INTERGOVERNMENTAL AGREEMENT

This Intergovernmental Agreement (IGA) is entered into by and between the City of Portland ("City") acting by and through its Bureau of Environmental Services ("BES"), and Multnomah County ("County").

This IGA is authorized pursuant to ORS 190.110 and becomes effective upon full execution of this document.

PURPOSE

City and County desire to work together to include needed City sewer repair work in County's construction work for the proposed Multnomah County Courthouse (MCC).

By this IGA, County agrees to complete sewer rehabilitation work as part of the Multnomah County Courthouse construction project as described in Exhibit A: Statement of Work, and City agrees to reimburse County for costs associated with the provision of these services as described in this IGA and in accordance with Exhibit B: Project Budget. The MCC public works job is being built under permit number EP269, and building permit number: 16-188612-MG. The BES Capital Improvement Project number is: E10860.C14.

GENERAL PROVISIONS

- 1. <u>Effective Date and Duration</u>. This IGA is effective upon execution by all parties. Unless earlier terminated or extended, this IGA shall expire when County's completed performance has been accepted by City or on September 1, 2017, whichever date occurs first.
- Statement of Work. The statement of work, (the "Work") including the delivery schedule and budget for the Work, is contained in Exhibits A and B. County agrees to perform the Work in accordance with the terms and conditions of this IGA.
- 3. <u>Consideration</u>. City agrees to pay County for the cost of the Work as agreed and not to exceed \$300,000 as allocated in Exhibit B. Budget up to an additional 25% will be made available with approval by BES Director or designee. Any necessary funds above-and-beyond the 25% contingency will require an amendment to this IGA and City Council approval.
- 4. <u>Project Representatives</u>. Each party has designated a project manager to be the formal representative for this Work. All reports, notices, and other communications required under or relating to this IGA shall be directed to the appropriate individual.

<u>City</u> <u>County</u>

Design Manager:	Colleen Harold	Project Manager:	JD Deschamps, PE
Organization:	City of Portland	Organization:	Multnomah County
Address:	1120 SW Fifth Ave., Suite 1000	Address:	401 N Dixon
	Portland, OR 97204		Portland, OR 97227
Phone:	(503) 823-5227	Phone:	(503) 988-4615
Email:	colleen.harold@portlandoregon.gov	Email:	jd.deschamps@multco.us
Carrie Manager	Dest Lieur	CM/GC	Josh Durham
Construction Manager:	Ray Lions	01.1.00	U U U U U U U U U U U U U U U U U U U
Organization:	City of Portland	Organization:	Hoffman Construction Co. of Oregon
Address:	1120 SW Fifth Ave., Suite 1000	Address:	805 SW Broadway, Suite 2100
	Portland, OR 97204		Portland, OR 97205
Phone:	(503) 823-7128	Phone:	503-221-8811
Email:	ray.lions@portlandoregon.gov	Email:	Josh-Durham@hoffmancorp.com

5. Contractor and Designer Selection Oversight, Payment. County has selected Hoffman Construction as Construction Manager/General Contractor ("CM/GC") and SRG Partnership as Architecture & Engineering firm ("A&E") and will manage and enforce provisions of the CM/GC and A&E contracts, and make payments to the CM/GC and A&E. County shall secure in all such construction service contracts for the Work that the contractor shall (1) name City as an additional insured; (2) indemnify City, its officers, employees and agents on the same terms the contractor agrees to indemnify County; and (3) name City as an additional insured on the contractor's insurance on the same terms the

contractor agrees to name County as an additional insured. County shall furnish City with evidence of said insurance. The City Project Manager shall have the opportunity to review and comment on all Work procurement and contract documents prior to issuance by County. Hoffman will provide a schedule of values for the work to City prior to notice to proceed. Hoffman will endeavor to meet or exceed City equity in contracting and workforce goals for Oregon State certified disadvantaged, minority, women and emerging small businesses (DMWESBs) for the Work in accordance with Hoffman's CM/GC contract with County.

