

**High Lake Road and Sunset Ave. Phase II
Supplement 2 - Level of Effort Estimate**

TASK		WORKHOURS
1.0	Phase I Update	98
2.0	Blair Street Contract Design Plan Documents	252
3.0	Continued Olsson/UPRR and ICC Coordination	34
4.0	Sunset Avenue Profile Revisions	8
5.0	Coordination with IDOT Local Roads and DuDOT	14
6.0	Project Coordination Meetings	17
7.0	Supplemental Survey & UPRR ROW Verification	6
8.0	Storm Water Permit Application	18
9.0	Design Plans and Contract Documents Revisions	254
10.0	Public Involvement	88
11.0	Unforeseen or Unexpected Work	200
12.0	Specifications	21
13.0	Estimate of Time and Estimate of Cost	6
14.0	Quality Control/Quality Assurance (4% Tasks 9.0 to 14.0)	23
15.0	Project Administration (2% of Tasks 1.0 to 17.0)	21
16.0	Milestone Submittals	20
17.0	Phase III Coordination	26
	Benesch	1106
	GZA (Environmental Studies)	150
	TOTAL	1256

**High Lake Road and Sunset Avenue Intersection Improvements - Phase II
Supplement 2 - Level of Effort Estimate**

TASK		No. of Sheets	Hours per Sheet	Plan Sheet Hours	Design Task Hours	Workhours
1.0	Phase I Update					98
1.1	Environmental Studies					
	Prepare and submit Addendum Environmental Survey Request (AESR) package of forms and exhibits. Includes exhibit and resource database reviews (HARGIS, wetlands, etc.)				12	
	Wetland Delineation				2	
	WIE				6	
	PESA Coordination				2	
1.2	Traffic and Safety Analysis					
	1.2.1 Traffic Volumes				6	
	1.2.2 Traffic Operations Analysis				8	
1.3	Geometric Design					
	1.3.1 Intersection Design Study (IDS) Revisions				24	
	1.3.2 Update Design Variances				36	
	1.3.3 Geometric Submittal				2	
2.0	Blair Street Contract Design Plan Documents					252
2.1	Coordination for the Closure of Blair Street					
2.2	Investigation for Temporary Easements or Agreements with Township				10	
2.3	Supplemental Survey for Blair St.				6	
2.4	General					
	Cover Sheet	1	8	8		
	Index of Drawings and List of Standards	1	6	6		
	General Notes	1	6	6		
	Summary of Quantities	2	8	16		
	Schedule of Quantities	1	8	8		
	Alignment, Ties and Benchmark	1	8	8		
	Existing and Proposed Typical Sections	1	16	16		
2.5	Maintenance of Traffic (MOT)	2	11	22		
2.6	Roadway Plans					
	Removal Plan	1	8	8		
	Proposed Plan and Profile	2	12	24		
	Intersection Detail	1	10	10		
2.7	Drainage and Utility Plan	2	8	16		
2.8	Landscaping and Erosion and Sediment Control Plans (Blair St. Restoration)	1	12	12		
2.9	Grading Plan	1	10	10		
2.10	Specifications				16	
2.11	Cost Estimate				6	
2.12	Milestone Submittals					
	90% Preliminary PS&Es to DuDOT				14	
	90% Pre-Final PS&Es to DuDOT				12	
	100% Final PS&Es				10	
	100% PS&Es for DuDOT letting				8	
3.0	Continued Olsson/UPRR and ICC Coordination					34
3.1	Prepare Final Responses to Comments for ICC				10	
3.2	Future Coordination with Olsson/UPRR/ICC				24	
4.0	Sunset Avenue Profile Revisions				8	8
5.0	Coordination with IDOT Local Roads and DuDOT					14
5.2	DuDOT Pre-Final comments				14	
6.0	Project Coordination Meetings					17
6.1	DuDOT Coordination				8	
6.2	IDOT Local Roads Coordination				3	
6.3	ICC and UPRR Coordination				3	
6.4	Winfield Township Highway Department, City of West Chicago and Village of Winfield Coordination				3	
7.0	Supplemental Survey & UPRR ROW Verification					6
7.1	Supplemental Survey for High Lake Rd and Sunset Ave.				6	
8.0	Storm Water Permit Application					18
8.1	Prepare Tab Submittal				16	
8.2	Application Form and Submittal				2	
9.0	Design Plans and Contract Documents Revisions					254
9.1	General					
	Cover Sheet	1	1	1		
	Index of Drawings and List of State Standards	1	4	4		
	General Notes and Project Commitments	1	2	2		
	Summary of Quantities	11	0.4	4		
	Schedule of Quantities	2	2	4		
9.2	Maintenance of Traffic (MOT)					
	MOT Alternative Investigation					
	Maintenance of Traffic Notes and Sequence of Construction	1	4	4		
	Stage 1 & Stage 2 Design Revisions				24	
	Intersection Staging Design (Sunset Ave.and High Lake Rd.)				14	
	MOT Typical Sections, Temporary Pavement, & HMA Mix Table Update	2	4	8		
	Temporary Pavement Design & HMA Mix Table Update				8	

