

AMENDMENT NO. 3 TO PROGRESSIVE DESIGN-BUILD AGREEMENT
between
BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL
and
CH2M HILL ENGINEERS INC.

THIS AMENDMENT NO. 3 TO PROGRESSIVE DESIGN BUILD AGREEMENT (“Amendment”) is entered into by and between the BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL (“Board”), a Minnesota Municipal Corporation, d/b/a Saint Paul Regional Water Services (“SPRWS”), and CH2M HILL ENGINEERS INC (“CH2M HILL”), a corporation under the laws of the State of Delaware.

WHEREAS, Board and CH2M HILL are parties to that certain Progressive Design-Build Agreement dated January 1, 2021, (“Agreement”); and

WHEREAS, Board and CH2M HILL are parties to that certain Amendment No. 1 to Progressive Design-Build Agreement effective January 11, 2022; and

WHEREAS, Board and CH2M Hill are parties to that certain Amendment No. 2 to Progressive Design-Build Agreement effective February 8, 2022; and

WHEREAS, Board and CH2M HILL desire to further amend certain terms of the Agreement;

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties mutually agree to amend the Agreement in the manner described below.

1. Section 7.2b of the Agreement is hereby amended as shown below. New language is indicated by underline and deleted language is indicated by strikethrough.

7.2b Early Work Packages

7.2b.1 The Owner and the Design-Builder have mutually agreed that certain portions of the scope of work should be completed prior to the establishment of a Guaranteed Price for the full scope of Phase 2 work. The work included in each of these early work packages has been described in the following Exhibits, each of which is a binding contractual document.

7.2b.1.1 First Early Work Package. The first early work package is described in “Exhibit L1: First Early Work Package”. By signing this contract amendment, the Owner and the Design-Builder hereby agree to the terms described therein. All work included in the First Early Work Package is also subject to the terms and conditions of the project described in the Agreement and in the General Conditions of Contract.

7.2b.1.2 Second Early Work Package. The second Early Work Package is described in “Exhibit L2: Second Early Work Package.” By signing this contract amendment, the Owner and the Design-Builder hereby agree to the terms described therein. All work included in the Second Early Work Package is also subject to the terms and conditions ~~of the~~ of the project described in the Agreement and in the General Conditions of Contract.

7.2b.1.3 Third Early Work Package. The Third Early Work Package is described in “Exhibit L4: Third Early Work Package.” By signing this contract amendment, the Owner and the Design-Builder hereby agree to the terms described therein. All work included in the Third Early Work Package is also subject to the terms and condition of the project described in the Agreement and in the General Conditions of Contract.

2. Section 7.1.1 of the Agreement is hereby amended as shown below. New language is indicated by underline and deleted language is indicated by strikethrough.

7.1.1 Maximum Price. Owner shall pay Design-Builder in accordance with Article 6 of the General Conditions of Contract an amount not to exceed ~~Thirteen Million Six Hundred Sixty Six Thousand Four Hundred Twenty Seven Dollars (\$13,666,427.00)~~ Fourteen Million Three Hundred Thirty-Six Thousand Three Hundred Two Dollars (\$14,336,302.00) for the Phase 1 Services, subject to adjustments made in accordance with the General Conditions of Contract. Unless otherwise provided in the Contract Documents, the Phase 1 Services compensation is deemed to include all sales, use, consumer and other taxes mandated by applicable Legal Requirements.

7.1.1.1 The original value of the Phase 1 Services was Thirteen Million Six Hundred Sixty-Six Thousand Four Hundred Twenty-Seven Dollars (\$13,666,427.00). An additional Six Hundred Sixty-Nine Thousand Eight Hundred Seventy-Five Dollars (\$669,875.00) has been added by virtue of a Change Order, as described in Exhibit L3.

3. Section 12.2 of the Agreement is hereby amended as shown below. New language is indicated by underline.

12.2 Listing of Exhibits and documents incorporated herein:

Exhibit A – Owner’s Project Criteria

Contract Note: Draft Owner’s Project Criteria has been provided with the RFP document. Revisions will be made during Phase 1, and the Owner’s Project Criteria will be updated.

