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Clackamas County
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CLACKAMAS

**WATER
ENVIRONMENT
SERVICES**

GREGORY L. GEIST | DIRECTOR

Water Quality Protection
Surface Water Management
Wastewater Collection & Treatment

October 29, 2026

BCC Agenda Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

Approval of Contract #1971 with Jacobs Engineering Group Inc. for engineering services for the Wet Weather Expansion Project at the Tri-City Water Resource Recovery Facility. Total Contract Value is \$7,003,049. Funding through WES Sanitary Sewer Construction Funds. No County General Funds are involved.

Previous Board Action/Review: N/A

Performance Clackamas: 1. This project supports WES' strategic plan to upgrade WES' infrastructure to ensure the sustainable delivery of reliable, high-quality, and climate-resilient clean water services that support the growth and vitality of our communities, natural environment, and economy.
2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.

Counsel Review: Yes
Contact Person: Jeff Stallard

Procurement Review: Yes
Contact Phone: 503-278-2311

EXECUTIVE SUMMARY: The Willamette Facilities Plan set a basin-wide strategy for treating wastewater from the Kellogg Creek and Tri-City service areas through 2040. Under that plan, the Tri-City Water Resource Recovery Facility takes on a larger regional role treating all flow from Gladstone, Oregon City, and West Linn plus flows transferred from the Kellogg Creek service area via the Intertie Pump Station. The companion Tri-City Facilities Plan recommended new dedicated wet weather treatment facilities so the plant can reliably treat peak flows of up to 105 million gallons per day through 2040 while continuing to meet discharge permit requirements.

The recommended improvements include new screening, high-rate ballasted sedimentation treatment, disinfection, connecting piping, and electrical improvements to power the new facilities. These facilities will be built on a portion of the Old Rossman Landfill, adjacent to the existing plant. Before construction can begin, that area must be remediated which includes managing contaminated soil, capping, and gas collection. This work will address WES's existing remediation obligations established in the DEQ-approved Prospective Purchase Agreement for the landfill property.

Design services will also evaluate the reliability of the plant's existing electrical and backup power systems and identify improvements to keep critical treatment processes running during power outages such as those experienced during the 2020 Labor Day fires and 2021 ice storm. WES was awarded a \$210,000 FEMA Hazard Mitigation Grant Program grant for this evaluation and anticipates using it to offset a portion of the contract cost.

The project will be constructed in two packages. The landfill remediation will be a traditional low-bid contract. The wet weather treatment facilities are anticipated to use a Construction Manager/General Contractor (CM/GC) approach, which brings a contractor on during design to help manage cost, constructability, and

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schedule risk for work inside an operating plant. The delivery method for this package will be confirmed as design progresses.

WES selected Jacobs Engineering Group Inc., with Carollo Engineers as a major subconsultant, through a qualifications-based selection process (RFP #2025-94). This contract authorizes Jacobs to complete full design of the landfill remediation and design of the wet weather treatment facilities through 30%, along with permitting, geotechnical investigation, surveying, and a basis of design report. The 30% design is expected in October 2027 and the 100% landfill remediation design in March 2028.

Authorizing design in phases allows WES to confirm the delivery method and refine the construction cost estimate at 30% before committing to the remainder of design. Design of the wet weather facilities from 30% through 100% will be negotiated as a future amendment.

The project is funded through WES Sanitary Sewer Construction Funds and included in the Board-adopted Capital Improvement Program.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Contract #1971 with Jacobs Engineering Group Inc. for engineering services for the Wet Weather Expansion Project at the Tri-City Water Resource Recovery Facility.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Greg Geist", with a stylized flourish extending to the right.

Greg Geist
Director, WES

Attachment: Contract #1971 Jacobs Engineering Group Inc.



**WATER ENVIRONMENT SERVICES
PERSONAL SERVICES CONTRACT
Contract #0000001971**

This Personal Services Contract (this "Contract") is entered into between Jacobs Engineering Group Inc. ("Contractor") and Water Environment Services, an intergovernmental entity formed pursuant to ORS Chapter 190 ("District").

ARTICLE I.

