



TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
UXBRIDGE, MASSACHUSETTS 01569

Chairman Dale Bangma
Vice Chair Joe Marchand
Eugene O'Rourke
Dan Hicks
William Kessler

Benn Sherman (Ad hoc)
Jim Legg (Ad hoc)

MEETING MINUTES

MEETING DATE: January 16, 2019
MEETING LOCATION: Board of Selectmen Meeting Room, 21 South Main Street

COMMITTEE MEMBERS PRESENT:

Dale Bangma
Joe Marchand
Dan Hicks
Eugene O'Rourke
William Kessler

APR 24 '19 PM 6:25

Received by
Uxbridge
Town Clerk

OTHERS IN ATTENDANCE:

Benn Sherman	Director of Public Works
Jim Legg	Wastewater Operations Supervisor
Sandy Tripp	Project Designer (GHD)
Laurie Toscano	OPM (Weston & Sampson Engineers)
Frank Woodfall	Resident Project Representative (Keville)

I. CALL TO ORDER

It being 5:00 p.m., the meeting being properly posted, duly called and a quorum being present, the Chair, Mr. Bangma, called the meeting to order.

II. OLD BUSINESS

None

III. NEW BUSINESS

A. Citizens Comments

None

B. Acceptance of Meeting Minutes

Pass over

C. Project Updates by Owner's Project Manager and Project Engineer

Ms. Toscano (OPM) distributed the OPM status report to the Committee. This report includes activities from the month of December.

West River Pump Station (WRPS): The project team has continued to meet with the Contractor to discuss the past costs, in addition to the future costs to complete. Mr. Marchand noted that he and Mr. Hicks visited the construction site. Mr. Kessler asked if there is no resolution what would the next step be. Ms. Tripp indicated it would proceed to mediation. Mr. Hicks asked about contract provisions covering the costs of ledge removal. Ms. Tripp noted there was not a quantity for ledge because the boring logs indicated there were obstructions and that it was included in the scope of the work for the contractor to complete. Mr. Kessler asked what is being done in the interim with the pump station. The pump station continues to operate. Mr. Legg noted there was an issue with the electrical transfer switch, which is proposed to be upgraded once the construction resumes.



Wastewater Treatment Facility (WWTF): Ms. Toscano reviewed the progress outlined in the OPM report. Refer to attached OPM report for specific/notable work activities. The contractor and engineer continue to submit and review submittals associated with the current work. Mr. Hicks asked how testing was being performed. Mr. Woodfall noted that concrete cylinder and compaction testing is done by an independent agency and startup testing will be done through the resident engineer and MassDEP on site. Hydrostatic testing of structures and pressure testing of pipe is done by the Contractor and witnessed by the resident engineer.

D. Schedule Update

Ms. Toscano presented and updated the committee on the WWTF schedule. The project team provided the revised schedule format for review by the Committee. Refer to the OPM report for the updated project schedule. The new schedule shows the work breakdown structure (WBS) for each of the process areas. Based on the current schedule the float on the project is projected to be -2 days compared to -12 days from the prior month. The item showing the negative float are Aeration Basins No. 1-3.

E. Change Order Update

WWTF-Change Order No. 8 was distributed for review and discussion. Mr. Woodfall discussed the 8 items that make up Change Order No. 8. These changes include 4 unforeseen, 3 value added and 1 omission. Mr. Kessler asked about the PCO-35 for the existing floor. Mr. Woodfall explained there was an issue with the existing floor and how it did not adhere to the concrete. The proposal is to provide an epoxy coating.

Motion by William Kessler, seconded by Eugene O'Rourke to recommend approval of Change Order No. 8 for the WWTF project in the amount of \$63,547.50. Motion carried 5-0-0.

Included with this discussion was the overall project contingency management. Refer to the attachments for details regarding the management of contingency funds. Mr. Marchand asked about the potential exposure for the filter building painting item. A cost is being developed and will be presented in the future. Mr. Kessler asked for some clarification with the overall project contingency presentation. The summary includes both WWTF and WRPS projects together. *Action item: Develop a combined contingency management summary for future meetings.*

F. Budget Update

Ms. Toscano provided an update on the total project accounting. Refer to the OPM report for the details on each phase. Mr. Sherman handed out the project level budget summary to the committee for reference.

IV. MEMBER COMMENTS

None

V. EXECUTIVE SESSION

Passover



VI. ADJOURNMENT

Motion by William Kessler, seconded by Eugene O'Rourke to adjourn the meeting. Motion carried 5-0-0.

Minutes respectfully submitted by **Benn Sherman**.

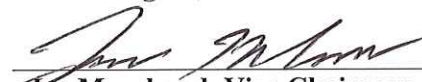
Minutes approved by WWTF Building Committee

Date Approved: 4/24/2019

Dale Bangma, Chairman



William Kessler

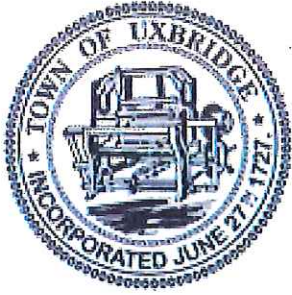


Joe Marchand, Vice Chairman

Eugene O'Rourke



Dan Hicks



Monthly OPM Project Updates

January 2019

2016-04 West River Pump Station Replacement

Progress: Last Month –The path forward with the least amount of risk (therefore anticipated to be most the most cost-effective) was previously determined to be installing the new PS and wetwell in the existing PS and wetwell locations. WM Schultz submitted a proposal for the pump station relocation on Friday, 12/14/18. GHD received the back-up material on Tuesday, 12/17/18 and has been reviewing this package. The additional costs submitted are significant and were discussed with the Building Committee on 12/19/18 in Executive Session. A construction meeting was held with the Contractor on December 19th. The PS is continuing to be stored on-site.



This Month – WM Schultz and GHD have been meeting weekly to discuss the costs contained in the 12/14/18 submittal and the team is being kept updated. The next construction meeting is tentatively scheduled with the Contractor for February 14th.

Schedule: Estimated Project Completion Date: Contractor requested another 146-day extension

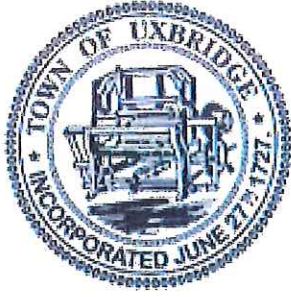
Financial:	GHD Budget:	\$140,000	Invoiced:	\$91,177	% Complete:	65.1%
	Contractor:	\$1,670,758*	Invoiced:	\$484,649	% Complete:	29.0%

**Adjusted for Change Order No. 1, Change Order No. 2 & Change Order No. 3*

Submittal Status: Approximately 80% of submittals have been received and have been or are being reviewed.

Action Items: Continue to work with WM Schultz to confirm the additional cost and revised schedule of the path forward for PS installation. Review cost implications of work revisions with the team for continued contingency management.

Current Status: WM Schultz will provide updated information and GHD will review and negotiate additional costs and discuss with the Town before proceeding with implementation.



January 2019

2016-05 Wastewater Treatment Facility BNR & Infrastructure Upgrade

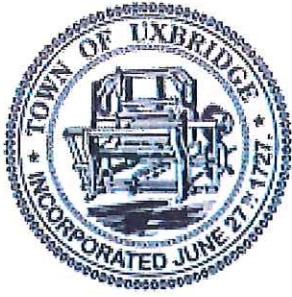
Progress:

Last Month – Similar to last month, DOC submitted shop drawings, continued to procure equipment/materials, and continued work in the following areas: piping and secondary electrical feeds site-wide, new Septage Receiving finishes, new Preliminary Treatment equipment installation, Grit Tank improvements, new Garage, Preliminary Treatment equipment replacement, new Gravity Thickener #2 equipment installation, Secondary Clarifiers #1 and #4 on-line, the Process Building, the Admin Building, Utility Tunnel Access #2, Primary Settling basins and distribution box, Yard Piping, Aeration basins distribution box, Aeration Basin #1-3 Extensions, the new Filter Building, the new Chemical Building, Sludge Pump Station, the Blower Building and Primary Canopy. A construction meeting was held on January 10, 2019.