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TASK		No. of Sheets	Hours per Sheet	Plan Sheet Hours	Design Task Hours	Workhours
	MOT Plan Sheets Revisions	8	4	32		
9.3	Roadway Plans					
	Plan and Profile	5	3.6	18		
9.4	Drainage Plans and Utility Plans					
	Update Existing Utility Information	1	4	4		
	Drainage and Utility Plan and Profile	4	4	16		
	Drainage Schedules	1	8	8		
	Drainage Calculations				12	
9.5	Landscaping and Erosion and Sediment Control Plans updates for High Lake and Sunset					
	Erosion Control Plan General Notes	1	1	1		
	Erosion and Sediment Control Plan	2	1	2		
9.6	Pavement Marking and Signing Plans					
	Pavement Marking and Signing Plans and Details	2	2	4		
9.7	Traffic Signal Plans					
	9.7.1 Traffic Signal Plan Revisions					
	Update Traffic Signal Modernization Plan Sheets	1	10	10		
	Update Traffic Signal Cable Plan	1	10	10		
	Update Normal Sequence of Operation	1	5	5		
	Update Traffic Signal Preemption Sequencing Plan Revisions	2	4	8		
	Update Standard Detail Drawings				3	
	9.7.2 Deliverables for the Traffic Signal Design					
	Intersection Design Study plans with AutoTurn exhibits and profile sheets	6	0.7	4		
	Design Exception Table and BLR 22120					
	Updated Traffic Signal Plan Sheets					
	9.7.3 Additional Assumptions					
9.8	Lighting Plans					
	Revise Intersection Lighting Calculations at High Lake and Sunset for new luminaires				6	
	New vertical lighting calculations at the RR tracks per D1 lighting requirements				6	
	Special Provisions				4	
9.9	Cross Sections	22	1.3	28		
10.0	Public Involvement					88
	Public Meeting 1: In-Person Meeting, Open House Format					
	Exhibits, handouts, meeting materials, prepare newspaper ads				72	
	Meeting attendance (1 meeting x 6 hrs x 2 people)				12	
	Follow-up Summary				4	
11.0	Unforeseen or Unexpected Work				200	200
12.0	Specifications					21
	Pre-Final Special Provisions to DuDOT				10	
	Pre-Final Special Provisions to IDOT (after DuDOT approval)				8	
	Final Special Provisions				3	
13.0	Estimate of Time and Estimate of Cost				6	6
14.0	Quality Control/Quality Assurance (4% Tasks 9.0 to 14.0)				23	23
15.0	Project Administration (2% of Tasks 1.0 to 17.0)				21	21
16.0	Milestone Submittals					20
16.1	90% Pre-Final PS&Es to DuDOT				12	
16.2	90% Pre-Final PS&Es to IDOT Local Roads (Expected 1 iteration)				8	
16.3	100% Final PS&Es (as per original scope)					
16.4	100% PS&Es for letting (as per original scope)					
17.0	Phase III Coordination					26
	Attend Pre-Construction Meeting – 4 hours				4	
	Response to Bidder Inquiry during the letting process- 4 hours				4	
	RFIs (assume 6 at 3 hours each) - 18 hours				18	
	TOTAL	94		347	759	1106