Exhibit B – Scope of Services

Contract Note: A Preliminary Scope of Phase 1 Services has been provided with the RFP document. Revisions, if required, will be made prior to signing the Contract and will be updated as needed and at the Contract Price Amendment.

Exhibit C – Owner’s Permit List

Contract Note: A Preliminary Owner’s Permit List has been provided with the RFP document. Revisions, if required, will be made prior to signing the Contract and will be

updated as needed and at the Contract Price Amendment.

Exhibit D – Project Funding Requirements

Contract Note: Project Funding Requirements have been provided in the form of the MN PFA Contract Packet, which is attached to the RFP document.

Exhibit E – Site Security Requirements

Contract Note: Site Security Requirements will be developed and added at a later date.

Exhibit F – Performance Incentive Arrangements

Exhibit G – Performance Standards

Exhibit L1 – First Early Work Package

Exhibit L2 – Second Early Work Package

Exhibit L3 – Design Change Order (Lime and Chemical Building)

Exhibit L4 – Third Early Work Package

4. The attached Exhibit L3 is hereby added in its entirety.
5. The attached Exhibit L4 is hereby added in its entirety.
6. The provisions of this amendment shall take effect March 8, 2022.
7. Except as modified herein, the terms of the Agreement as amended shall remain in full force and effect.

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IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be executed on the dates listed below.

Approved as to form:

**BOARD OF WATER COMMISSIONERS
OF THE CITY OF SAINT PAUL**

By: _____
Patrick Shea, General Manager
Saint Paul Regional Water Services

By: _____
Mara Humphrey, President

Date: _____

Date: _____

By: _____
Lisa Veith, Assistant City Attorney

By: _____
Mollie Gagnelius, Secretary

Date: _____

Date: _____

By: _____
John McCarthy
Director, Office of Financial Services

Date: _____

CH2M HILL ENGINEERS, INC.

By: _____
Printed Name
Title

Date: _____

Exhibit L3: Design Change Order (Lime and Chemical Building)

McCarron's Water Treatment Plant Improvements

Scope of Work

Over the course of the design stage of the project, SPRWS and the Design-Builder have come to the conclusion that the construction of a new lime and chemical handling facility is the most efficient use of project resources. The new facility is shown in orange in the rendering below.



This facility was not part of the original design scheme for the project, and, as such, the design costs associated with this facility were not included in the original design-phase pricing provided by the design builder.

The scope of work for this change order is limited to the design of components within the orange area indicated above and includes:

- The design of the structures therein
- The design of building foundations
- The design of a lime batch slaking system which will be installed within the structures
- The design of various chemical storage systems as well as the infrastructure required to transmit these chemicals to the proper dosing location
- The design of all electrical, piping, HVAC, controls, and other such systems necessary to support the function of this facility

Contract Price

The work shall be performed for a not-to-exceed cost of \$669,875, and shall be incorporated into the existing schedule of values for the Phase 1 services.

A more detailed overview of the expected pricing for various components of the work is included below:

Item	Additional Cost
New Lime Facility Design	\$400,000
New Alum Facility Design	\$100,000
New Sodium Silicate Facility Design	\$75,000
Preconstruction Expenses (Lime Facility)	\$66,000
Preconstruction Expenses (Alum Facility)	\$16,500
Preconstruction Expenses (Sodium Silicate Facility)	\$12,375
Total Change Order Value	\$669,875.00

All work will be billed on the basis of actual time and expenses. This is not a lump sum contract. Any unspent funds will remain the sole property of the owner.

Timeline of Work

The design work for these facilities shall be completed in conjunction with the design for the other facility components such that there are not delays to the full facility design.

Document Precedence

SPRWS and the Design Builder have already developed a considerable portion of the design for these facilities. The equipment specifications, design drawings, and tech memos that have been collaboratively developed thus far shall serve as the basis for the continued design effort.