6. <u>Amendments</u>. The terms of this IGA shall not be waived, altered, modified, supplemented, or amended, in any manner whatsoever, except by written instrument signed by both parties.

7. Reimbursement.

- A. County shall submit itemized invoices to City for reimbursement of services performed; noting the Work and City contract number and the allocation of costs in accordance with the budget line items identified in Exhibit B.
- B. Non-itemized or incomplete billings shall be detained for payment processing until County or the contractor has supplied correct information to City. This will cause a new invoice date.
- C. County shall submit to City an invoice at least quarterly for costs incurred during the preceding performance period no later than (thirty) 30 days following the end of that performance period. City shall not be liable for reimbursement of costs after that date.
- D. Invoices shall be submitted in duplicate, identifying the City IGA number to:

Ray Lions, Construction Manager City of Portland, BES 1120 SW Fifth Avenue, Room 1000 Portland, OR 97204

City's Construction Manager will review and approve the invoice and submit the invoice to BES Accounting with all proper cost objects, account code, contract number and signature for timely processing. City shall pay all approved invoices within 30 days from the invoice date.

8. Changes to the Work.

- A. Because of the complexity of the Work and the potential unknowns that could be discovered in the field, City and County recognize and acknowledge that there may be a significant number of changes required to the plans and specifications during construction.
- B. County and City agree to make timely responses as appropriate and required to keep the Work progressing.
- C. County will handle any claims by the CM/GC for change orders. Each party will pay for additional costs incurred during construction as determined by the scope for each party's Work. County will provide City with any change order requests for City work and City will have ten (10) business days to review and approve or reject such change orders.

9. <u>Termination</u>.

- A. The parties may agree to an immediate termination of this IGA or at a time certain upon mutual written consent.
- B. Either party may terminate this IGA effective not less than thirty (30) days from delivery of written notice.
- C. Either party may terminate this IGA effective not less than ten (10) days from written notice or at such other date as may be established by both parties under any of the following conditions:
 - If funding is not obtained and continued at levels sufficient to allow for purchase of the specified services. When possible, and when agreed upon, the IGA may be modified to accommodate a reduction in funds.
 - 2) If federal or state regulations or guidelines are modified, changed or interpreted in such a way that the services are no longer allowable or appropriate for purchase under this IGA, or are no longer eligible for the funding proposed for payments authorized by this IGA.
- D. Either party may terminate this IGA in the event of a breach by the other party. Prior to such termination, however, the party seeking termination shall give the other party written notice of the party's intent to terminate. If the party has not cured the breach within ten (10) days or a longer period as granted in the cure notice, the party seeking compliance may terminate this IGA.

