

SCOPE OF WORK

Proposed improvements to Fabyan Parkway (CH 21) from IL 38 to the County Line, Section 08-00210-03-FP, are anticipated to include two 12-foot thru lanes in each direction separated by an 18-foot barrier median, with dual left turn lanes and a right turn lane in both directions at the intersection of Fabyan Parkway and Technology Boulevard. Additional scope includes a multi-use path on the south side of Fabyan Parkway between Technology Boulevard and McChesney Road, a combination of open and closed drainage, and the replacement of the double box culvert at Kress Creek.

The proposed limits of construction will extend from approximately eight hundred feet west of IL 38 to the DuPage/Kane County line. The limits of improvement measure approximately 8,000 feet.

During the development of the Phase II plans, after the prefinal submittal, meetings were held with DuPage County Stormwater Management (Stormwater) and the City of West Chicago to discuss the project's use of the Kress Creek Reservoir for detention and compensatory storage for the Fabyan Parkway Project and general project detention and compensatory storage requirements. There was prior discussions during Phase I that would have allowed excess capacity of the reservoir to be use for the roadway detention and compensatory storage. From the meetings with Stormwater and West Chicago, additional modeling and permitting would be required in order to determine if the reservoir had the additional capacity needed for the roadway project. DuPage County decided that in order to keep the project on schedule, they would pursue a design that provides detention and compensatory storage on the project site. New detention calculations, new compensatory storage calculations, revised plans, right-of-way analysis, new/revised quantities, and revised stormwater permit application will be required meeting the City of West Chicago requirements will be required.

During the development of Phase II plans, after the prefinal submittal, DuPage County Division of Transportation received notice that the Aeronautical Study which was submitted in 2009 was expired and con not be extended. A new Aeronautical Study must be submitted and approved in order for construction to be allowed. Filing of Form 7460-1 and location exhibit is required in order to obtain a Determination of No Hazard to Air Navigation Letter for this project.

Knight proposes to perform the following supplemental Phase II Engineering services. These services are in addition to the services provided in the original agreement dated May 10, 2020 and Amendment 1 dated August 29, 2024 . The attached Workhour Estimate and CECS provide additional detailed information in a similar order as provided below.

Stormwater Detention and Compensatory Storage Determination and Analysis

Fabyan Parkway will need detention and compensatory storage provided for the increased imperviousness and fill in the floodplain from the widening and reconstruction. Previously, the volumes for this were assumed to be provided in the Kress Creek reservoir, which is unknown if it is presently available to be used. Because of this, a new concept and analysis is needed for detention and compensatory storage. Additionally, the Stormwater Permit application which was developed for the Kress Creek Reservoir for submittal to DuPage County Stormwater Management will need to be modified to reflect the new concept/analysis and to be submitted to the City of West Chicago. Knight will provide the following:

- Outlet evaluation of all six outlets
- Calculate pre- and post-development runoff rates using NRCS Curve Number and TR-55 methods
- Delineate drainage subbasins
- XPSWMM model setup for existing and proposed conditions for all six outlets
- Size outlet structure to meet release rate criteria
- Design overflow spillway to prevent upstream flooding
- Attempt to locate detention in available ROW thru oversized ditches and/or storm sewers
- Attempt to locate Compensatory Storage volume in available ROW to accommodate floodway fill
- Recommend necessary revisions to right of way and/or easements to accommodate detention and compensatory storage areas.
- Prepare technical memorandum that documents the results and recommendation
- Coordinate with DuPage County and West Chicago and Prepare a Disposition of Comments to address comments.
- Revise Proposed Drainage Plans and Profiles, Drainage Schedules
- Develop Detention Basin and Outlet Control Details
- Develop Detention Basin Grading
- Develop Detention volume calculations to show what is required
- Develop Compensatory Storage Calculations to show what is required
- Develop a concept plan that reflects the Detention and Compensatory Storage, requirements
- Revise the Stormwater Permit Application to reflect the new concepts
- Provide City of West Chicago site development permit application.

Deliverables: Detention and Compensatory Storage Calculations and Concept Plan, Revised Stormwater Permit Application, City of West Chicago Site Development Permit Application.