Exhibit L4: Third Early Work Package

McCarron's Water Treatment Plant Improvements

Scope of Work

The scope of work for this work package consists of:

- Vibration monitoring during peak periods of demolition and construction activity.
- All exterior demolition work (including demolition of the Secondary Settling Basins, Clarifiers 1-5, the Floc 3/Recarb basin, miscellaneous paving, etc.) for the project.
- All excavation work, soils storage/disposal, soil importation, filling of soils, and final grading of the site.
- Establishment of construction laydown areas, craft labor parking areas, construction roadway, and other such facilities as needed for management of the construction site.
- Stormwater protection for the construction site.
- Extensive shoring work to protect existing, critical facilities.
- Dewatering of the construction site to ensure a work environment sufficiently dry for construction activities.
- Installation of a permanent underdrain system within the excavated area.
- Final paving work on the site.
- All bonds, insurance, and taxes required for the scope of work described herein.
- Installation of certain schedule-critical piping and facilities (specifically piping and vaults located between the clarifier units).
- Establishing field offices for PCL construction, providing staffing for them until Sept. 30, 2022.
- Erecting a tower crane on site to facilitate construction.
- Installing a “concrete skip wall” beneath the Floc 2 structure to ensure that the structure is adequately supported following the removal of the Secondary Settling Basins.
- The Design-Builder’s fee for all work specified herein.

Contract Price

The Owner hereby agrees to pay the Design-Builder a Lump Sum Amount of **\$17,224,060** for the scope of work described above.

Additionally, as described in the Agreement, the Owner will pay the Design-Builder for any work covered by contingency spending. The maximum compensation for contingency spending will not exceed **\$1,967,100**.

Finally, the Owner has set aside **\$1,893,410** for allowance items. These funds are available in addition to the two items described above subject to the terms of the Agreement.

The total price for this third early work package is **\$21,084,570**.

Timeline of Work

The Design-Builder will proceed with the work included in the third early work package after Notice to Proceed with the work is provided by the SPRWS Project Manager. The SPRWS Project Manager will provide the Notice to Proceed upon signing of the contract and issuance of a Purchase Order.

Document Precedence

The Document Precedence agreements formalized in Exhibit L1 apply to this Exhibit L4 in their entirety as well. Please refer to the “Document Precedence” section of Exhibit L1 to view those terms.

Specifications and drawings developed to support this work package have been developed and included in Appendix 100E *Scope Baseline Documents*.

Sales Tax

The Design-Builder shall not function as a Purchasing Agent under this agreement. The Design-Builder will be responsible for collecting receipts showing the amount of Minnesota sales tax paid on all items of Significant Value that are permanently incorporated into the Work. In recognition of the fact that administrative work associated with collecting receipts is substantial, Significant Value is hereby defined as any expense for which the total taxable value exceeds \$10,000. Recurring purchases which cumulatively exceed \$10,000 in value will also be considered a Significant Value.

The Owner will accept receipts of lesser value but understands that the Design-Builder cannot be expected to successfully collect all such smaller receipts.

Receipts should clearly show the value of Minnesota sales tax such that the Owner is able to submit them for reimbursement to the State.

Cost Breakdown

Costs have been itemized in the full GP workbook submittal (Final GP3 Proposal dated February 28, 2022 and submitted by Design-Builder on the same date via email to Will Menkhaus). For more detailed information, please consult that submittal.

The following table summarizes the costs for this work package:

Description	Cost
Design-Builder General Conditions	\$0
Design-Builder Engineering Services During Construction	\$120,524
Design-Builder Procurement Costs	\$191,893
Construction Subcontracts	\$15,351,416
Commissioning and Startup	\$0
Instrumentation and Controls	\$0
Allowances	\$1,893,410
Contingency	\$1,967,100
Design-Builder Fee	\$1,154,595
Bonds, Insurance, and Taxes on Above	\$405,632
Total Cost	\$21,084,570

Terms of Payment

The Design-Builder will develop a complete schedule of values and payment schedule within 30 days of the signing of Amendment No. 3 to the Progressive Design-Build Agreement dated March 8, 2022. The schedule of values and payment schedule is subject to review and approval by SPRWS. In general, unless otherwise specified, costs will be passed on to the Owner in accordance with the approved Schedule of Values.

