

**Genesee County Drain Commissioner - Division of Water and Waste Services  
ESTIMATE OF PRELIMINARY DESIGN PHASE ENGINEERING FEES**

HUBBELL, ROTH & CLARK, INC.  
CONTRACT NO. S-4001 LHPS Design  
DATE: May 31, 2013

RESPONSIBILITY	Principal in Charge	Project Manager	Professional Engineers	Sr. Design Engineers	Sr. Process Engineers	Sr Project Engrs / Arch	Design Engineers	Design Engineers	CADD	CADD	Survey Crew Chief	Survey Instr Person	Clerical / Technician	TOTAL	TOTAL
CLASSIFICATION	Principal	Associate	Associate/Mgr	Dept Mgr	Sr. Proj Mgr	Sr Project Engineer / Arch	Project Engr / Arch	Staff Engineer	Sr. CADD Tech	Designer	Survey Crew Chief	Survey Instr Person	Admin Support	HOURS	COST
BASE LABOR RATE	\$54.35	\$51.55	\$49.00	\$46.00	\$46.25	\$46.00	\$36.00	\$31.00	\$39.00	\$37.00	\$32.00	\$24.00	\$28.00		
LABOR COST W MULTIPLIER	\$163.05	\$154.65	\$147.00	\$138.00	\$138.75	\$138.00	\$108.00	\$93.00	\$117.00	\$111.00	\$96.00	\$72.00	\$84.00		

Task A Preliminary Design Phase															
A1 - Project Management															
Meetings and Coordination	6	10	8	6	18	8		20						76	\$9,990
Administration and Reporting	2	10	4	4	20			16						56	\$7,276
Scheduling	2	14	6	4	16									42	\$6,145
A2 - Site Investigations															
Review Data Provided by PRM	4	28	4	6	14	6		20						82	\$11,029
Supplemental Survey		12			20			1						33	\$4,724
Geotechnical Investigations	2	16			24			1						43	\$6,224
Utility Investigations		8			12			24						44	\$5,134
Site Visit(s)	4	4			12			16						36	\$4,424
A3 - 30% Design															
Plans and Specifications	12	36	48	160	148	40	333	600	230	230			60	1897	\$211,959
QA/QC	8	12	8	12	20	2	12	20	12	12			2	120	\$15,103
Cost Estimate	8	12	8	8	20	2	12	20	12	12			12	126	\$15,391
Permitting	2	6	2	4	12	2	14	14	13	13			8	90	\$10,491
<b>Subtotal Preliminary Design</b>	<b>50</b>	<b>168</b>	<b>88</b>	<b>204</b>	<b>336</b>	<b>60</b>	<b>371</b>	<b>752</b>	<b>267</b>	<b>267</b>	<b>0</b>	<b>0</b>	<b>82</b>	<b>2645</b>	<b>\$307,890</b>
	<b>31</b>	<b>132</b>	<b>70</b>	<b>181</b>	<b>276</b>	<b>60</b>	<b>369</b>	<b>722</b>	<b>266</b>	<b>266</b>	<b>0</b>	<b>0</b>	<b>82</b>	<b>2455</b>	<b>\$291,240</b>

**Multipliers/Mark-ups**

Engineering Services	3.00
Administration & Expenses	0.00%
Subconsultants	5.00%

**Costs Summary**

		Original
Total Base Labor	\$307,890	\$291,240
Administration and Expenses	\$0	\$11,650
Total Subconsultants Costs with Markup	\$52,500	\$57,500
Total Allowances	\$0	\$0
<b>Total Preliminary Design Phase Costs</b>	<b>\$360,390</b>	<b>\$360,390</b>

Materials Testing Consultants	\$30,000
Site Design Consultant (RMB or Spicer?)	\$20,000
Subconsultant "C"	\$0
Subconsultant "D"	\$0
<b>Total Subconsultants Base Cost</b>	<b>\$50,000</b>

**Avg Hourly Rate \$ 116.40**

Permit Fee Allowance	\$0
Allowance "B"	\$0
Allowance "C"	\$0
<b>Total Allowances</b>	<b>\$0</b>