This Month – DOC continues to submit shop drawings, to procure equipment/materials, continued electrical feed installation, applying coatings for the Septage Receiving area, concrete work & equipment installation in the Grit Basin, electrical & plant water piping in Preliminary Treatment, air compressor & hot water heater installation and piping in the new Garage, Gravity Thickener #2 equipment installation, coatings & equipment installation in Primary Settling basins, demo existing equipment in SC #2 and #3, HVAC openings, chemical feed buildout, electrical and plumbing, lights & install blowers in the Process Building, installation of ceiling grid, HVAC drops, lights & flooring in the Admin Building, dampproof and backfill Utility Access Tunnel #2, complete roof railings & sleeves, roof drain system and apply wall vapor barrier for the new Filter Building and the new Chemical Building, demo RAS and FC and install new for the Sludge Pump Station. Photos below show a side-by-side comparison of the progress of construction from last month to this month and some additional photos of other work areas.

The Contractor's 15th payment application was processed for \$2,121,168.20. The next monthly construction meeting date will be held on February 14, 2019.

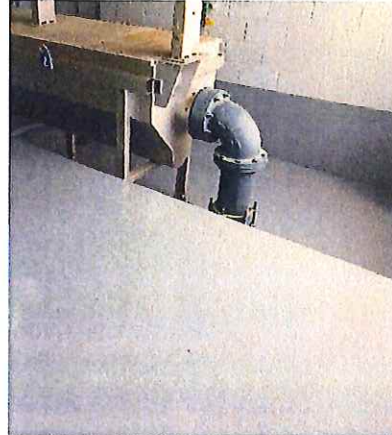
GHD continues to review and comment on submittals and RFI's received, reviews payment applications, reviews and recommends change orders and continues to provide full-time construction inspection.



New Septage Receiving & Garage Paved 12/2018



New Septage Receiving (int) 01/2019



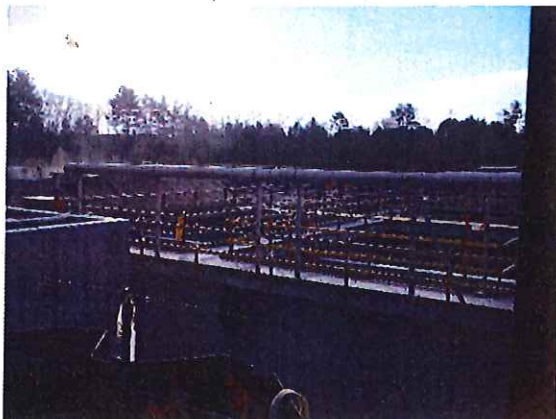
New Preliminary Treatment Paved (ext.) 12/2018



Aerated Grit Chamber Improvements 01/2019

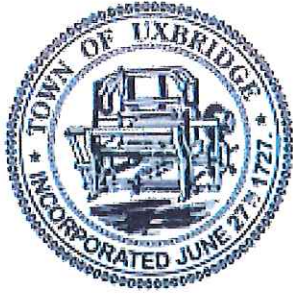


Aeration Tank Expansions 12/2018



Aeration Tank Expansion 01/2019





New Chemical & Filter Building 12/2018



New Chemical & Filter Building 01/2019



New Aeration Splitter Box 12/2018



Aeration Distribution Box 01/2019

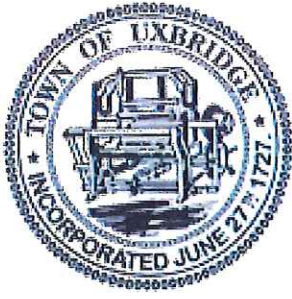


Utility/Pipe Gallery Tunnel New Access 12/2018



Utility/Pipe Gallery Tunnel Access 01/2019





Admin Building New Training Room 12/2018



Training Room Admin Building 01/2019



Secondary Clarifier No. 2 Ready for Equipment Demo.



New Aeration Blowers 01/2019



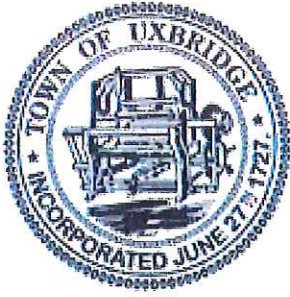
Schedule: Estimated Project Completion Date: February 21, 2020

At the request of the Building Committee, DOC has provided a simplified graphical schedule to depict the remaining work by area. Please refer to the attached *Frank Classic Schedule Layout by WBS (Work Breakdown Schedule) (Data Date 12/15/18)*.

This schedule update shows that the strategies that have been continued to be implemented to restore float in the schedule have resulted in maintaining the -2 days of float for the overall project. Critical remaining work is also identified on the attached and these will continue to be closely monitored to keep the project on schedule.

Financial:	OPM Budget:	\$500,000	Invoiced:	\$ 224,478	% Complete:	44.9%
	GHD Budget:	\$4,150,000	Invoiced:	\$1,963,579	% Complete:	47.3%
	DOC Budget:	\$35,260,662**	Invoiced:	\$20,534,316	% Complete:	58.2%

**Adjusted for Change Order Nos. 1, 2, 3, 4, 5, 6 & 7 (DOC)



Submittal Status: Approximately 84% of submittals have been received and have been or are being reviewed.

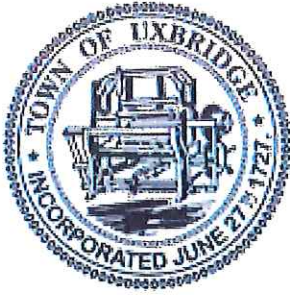
Action Items: Continue to work with DOC to track strategies that have been implemented to maintain float in the schedule and continue construction progress at the increased rate. Continue to process submittals, process payment requisitions and continue to evaluate potential change orders. The next SRF reimbursement request package will be submitted to DEP early next week.

Current Status: DOC will continue submittals (especially the UV system), procurement of equipment and materials and continue to maintain an increased labor presence on-site, as more work areas continue to be made available for concurrent work activities.

2016-04 & 2016-05 Project Contingency Management/ Change Order Summary

Based on discussions at prior Building Committee meetings, below is a summary for the contingency on the combined projects (WWTF & WR PS), amounts that have been allocated to Approved Change Orders and amounts that are likely to be considered in the future for identified Potential Change Order items.