Upon agreement between the Owner and the Design-Builder, the schedule of values will be used to govern payments for the work covered in this package.

“Off-Ramp” Scenario

In the event that the Owner elects to take the “Off-Ramp” described in Section 2.3.2.4(iii) of the Agreement, the Design-Builder and the Owner hereby agree that:

- The Owner will be responsible for paying the Design-Builder in accordance with the terms provided in Sections 9.1.1, 9.1.2, and 9.1.3 of the Agreement.
- Engineering Services During Construction have been included in this contract to cover work up to September 30, 2022. If the “Off-Ramp” is taken prior to this date, value of Engineering Services During Construction associated with the unperformed work will not be construed as a “proven loss, cost, or expense in connection with the services and Work” as described in Section 9.1.1 of the Agreement.
- The Design-Builder will be responsible for removing all equipment, trailers, and other such items from the site in a timely manner. The cost of such removal fits the definition of “reasonable costs and expenses attributable to such termination” as described in Section 9.1.2 of the Agreement.

Further, the terms set in the “*Off-Ramp Scenario*” section of Exhibit L1 apply also to the purchases of materials associated with the scope of the Third Early Work Package. All rights reserved for the Owner in that section apply to this Exhibit L4 as well.

Escalation

Funds have been set aside for potential escalations to costs for two items: aggregate base and asphalt. The Owner has elected to maintain the risk of escalation for these items because the Owner believes that it will save them money.

Cost increases resulting from changes in designs will not be treated as escalation costs. Cost increases resulting from design changes are most appropriately handled by using contingency funds since the contingency has been built using assumptions about design evolution, design changes, and design risks.

In order to receive funds from the escalation allowance, the Design-Builder must be able to demonstrate a change in the price of materials. The GP3 Proposal (referenced above in the Cost Breakdown section) includes a base unit price for both asphalt and aggregate price. At the time of the paving work or aggregate purchase in question, the Owner and the Design-Builder will verify the market price for these

commodity items. If the market price for the items exceeds the base price, escalation funds will be utilized to account for the difference between the two values.

As a general rule, changes in the unit price of materials would be considered an escalation. Changes in the quantity or nature of the materials would be considered a design change.

Applicability of Contract Documents

The following table lists which Contract Document exhibits apply and do not apply to this second early work package:

Exhibit	Description	Applicability to this GP Proposal
Exhibit A	Preliminary Owner's Project Criteria	As described in the "Document Precedence" section of this Exhibit L4
Exhibit B	Preliminary Scope of Phase 1 Services	No relevant content
Exhibit C	Permitting and Regulatory Approvals Responsibilities	Yes. Jacobs responsible for ensuring that work included in this work package meets conditions of permits
Exhibit D	MN PFA Contract Packet (Project Funding Requirements)	Yes
Exhibit E	Labor Standards	Yes
Exhibit F	Key Firms and Key Personnel	Yes
Exhibit G	Exhibit G – Phase 1 Milestone Schedule	No relevant content
Exhibit H	Insurance Requirements	Yes
Exhibit I	Billing Rates, Phase 1 Costs, and Phase 2 Markups	Yes
Exhibit J	Cost Model	The Jacobs' Cost Model has been developed in accordance with Exhibit J and approved by SPRWS.
Exhibit K	Parent Guaranty Agreement	Yes
Exhibit L	Scope Basis	No relevant content
Exhibit L1	First Early Work Package	Only as referenced above
Exhibit L2	Second Early Work Package	No
Exhibit L3	Design Change Order (Lime and Chemical Building)	No
Exhibit L4	Third Early Work Package	Yes
Exhibit M	Site Security Requirements	This exhibit is not yet completed. Upon completion, the exhibit will apply.
Exhibit N	Performance Incentive Arrangements	No
Exhibit O	Index of Reference Documents	No relevant content

Additional Assumptions and Clarifications of the Proposal

The following table includes additional assumptions and clarifications noted in the GP proposal:

DESIGN-BUILDER, GENERAL AND PROJECT-WIDE (00)	
1	As-Built data and field investigations do not indicate any existing piles under the SCCs or Clarifier 1 (locations for installation of new plant facilities) so we have not included any costs for removing existing piles in these locations where they could interfere with new infrastructure.
2	We have discussed establishing an interim work package if GP3 work moves faster than anticipated or GP4 falls behind and costs for GP4 will be incurred (General Conditions, Services During Construction, concrete work, etc.).
3	It has not been possible to drill geotechnical borings under the existing SSBs. It is possible that there are conditions that could impact the design and result in a Differing Site Condition.
4	All subsurface conditions are assumed per the Phase 1 geotechnical investigations. Deviations from the information constitutes a Differing Site Condition per the Prime Agreement.
5	This GP assumes that existing gates and valves work unless investigated otherwise. We have not included bypass pumping costs for maintaining plant flow.
6	We have discussed and planned for a maximum flow rate through the Figure 8 of (80) MGD.
7	<p>We are constructing the new plant in proximity to the existing, aged facilities. We have approached this risk in this way:</p> <ol style="list-style-type: none"> 1. We have included an Allowance for patching leaks in the existing tanks. 2. We have included a shoring wall immediately north of the existing recarbonation tank. 3. We have included a cutoff wall along the west side Clarifier 3, 4, 5 to retain underslab materials. 4. The permanent design for the Flocculation 2 wall includes a concrete cutoff wall along the north side of the existing Figure 8. 5. We maintained the existing wall along the east side of Flocculation Basin 1 and will brace, install concrete, or backfill to maintain appropriate pressures against this wall. <p>These means and methods are based on our best understanding of the existing as-builts, field investigations, and due diligence to date. With this approach, we believe we have a clear plan on what is a Differing Site Condition as defined in the Prime Agreement, and what is not.</p> <p>Additional means and methods beyond these would mean that the existing structure(s) is in a condition other than what could be expected. For example, existing damage or degradation to the existing facilities that could not have been known in the field investigations to date would constitute a Differing Site Condition.</p>
8	All material testing, concrete testing, surveying, field density testing, weld testing, etc. for GP3 is covered in GP4, with the exception of testing covered in Tab 09 Allowances.
9	We understand that environmental permitting notifications do not allow for the removal of the trees until April 1, 2022. Pricing and schedule for GP3 is based on having approval in place to remove trees by April 1, 2022. We had intended in GP2 to remove trees around March 1, 2022. We are still understanding what this means and will work with SPRWS to determine the best course forward. This may impact overall project schedule.
10	We have not assumed that the existing wooden piles are an issue for construction in the SSB and Clarifier 1 areas. As-Builts and explorations do not indicate that piles are present.
11	We have not included any costs for treatment of groundwater due to contamination by treatment plant chemicals.
12	This proposal is based on the assumption that the current GP1 - 4 (possibly 5) packages are awarded based on the schedule communicated. Changes to these award dates may delay the overall schedule (i.e. GP2 work needs to be complete for GP3 work and, in turn, GP4 work starting on time is dependent on GP2 and GP3 work).