**Assumptions/Comments**  
11 Week 30% Design Period  
Authorization by 6/17/2013

**Genesee County Drain Commissioner - Division of Water and Waste Services  
ESTIMATE OF FINAL DESIGN PHASE ENGINEERING FEES**

HUBBELL, ROTH & CLARK, INC.  
CONTRACT NO. S-4001 - LHPS Design  
DATE: May 31, 2013

RESPONSIBILITY	Principal in Charge	Project Manager	Professional Engineers	Sr. Design Engineers	Sr. Process Engineers	Sr Project Engrs / Archs	Design Engineers	Design Engineers	CADD	CADD	Survey Crew Chief	Survey Instr Person	Clerical / Technician	TOTAL	TOTAL
CLASSIFICATION	Principal	Associate	Associate/Mgr	Dept Mgr	Sr. Proj Mgr	Sr Project Engineer / Arch	Project Engr / Arch	Staff Engineer	Sr. CADD Tech	Designer	Survey Crew Chief	Survey Instr Person	Admin Support	HOURS	COST
BASE LABOR RATE	\$54.35	\$51.55	\$49.00	\$46.00	\$46.25	\$46.00	\$36.00	\$31.00	\$39.00	\$37.00	\$32.00	\$24.00	\$28.00		
LABOR COST W MULTIPLIER	\$163.05	\$154.65	\$147.00	\$138.00	\$138.75	\$138.00	\$108.00	\$93.00	\$117.00	\$111.00	\$96.00	\$72.00	\$84.00		

Task B Final Design Phase															
B1 - Project Management															
Meetings and Coordination	8	24	12	8	28	8		16						104	\$14,361
Administration and Reporting	4	24	2	2	32			12						76	\$10,490
Scheduling	4	32	4	4	24									68	\$10,071
B2 - 60% Design															
Plans and Specifications	16	32	40	112	112	25	300	300	240	200			60	1437	\$163,504
QA/QC	12	24	12	12	24	2	12	12	12	12			2	136	\$18,010
Cost Estimate	12	24	8	8	24	2	12	12	12	12			12	138	\$17,710
Permitting	4	16	2	2	16	2	12	12	12	12			8	98	\$12,013
B3 - 90% Design															
Plans and Specifications	16	28	40	130	111	24	300	300	240	200			60	1449	\$165,092
QA/QC	12	20	12	12	24	2	12	12	12	12			2	132	\$17,392
Cost Estimate	12	20	8	8	24	2	12	12	12	12			12	134	\$17,092
Permitting	4	12	2	2	16	2	12	12	12	12			8	94	\$11,394
B4 - 100% Design															
Plans and Specifications	8	56	14	24	51	6	50	100	120	79			60	568	\$65,788
QA/QC	6	24	6	6	32	2	8	8	8	8			2	110	\$14,716
Cost Estimate	6	24	4	4	32	2	8	8	8	8			12	116	\$14,986
Permitting	2	16	2	2	20	2	7	8	9	7			8	83	\$10,424
<b>Subtotal Final Design</b>	<b>126</b>	<b>376</b>	<b>168</b>	<b>336</b>	<b>570</b>	<b>81</b>	<b>745</b>	<b>824</b>	<b>697</b>	<b>574</b>	<b>0</b>	<b>0</b>	<b>246</b>	<b>4743</b>	<b>\$563,041</b>
	<b>90</b>	<b>271</b>	<b>168</b>	<b>336</b>	<b>540</b>	<b>84</b>	<b>737</b>	<b>815</b>	<b>566</b>	<b>566</b>	<b>0</b>	<b>0</b>	<b>246</b>	<b>4419</b>	<b>\$536,578</b>

Multipliers/Mark-ups	
Engineering Services	3.00
Administration & Expenses	0.00%
Subconsultants	5.00%

Materials Testing Consultants	\$30,000
Site Design Consultant (RMB or Spicer?)	\$20,000
Subconsultant "C"	\$0
Subconsultant "D"	\$0