- 1. Effective Date and Duration.** This Contract shall become effective upon signature of both parties. Unless earlier terminated or extended, this Contract shall expire on June 30, 2031.
- 2. Scope of Work.** Contractor shall provide the following engineering necessary for the Wet Weather Expansion Project ("Work"), further described in **Exhibit A**. The Work authorized by this Contract is limited to the preliminary design phase work described in Exhibit A. If District requests performance of further design work, construction engineering, inspection, and construction contract administration phase work, it will do so by issuing an amendment to this Contract on terms acceptable to both parties.
- 3. Consideration.** The District agrees to pay Contractor, from available and authorized funds, a sum not to exceed **seven million three thousand forty-nine dollars (\$7,003,049.00)** for accomplishing the Work required by this Contract. Consideration rates are on a time and materials basis in accordance with the rates and costs specified in Exhibit A. If any interim payments to Contractor are made, such payments shall be made only in accordance with the schedule and requirements in Exhibit A.
- 4. Invoices and Payments.** Unless otherwise specified, Contractor shall submit monthly invoices for Work performed. Invoices shall describe all Work performed with particularity, by whom it was performed, and shall itemize and explain all expenses for which reimbursement is claimed. The invoices shall include the total amount billed to date by Contractor prior to the current invoice. If Contractor shall submit invoices in proper form within sixty (60) calendar days after the end of the month in which the services were rendered, Payments to Contractor on undisputed amounts shall be made within thirty (30) days of invoice receipt. Payments shall be made in accordance with ORS 293.462 to Contractor following the District's review and approval of invoices submitted by Contractor. Contractor shall not submit invoices for, and the District will not be obligated to pay, any amount in excess of the maximum compensation amount set forth above. If this maximum compensation amount is increased by amendment of this Contract, the amendment must be fully effective before Contractor performs Work subject to the amendment.

Invoices shall reference the above Contract Number and be submitted to:
wes-procurement@clackamas.us

- 5. Travel and Other Expense.** Authorized: ☒ Yes ☐ No
If travel expense reimbursement is authorized in this Contract, such expense shall only be reimbursed at the rates in the Clackamas County Contractor Travel Reimbursement Policy, hereby incorporated by reference and found at: <https://www.clackamas.us/finance/terms.html>. Travel expense reimbursement is not in excess of the not-to-exceed consideration.
- 6. Contract Documents.** This Contract consists of the following documents, which are listed in descending order of precedence and are attached and incorporated by reference: this Contract, Exhibit A, Exhibit B, and Exhibit C.

7. Contractor and District Contacts.

Contractor	District
Administrator: Brady Fuller Phone: 541-318-4716 Email: brady.fuller@jacobs.com	Administrator: Steven Rice Phone: 971-284-3710 Email: srice@clackamas.us

Payment information will be reported to the Internal Revenue Service (“IRS”) under the name and taxpayer ID number submitted. (See I.R.S. 1099 for additional instructions regarding taxpayer ID numbers.) Information not matching IRS records will subject Contractor payments to backup withholding.

ARTICLE II.

- 1. Access to Records.** Contractor shall maintain books, records, documents, and other evidence, in accordance with generally accepted accounting procedures and practices, sufficient to reflect properly all costs of whatever nature claimed to have been incurred and anticipated to be incurred in the performance of this Contract. District and their duly authorized representatives shall have access to the books, documents, papers, and records of Contractor, which are directly pertinent to this Contract for the purpose of making audit, examination, excerpts, and transcripts. Contractor shall maintain such books and records for a minimum of three (3) years, or such longer period as may be required by applicable law, following final payment and termination of this Contract, or until the conclusion of any audit, controversy or litigation arising out of or related to this Contract, whichever date is later.
- 2. Availability of Future Funds.** Any continuation or extension of this Contract after the end of the fiscal period in which it is written is contingent on a new appropriation for each succeeding fiscal period sufficient to continue to make payments under this Contract, as determined by the District in its sole administrative discretion.
- 3. Captions.** The captions or headings in this Contract are for convenience only and in no way define, limit, or describe the scope or intent of any provisions of this Contract.
- 4. Compliance with Applicable Law.** Contractor shall comply with all applicable federal, state and local laws, regulations, and ordinances, as such may be amended from time to time.
- 5. Counterparts.** This Contract may be executed in several counterparts (electronic or otherwise), each of which shall be an original, all of which shall constitute the same instrument.
- 6. Governing Law.** This Contract, and all rights, obligations, and disputes arising out of it, shall be governed and construed in accordance with the laws of the State of Oregon and the ordinances of Clackamas County without regard to principles of conflicts of law. Any claim, action, or suit between District and Contractor that arises out of or relates to the performance of this Contract shall be brought and conducted solely and exclusively within the Circuit Court for Clackamas County, for the State of Oregon. Provided, however, that if any such claim, action, or suit may be brought in a federal forum, it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the District of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. Contractor, by execution of this Contract, hereby consents to the personal jurisdiction of the courts referenced in this section.
- 7. Indemnity, Responsibility for Damages.** Contractor shall be responsible for all damage to property,