13	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all electricity used on the project. Therefore, we have not included any of these costs in this GP proposal.</p> <p>SPRWS and Jacobs will work together to ensure that all temporary and revised permanent electrical loads are within all appropriate limits and do not limit the operation of SPRWS facilities. Additionally, SPRWS and Jacobs will work together to plan outages and plant interruptions to avoid any unplanned outages to the operating facility.</p>
14	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all potable water used on the project. Therefore, we have not included any of these costs in this GP proposal.</p> <p>Jacobs will inform SPRWS of planned water use and SPRWS will approve water usage; Jacobs and SPRWS will work together to ensure construction activities do not impact regular service to customers.</p>
15	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all sanitary sewer used on the project for the temporary facilities. Therefore, we have not included any of these costs in this GP proposal.</p> <p>Jacobs will not dispose of any hazardous or problematic waste into a SPRWS-owned sanitary sewer. Given the small amount of additional flows from the construction office trailers, Jacobs assumes that sewer fees will not increase and capacities will not be impacted. If that is incorrect, Jacobs will remedy the issue.</p>
16	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all chemicals associated with the operating plant. Therefore, we have not included any of these costs in this GP proposal.</p> <p>Jacobs has the responsibility to coordinate and schedule the commissioning and startup chemicals so that they are onsite at the appropriate time. Jacobs will work with SPRWS to ensure the appropriate accounts are set up and available.</p>
17	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all stormwater associated with the plant. Therefore, we have not included any of these costs in this GP proposal.</p> <p>Jacobs is responsible for complying with all stormwater requirements and for any fees / fines that result from inadequate stormwater provisions or protections.</p>
18	<p>This proposal assumes that SPRWS will be paying for consumption / usage costs for all sludge handling associated with the plant. Therefore, we have not included any of these costs in this GP proposal.</p> <p>All sludge from the new facilities will be piped to the existing storage tanks, GVTs, and filter presses.</p>
19	<p>Recently passed legislation includes a Build America Buy America provision that may modify the requirements of American Iron and Steel. We have not included pricing for this provision as impacts are currently unknown.</p> <p>If / once adopted, the regulations will constitute a change in funding requirements per Section 2.6.3 and the legal requirements per Section 2.4 of the General Conditions.</p>
20	<p>This GP has been prepared using the LS Design-Builder fees.</p>
21	<p>Given volatility in the markets, we have discussed the best ways to handle escalation. For this package, the major concern is asphalt. We suggest that an Allowance be established, similar to GP1, to manage escalation costs.</p> <p>If the calculated escalation is less than the Allowance amount indicated, the contract between Jacobs and SPRWS will be decreased by the corresponding amount plus the associated Design-Builder Fee. If the calculated escalation is greater than the Allowance amount, the contract will be increased by the corresponding amount plus the associated Design-Builder Fee.</p>
22	<p>Please note that design was not complete during this procurement and that eventual 100% Drawing and Specifications will differ from those presented with the GP. Furthermore, provisions in the subcontract and equipment proposals differ from the requirements of these preliminary Specifications. This is a normal part of the Design-Build process. SPRWS will be involved in reviews as the design progresses. In general, for this GP, the provisions of the subcontractor and vendors proposal, as long as they do not impede performance (water quality, schedule, longevity, architectural, etc.) will govern. Please reference Exhibit L1 and L2 to the Prime Agreement for further comment on document prioritization.</p>