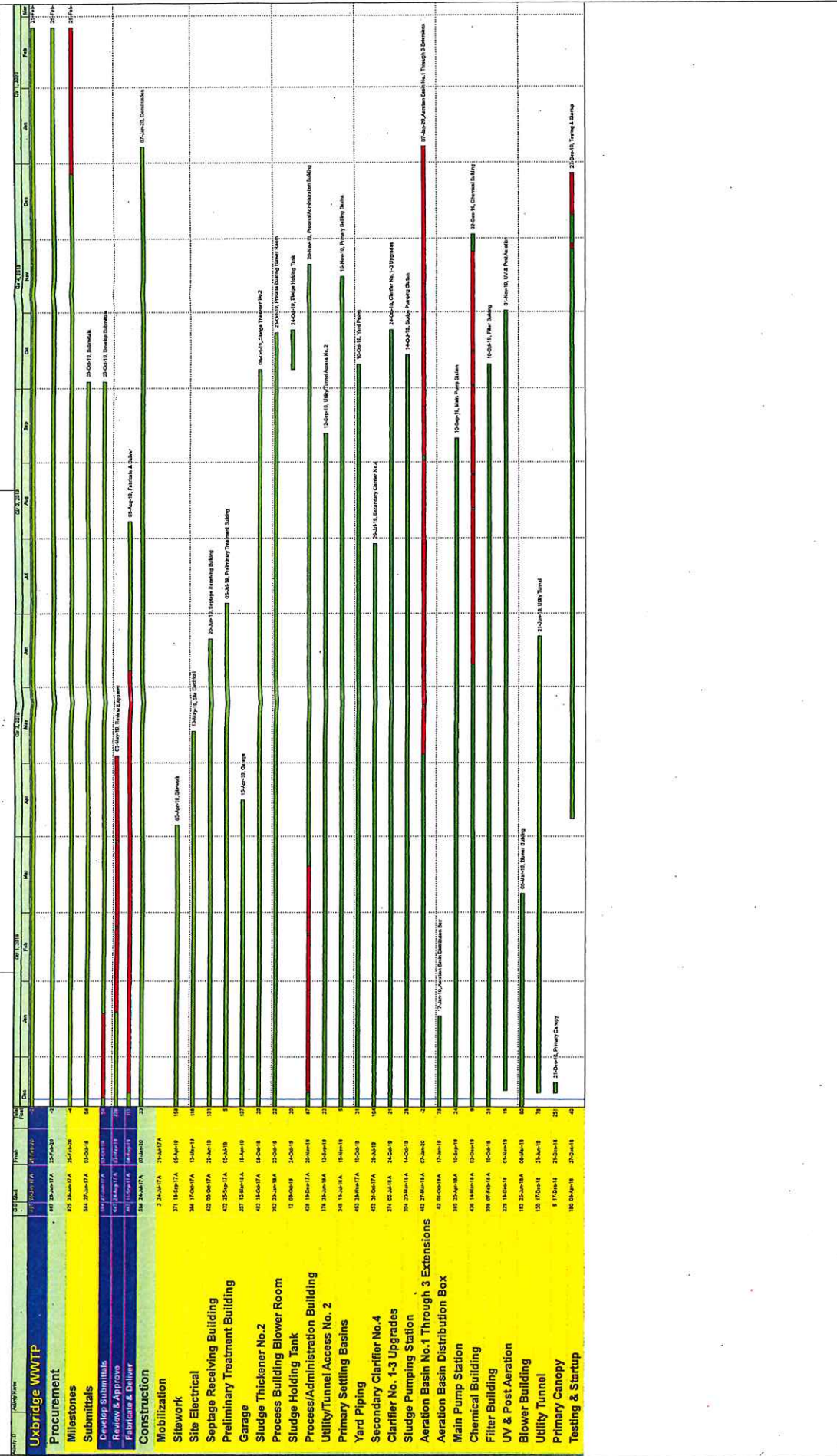
Project Item	Item Amount	Cumulative Total
Project Original Contingency ^a		\$2,300,000.00
WR PS Change Order No. 1 (8/9/17)	\$78,900.00	\$2,221,100.00
WR PS Change Order No. 2 (8/9/17)	\$5,213.00	\$2,215,887.00
WR PS Change Order No. 3 (10/18)	\$27,209.00	\$2,188,678.00
WR PS Potential Change Orders ^b	Under negotiation	
WWTF Change Order No.1 (3/6/18)	\$60,283.00	\$2,128,395.00
WWTF Change Order No. 2 (6/21/18)	\$126,050.00	\$2,002,345.00
WWTF Change Order No. 3 (8/15/18)	\$90,655.00	\$1,911,690.00
WWTF Change Order No. 4 (9/19/18)	\$56,443.00	\$1,855,247.00
WWTF Change Order No. 5 (10/18)	\$188,022.00	\$1,667,225.00
WWTF Change Order No. 6 (12/20/18)	\$57,504.00	\$1,609,721.00



WWTF Change Order No. 7 (12/20/18)	\$76,799.00	\$1,532,942.00
WWTF Change Order No. 8 (01/19)	\$63,547.50	\$1,469,394.50
WWTF Potential Change Orders ^b	\$179,000.00	
Utility Work (Eversource)	\$122,323.92	\$1,347,070.58

^a Contingency includes original budget (\$2,050,000) plus additional services budget in GHD contract (\$250,000).

^b Potential Change Orders (PCOs) are those identified to date in various stages of review and negotiation. For the WR PS, this amount is more significant than included above, however we have discussed this during the executive session of the 12/19/18 meeting to preserve negotiations with the contractor. This value is provided based on estimated potential costs identified to date and will be updated monthly.



Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 8618922A
 January 10, 2019

Contract Value: \$34,604,926.00
 Contingency: \$1,730,246.30
 Construction Budget: \$36,335,172.30

Open
Agreed Change
Not Approved / Closed
No Cost Change
Net Approved / Dispute
Void or Superseded

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning				Net Available	Net Available as %	Original Proposal	Date (PCO Received)	Response Date	Change Order No.
					Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added						
1	1001B	Transformer access road	Beginning Balance											
2	1002	Relocate gas line	\$45,000.00	\$ 45,000						\$53,913.65	9/18/2018		8	
3	1003A	Electrical modifications	\$2,220.00	\$ 17,785						\$2,220.65	5/24/2018		3	
4	1004	Preliminary treatment cleanout	\$17,785.00	\$ 743						\$22,796.38	8/21/2018		4	
5	1005	Septage pipe roof penetration	\$743.00							\$768.70	4/23/2018	12/8/2017	2	
6	FO11	Drill and grout dowels at PT bldg	\$3,000.00							\$3,125.69	2/22/2018	2/22/2018	2	
7	1007	Potable water well pump power and control	\$359.00							\$359.49	5/24/2018		3	
8	1006	Core FDs in PT bldg	\$12,404.00	\$ 12,404						\$13,045.36	5/24/2018		3	
9	1008	Core FDs in PT bldg	\$1,966.00	\$ 1,966						\$2,607.24	12/7/2017	12/8/2017	2	
10	FO12A	Relocate block retaining wall	\$4,889.00	\$ 4,889						\$4,864.06	12/7/2017	12/8/2017	1	
11	9	Pipe vents in septage bldg	\$45,265.00	\$ 45,265						\$46,449.15	9/18/2018		5	
12	8	Septage bldg main cleanout	\$7,440.00	\$ 7,440						\$7,865.80	4/18/2018	5/1/2018	2	
13	1009	Replace valves at clarifier 4	\$ 750	\$ 750						\$1,589,175.30	91.8%			
14	46	Changes to EMH13 and electrical room	\$20,394.00			\$ 20,394				\$1,568,781.30	90.7%	12/7/2017	12/8/2017	1
15	35	Trench drains in garage	\$65,500.00							\$1,503,281.30	86.9%	4/24/2018		2
15A	35	Trench drains in garage	\$0.00							\$1,503,281.30	86.9%	4/18/2018	5/1/2018	
15B	35	Trench drains in garage (vents)	\$6,636.00							\$37,163.43				
16	1011	Primary scum level sensor	\$0.00							\$6,900.00	86.5%	4/18/2018		2
17	1012	Main PS bypass changes	\$0.00	\$ 1,500						(\$890.32)	7/17/2018			
18		Weather impacts								\$1,496,645.30	86.5%			
19	1015	Gravity Thickener 2 concrete fill	\$3,510.00							\$1,496,645.30	86.5%	11/1/2018		6
20	53	PRB-MOD 7 & 15	\$0.00			\$ 3,510				\$1,493,135.30	86.3%	3/1/2018	3/27/2018	NA
21	43	Core and Link Steel	\$504.00							\$1,493,135.30	86.3%	4/18/2018	5/1/2018	2
22	1014	Demolish suspended ceiling	\$584.00							\$572.39	86.2%	5/24/2018		2
23	46X	Reconfiguration of ductbank G-G - MOVED to PCO 14	\$0.00							\$584.40	86.2%	1/22/2018		
24	1019	Cleanouts in chemical room	\$3,050.00	\$ 3,050						\$1,492,047.30	86.2%	1/22/2018		
25	1018	Firewall in chemical room	\$0.00							\$1,492,047.30	86.2%	4/23/2018	5/1/2018	2
26		Buried fire alarm conduit in chemical room	\$4,240.00	\$ 4,240						\$3,135.42	86.1%	7/17/2018	5/1/2018	2
27	1021	Additional rebar at secondary clarifier 4	\$4,240.00	\$ 4,240						\$240.05	86.1%	7/17/2018	5/25/2018	3
28	64	GPR existing concrete	\$35,000.00	\$ 35,000						\$4,242.25	85.8%	2/5/2018		
										\$1,484,757.30	85.8%	2/5/2018		
										\$1,449,757.30	83.9%	2/5/2018		1

**Unbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 861892ZA
January 10, 2019**

Open
Agreed Change
Not Approved / Closed
No Cost Change
Not Approved / Dispute
Void or Superseded

Contract Value: \$34,604,926.00
 Contingency: \$1,730,246.30
 Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning			Net Available	Net Available as %	Original Proposal	Date (PCO Received)	Response Date	Change Order No.
					Unforeseen Condition	Omission (paper change)	Owner Initiated						
29	1017	Relocate MW-105	\$9,444.00		\$ 9,444			\$1,440,313.30	83.2%	\$9,444.68	3/27/2018	3/28/2018	2
30	1022	Manhole covers			\$ -			\$1,440,313.30	83.2%	\$4,969.55	3/5/2018	3/21/2018	
31	74	Chemical room eyewash and water supply	\$ -					\$1,440,313.30	83.2%		2/20/2018		
32	1025	Administration building changes	\$13,640.00				\$ 13,640	\$1,426,673.30	82.5%	\$14,667.49	8/21/2018		5
33	1020	Gravity thickener supports		\$ 2,500				\$1,426,673.30	82.5%		2/20/2018		
34	1062	Remove and replace existing 8-inch scum line @ Sec Clar. 4 (PCO 38 and 1062)	\$14,380.00		\$ 14,380			\$1,412,293.30	81.6%	\$29,800.20	11/1/2018		6
35	1026	Chemical Room Floor	\$16,095.00		\$ 16,095			\$1,396,198.30	80.7%	\$15,272.28	11/21/2018		8
36	1027	Filter bldg gate and valves	\$41,068.00				\$ 41,068	\$1,355,130.30	78.3%	\$44,623.82	8/21/2018		5
37	1029	Storage Room ADB-129 window	\$763.00				\$ 763	\$1,354,367.30	78.3%	\$737.03	4/10/2018	4/23/2018	2
38	1030	Sludge pumping station roof	\$25,270.00					\$1,329,097.30	76.8%	\$25,727.38	5/17/2018		2
39	1031	Garage bathroom	\$0.00					\$1,329,097.30	76.8%	\$36,852.53	5/23/2018	6/18/2019	NA
40	1032	Admin/process building windows	\$19,260.00				\$ 19,260	\$1,309,837.30	75.7%	\$19,431.59	4/24/2018		3
41	1035	Delete blower discharge valves		\$ (5,000)				\$1,309,837.30	75.7%		2/21/2018		
42	105	ADB pull stations	\$1,770.00				\$ (5,000)	\$1,308,067.30	75.6%	\$1,770.67	3/20/2018		3
43	83	Details for lifting eyes	(\$9,515.00)				\$ (9,515)	\$1,317,582.30	76.1%	(\$9,011.02)	6/7/2018		3
44	75R	Water supply size	\$7,012.00				\$ 7,012	\$1,310,570.30	75.7%	\$7,407.01	8/21/2018		4
45	76R	Emergency eyewash and shower	\$0.00					\$1,310,570.30	75.7%		3/9/2018		
46	79	Flow Switches		\$ 5,000				\$1,310,570.30	75.7%	\$6,216.80	11/2/2018		
47	1037	Plant water system gate valves	\$28,670.00				\$ 28,670	\$1,281,900.30	74.1%	\$31,144.89	7/30/2018		5
48	1036	Gravity thickener guard rails	(\$12,785.00)				\$ (12,785)	\$1,294,685.30	74.8%	(\$11,891.99)	6/14/2018		3
49	82R1	Louver openings		\$ 10,000			\$ 10,000	\$1,294,685.30	74.8%		3/9/2018		
50	1039	Process Admin Bldg duct modifications	(\$378.00)				\$ (878)	\$1,295,563.30	74.9%	(\$725.96)	4/23/2018		3
51	92	W05 window type					\$ -	\$1,295,563.30	74.9%		3/20/2018		
52	1040	Glycol storage	\$1,150.00				\$ 1,150	\$1,294,413.30	74.8%	\$1,151.41	4/18/2018		2
53	1038	Process Bldg. HVAC (west)	\$24,470.00				\$ 24,470	\$1,269,943.30	73.4%	\$25,798.56	6/14/2018		3
53A	1038	Process Bldg. Elec	\$3,500.00				\$ 3,500	\$1,266,443.30	73.2%	\$3,508.40	11/13/2018		6
54	93	Roof Openings - Admin. Bldg.	\$30,500.00				\$ 30,500	\$1,239,443.30	71.6%	\$35,525.20	9/18/2018		5
55	1046	Water line - Process Bldg.		\$ 7,500			\$ 7,500	\$1,239,443.30	71.6%		11/21/2018		

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56	1049	Slide Gates	\$1,560.00					\$1,237,883.30	71.5%	\$5,162.87	10/26/2018		6
57	1047	Process Bldg. Roof Openings	\$25,130.00					\$1,212,753.30	70.1%	\$25,147.34	6/14/2018		3
58	109	Toilet Carrier	\$3,250.00		\$ 3,250			\$1,209,503.30	69.9%	\$3,884.13	5/23/2018		6
59	117	Chemical Building Gr.	\$1,840.00				\$ 1,840	\$1,207,663.30	69.8%	\$1,968.47	8/21/2018		4
60	2C	Vents for OWS	\$6,560.00				\$ 6,560	\$1,201,103.30	69.4%	\$8,523.56	4/23/2018		4
61	113	Utility Coordination	\$13,980.00		\$ 13,980			\$1,187,123.30	68.6%	\$16,621.83	5/24/2018		3
62	1050	Filler Bldg. Clean Out		\$ (5,000)			\$ (5,000)	\$1,187,123.30	68.6%		5/24/2018		
63	WCD1	Boiler Abatement	\$10,000.00		\$ 10,000			\$1,177,123.30	68.0%	\$1,479.55	5/24/2018		3
63	WCD1	Cost overrun									12/11/2018		
64	1052	Vacuum Pump	\$845.00			\$ 845		\$1,176,278.30	68.0%	\$906.11	8/21/2018		4
65	1054	Restroom Floor Drains	\$6,609.00		\$ 6,609			\$1,169,669.30	67.6%	\$7,112.22	8/21/2018		4
66	146/147	Roof Drains	\$4,960.00		\$ 4,960			\$1,164,709.30	67.3%	\$5,308.22	7/31/2018		4
67		Lead abatement at ceilings		\$ -	\$ -			\$1,164,709.30	67.3%		5/21/2018		
68	1058	Lab Plumbing Changes	\$1,725.00		\$ 1,725			\$1,162,984.30	67.2%	\$5,112.11	8/28/2018		6
69	1059	IT Network Rack		\$ (1,000)			\$ (1,000)	\$1,162,984.30	67.2%	(\$614.73)	12/14/2018		
70	128	Bubblers in Admin bldg	(\$4,247.00)				\$ (4,247)	\$1,167,231.30	67.5%	(\$4,099.89)	8/7/2018		4
71	1057	Aeration Basin 1 concrete repair		\$ 1,000	\$ 1,000			\$1,167,231.30	67.5%		5/24/2018		
72	1053	Chem PW		\$ 4,500	\$ 4,500			\$1,167,231.30	67.5%		5/24/2018		
73	89	Reloc. Plant Water In Process Building	\$5,000.00		\$ 5,000			\$1,162,231.30	67.2%	\$5,096.64	10/29/2018		6
74	160	Recirc Line Chem Room Eyewash		\$ -	\$ -			\$1,162,231.30	67.2%		8/3/2018		
75	144 & 154	Chem & Filler Bldg. Plumbing Questions	\$5,095.00		\$ 5,095			\$1,157,136.30	66.9%	\$5,467.29	8/21/2018		4
76	125	Chem and Filtr Bldg Electrical Questions	\$14,795.00		\$ 14,795			\$1,142,341.30	66.0%	\$14,795.05	9/26/2018		6
77	1060	Aeration Basin Port Opening Height	\$3,095.00				\$ 3,095	\$1,139,246.30	65.8%	\$3,096.71	10/29/2018		6
78	173	Existing Topping Slab Clarifiers 1,2, & 3		\$ (20,000)			\$ (20,000)	\$1,139,246.30	65.8%	(\$56,468.42)	10/17/2018		
79	162	South Elevation Downspout at Filler Building		\$ 1,000	\$ 1,000			\$1,139,246.30	65.8%		8/3/2018		
80	1061	Process/Admin Bldg Misc. Masonry		\$ 10,000	\$ 10,000			\$1,139,246.30	65.8%		8/6/2018		
81	1063	Existing Secondary Clarifiers Remedial Work		\$ 12,000	\$ 12,000			\$1,139,246.30	65.8%		8/6/2018		
82	1064	Security/Site Fence Location		\$ -	\$ -		\$ -	\$1,139,246.30	65.8%		8/6/2018		