- 10. <u>Funds Available and Authorized</u>. Both parties certify that at the time the IGA is written that sufficient funds are available and authorized for expenditure to finance the costs of this IGA within either party's current appropriation and limitation. Both parties understand and agree that payment of amounts under this IGA attributable to work performed after the last date of the current budget period is contingent on either party receiving appropriations, limitations, or other expenditure authority.
- 11. <u>Captions</u>. The captions or headings in this IGA are for convenience only and in no way define, limit or describe the scope or intent of any provisions of this IGA.
- 12. <u>Choice of Venue</u>. Oregon law shall govern this IGA and all rights, obligations and disputes arising out of the IGA. Venue for all disputes and litigation shall be in Multnomah County, Oregon.
- 13. <u>Severability/Survival</u>. If any of the provisions contained in this IGA are held unconstitutional or unenforceable, the enforceability of the remaining provisions shall not be impaired. All provisions concerning the limitation of liability, indemnity and conflicts of interest shall survive the termination of this IGA for any cause.
- 14. Ownership of Work Product. All work products, including reports, research data in hard copy or electronic form that result from this IGA, are the joint property of City and County and shall be considered a public record.
- 15. Access to Records. Both parties and their duly authorized representatives shall have access to the other party's books, documents, papers, and records which are directly pertinent to this IGA, for the purpose of making audits, examinations, excerpts, and transcripts.
- 16. <u>Compliance with Applicable Law.</u> Both parties shall comply with all federal, state, and local laws, regulations, executive orders and ordinances applicable to the Work under this IGA.
- 17. <u>No Third Party Beneficiary</u>. City and County are the only parties to this IGA and, as such, are the only parties entitled to enforce its terms. Nothing contained in this IGA gives or shall be construed to give or provide any benefit, direct, indirect, or otherwise to third parties unless third persons are expressly described as intended to be beneficiaries of its terms.
- 18. <u>Indemnification</u>. To the extent allowed under the Oregon Constitution and within the limits of the Oregon Tort Claims Act, codified at ORS 30.260 through 30.300, each party agrees to indemnify and defend the other and its officers, employees, agents and representatives from and against all claims, demands, penalties and causes of action arising from this IGA or arising out of or resulting from the acts or omissions of the indemnitor, its employees, agents, subcontractors or representatives.
- 19. Merger Clause. This IGA constitutes the entire agreement between the parties pertaining to the subject matter hereof. No waiver, consent, modification or change of terms of this IGA shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this IGA.

This IGA may be signed in two (2) or more counterparts, each of which shall be deemed an original and which, when taken together, shall constitute one and the same agreement. The parties agree that City and County may conduct this transaction, including any contract amendments, by electronic means, including the use of electronic signatures.

Approved as to form:	Approved as to form: JENNY M. MADKOUR, COUNTY ATTORNEY FOR MULTNOMAH COUNTY, OREGON
City Attorney	
	Ву
	Kenneth M. Elliott, Assistant County Attorney

EXHIBIT A: STATEMENT OF WORK

BACKGROUND

- County is planning to construct a new courthouse building (MCC) on the block bounded by SW
 Jefferson St., SW 1st Ave, SW Madison St. and SW Naito Parkway in downtown Portland. Portland,
 Block 8, Lots 1 8.
- 2. The MCC project will require removal of an existing BES combination sewer line crossing the project site that conveys flows from SW 1st and Madison to SW Naito Parkway, sewer nodes ABQ591 to ABQ594. County will reroute this line by intercepting flows at the intersection of SW 1st and Madison and constructing a new sewer line north on SW 1st to connect to an existing line at SW 1st and Main.
- 3. BES Capital Improvements identified a necessary sewer repair in the existing combination sewer line located in SW Madison Ave., sewer nodes ABQ588 to ABQ591. This sewer repair is immediately upstream of the proposed MCC sewer reroute. BES completed a design but was unable to complete construction during the planned capital improvement project due to unforeseen site constraints.
- 4. City is asking County to add the scope of work for the sewer repair and relocation to the planned County sewer project in order to capitalize on efficiencies of street closures, construction mobilization and other benefits.

WORK STATEMENT

County will include additional work in the construction contract for its project as described below and shown on the construction drawings included in this Exhibit:

- Rehabilitation by cured-in-place lining of approximately 197 feet of 15 inch sewer from nodes ABQ588 to ABQ590
- 2. Construct new 48 inch manhole in SW Madison north of manhole ABQ590
- 3. Rehabilitate Manholes ABO588 and ABO590. Reconstruct manhole base in ABO590.
- 4. Construction of approximately 80 feet of 16 inch sewer, using open cut method to connect to proposed County manhole in intersection of SW 1st Ave and SW Madison St.
- Identify and reinstate all active laterals along the rehabilitated cured-in-place line from nodes ABQ588 to ABQ590
- Abandonment, per COP specifications, of pipe run ABQ590 to ABQ591, located in SW Madison
- 7. All work to include, traffic control (including signs), disposal of contaminated media, mobilization, excavation, backfill and surface restoration.