injury to persons, and loss, expense, inconvenience, and delay which may be caused by, or result from, to the extent caused by any negligent act or omission of Contractor, its subcontractors, agents, or employees. The Contractor agrees to indemnify and defend the District and Clackamas County, and their officers, elected officials, and employees from and against all third-party claims, actions, losses, liabilities, including reasonable attorney and accounting fees, and all expenses incidental to the investigation and defense thereof, arising out of the negligent acts or omissions of Contractor or Contractor's employees, subcontractors or agents in performing under this Contract. Provided, however, that pursuant to ORS 30.140(4), Contractor's duty to defend obligations arising from or related to Contractor's professional negligence, or related to professional services provided by Contractor, are limited to reimbursement of District's reasonable defense costs (including reasonable attorney fees) in an amount not to exceed the proportionate fault of Contractor, as determined by adjudication, alternative dispute resolution, or otherwise resolved by settlement agreement.

However, neither Contractor nor any attorney engaged by Contractor shall defend the claim in the name of District or Clackamas County ("County"), purport to act as legal representative of District or County, or settle any claim on behalf of District or County, without the approval of the Clackamas County Counsel's Office. District or County may assume their own defense and settlement at their election and expense.

8. **Independent Contractor Status.** The service(s) to be rendered under this Contract are those of an independent contractor. Although the District reserves the right to determine (and modify) the delivery schedule for the Work to be performed and to evaluate the quality of the completed performance, District cannot and will not control the means or manner of Contractor's performance. Contractor is responsible for determining the appropriate means and manner of performing the Work. Contractor is not to be considered an agent or employee of District for any purpose, including, but not limited to: (A) The Contractor will be solely responsible for payment of any Federal or State taxes required as a result of this Contract; and (B) This Contract is not intended to entitle the Contractor to any benefits generally granted to District employees, including, but not limited to, vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, Social Security, Workers' Compensation, unemployment compensation, or retirement benefits.
9. **Insurance.** Contractor shall secure at its own expense and keep in effect during the term of the performance under this Contract the insurance required as indicated below. The insurance requirements outlined below do not in any way limit the amount of scope of liability of Contractor under this Contract. Contractor shall provide proof of said insurance and include the District and Clackamas County as an additional insureds on all required liability policies except for Workers' Compensation and Professional Liability. Proof of insurance and notice of any material change should be submitted to the following address: Clackamas County Procurement Division, 2051 Kaen Road, Oregon City, OR 97045 or the District Contract Analyst.

Required - Workers' Compensation: Contractor shall comply with the statutory workers' compensation requirements in ORS 656.017, unless exempt under ORS 656.027 or 656.126.
☒ Required – Commercial General Liability: with limits of \$2,000,000 per occurrence with an annual general aggregate limit of \$3,000,000 for Bodily Injury and Property Damage.
☒ Required – Professional Liability: with limits of \$2,000,000 per claim, with an annual aggregate limit of \$4,000,000 for damages caused by negligent acts, errors or omissions.
☒ Required – Automobile Liability: combined single limit, or the equivalent, in the amount of \$1,000,000 per accident for Bodily Injury and Property Damage.

