

**Whiteland / Graham Force Main Design**  
**Relocation of existing line through the intersection**  
**Town of Whiteland, Indiana**  
**Manhour Justification For**

<b>Force Main Design</b>					
DESCRIPTION	MANHOURS BY CLASSIFICATION				
	DIRECTOR	SEN. PROJ. MANAGER	PROJECT ENGINEER	CADD MANAGER	TOTAL HOURS
Coordination meeting with Utility	2	2			
Preliminary Sanitary Plan & Profile Sheets		1	2	4	
Preliminary Structure Data			1	2	
Preliminary Sanitary Design		1	2	4	
Preliminary Sanitary Detail Sheets		1	1	4	
Preliminary Sanitary Quantities			2		
Preliminary Sanitary Construction Cost Estimate		1	2		
Preliminary Special Provisions		1	2		
Plan Submittal Package	1	1	2		
<b>PRELIMINARY PLANS</b>	<b>3</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>0</b>
Revise Plans per Client comments		1	2	4	
Final Sanitary Design		1	2	2	
Update Sanitary Plan & Profile Sheets		1	1	2	
Utility Coordination Plans		1	1	4	
Sanitary Detail Sheet		1	1	2	
Structure Data Sheets			1	1	
Final Sanitary Quantities			1		
Final Sanitary Construction Cost Estimate		1	1		
Revise Preliminary Special Provisions		1	1		
IDEM Permit Submittal and Coordination		2	4		
Plan Submittal Package	1	1	2		
<b>FINAL CHECK PRINTS</b>	<b>4</b>	<b>18</b>	<b>31</b>	<b>29</b>	<b>0</b>
Revise Plans per Final Check Submittal		1	2		
Project Numbers & Sheet Numbers Correct			1		
Final Special Provisions		1			
Final Construction Cost Estimate Updated		1			
Final Tracings Package	1	2	2		
<b>TRACINGS</b>	<b>5</b>	<b>23</b>	<b>36</b>	<b>29</b>	<b>0</b>
<b>TOTAL HOURS</b>	<b>5</b>	<b>23</b>	<b>36</b>	<b>29</b>	<b>0</b>
AVERAGE 2015 HOURLY RATES	\$140.00	\$125.00	\$95.00	\$95.00	
TOTAL SALARY COSTS	\$700.00	\$2,875.00	\$3,420.00	\$2,755.00	\$9,750.00
DIRECT NON-SALARY COSTS					
Mileage (30 miles per trip, \$0.44/mile)				\$13.20	
TOTAL DIRECT NON-SALARY COSTS				\$13.20	
<b>TOTAL</b>					<b>\$9,763.20</b>
<b>USE FOR SANITARY DESIGN PLANS</b>					<b>\$9,800.00</b>

CrossRoad Engineers, PC

3417 Sherman Drive, Beech Grove, Indiana 46107