The demarcation of the limits of work between County and City will be the City connection at the new manhole at the east side of the intersection of SW 1st Ave. and SW Madison St. labeled in the Public Works Permit EP269 drawings as PMH #2. County is responsible for construction of the manhole and City is responsible for the upstream pipe and connection. All other elements of the construction work including excavation, backfill and surface restoration will be divided at this point. The one exception is that City will take responsibility for abandonment of line ABQ590 to ABQ591. County will be responsible for abandonment of manhole ABQ591 and pipe ABQ591 to ABQ594.

City will provide the design, plans and specifications for the additional work required. This will include all sewer work that is driven by BES maintenance needs.

County will provide the design, plans and specifications for the work necessary to reroute the sewer to abandon manhole ABQ591 and pipe ABQ591 to ABQ594.

City will also reimburse County for additional design and consulting work performed by their CM/GC and A&E contractors required to coordinate this IGA and the associated work. Including completed and ongoing work.

EXHIBIT B: PROJECT BUDGET & WORK SCHEDULE

BES and County shall cooperate and exercise good faith efforts to provide documents, review, and comment, and resolve comments on plans and specifications so that the Project schedule milestones identified in Exhibit A are met. The Parties agree that, should the Project schedule be revised in the future, they shall make best efforts to comply with the updated schedule milestones.

PROJECT BUDGET

The project budget is based on information provided by County and their CM/GC and A&E contractors. The budget covers construction costs and additional coordination time from the CM/GC and A&E. The cost estimate summary is provided below. A detailed break-down of the construction cost estimate is attached to this exhibit.

Type of Work	Cost Estimate
Design coordination	\$7,410
Construction: pipe rehabilitation	\$54,258
Construction: open cut new pipe installation	\$228,461
Total	\$290,129

PROJECT SCHEDULE

The project schedule is based on information provided by County and their CM/GC and A&E contractors. It is attached to this exhibit.



					Cost of Work Recap of Options			
BUILDING: MCCH Courthouse					Price	Total Price		
LOCATION: Portland, OR				Rehab Work	\$ 54,258			
ARCH: SRG				New Work	\$ 228,461			
SUBJECT: City Sewer Modifications								
cct Description	Est		• Unit		Revised			
Description	Qty	Unit	Price		Unit price	Total Price		
ehabilitation by cured in place lining of a 197ft of 15" Sewer from nodes AE						44,6		
ehabilitate Manholes ABQ588 and ABQ590								
iv 2 - Site work	1-1-1-1-1-1					\$44,0		
Sewer Rehab Work								
15" CIPP	19	7 LF	\$125.0	0	\$125.00	\$24,6		
Rehab MH - ABQ588		1 EA	\$10,000		\$10,000.00	\$10,0		
Rehab MH - ABQ590		1 EA	\$10,000		\$10,000.00	\$10,0		
						410)		
iv 3 - Concrete								
iv 4 - Masonry								
iv 5 - Metals								
iv 6 - Woods & Plastics				<u> </u>				
iv 7 - Thermal & Moisture Protection								
iv 8 - Doors and Windows								
iv 9 - Finishes								
iv 10 - Specialties								
iv 11 - Equipment		-						
iv 12 - Furnishings								
iv 13 - Special Construction								
iv 14 - Conveying Systems								
iv 15 - Mechanical								
iv 16 - Electrical								
lisc. Scopes - Considerations		-						
. I FOOM						444		
otals ECOW						\$44,6		
ems not above in Estimated Cost of Work								
LEED "Gold" Premium Costs: 1.5% of DCC		on		4,625	\$44,625			
Solar: 1.5% per State of Oregon		on		4,258	\$54,258			
Alternate Procurement		on	\$ 4	4,625	\$44,625			
UBTOTAL-ECOW w/ Leed, Solar, Alternate Procurement						\$44,6		
Design & Estimating Contingency	5.00%	on	\$48,58	5	\$48,585	\$2,4		
Construction Contingency	3.00%	on	\$51,01	4	\$51,014	\$1,5		
Escalation: To Midpoint Construction 2018		on	\$48,58	5	\$48,585			
General Conditions Staff Per RFP		on	\$48,58	5	\$48,585			
General Requirements/Temp Facilities	5.00%	on	\$48,58	5	\$48,585	\$2,4		
ubtotal - ECOW, DCE, Cont, Esc, GC/GR						\$51,0		
Contractor: DB-Fee (Excludes A/E) Fees	1.95%	on	\$51,01	4	\$51,014	\$9		
ub Totals: w/Fee						\$52,0		
Insurance: G/L & WC	2.52%	on	\$54,25	8	\$54,258	\$1,3		
Insurance-Builders risk	0.15%	on	\$54,25		\$54,258	\$		
Performance Bond	0.58%	on	\$54,25		\$54,258	\$3		
	1.00%	on	\$48,58		\$48,585	\$4		
SubGuard Insurance Wrap Protection		1 LS						
		LO						
SubGuard Insurance Wrap Protection		1 1.0				\$54,2		
SubGuard Insurance Wrap Protection PreConstruction Services		1 10				\$54,2		