PreFinal Plan Resubmittal

Based on the findings of the Stormwater Detention Analysis, Plans, Specifications, and Estimates will be revised to reflect the requirements of the Stormwater Detention and Compensatory Storage Analysis. Additionally, grading of the southern shoulder area from Kress Creek to the Poorman development for a future multi-use path shelf will be investigated and provided if feasible. We anticipate the following will be revised:

Sheets to have design updates:

Summary of Quantities	4 sheets
Schedules	5 sheets
Maintenance of Traffic	6 sheet
Erosion Control Plans	15 sheets
Drainage Plans	15 sheets
Drainage Schedules	8 sheets
Landscaping Plans	15 sheets
Cross Sections	60 sheets
Plan Detail for Comp. Storage	1 sheet (new)
Outlet Control Structures Details	1 sheet (new)

Sheets that will have updates due to revised ROW, easements, structures, pipes, etc:

Removal Plans	15 sheets
Plan and Profiles	15 sheets
Maintenance of Traffic	68 sheets
Pavement Marking and Signing Plan	15 sheets
Temporary Traffic Signal Plan	6 sheets
Traffic Signal Plans	2 sheets
Lighting Plans	15 sheets

Specifications will need to be updated for new pay items

Cost Estimate will need to be updated for quantity revisions

Deliverables: Knight will provide revised plans, specifications, and cost estimate reflecting the changes associated with the detention and compensatory storage changes identified in the previous task.

Aeronautical Study

Due to the expiration of the 2009 Aeronautical Study, a new submission is required to the FAA. Knight will prepare FAA Form 7640-1 along with a location exhibit on a USGS 7.5 minute Quadrangle Map and submit to the FAA for review. The expected result of this is a Determination of No Hazard to Air Navigation Letter, since nothing has changed since the 2009 submittal. One round of comments and resubmittal is included in this work.

Deliverables: Knight will submit FAA Form 7640-1 and location exhibit. Knight will respond to one round of comments and resubmit the required documents in order to obtain a Determination of No Hazard to Air Navigation Letter.

Coordination

Meetings with DuPage County Stormwater Management, City of West Chicago, and DuPage County are needed to discuss the projects path forward regarding the change in stormwater design. Knight will or has attended three (3) meetings and will/has prepared agendas and meeting minutes.

Assumptions

All assumptions from the original agreement and Amendment 1 are still in effect. There are no new general assumptions, other than what is outlined in the proposed items above.

QC/QA

All work shall be completed to meet current IDOT and DuPage County policies, procedures and standards and reviewed according to Knight quality control and quality assurance procedures.

Payroll Escalation Table
Fixed Raises
DLM 2.80

FIRM NAME: Knight E/A, Inc.
PRIME/SUPPL: Prime
ROUTE: Fabyan Pkwy (CH 21)
SECTION: 08-00210-03-FP
COUNTY: DuPage

DATE: 06/27/24
PTB NO. N/A

CONTRACT TERM 24 MONTHS
START DATE 6/1/2024
RAISE DATE 1/1/2025

OVERHEAD RATE 141.08%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

6/1/2024 - 1/1/2025

1/2/2025 1/1/2026

1/2/2026 6/1/2026

7
24

12
24

5
24

29.17%

51.50%

22.10%

The total escalation for this project would be: 2.77%

06/27/24
DATE

ESCALATION FACTOR = 2.77%

[illegible]

(Direct Labor Multiple)

Knight E/A, Inc.
Fabyan Pkwy (CH 21)
08-00210-03-FP
DuPage
N/A

OVERHEAD RATE	141.08%
COMPLEXITY FACTOR	0

DATE: 06/27/24
12/21/2023

DBE DROP BOX	ITEM	MANHOURS	PAYROLL	(2.80+R) x PAYROLL	DIRECT COSTS	SERVICES BY OTHERS	DBE TOTAL	TOTAL	% OF GRAND TOTAL
		(A)	(B)	(C)	(D)	(E)	(C+D+E)	(C+D+E)	
	Phase II Plan Development	196	11,839.00	33,149.20				33,149.20	43.93%
	Other Phase II PS&E Tasks	46	2,982.80	8,351.84				8,351.84	11.07%
	Stormwater Detention and Compensatory S	136	8,859.96	24,807.89				24,807.89	32.88%
	Aeronautical Study	12	769.62	2,154.94				2,154.94	2.86%
	Administration	16	1,248.00	3,494.40				3,494.40	4.63%
	QAQC	16	1,248.00	3,494.40				3,494.40	4.63%
	TOTALS	422	26,947.38	75,452.66	0.00	0.00	0.00	75,452.66	100.00%