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Proposed Change Order (PCO) Log
and Project Funding Budget Status
General Contractor: Daniel O'Connell's Sons, Inc.
Contract No. 2016-05; GHD Job No. 861892ZA
 January 10, 2019

Open
Agreed Change
Not Approved / Closed
No Cost Change
Not Approved / Dispute
Void or Superseded

Contract Value: \$34,604,926.00
 Contingency: \$1,730,246.30
 Construction Budget: \$36,335,172.30

PCO No.	Response to RFI	Work Item Descriptions	Negotiated Value	GHD Rough Estimate	PCO Reasoning			Error	Net Available	Net Available as %	Original Proposal	Date (PCO Received)	Response Date	Change Order No.
					Unforeseen Condition	Omission (paper change)	Owner Initiated							
83	165	Chemical Day Tank Nameplate Info.	\$670.00						\$1,138,576.30	65.8%	\$717.08	8/21/2018		4
84	157	Vent, Plumbing Conflict	\$317.50	\$ 6,000	\$ 318	\$ 6,000			\$1,138,258.80	65.8%	\$317.50	11/21/2018		8
85	1066	CMU Brick Support Admin Windows							\$1,138,258.80	65.8%		8/6/2018		
86	177	Existing panel feeder intersection	\$14,982.00	\$ 1,500	\$ 14,982	\$ 1,500			\$1,123,276.80	64.9%	\$16,098.77	8/28/2018		4
87	145	Garage Vent							\$1,123,276.80	64.9%				
88	179	Prelim bldg downsput	\$6,689.00	\$ 2,000		\$ 6,689			\$1,116,587.80	64.5%	\$6,982.38	11/16/2018		6
89	180	Drainage near primary settling basins		\$ 10,000				\$ 2,000	\$1,116,587.80	64.5%		8/6/2018		
90	194	Exterior walls at ADB116 and ADB117		\$ 10,000					\$1,116,587.80	64.5%		8/6/2018		
91	1082	Chemical room floor fill	\$7,970.00			\$ 7,970			\$1,108,617.80	64.1%	\$7,970.07	9/24/2018		5
92	1072	Water heater and plumbing changes (RFIs 1069, 1072, 1074)		\$ 16,000				\$ 16,000	\$1,108,617.80	64.1%	\$19,936.28	11/15/2018		
93	181	Process bldg drain to DMHS		\$ 8,000		\$ 8,000			\$1,108,617.80	64.1%		8/6/2018		
94	193	Masonry openings for door louvers and windows		\$ 10,000			\$ 10,000		\$1,108,617.80	64.1%		8/6/2018		
95	202	Trap primers in garage	\$3,106.00	\$ 5,000		\$ 3,106			\$1,105,511.80	63.9%	\$3,323.95	8/21/2018		4
96	1076	Encase wall at UT access No. 2							\$1,105,511.80	63.9%		8/6/2018		
97	1075	Septage equipment walkway	(\$3,410.00)					\$ (3,410)	\$1,108,921.80	64.1%	(\$2,104.19)	10/26/2018		8
98	98	Delete toeboards at secondary clarifier	(\$10,777.00)					\$ (10,777)	\$1,119,698.80	64.7%	(\$11,528.84)	8/21/2018		4
99	203	Aeration wall and base slab		\$ 7,500		\$ 7,500			\$1,119,698.80	64.7%		8/6/2018		
100	61	OWS-4 Piping	\$4,525.00			\$ 4,525			\$1,115,173.80	64.5%	\$4,527.91	11/13/2018		8
101	1078	Blower bldg floor slab	\$2,965.00			\$ 2,965			\$1,112,208.80	64.3%	\$2,966.05	11/13/2018		7
102	1079	Grit chamber baffle demo		\$ 500		\$ 500			\$1,112,208.80	64.3%		8/6/2018		
103	164	Hangers and supports in chem and filtration bldg							\$1,112,208.80	64.3%	\$26,123.07	7/31/2018		
104		HVAC controls (per 15985-001)	\$2,003.00					\$ 2,003	\$1,110,205.80	64.2%	\$2,143.37	8/21/2018		4
105	1077	Admin bldg vestibule		\$ 1,000				\$ 1,000	\$1,110,205.80	64.2%		8/6/2018		
106	205	Window sill existing conditions		\$ 3,000		\$ 3,000			\$1,110,205.80	64.2%		8/6/2018		
107	182	Type SL mounting details	\$3,949.00			\$ 3,949			\$1,106,256.80	63.9%	\$3,949.31	9/18/2018		5
108	1083	Prelim Treatment Influent Channel Fill		\$ 3,000					\$1,106,256.80	63.9%		8/17/2018		
109	206R2	Wair elevations	\$4,730.00			\$ 4,730			\$1,101,526.80	63.7%	\$4,732.23	8/28/2018		5
110	1085	Sludge PS Access Hatch		\$ 2,500		\$ 2,500			\$1,101,526.80	63.7%		8/17/2018		
111	1086	Restroom north wall windows	\$674.00					\$ 674	\$1,100,852.80	63.6%	\$647.77	10/29/2018		7
112	1088	Plant Water Chem Room 2		\$ 1,000		\$ 1,000			\$1,100,852.80	63.6%		8/17/2018		
113	NA	Aeration Basin Buttress Wall		\$ 7,000		\$ 7,000			\$1,100,852.80	63.6%		11/13/2018		
114	1065R	Chem bldg plumbing		\$ 2,000		\$ 2,000			\$1,100,852.80	63.6%		8/22/2018		
115	208	Sludge Pumping Station Suction Piping		\$ 5,000		\$ 5,000			\$1,100,852.80	63.6%		11/13/2018		

CHANGE ORDER FORM (Continued)

Public Entity Town of Uxbridge, MA

SRF No: 4048 Contract No. 2016-05 Change Order No. 8

Contract Title: WWTF BNR & Infrastructure Upgrade

Owner's Name: Town of Uxbridge

Owner's Address: 21 South Main Street, Uxbridge, MA 01569

Contractor's Name: Daniel O'Connell's Sons Inc.

Contractor's Address: 1000 Franklin Village Drive, Suite 205, Franklin, MA 02038

Description of Change Summary:

1. PCO-1 – Transformer Pad Access Road

DESCRIPTION: Regrade the existing hillside, construct a gravel utility access road, and provide a segmental retaining wall to serve the transformer being provided by National Grid. The road and retaining wall shall be per the layout, coordinates, and details provided in RFI 1001A and 1001B. Also, provide ten (10) additional bollards to be located per National Grid and the Owner.

REASON: National Grid requires an access road to be constructed within 10' of their transformer for access and maintenance. This requires grading into the existing hillside, and providing a new retaining wall. The bollards were also required by National Grid.