**Total Subconsultants Base Cost \$50,000**

Permit Fee Allowance	\$4,000
Allowance "B"	\$0
Allowance "C"	\$0
<b>Total Allowances</b>	<b>\$4,000</b>

Costs Summary		
	Original	
Total Base Labor	\$563,041	\$536,578
Administration and Expenses	\$0	\$21,463
Total Subconsultants Costs with Markup	\$52,500	\$57,500
Total Allowances	\$4,000	\$4,000
<b>Total Final Design Phase Costs</b>	<b>\$619,541</b>	<b>\$619,541</b>

**Avg Hourly Rate \$ 118.71**

**Genesee County Drain Commissioner - Division of Water and Waste Services  
ESTIMATE OF BIDDING PHASE ENGINEERING FEES**

HUBBELL, ROTH & CLARK, INC.  
CONTRACT NO. S-4001 LHPS Design  
DATE: May 31, 2013

RESPONSIBILITY	Principal in Charge	Project Manager	Professional Engineers	Sr. Design Engineers	Sr. Process Engineers	Sr Project Engrs / Archs	Design Engineers	Design Engineers	CADD	CADD	Survey Crew Chief	Survey Instr Person	Clerical / Technician	TOTAL	TOTAL
CLASSIFICATION	Principal	Associate	Associate/Mgr	Dept Mgr	Sr. Proj Mgr	Sr Project Engineer / Arch	Project Engr / Arch	Staff Engineer	Sr. CADD Tech	Designer	Survey Crew Chief	Survey Instr Person	Admin Support	HOURS	COST
BASE LABOR RATE	\$54.35	\$51.55	\$49.00	\$46.00	\$46.25	\$46.00	\$36.00	\$31.00	\$39.00	\$37.00	\$32.00	\$24.00	\$28.00		
LABOR COST W MULTIPLIER	\$163.05	\$154.65	\$147.00	\$138.00	\$138.75	\$138.00	\$108.00	\$93.00	\$117.00	\$111.00	\$96.00	\$72.00	\$84.00		

Task C Bidding Design Phase															
C1 - Project Management															
Meetings and Coordination	4	24			28	8		16						80	\$10,841
Administration and Reporting		24			32			12						68	\$9,268
Scheduling														0	\$0
C2 - Bid Phase Assistance															
Bid Questions and Addenda	2	24	6	5	41	4	8	40	23	25				178	\$21,900
Bid Review and Recommendations	3	8	2	2	16	2	4	7						44	\$5,875
<b>Subtotal Final Design</b>	<b>9</b>	<b>80</b>	<b>8</b>	<b>7</b>	<b>117</b>	<b>14</b>	<b>12</b>	<b>75</b>	<b>23</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>370</b>	<b>\$47,884</b>
	<b>6</b>	<b>64</b>	<b>8</b>	<b>8</b>	<b>116</b>	<b>14</b>	<b>6</b>	<b>74</b>	<b>24</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>344</b>	<b>\$45,658</b>

**Multipliers/Mark-ups**

Engineering Services	3.00
Administration & Expenses	0.00%
Subconsultants	5.00%

Materials Testing Consultants	\$2,000
Site Design Consultant (RMB or Spicer?)	\$2,000
Subconsultant "C"	\$0
Subconsultant "D"	\$0
<b>Total Subconsultants Base Cost</b>	<b>\$4,000</b>

Permit Fee Allowance	\$0
Allowance "B"	\$0
Allowance "C"	\$0
<b>Total Allowances</b>	<b>\$0</b>

**Assumptions/Comments**

Bid Period with Eelectronic Plan Distribution

**Costs Summary**

		Original
Total Base Labor	\$47,884	\$45,658
Administration and Expenses	\$0	\$1,826
Total Subconsultants Costs with Markup	\$4,200	\$4,600
Total Allowances	\$0	\$0
<b>Total Bidding Phase Costs</b>	<b>\$52,084</b>	<b>\$52,084</b>

**Avg Hourly Rate \$ 129.42**