DBE 0.00%

AVERAGE HOURLY PROJECT RATES

FIRM:	Knight E/A, Inc.
JOB NO.:	N/A

ROUTE:	Fabyan Pkwy (CH 21)
SECTION:	08-00210-03-FP
COUNTY:	DuPage

DATE: 06/27/24

SHEET 1 of 2

Payroll Classification	Avg Houly Rates	Total Project Rates			Phase II Plan Development			Other Phase II PS&E Tasks			nd Compensatory Storage Det			Aeronautical Study			Administration		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal (Vice President)	78.00	0																	
Project Manager (Prinicpal Engineer)	78.00	57	13.51%	10.54				5	10.87%	8.48	20	14.71%	11.47				16	100.00%	78.00
Senior Engineer II, Planner II	73.62	20	4.74%	3.49							20	14.71%	10.83						
Senior Engineer I, Planner I	70.36	58	13.74%	9.67	30	15.31%	10.77	10	21.74%	15.30	16	11.76%	8.28	2	16.67%	11.73			
Project Engineer II, Planner II	62.89	130	30.81%	19.37	80	40.82%	25.67	20	43.48%	27.34	20	14.71%	9.25	10	83.33%	52.41			
Project Engineer I, Planner I	57.40	121	28.67%	16.46	50	25.51%	14.64	11	23.91%	13.73	60	44.12%	25.32						
Engineer IV, Planner IV	50.75	36	8.53%	4.33	36	18.37%	9.32												
Engineer III, Planner III	45.80	0																	
Engineer II, Planner II, Designer III	42.06	0																	
Engineer I, Planner I, Designer II	33.09	0																	
Senior Administration	73.37	0																	
Office Administration	28.16	0																	
0	0.00	0																	
0	0.00	0																	
0	0.00	0																	
0	0.00	0																	
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TOTALS		422	100%	\$63.86	196	100.00%	\$60.40	46	100%	\$64.84	136	100%	\$65.15	12	100%	\$64.14	16	100%	\$78.00

AVERAGE HOURLY PROJECT RATES

FIRM:	<u>Knight E/A, Inc.</u>
JOB NO.:	N/A

ROUTE:	Fabyan Pkwy (CH 21)
SECTION:	08-00210-03-FP
COUNTY:	DuPage

DATE: 06/27/24

SHEET 2 of 2

Payroll Classification	Rate	QAQC																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal (Vice President)	78.00																		
Project Manager (Prinicpal Engineer)	78.00	16	100.00%	78.00															
Senior Engineer II, Planner II	73.62																		
Senior Engineer I, Planner I	70.36																		
Project Engineer II, Planner II	62.89																		
Project Engineer I, Planner I	57.40																		
Engineer IV, Planner IV	50.75																		
Engineer III, Planner III	45.80																		
Engineer II, Planner II, Designer III	42.06																		
Engineer I, Planner I, Designer II	33.09																		
Senior Administration	73.37																		
Office Administration	28.16																		
0	0.00																		
0	0.00																		
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TOTALS		16	100%	\$78.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00



Direct Costs Check Sheet

Prime Consultant Name	PTB Number	State Job Number(s)
Knight E/A, Inc.	N/A	N/A
<input checked="" type="checkbox"/> Prime <input type="checkbox"/> Supplement Date <u>06/27/25</u>		

Consultant
n/a

Item	Allowable	Utilize W.O. Only	Quantity J.S. Only	Contract Rate	Total
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	<input type="checkbox"/>			
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)	<input type="checkbox"/>			
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost	<input type="checkbox"/>			
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval	<input type="checkbox"/>			
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	<input type="checkbox"/>			
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	<input type="checkbox"/>			
Vehicle Rental	Actual cost (Up to \$55/day)	<input type="checkbox"/>			
Rental Vehicle Fuel	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Tolls	Actual cost	<input type="checkbox"/>			
Parking	Actual cost	<input type="checkbox"/>			
Overtime	Premium portion (Submit supporting documentation)	<input type="checkbox"/>			
Shift Differential	Actual cost (Based on firm's policy)	<input type="checkbox"/>			
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Project Specific Insurance	Actual cost	<input type="checkbox"/>			
Monuments (Permanent)	Actual cost	<input type="checkbox"/>			
Photo Processing	Actual cost	<input type="checkbox"/>			
2-Way Radio (Survey or Phase III Only)	Actual cost	<input type="checkbox"/>			
Telephone Usage (Traffic System Monitoring Only)	Actual cost	<input type="checkbox"/>			