						Cost of Work Recap of Options			
	NG: MCCH Courthouse						 	Price	Variance From TVD Targe
	ON: Portland, OR					Rehab Work	\$	54,258	
	CH: SRG					New Work	\$	228,461	
SUBJE	CT: City Sewer Modifications						-		
\ oot	Description	Est			Unit			Revised	
Acct	Description	Qty	Unit		Price	Escalation		Unit price	Total Price
onstruct New	48" MH in Madision, East of Manhole ABQ590, 80lf of 18" Sew	ver		m. K					187,9
dentify and Rei	nstate all active Laterals along CIP rehab work								
Div 2 - Site worl	ſ								\$187,9
New	Sewer Work								
	Connect to MH - ABQ590		1 Is		18,000.00			\$18,000.00	\$18,0
	Install MH-1		1 ea		30,000.00			\$30,000.00	\$30,0
	Connect to MH (East Side of 1st Ave)		1 ea		10,000.00			\$10,000.00	\$10,0
	18in HDPE Storm Sewer (Across 1st Ave)	6	4 If	\$	750.00			\$750.00	\$48,0
	18in HDPE Storm Sewer (Madison St)	1	5 If	\$	1,000.00			\$1,000.00	\$15,0
	Hardscape Restoration		1 Is	\$	10,000.00			\$10,000.00	\$10,0
	Abandon Existing Sewer	17	5 If	\$	200.00			\$200.00	\$35,0
	Rehab MH - ABQ591		1 Is	\$	-				
	Contaminated Media Offhaul	14	6 су	\$	150.00			\$150.00	\$21,9
Div 3 - Concrete							-		
Div 3 - Concrete Div 4 - Masonry						-	+		
Div 4 - Masonry Div 5 - Metals	The second of th	- Vanishing			-	 	+		
Div 6 - Woods 8	Disting						+		
	& Moisture Protection		- 101 Vite	_	THE PARTY OF THE P		+		
Div 8 - Doors an							+		
Div 9 - Finishes	u windows	×					+		THE RESERVE THE TAX TO SERVE THE TAX TO
	4						+		
Div 10 - Special		-					+		
Div 11 - Equipm							+		
Div 12 - Furnish							+		
Div 13 - Special							-		
Div 14 - Convey							+		
Div 15 - Mechan							+		
Div 16 - Electric			-	*			+		
Misc. Scopes - (Considerations		T-				+		
Totals ECOW									\$187,90
						9-5-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
	in Estimated Cost of Work D "Gold" Premium Costs: 1.5% of DCC		on	\$	187,900	1		\$187,900	100
	r: 1.5% per State of Oregon		on	\$	228,461		-	\$228,461	
	nate Procurement		on	\$	187,900			\$187,900	
URTOTAL ECO	DW w/ Leed, Solar, Alternate Procurement				-				\$187,9
	gn & Estimating Contingency	5.00%	on		\$204,573	I	T	\$204,573	\$10,2
	truction Contingency	3.00%	on		\$214,801			\$214,801	\$6,4
	lation: To Midpoint Construction 2018	0.0070	on		\$204.573		-	\$204,573	40,4
	eral Conditions Staff Per RFP		on	_	\$204,573		+	\$204,573	
	eral Requirements/Temp Facilities	5.00%	on		\$204,573			\$204,573	\$10,2
ubtotal ECOU	V, DCE, Cont, Esc, GC/GR								\$214,8
	ractor: DB-Fee (Excludes A/E) Fees	1.95%	on		\$214,801	Γ	T	\$214,801	\$4,10
Cont	actor. Db-Fee (Excludes A/E) Fees	1.5576	OII		\$214,001			\$214,001	\$4,1
ub Totals: w/Fe			- New York		0000 400			4000.45:	\$218,9
	ance: G/L & WC	2.52%	on		\$228,461		_	\$228,461	\$5,7
	ance-Builders risk	0.15%	on		\$228,461			\$228,461	\$3
	mance Bond	0.58%	on		\$228,461			\$228,461	\$1,3
	Guard Insurance Wrap Protection	1.00%	on		\$204,573		-	\$204,573	\$2,0
PreC	onstruction Services Total Construction Costs - With Adders		I LS				+		\$228,4
	Total Solistiuction Costs - Willi Mudels					1			4220,41