23	<p>Sales taxes were calculated at 7.375% based on the 1900 Rice Street address for the Plant from the following website: https://www.revenue.state.mn.us/sales-tax-rate-calculator.</p> <p>Upon award of GP3, Jacobs, Magney, and PCL will maintain receipts for material purchases that are permanently incorporated into the Work so that paid taxes can be eventually reimbursed.</p> <p>Jacobs, Magney, and PCL will endeavor to gather all appropriate receipts for sales tax reimbursement with particular attention to receipts with values over \$10,000.</p> <p>It is our current understanding that Ramsey County Use Taxes will be due even if the Sales Tax exemption is utilized.</p>
24	<p>This proposal assumes that Comcast will install the fiber and panel necessary for Jacob's use at the trailer area. Comcast has committed to complete this work for a \$200 installation fee as long as it is completed concurrently with SPRWS fiber work. Comcast has provided pricing for independent service (not associated with SPRWS or the City networks) and that pricing is reflected in Tab 01 (service is taxable).</p>
DESIGN-BUILDER, GENERAL CONDITIONS (01)	
1	<p>Design-Builder assumes that SPRWS will assist with locating enough parking on site for the duration of the project. Costs for busing and/or transportation from another parking location is not included.</p>
2	<p>Design-Builder General Conditions estimate is based on a GP3 Notice of Award date around March 15, 2022, and a GP4 award date around August 1, 2022.</p>
DESIGN-BUILDER, ENGINEERING SERVICES DURING CONSTRUCTION (03)	
1	<p>Design-Builder General Conditions estimate is based on a GP3 Notice of Award date around March 15, 2022, and a GP4 award date around August 1, 2022.</p>
2	<p>We have assumed that Jacobs will have one (1) security staff to operate the Roselawn gate and temporary construction gate during construction hours only. SPRWS agrees to accommodate for gate opening needs during non-construction hours to operate the Roselawn and temporary construction gate. In other words, SPRWS sometimes has truck deliveries outside of construction work hours where the operators may need to open the construction gate.</p>
BID PACKAGE 4102: DEMOLITION AND EARTHWORK SUBCONTRACT (RACHEL)	
1	<p>The subcontract package for GP3 includes all demolition, earthwork, shoring, etc. work for the entire project. What is NOT included is final landscaping, overflow piping, all work associated with the new lab / office (including demolition work), and any work in the existing Lime Building (cleanout) or existing Lab (cleanout). This work will be included in GP4 (or potential GP5).</p>
2	<p>We are not planning on stockpiling at Sandy Lake (materials will be hauled offsite and replaced at the end of the project as needed).</p>
3	<p>We have included extensive shoring along the existing recarbonation and Clarifier 3, 4, 5 facilities to protect existing facilities (undermining, wall loading) from construction.</p>
4	<p>We have not included deep foundations under any new facilities.</p>
5	<p>Access into and out of the site is assumed to be through the construction access directly onto Roselawn east of the Low Service Reservoir.</p>
6	<p>We are assuming access to the Sandy Lake area (immediately north of Roselawn) is available for laydown (deliveries, potential precasting areas, etc.). We will work with SPRWS to grade and restore the site before and after use to ensure minimal impacts to SPRWS operations.</p>
7	<p>This existing Solids Handling Facility and sludge storage tanks will be inside the fenced boundary for the construction area. We will work with SPRWS to ensure safe access, we need SPRWS to abide by project safety rules while inside the active construction area.</p>
8	<p>We have established a plan, in concert with SPRWS, to allow for delivery of lime during construction. This plan alters the current delivery approach and we've included costs to provide a paved loop access road for lime deliveries as well as minor reconfiguration of the existing lime hopper to facilitate the new lime delivery approach.</p>

9	All access points from the existing facilities that face the construction areas (doors on the north side of Flocculation Basin 2 for example) will be permanently blocked (framed walls) for the duration of the construction project. Doors on the south side of the Filter Building will be temporarily blocked during construction in those areas.
10	The excavation and ramp access for the construction will mean that access to the Clarifier 3, 4, and 5 basins will have to be from the south and east. It appears that plant personnel currently access them from the north, which will no longer be possible after commencement of construction activities.
11	Please reference tree removal date discussion above.
BID PACKAGE 4103: PROCESS MECHANICAL, YARD PIPE, EQUIPMENT INSTALLATION (MAGNEY)	
4102, FACILITY 310: SOFTENING CLARIFIERS	
1	GP3 includes underslab work to facilitate the schedule (encased pipe under facilities 300 and 400). All other plumbing and piping will be included in GP4.
2	We utilized granular fill around encasements under the SCC and Gallery slabs. We included an Allowance for CLSM if required.
3	We have not assumed demolition, removal, or filling of the existing RW piping from the Terminal Chambers to the existing facilities. However, we have included demolition of (2) existing RW meter vaults because they are in the way of the new drainage pond grading.
4102, FACILITY 950: EXISTING FACILITIES	
1	Please reference the Risk Register (on SmartSheet or Tab 10.4 in this workbook) for concerns about the possible means and methods for sealing the existing gates between the Figure 8 and SSB.
2	For either a LS or GMP delivery, scope and schedules for GP2, 3, and 4 overlap in time and space through the end of 2022. We will set up a system for tracking costs and invoicing correctly that we will review with SPRWS.
BID PACKAGE 4104: STRUCTURAL CONCRETE (PCL)	
1	The splitter box for 72" OW into the existing Figure 8 will be included in GP4. Design is not currently complete and pricing will be more accurate in GP4.
2	Assumes that tower crane foundation can be left in place (elevation is below all new infrastructure).