The policy(s) shall be primary insurance as respects to the District except for Workers' Compensation and Professional Liability. Any insurance or self-insurance maintained by the District shall be excess and shall not contribute to it, except for Workers Compensation and

Professional Liability. Any obligation that the District agrees to a waiver of subrogation is hereby stricken.

- 10. Limitation of Liabilities.** This Contract is expressly subject to the debt limitation of Oregon counties set forth in Article XI, Section 10, of the Oregon Constitution, and is contingent upon funds being appropriated therefore. Any provisions herein which would conflict with law are deemed inoperative to that extent. Neither party shall be liable for (i) any indirect, incidental, consequential or special damages under this Contract or (ii) any damages of any sort arising solely from the termination of this Contract in accordance with its terms.
- 11. Notices.** Except as otherwise provided in this Contract, any required notices between the parties shall be given in writing by personal delivery, email, or mailing the same, to the Contract Administrators identified in Article I, Section 7. If notice is sent to District, a copy shall also be sent to: Clackamas County Procurement, 2051 Kaen Road, Oregon City, OR 97045. Any communication or notice so addressed and mailed shall be deemed to be given five (5) days after mailing, and immediately upon personal delivery, or within 2 hours after the email is sent during District's normal business hours (Monday – Thursday, 7:00 a.m. to 6:00 p.m.) (as recorded on the device from which the sender sent the email), unless the sender receives an automated message or other indication that the email has not been delivered.
- 12. Ownership of Work Product.** All work product of Contractor that results from this Contract (the "Work Product") is the exclusive property of District. District and Contractor intend that such Work Product be deemed "work made for hire" of which District shall be deemed the author. If for any reason the Work Product is not deemed "work made for hire," Contractor hereby irrevocably assigns to District all of its right, title, and interest in and to any and all of the Work Product, whether arising from copyright, patent, trademark or trade secret, or any other state or federal intellectual property law or doctrine. Contractor shall execute such further documents and instruments as District may reasonably request in order to fully vest such rights in District. Contractor forever waives any and all rights relating to the Work Product, including without limitation, any and all rights arising under 17 USC § 106A or any other rights of identification of authorship or rights of approval, restriction or limitation on use or subsequent modifications. Notwithstanding the above, District shall have no rights in any pre-existing Contractor intellectual property provided to District by Contractor in the performance of this Contract except to copy, use and re-use any such Contractor intellectual property for District use only.
- 13. Representations and Warranties.** Contractor represents and warrants to District that (A) Contractor has the power and authority to enter into and perform this Contract; (B) this Contract, when executed and delivered, shall be a valid and binding obligation of Contractor enforceable in accordance with its terms; (C) Contractor shall at all times during the term of this Contract, be qualified, professionally competent, and duly licensed to perform the Work; (D) Contractor is an independent contractor as defined in ORS 670.600; and (E) the Work under this Contract shall be performed in accordance with the industry standard of professional skill and care required for a project of similar size, location, scope, and complexity, during the time in which the Work is being performed. The warranties set forth in this section are in addition to, and not in lieu of, any other warranties provided. The Contractor shall be responsible for the technical accuracy of its services and documents resulting therefrom, and District shall not be responsible for discovering deficiencies therein. The Contractor shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in information furnished by the District.
- 14. Survival.** All rights and obligations shall cease upon termination or expiration of this Contract, except for the rights and obligations set forth in Article II, Sections 1, 6, 7, 10, 12, 13, 14, 15, 17, 20, 21, 25, 27, 28 and 32, and all other rights and obligations which by their context are intended to survive. However, such expiration shall not extinguish or prejudice the District's right to enforce this

Contract with respect to: (a) any breach of a Contractor warranty; or (b) any default or defect in Contractor performance that has not been cured.