ID	Activity Name	Original Duration	Remaining Start Duration	Finish	Total Float Predecessors	Successors	2016 2017 Sep Oct Nov Dec Jan Feb Mar A
CONSTRUCTION	ON	A WALLES TO A STATE OF THE PARTY OF THE PART					9 10 11 12 13 14 15
CONTRACTOR CO.	N STATION FOUNDATION			A15-1-1-1-1			
1000	Subcontract approval	1	1 14-Oct-16*	14-Oct-16	56	1010	Subcontract approval
1010	Mobilize equipment	1	1 17-Oct-16	17-Oct-16	56 1000	1020	I Mobilize equipment
1020	Remove trash enclosure/sidewalk	1	1 18-Oct-16	18-Oct-16	56 1010	1030	I Remove trash endosure/sidew
1030	Pothole using Vac Truck	3	3 19-Oct-16	21-Oct-16	56 1020	1040	■ Pothole using Vac Truck
1040	Observation/confirm foundation	1	1 24-Oct-16	24-Oct-16	56 1030	1050	I Observation/confirm foundati
1050	Continue JS foundation design	1]	1 25-Oct-16	25-Oct-16	56 1040		l Continue JS foundation design
						Commence of the Commence of th	
1060	Demo / EC permit submitted	1	1 05-Oct-16*	05-Oct-16	41	1070	I Demo / EC permit submitted
1070 1080	Demo / EX permit approval Demo subcontract negotiations	15 5	15 06-Oct-16 5 10-Oct-16*	26-Oct-16 14-Oct-16	41 1060	1110, 1160, 1320 1090	Demo / EX permit approval Demo subcontract negotiations
1090	Demo subcontract approval	1	1 17-Oct-16	17-Oct-16	37 1080	1100	I Demo subcontract approval
1100	Asbestos subcontract	3	3 18-Oct-16	20-Oct-16	37 1090	1120	Asbestos subcontract
1110	Set up perimeter fending	2	2 24-Oct-16	25-Oct-16	41 1070	1150	Set up permeter fencing
1120	Removal of asbestos	2	2 21-Oct-16	24-Oct-16	37 1100	1130, 1150	☐ Removal of asbestos
1130	Safe off utilities at the VQ	2	2 25-Oct-16	26-Oct-16	37 1120	1140	■ Safe off utilities at the VQ
1140	Clear all salvable items	3	3 27-Oct-16	31-Oct-16	37 1130	1150	Clear all salvable items
1150	Demo structure	5	5 01-Nov-16	07-Nov-16	37 1120, 1140, 1110	1180	☐ Demo structure
1160	Install erosion control	1	1 27-Oct-16	27-Oct-16	43 1070	1170	I Install erosion control
1170 1180	Site approval for EC measures Clear/grub site	1	1 28-Oct-16	28-Oct-16	43 1160	1180 1190	Site approval for EC measured Clear/grub site
1190	Fabric/gravel site	5	5 08-Nov-16 5 15-Nov-16	14-Nov-16 21-Nov-16	37 1150, 1170 37 1180	1200	Fabric/gravel site