Cost.....For a lump sum amount of \$45,000.00

2. PCO-35 – Chemical Room Floor

DESCRIPTION: Delete the requirement for the floor finishing for the Chemical Room in the Process Building (outside of the containment area). Treat / finish the existing floor as follows:

- Remove loose and / or disbanded existing epoxy flooring to sound concrete surface.
- Prepare the existing concrete slab to a SSPC-SP13 finish.
- Patch areas flush to existing flooring using Sherwin-Williams SteelSeam FT910 patching epoxy.
- Uniformly abrade the existing floor.

- Patch / bevel existing cove base at existing perimeter walls using Sherwin-Williams SteelSeam FT910 patching epoxy.
- Apply one prime coat of Sherwin-Williams ArmorSeal 8100 at 2-4 mils DFT.
- Apply two finish coats of Sherwin-Williams ArmorSeal 8100 with SharksGrip Aniti-Slip additive at 2-4 mils DFT per coat.

REASON: During the demolition of the existing storage tanks and equipment pads, the existing floor coating was lifted off of the concrete floor. Demolition of the concrete pads left the existing concrete floor rough in areas. Leaving this floor as is would be a safety and trip hazard for the operating personnel.

Cost.....For a lump sum amount of \$16,095.00

3. PCO-84 – Mechanical Room HVAC Conflict

DESCRIPTION: Relocate approximately four feet of existing vent piping to accommodate the addition of new HVAC ductwork. This conflict is located in Mechanical Room No. 1 (existing Boiler Room).

REASON: The HVAC ductwork in the Mechanical Room needs to be placed per plan, as there is little room for ductwork modifications in this room. Moving the existing roof drain is the best solution for resolving this utility conflict.

Cost.....For a lump sum amount of \$317.50

4. PCO-97 – Septage Equipment Walkway

DESCRIPTION: Delete walkway platform, aluminum grating covering equipment pit, section of removable aluminum guardrail, and platform access ladder from the equipment pit located in the Septage Building. Provide access stairs at the northwest corner of the equipment pit per Aluminum Stair Detail on Drawing A901 on the west end of the equipment pit.

REASON: The Septage Building was designed to accommodate the largest of the three named equipment manufacturers. The Huber Septage equipment does not require an equipment pit as deep as indicated in the Contract Documents. Therefore, the aluminum grating walkway north of the Septage equipment is not necessary. Deleting this walkway provides clearer access to the equipment and provides a credit for the project.

Cost.....For a lump sum credit amount of (\$3,410.00)

5. PCO-100 – Oil Water Separator Discharge Pipe

DESCRIPTION: Reroute the discharge pipe from OWS-4 to drain to the existing sewer manhole located north of the Preliminary Treatment Building instead of to the existing manhole located south of the Process Building.

REASON: The elevations of the existing manhole inverts located south of the Process Building are too high for this structure to serve the discharge drain line from OWS-4. Routing this pipe to the existing sewer manhole located north of the Preliminary Treatment Building provides the required pipe slope and results in additional length of underground piping.

Cost..... For a lump sum amount of \$4,525.00

6. PCO-133 – Accordion Partition Supports

DESCRIPTION: Provide vertical support ties at 16” OC from the metal stud support for the accordion partition guide (located in the Conference Room / Break Room) to the ceiling.

REASON: The ties will provide additional support for the partition guide and help to stabilize the partition wall.

Cost..... For a lump sum amount of \$470.00

7. PCO-136 – Exterior Sills

DESCRIPTION: For the new windows in rooms ADB-116 and ADB-117 (Conference Room and Break Room), provide a brick rowlock as a window sill for each of the five windows.

REASON: The five windows are Type W07, which are windows to be placed in the existing brick buildings as replacements for existing windows. As such, the sill was to be existing. However these windows are not replacement windows, therefore new sills needed to be provided.

Cost..... For a lump sum amount of \$1,655.00

8. PCO-147 – Delete Entrance Mats

DESCRIPTION: Delete two recessed 60” x 36” entrance mats, which were to be located at each of the two exterior entrances to the Administration Area.

REASON: The Owner has elected to delete these two recessed entrance mats, thereby providing a credit for the project.

Cost..... For a lump sum credit amount of (\$1,105.00)

For a total lump sum amount for this change order of \$63,547.50

List of Attachments:

- 1. Change Order Summary
- 2. PCO-1 / Article 11 Analysis / RFI 1001B
- 3. PCO-35 / Article 11 Analysis / RFI 1026
- 4. PCO-84 / Article 11 Analysis / RFI 157
- 5. PCO 97 / Article 11 Analysis / RFI 1075R
- 6. PCO 100 / Article 11 Analysis / RFI 61
- 7. PCO 133 / Article 11 Analysis / RFI 231
- 8. PCO 136 / Article 11 Analysis / RFI 184
- 9. PCO 147 / Article 11 Analysis / RFI 1116

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Change Orders - Summary
 General Contractor: Daniel O'Connell's Sons, Inc.
 Contract No. 2016-05; GHD Job No. 8618922A

Contract Value: \$ 34,604,926

Change Order No	PCO	RFI	Change Order Description	Change Order Value	GHD Rough Estimate	Unforeseen Condition	Omission (paper change)	Owner Initiated	Value Added	Change Order Total Value	Cumulative Value of Approved Change Orders	Contract Value w/ Approved Change Orders	Formal Change Order Approval Date	Cumulative Change Order Value % of Original Contract Value	Cumulative Change Order Value % of 5 Percent Contingency	
1	9	1008	AIS compliant pinch valve	\$ 4,889.00	\$ -	\$ -	\$ 4,889.00	\$ -	\$ -	\$ 60,283.00	\$ 60,283.00	\$ 34,665,209.00	3/1/2018	0.17%	3.48%	
	13	1009	Replace valves at clarifier 4	\$ 20,394.00	\$ -	\$ -	\$ -	\$ 20,394.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	28	1009	GPR existing concrete	\$ 35,000.00	\$ -	\$ 35,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	4		Preliminary treatment cleanout	\$ 743.00	\$ -	\$ 743.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	5		Septage pipe roof penetration	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	8	1006	Core FDs in PT bldg	\$ 1,966.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	11	9	Pipe vents in septage bldg	\$ 7,440.00	\$ -	\$ -	\$ 1,966.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	14	46	Changes to EMH13 and electrical room	\$ 65,500.00	\$ -	\$ -	\$ 7,440.00	\$ -	\$ -	\$ 65,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	
	15B	35	Trench drains in garage (vents)	\$ 6,636.00	\$ -	\$ -	\$ -	\$ 6,636.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	21	43	Core and Link Seal	\$ 504.00	\$ -	\$ -	\$ -	\$ 504.00	\$ -	\$ -	\$ 126,050.00	\$ 186,333.00	\$ 34,791,259.00	6/20/2018	0.54%	10.77%
2	22	1014	Demolish suspended ceiling	\$ 584.00	\$ -	\$ 584.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	24	1019	Cleanouts in chemical room	\$ 3,050.00	\$ -	\$ 3,050.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	29	1017	Relocate MW-105	\$ 9,444.00	\$ -	\$ 9,444.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	37	1029	Storage Room ADB-128 window	\$ 763.00	\$ -	\$ -	\$ -	\$ -	\$ 763.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	38	1030	Sludge pumping station roof	\$ 25,270.00	\$ -	\$ 25,270.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	52	1040	Glycol Storage	\$ 1,150.00	\$ -	\$ -	\$ 1,150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	2	1002	Relocate gas line	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	6	FO11	Drill and grout dowels at PT bldg	\$ 359.00	\$ -	\$ -	\$ -	\$ -	\$ 359.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	7	1007	Potable water well pump power and control	\$ 12,404.00	\$ -	\$ 12,404.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	26	0	Buried fire alarm conduit in chemical room	\$ 4,240.00	\$ -	\$ 4,240.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3	40	1032	Admin/process building windows	\$ 19,250.00	\$ -	\$ -	\$ -	\$ 19,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	42	105	ADB pull stations	\$ 1,770.00	\$ -	\$ -	\$ -	\$ 1,770.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	43	83	Details for lifting eyes	\$ (9,515.00)	\$ -	\$ -	\$ -	\$ -	\$ (9,515.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	48	1036	Gravity thickener guard rails	\$ (12,785.00)	\$ -	\$ -	\$ -	\$ -	\$ (12,785.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	50	1039	Process Admin Bldg duct modifications	\$ (878.00)	\$ -	\$ -	\$ -	\$ -	\$ (878.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	53	1038	Process Bldg, HVAC (west)	\$ 24,470.00	\$ -	\$ -	\$ -	\$ 24,470.00	\$ -	\$ -	\$ 90,655.00	\$ 276,988.00	\$ 34,881,914.00	8/16/2018	0.80%	16.01%
	57	1047	Process Bldg, Roof Openings	\$ 25,130.00	\$ -	\$ -	\$ -	\$ 25,130.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	61	113	Utility Coordination	\$ 13,980.00	\$ -	\$ 13,980.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	63	WCD1	Boiler Abatement	\$ 10,000.00	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	44	785A	Water supply size	\$ 17,785.00	\$ -	\$ 17,785.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4	59	117	Chemical Building Gr.	\$ 10,120.00	\$ -	\$ -	\$ 7,012.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	60	20	Vents for OWS	\$ 6,560.00	\$ -	\$ -	\$ 6,560.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	84	1052	Vacuum Pump	\$ 848.00	\$ -	\$ -	\$ 848.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	85	1054	Restroom Floor Drains	\$ 6,609.00	\$ -	\$ 6,609.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	65	146/147	Roof Drains	\$ 4,960.00	\$ -	\$ 4,960.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	70	128	Bubbles in Admin bldg	\$ (4,247.00)	\$ -	\$ -	\$ -	\$ -	\$ (4,247.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	75	144 & 154	Chem & Filter Bldg, Plumbing Questions	\$ 5,095.00	\$ -	\$ 5,095.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	83	165	Chemical Day Tank Nameplate Info.	\$ 670.00	\$ -	\$ -	\$ -	\$ 670.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	86	177	Existing panel feeder intersection	\$ 14,982.00	\$ -	\$ 14,982.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	95	202	Trap primers in garage	\$ 3,106.00	\$ -	\$ -	\$ 3,106.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
98	99	Delete ledboards at secondary clarifier	\$ (10,777.00)	\$ -	\$ -	\$ -	\$ -	\$ (10,777.00)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
104	0	HVAC controls (per 15985-001)	\$ 2,003.00	\$ -	\$ -	\$ -	\$ -	\$ 2,003.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade

Change Orders - Summary
 General Contractor: Daniel O'Connell's Sons, Inc.
 Contract No. 2016-05; GHD Job No. 8618922A

Contract Value: \$ 34,604,926

Change Order No	PCO	RFI	Change Order Description	Change Order Value	GHD Rough Estimate	Unpressen Condition	Omission (paper change)	Owner Initiated	Value Added	Change Order Total Value	Cumulative Value of Approved Change Orders	Contract Value w/ Approved Change Orders	Formal Change Order Approval Date	Cumulative Change Order Value % of 5 Percent Contingency	Cumulative Change Order Value % of Original Contract Value
10	FC12A		Relocate block retaining wall	\$ 45,285.00	\$ -	\$ 45,285.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
30	1025		Administration building changes	\$ 13,630.00	\$ -	\$ -	\$ -	\$ -	\$ 13,630.00	\$ -	\$ -	\$ -			
36	1027		Filter big gate and valves	\$ 41,088.00	\$ -	\$ -	\$ -	\$ -	\$ 41,088.00	\$ -	\$ -	\$ -			
47	1037		Plant water system gate valves	\$ 28,670.00	\$ -	\$ -	\$ -	\$ 28,670.00	\$ -	\$ -	\$ -	\$ -			
54	83		Root Openings - Admin. Bldg.	\$ 30,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,022.00	\$ 521,483.00	\$ 35,126,379.00	10/22/2018	30.14%	1.51%
57	1082		Chemical room floor fill	\$ 7,970.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
107	102		Type St. mounting details	\$ 3,948.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
109	20842		Wear elevators	\$ 4,730.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
117	1092		Aeration basin quadrall swing gates	\$ 12,230.00	\$ -	\$ -	\$ -	\$ -	\$ 12,230.00	\$ -	\$ -	\$ -			
119	1015		Gravity Thickener 2 concrete fill	\$ 3,510.00	\$ -	\$ -	\$ -	\$ -	\$ 3,510.00	\$ -	\$ -	\$ -			
34	1062		Remove and replace existing 8-inch scum line @ Sec Clar 4 (PCO 38 and 1062)	\$ 14,380.00	\$ -	\$ 14,380.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
53A	1038		Process Bldg. Elec	\$ 3,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
56	1049		Slide Gates	\$ 1,560.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
58	1058		Toilet Carrier	\$ 3,250.00	\$ -	\$ 3,250.00	\$ -	\$ -	\$ -	\$ 57,504.00	\$ 578,957.00	\$ 35,183,893.00	12/20/2018	33%	1.67%
69	1058		Lab Plumbing Changes	\$ 1,725.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
73	89		Reloc. Plant Water in Process Building	\$ 5,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
76	125		Chem and Fil Bldg Electrical Questions	\$ 14,795.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
77	1090		Aeration Basin Port Opening Height	\$ 3,035.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
88	179		Prelim big downspout	\$ 6,689.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
101	1078		Blower big floor slab	\$ 2,965.00	\$ -	\$ 2,965.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
111	1086		Restroom north wall windows	\$ 674.00	\$ -	\$ -	\$ -	\$ -	\$ 674.00	\$ -	\$ -	\$ -			
118	1093		Building Replacements	\$ 5,520.00	\$ -	\$ -	\$ -	\$ -	\$ 5,520.00	\$ -	\$ -	\$ -			
120	1094		Exterior Process Building Overhead Doors	\$ 40,450.00	\$ -	\$ -	\$ -	\$ -	\$ 40,450.00	\$ 76,778.00	\$ 665,736.00	\$ 35,280,662.00	12/20/2018	38%	1.89%
122	226		Type PL fixture conductor size	\$ 9,725.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
123	1098		Metal Lockers	\$ 11,365.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
128	1100		Electrical room door ADB125A	\$ 6,050.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
1	1001B		Electrical room door ADB125A	\$ 45,000.00	\$ -	\$ 45,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
35	1026		Transformers access road	\$ 18,095.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
84	1026		Critical Room Floor	\$ 317.50	\$ -	\$ 317.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
87	1075		Genl. Plumbing Corridor	\$ 3,410.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
100	61		Spillage equipment walkway	\$ 4,525.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
133	231		OWS-4 Piping	\$ 4,700.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
136	194		Accordian partition supports	\$ 1,655.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
147	1116		Exterior air detail	\$ 1,105.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
			Deletion of Entrance mats	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,105.00)	\$ 63,547.50	\$ 719,263.50	\$ 35,324,209.50		42%	2.08%

**Uxbridge Wastewater Treatment Facility BNR and Infrastructure Upgrade
Change Management**

General Contractor: Daniel O'Connell's Sons, Inc.