Item	Allowable	Utilize W.O. Only	Quantity J.S. Only	Contract Rate	Total
CADD	Actual cost (Max \$15/hour)	<input type="checkbox"/>			
Website	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Advertisements	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)	<input type="checkbox"/>			
Recording Fees	Actual cost	<input type="checkbox"/>			
Transcriptions (specific to project)	Actual cost	<input type="checkbox"/>			
Courthouse Fees	Actual cost	<input type="checkbox"/>			
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)	<input type="checkbox"/>			
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)	<input type="checkbox"/>			
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)	<input type="checkbox"/>			
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)	<input type="checkbox"/>			
Testing of Soil Samples*	Actual cost (Provide breakdown of costs to the Department for approval)	<input type="checkbox"/>			
Lab Services*	Actual cost (Provide breakdown of cost for each lab service to the Department's PM for approval)	<input type="checkbox"/>			
Equipment and/or Specialized Equipment Rental*	Actual cost (Rental - 2-3 quotes needed / Owned - provide depreciated value for IDOT approval)	<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
Total Direct Cost					

*If other allowable costs are needed and not listed, please add in the above spaces provided.

LEGEND

W.O. = Work Order

J.S. = Job Specific

Workhour Estimate			Fabyan Parkway (CH 21)
Type of Work: <u>Phase II Engineering (Ammendment 2 Draft)</u> Route: <u>Fabyan Parkway (CH 21)</u>		Location: <u>IL 38 to DuPage/Kane County Line Interchange</u> Section: <u>08-00210-03-FP</u>	
Task Item	Shts	Hours	Workhour Calculations/ Remarks
A) Phase II Plan Development			
1) Cover Sheet, Index, Standards			
2) General Notes, Legend, Mix Req's, Commitments			
3) Summary of Quantities	4	4	Revisions to storm sewers, drainage structures, earth work, landscaping, etc. New pay items for control structures, oversized pipes, etc. 4 sht @ 1 hr/sht
4) Typical Sections			
5) Schedule of Quantities	5	10	Revisions to storm sewers, drainage structures, earth work, landscaping, etc. 5 sht @ 2 hr/sht
6) Survey Layout Information (Alignments, Ties, BM's)			
7) Removal Plans	15	1	Ancillary updates to sheets due to revisions to Right of way, easements, structures, etc. and check for conflicts 1 hour total
8) Plan and Profile Sheets (Roadway)	15	1	Ancillary updates to sheets due to revisions to Right of way, easements, structures, etc. and check for conflicts 1 hour total
9) Traffic Control (Staging) Plans	21	8	Sequencing updates, Typical cross Section updates 6 sht @ 0.5 hr/sht Right of Way and Easement changes 5 hours total
9a) MOT staging Coordination for NRR Letters			
10) Detour Plans			
11) Soil Erosion and Sediment Control Plans	15	8	Revisions due to changes to the limits of construction, new easement shapes, update temp seeding, EC Blanket, mulch, etc.
12) Drainage and Utilities Plans (Roadway)	23	61	Ditch Profiles revisions, storm sewer reconfigurations, control structures, ditch checks 15 sht @ 3 hr/sht, Drainage Schedule updates 8 sht @ 2 hr/sht
13) Plan Details for Compensatory Storage Areas	1	16	New sheet 1 sht @ 16hr/sht
14) Right-of-Way Plans			
15) Intersection and ADA Ramp Details			
16) Superelevation Details			
17) Pavement Marking and Signing Plans	15	1	Ancillary updates to sheets due to revisions to Right of way, easements, structures, etc. and check for conflicts 1 hour total
18) Landscaping Plans	15	16	Revisions due to changes to the limits of construction, update seeding, fertilizers, plugs, additional wetland plantings.
19) Traffic Signal Plans	15	1	Ancillary updates to sheets due to revisions to Right of way, easements, structures, etc. and check for conflicts 1 hour total
20) Temporary Traffic Signal Plans			
21) Traffic Signal Interconnect Plans			
a) Scenario #1: Cellular Install			
b) Scenario #2: Fiber West to Kautz Road			
c) Scenario #3: Fiber East to Private Drive			
22) Lighting Plans	15	1	Ancillary updates to sheets due to revisions to Right of way, easements, structures, etc. and check for conflicts 1 hour total
a) Lighting Design			
b) Cable/Conduit Layout and Design			
c) Plans Sheets			
d) Wiring and Diagram Details			
e) Controller and Panel Equipment Details			
f) Light Foundation and Anchor Bolt Details			
g) Misc Electrical Details			
23) Temporary Lighting Plans			
24) Bridge Plans			

