement Marking Plans									76
Cover Sheet - 8 hrs/sheet	1	2	2		4				8
Index of Sheets / List of Highway Standards - 8 hrs/sheet	1	2	2		4				8
General Notes - 12 hrs/sheet	1	2	6		4				12
Summary of Quantities - 16 hrs/sheet	1	2	8	4	2				16
Sign Schedule*	0		4	2					6
Pavement Marking Schedule*	0		4	2					6
Signing and Pavement Marking Plans (Double Pane @ 1" = 50') - 16 hrs/sheet	1	2	4	2	8				16
Miscellaneous Details	2		2		2				4
b - Traffic Signal Modification Plans									30
Standard Traffic Signal Design Details (District One)	6		2		4				6
Traffic Signal Modification Plans	1	2	8		2				12
Cable Plans, Phase Designation Diagrams and Schedules of Quantities*	1	2	8		2				12
Miscellaneous Details	0								0
c - Specifications									24
Special Provisions		4	12	8					24
d - Estimates									20
Engineer's Opinion of Probable Cost		2	8						10
Estimate of Time		2	8						10
e - Quality Assurance and Quality Control		8					4		12
2.2 - Galena Boulevard and New York Street									584
A - Early Coordination, Data Collection and Review									32
Field Check (1 @ 4 hours, 2 persons)			4	4					8
Valet Parking Coordination and Research		4	8						12
Concept Pavement Marking Plan		4	8						12
B - Survey Services									24
Planimetric Survey						16			16
Planimetric Survey Drawing						8			8
C - Intersection Design Studies (IDS) - 4 Intersections									320
2040 Traffic Projections and Coordination with CMAP		8	24	8					40
Capacity Analyses		8	24	8					40
Intersection Geometrics		8	24	16	32				80
IDS Exhibits	12	8	40	32	40				120
Design Exception Documentation		8	20	12					40
D - Preparation of Contract Plans, Specifications and Estimates									208
a - Signing and Pavement Marking Plans									64
Cover Sheet - 8 hrs/sheet **	0								0
Index of Sheets / List of Highway Standards - 8 hrs/sheet **	0								0
General Notes - 12 hrs/sheet **	0								0
Summary of Quantities - 16 hrs/sheet **	0								0
Sign Schedule*	1	2	8	4	2				16
Pavement Marking Schedule*	1	2	8	4	2				16
Signing and Pavement Marking Plans (Double Pane @ 1" = 50') - 16 hrs/sheet	2	4	8	4	16				32
Miscellaneous Details **	0								0
b - Traffic Signal Modification Plans									112
Standard Traffic Signal Design Details (District One) **	0								0
Traffic Signal Modification Plans	7	8	24	8	8				48
Cable Plans, Phase Designation Diagrams and Schedules of Quantities*	7	8	24	8	8				48
Miscellaneous Details	4	2	6		8				16
c - Specifications									4
Special Provisions			4						4
d - Estimates									4
Engineer's Opinion of Probable Cost			2						2
Estimate of Time			2						2
e - Quality Assurance and Quality Control		16					8		24
2.3 - Meetings and Coordination									48
Project Kick-off Meeting at CLIENT (1 @ 2 hours, 2 persons)		2	2						4
Plan-In-Hand Reviews with CLIENT (2 @ 2 hours, 2 persons)		4	4						8
Meeting Preparation (3 @ 2 hours)		2	4						6
Meeting Minutes (3 @ 2 hours)		2	4						6
General Coordination		8	8				8		24
2.4 - Administration									32
General Project Administration (8 months @ 4 hours per month)		12	8					12	32
Total	52	120	268	108	116	24	8	20	906

* Includes the tabulation and checking of all applicable pay items. Actual schedules will not be provided for Downer Place, due to size.

** Sheet(s) will be combined with Downer Place plans.

Assumptions:

1. City will provide existing traffic data for use in coordinating the 2040 traffic projections with CMAP.
2. IDS hours assume no changes to the existing geometrics, lane configuration or parking along IL 25.
3. City will be responsible for the inventory and removal of existing signage in conflict with the proposed improvement.
4. Existing striping to be removed will be quantified and paid for as part of the plans, but not shown/detailed.
5. Proposed improvements will not require any modifications to the existing interconnect infrastructure.
6. City will provide for reoptimization through the CTMS. No Interconnect Plan or Interconnect Schematic required.
7. No meetings at IDOT will be required.