Contract No. 2016-05; GHD Job No. 8618922A

Periodic Update: December 2018 / January 2019

Construction Budget	\$	36,335,172
Initial Construction Contract	\$	34,604,926
Approved Change Orders*	\$	719,284
Unallocated Budget	\$	1,010,963

Construction Progress

Days Since June 26, 2017 Notice to Proceed	553	Construction Contract Value, Including Change Orders	\$ 35,324,209.50
Contract Duration	970	Amount Earned to Date	\$ 19,382,261.44
Days Remaining	417	Percent of Value Completed	55%
Percent of Time Expended	57%		

Potential Change Orders (PCOs) vs Construction Budget

Requests for Information from DOC	242	No. of PCOs	150
Requests for Information from GHD	116	No. PCOs in Negotiation	77
Approved Change Orders	5	Potential Change Amount	\$ 145,000
Percent of Initial Construction Contract	2.08%	Percent of Initial Contract	0.42%

Contingency Management

Contingency - Percent of Initial Contract	5%	Contingency Amount	\$ 1,730,246
Percent of Contingency in Change Orders	41.6%	Change Orders to Date	\$ 719,284
Percent of Contingency in Potential Changes	8%	Potential Changes	\$ 145,000
Percent of Contingency Identified	50%	Total Changes Identified	\$ 864,000
Percent of Contingency Remaining	50%	Remaining Contingency	\$ 866,246



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS
 147 HECLA STREET
 UXBRIDGE, MASSACHUSETTS 01569-1326
 508-278-8616 ♦ Fax 508-278-3179

Benn Sherman, P.E.
 Director

WWTF & WEST RIVER PUMP STATION BUDGET & REIMBURSEMENT SUMMARY

PURPOSE: WWTF & WRPS Construction
SOURCE: SRF 0%, SRF 2%, Local Borrowing
TM DATE: 4/2/2016 (Article 1)
TM APPROPRIATION: \$44,800,000.00

SRF Portion Eligible for 0% Interest Rate \$ 29,200,000.00
 SRF Portion Eligible for 2% Interest Rate \$ 13,600,000.00
Total SRF Approval \$ 42,800,000.00

TOTAL AUTHORIZATION: \$44,800,000.00

ACCOUNT NUMBER	CONTRACTS	APPROVED	ORIGINAL BUDGET	CONTRACT/ PO AMOUNT	APPROVED CHANGE ORDERS	ADJUSTED CONTRACT	EXPENSE TO DATE	BALANCE REMAINING	% CMPLT	STATUS
41-440-2050-4106PW15-0000-0-0	WRPS RETAINAGE ¹	06/26/17					\$ 25,507.85			
41-440-2050-4106PW16-0000-0-0	WWTF RETAINAGE ¹	06/26/17					\$ 1,080,753.50			
41-440-5303-4106PW16-0000-0-0	LEGAL ¹	07/01/17	\$ 45,638.00	\$ 45,638.00	- \$	\$ 45,638.00	\$ 833.33	\$ 44,804.67	1.8%	Active
41-440-5880-4106PW16-0000-0-0	WWTF FINAL DESIGN²	07/01/16	\$ 1,500,000.00	\$ 1,500,000.00	\$ -	\$ 1,500,000.00	\$ 1,500,000.00	\$ -	100.0%	Closed
41-440-5892-4106PW16-0000-0-0	OWNER'S PROJECT MANAGER ²	02/07/17	\$ 500,000.00	\$ 500,000.00	- \$	\$ 500,000.00	\$ 224,478.33	\$ 275,521.67	44.9%	Active
41-440-5893-4106PW16-0000-0-0	WWTF CPS (GHD) ^{1,3}	11/09/16	\$ 4,400,000.00	\$ 4,150,000.00	- \$	\$ 4,150,000.00	\$ 1,963,579.23	\$ 2,186,420.77	47.3%	Active
41-440-5893-4106PW16-9100-0-0	WRPS CPS (GHD) ¹	11/09/16	\$ 140,000.00	\$ 140,000.00	- \$	\$ 140,000.00	\$ 91,177.50	\$ 48,822.50	65.1%	Active
41-440-5894-4106PW16-0000-0-0	WWTF CONSTRUCTION (DOC) ¹	06/26/17	\$ 34,604,926.00	\$ 34,604,926.00	\$ 655,736.00	\$ 35,260,662.00	\$ 20,534,316.57	\$ 14,726,345.43	59.3%	Active
41-440-5894-4106PW16-9100-0-0	WRPS CONSTRUCTION (WMS) ¹	06/26/17	\$ 1,559,436.00	\$ 1,559,436.00	\$ 111,322.00	\$ 1,670,758.00	\$ 484,649.15	\$ 1,186,108.85	31.1%	Active
41-440-5897-4106PW16-0000-0-0	CONTINGENCY ^{1,3}	07/01/17	\$ 2,050,000.00	\$ 2,300,000.00	- \$	\$ 2,300,000.00	\$ 889,381.92	\$ 1,410,618.08	38.7%	Active
TOTAL COMMITTED			\$ 44,800,000.00	\$ 44,800,000.00	\$ 767,058.00	\$ 45,567,058.00	\$ 26,794,677.38	\$ 18,772,380.62	58.8%	

¹ Included in the SRF funding request and authorization
² Included in the independent borrowing for final design and OPM services
³ GHD additional services for WWTF were put into the contingency line

REIMBURSEMENT SUMMARY		ELIGIBLE COSTS ⁴		CONTRACTED AMOUNT		2% Loan 16-26		0% Loan 16-26A		0% Fed. Grant (26B)		TOTAL REIMBURSED	
ACCOUNT NUMBER	REIMBURSIBLE ITEMS												
41-440-4680-4106PW16	WRPS CONSTRUCTION (WMS)	\$ 1,637,408.00	\$ 1,670,758.00	\$ 484,649.15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 484,649.15	\$ 484,649.00
41-440-4680-4106PW16	WWTF CONSTRUCTION (DOC)	\$ 36,335,172.00	\$ 35,260,662.00	\$ 4,565,603.98	\$ 11,740,124.74	\$ -	\$ -	\$ 16,305,728.72	\$ -	\$ -	\$ -	\$ 16,305,728.72	\$ 15,214,123.00
41-440-4680-4106PW16	WWTF CPS (GHD)	\$ 4,400,000.00	\$ 4,150,000.00	\$ -	\$ -	\$ 1,774,116.74	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,774,116.74	\$ 1,774,116.00
41-440-4680-4106PW16	WRPS CPS (GHD)	\$ 140,000.00	\$ 140,000.00	\$ 88,495.86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 88,495.86	\$ 79,716.00
41-440-4680-4106PW16	UTILITY WORK	\$ 287,420.00	\$ 287,420.00	\$ 122,324.92	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 122,324.92	\$ 122,325.00
⁴ - MassDEP's revised Project Approval Certificate dated 6/1/2017		TOTAL	\$ 42,800,000.00	\$ 41,508,840.00	\$ 11,740,124.74	\$ 5,261,073.91	\$ 1,774,116.74	\$ 18,775,315.39	\$ 17,674,929.00	\$ -	\$ -	\$ 18,775,315.39	\$ 17,674,929.00



TOWN OF UXBRIDGE
WWTF BUILDING COMMITTEE
 UXBRIDGE, MASSACHUSETTS 01569

MEETING SIGN IN SHEET
WEDNESDAY, JANUARY 16, 2019, 5:00 pm
BOS MEETING ROOM, 21 SOUTH MAIN STREET, UXBRIDGE, MA

INITIAL	NAME	AFFILIATION	ADDRESS	PHONE	EMAIL
<i>DB</i>	Dale Bangma	WWTF Building Committee			
<i>JM</i>	Joe Marchand	WWTF Building Committee			
<i>EO</i>	Eugene O'Rourke	WWTF Building Committee			
<i>DH</i>	Dan Hicks	WWTF Building Committee			
<i>WK</i>	William Kessler	WWTF Building Committee			
<i>BS</i>	Benn Sherman	Uxbridge DPW			bsherman@uxbridge-ma.gov
<i>PH</i>	Paul Hutnak	Uxbridge DPW			phutnak@uxbridge-ma.gov
<i>JL</i>	Jim Legg	Uxbridge DPW-Wastewater			jlegg@uxbridge-ma.gov
<i>AE</i>	Angie Ellison	Town Manager			aellison@uxbridge-ma.gov
<i>ST</i>	Sandy Tripp	GHD (Designer)			sandy.tripp@ghd.com
<i>MD</i>	Marc Drainville	GHD (Designer)			marc.drainville@ghd.com
<i>LT</i>	Laurie Toscano	Weston & Sampson (OPM)			toscanol@wseinc.com
<i>FW</i>	Frank Woodfall	Keville Enterprises			fwoodfall@keville.com
<i>PM</i>	Paul Macnevin	Weston & Sampson (OPM)			macnevip@wseinc.com