Workhour Estimate			Fabyan Parkway (CH 21)
Type of Work: <u>Phase II Engineering (Ammendment 2 Draft)</u> Route: <u>Fabyan Parkway (CH 21)</u>		Location: <u>IL 38 to DuPage/Kane County Line Interchange</u> Section: <u>08-00210-03-FP</u>	
Task Item	Shts	Hours	Workhour Calculations/ Remarks
25) Wetland Details			
26) Culvert Plans			
27) Misc Details	1	8	New Ditch check and Outlet control structure details
28) Cross Sections	60	60	Cross sections will need to be updated to reflect ditch regrading and widening. Assume 120 cross section at 0.5 hour/section (2 sections/sht=60 sheets)
29) Highway Standards			
Sub-total A)	220	196	
B) Other Phase II PS&E Tasks			
1) Quantity Calculations		12	Quantity revisions for earthworks, new oversized storm sewers, structures.
2) Special Provisions		12	New special pay items will be required for control structures, and ditch checks
3) Estimate of Cost		10	Cost estimate will need updating to reflect revised and new pay items
4) Estimate of Time			
5) Site Visits			
6) Phase III Consultation			
7) Meetings		12	Three meetings, agendas, minutes 2 people @ 2hr/meeting 3 meetings
Sub-total B)		46	
C) Plats and Legal Descriptions			
1) Refine/Finalize Pr ROW and Easement Limits			
2) Land Boundary/Owner Research, Field Monument Verif			
3) Title Commitments			
4) Prepare ROW and Easement Plats			
5) Prepare ROW and Easement Legal Descriptions			
6) Monument all Permanent Parcels and Permanent Easements			
7) Coordination of Land Acquisition Services			
Sub-total C)		0	
D) Appraisal, Appraisal Review and Negotiation			
1) Appraisal Services			
2) Review Appraisal Services			
3) Negotiation Services			
4) Parcel Acquisitions & Close-out Services			
5) Coordination of Land Acquisition Services			
Sub-total D)		0	
E) Design, Permitting and Coordination			
1) Coordinate Intersection and Traffic Signal Impacts at IL 38			
2) Pre-Construction Informational Meeting			
3) Utility Coordination			
4) Pavement Design			
5) Guardrail LON Assessment/Calculations			
6) US Army Corps Regional Permit Application			
7) Storm Water and Floodway Permitting			
8) IEPA Notice of Intent (NOI) and SWPPP			

Workhour Estimate		Fabyan Parkway (CH 21)	
Type of Work: <u>Phase II Engineering (Ammendment 2 Draft)</u> Route: <u>Fabyan Parkway (CH 21)</u>		Location: <u>IL 38 to DuPage/Kane County Line Interchange</u> Section: <u>08-00210-03-FP</u>	
Task Item	Shts	Hours	Workhour Calculations/ Remarks
9) DuPage County Coordination Meetings (assume 3 mtg)			
10) IDOT Local Roads Coordination Meeting			
11) CCDD Evaluation/Coordination			
12) Jurisdiction Wetland Determination Updates			
13) Proposed R.O.W. and Easements			
14) Fabyan/Technology Boulevard Intersection			
Sub-total E)		0	
F) As-needed			
15) As needed hours (to be authorized by DuPage County)			Hours to be authorized for use by DuPage County for out of scope items
Sub-total F)		0	
G) Stormwater Detention and Compensatory Storage Determination and Analysis			
1) Outlet evaluations for all six outlets (existing and proposed conditions), including drainage delineation and hydrologic parameter calculations		24	6 outlets @ 4 hr/outlet
2) XPSWMM model setup for existing and proposed conditions for all six outlets		40	New model for roadway including area delineations, tc, CN, existing ditches and culverts, proposed storm sewers.
3) Development of detention storage system		24	Ditch and storm sewer based detention system for each outlet.
4) Compensatory Stroage Concept		16	
5) Results Tabulation		8	Summarize all outlets and the detention and compensatory storage concepts.
6) Memo/report preparation		16	Modify the stormwater permit to reflect new dentention and compensatory storage concepts.
7) City of West Chicago Site Permit Application		8	City of West Chicago Permit Application and exhibits.
Sub-total G)		136	
H) PreFinal Plan Resubmittal			
1) See sheet revisions in section "A"			
Sub-total H)		0	
I) Aeronautical Study			
1) Fill out and submit FAA Form 7640-1 with exhibit		8	
2) Respond to one round of comments and resubmit/obtain Clearence Letter		4	
Sub-total I)		12	
Totals			
1) Sub-total (A) thru (E)		390	
2) Admin/ Management	----	16	Figure 4% of Sub-total (A) thru (F)
3) QC/QA		16	Figure 4% of Sub-total (A) thru (F)
Grand Total	0	422	
Name of Consultant: _____ Date of Estimate: _____		APPROVED: _____ DATE: _____	