1200	Ready for foundation work	0	0 22-Nov-16	21-1404-10	37 1190	1200	Ready for foundation
	SEWER IMPROVEMENTS						
1210	RFP of scope out for bid	1	1 25-Oct-16*	25-Oct-16	0	1220	RFP of scope out for bid
1220	Estimating duration	15	15 26-Oct-16	15-Nov-16	0 1210	1230	Estimating duration
1230	Bids due	1	1 16-Nov-16	16-Nov-16	0 1220	1240	I Bids due
1240	Bid review and recommendation	5	5 17-Nov-16	23-Nov-16	0 1230	1250	■ Bid review and recom
1250	Subcontractor negotiations	5	5 28-Nov-16	02-Dec-16	0 1240	1260	☐ Subcontractor nego
1260	Subcontract Finalized	1	1 05-Dec-16	05-Dec-16	0 1250	1270, 1320	I Subcontract Finaliz
1270	Submittals and shop drawings	10	10 06-Dec-16	19-Dec-16	0 1260	1280, 1290	Submittals and s
1280	Submittal approval	5	5 20-Dec-16	27-Dec-16	0 1270	1290	Submittal appro
1290 1300	Manhole and piping procurement Complete/submit traffic control	10	10 28-Dec-16 1 10-Oct-16*	11-Jan-17 10-Oct-16	0 1270, 1280 50	1360, 1390 1310	Manhole an
1310	Traffic control plan approval	15	15 11-Oct-16	31-Oct-16	50 1300	1370	Traffic control plan approv
1320	Set up fending at laydown area	2	2 06-Dec-16	07-Dec-16	20 1070, 1260	1330	Set up fencing at k
1330	Install erosion control measures	1	1 08-Dec-16	08-Dec-16	20 1320	1340	I Install erosion con
1340	Fabric and gravel lot	5	5 09-Dec-16	15-Dec-16	20 1330	1350	☐ Fabric and grave
1350	Ready for use by excavator	1	1 16-Dec-16	16-Dec-16	20 1340		Ready for use by
1360	Mobilize to site	2	2 12-Jan-17	13-Jan-17	0 1290	1370	■ Mobilize to
1370	Install traffic control measures	1	1 16-Jan-17	16-Jan-17	0 1360, 1310	1380	I Install traffi
1380	Survey/layout MH and trenches Off-site sewer work permit approval	1	1 17-Jan-17	17-Jan-17	0 1370	1390	I Survey/lay
1390	Install sewer and Manholes 3 & 4 at 1st & Main	0	0 16-Jan-17	09-Jan-17 30-Jan-17	0 1380, 1290		: :
	Install sewer from 1st & Main to 1st & Madison	25	30-Jan-17	6-March-17			
	Install Manhole 2 and sewer in 1st & Madison	7	6-March-17				
	Install sewer across 1st and Manhole 1	15		7 05-April-17			
	Remediate pipe via CIPP from 1st & Madison to 2nd & Madison	15	05-April 17	26-May-17			