- 15. Severability.** If any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.
- 16. Subcontracts and Assignments.** Contractor shall not enter into any subcontracts for any of the Work required by this Contract, or assign or transfer any of its interest in this Contract by operation of law or otherwise, without obtaining prior written approval from the District, which shall be granted or denied in the District's sole discretion. In addition to any provisions the District may require, Contractor shall include in any permitted subcontract under this Contract a requirement that the subcontractor be bound by this Article II, Sections 1, 7, 8, 13, 16, and 27 as if the subcontractor were the Contractor. District's consent to any subcontract shall not relieve Contractor of any of its duties or obligations under this Contract.
- 17. Successors in Interest.** The provisions of this Contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective authorized successors and assigns.
- 18. Tax Compliance Certification.** The Contractor shall comply with all federal, state and local laws, regulation, executive orders and ordinances applicable to this Contract. Contractor represents and warrants that it has complied, and will continue to comply throughout the duration of this Contract and any extensions, with all tax laws of this state or any political subdivision of this state, including but not limited to ORS 305.620 and ORS chapters 316, 317, and 318. Any violation of this section shall constitute a material breach of this Contract and shall entitle District to terminate this Contract, to pursue and recover any and all damages that arise from the breach and the termination of this Contract, and to pursue any or all of the remedies available under this Contract or applicable law.
- 19. Termination.** This Contract may be terminated for the following reasons: (A) by mutual agreement of the parties or by the District (i) for convenience upon thirty (30) days written notice to Contractor, or (ii) at any time the District fails to receive funding, appropriations, or other expenditure authority as solely determined by the District; or (B) if Contractor breaches any Contract provision or is declared insolvent, District may terminate after thirty (30) days written notice with an opportunity to cure.
- Upon receipt of written notice of termination from the District, Contractor shall immediately stop performance of the Work. Upon termination of this Contract, Contractor shall deliver to District all documents, Work Product, information, works-in-progress and other property that are or would be deliverables had the Contract Work been completed. Upon District's request, Contractor shall surrender to anyone District designates, all documents, research, objects or other tangible things needed to complete the Work.
- 20. Remedies.** If terminated by the District due to a breach by the Contractor, then the District shall have any remedy available to it in law or equity. If this Contract is terminated for any other reason, Contractor's sole remedy is payment for the goods and services delivered and accepted by the District, less any setoff to which the District is entitled.
- 21. No Third Party Beneficiaries.** District and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.

- 22. Time is of the Essence.** Contractor agrees that time is of the essence in the performance of this Contract in accordance with a mutually agreeable Project Schedule.
- 23. Foreign Contractor.** If the Contractor is not domiciled in or registered to do business in the State of Oregon, Contractor shall promptly provide to the Oregon Department of Revenue and the Secretary of State, Corporate Division, all information required by those agencies relative to this Contract. The Contractor shall demonstrate its legal capacity to perform these services in the State of Oregon prior to entering into this Contract.
- 24. Force Majeure.** Neither District nor Contractor shall be held responsible for delay or default caused by events outside the District or Contractor's reasonable control including, but not limited to, fire, terrorism, riot, acts of God, or war. However, Contractor shall make all reasonable efforts to remove or eliminate such a cause of delay or default and shall upon the cessation of the cause, diligently pursue performance of its obligations under this Contract.
- 25. Waiver.** The failure of District to enforce any provision of this Contract shall not constitute a waiver by District of that or any other provision.
- 26. Public Contracting Requirements.** Pursuant to the public contracting requirements contained in Oregon Revised Statutes ("ORS") Chapter 279B.220 through 279B.235, Contractor shall:
- a. Make payments promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the work provided for in the Contract.
 - b. Pay all contributions or amounts due the Industrial Accident Fund from such Contractor or subcontractor incurred in the performance of the Contract.
 - c. Not permit any lien or claim to be filed or prosecuted against District on account of any labor or material furnished.
 - d. Pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
 - e. As applicable, the Contractor shall pay employees for work in accordance with ORS 279B.235, which is incorporated herein by this reference. The Contractor shall comply with the prohibitions set forth in ORS 652.220, compliance of which is a material element of this Contract, and failure to comply is a breach entitling District to terminate this Contract for cause.
 - f. If the Work involves lawn and landscape maintenance, Contractor shall salvage, recycle, compost, or mulch yard waste material at an approved site, if feasible and cost effective.
- 27. No Attorney Fees.** In the event any arbitration, action or proceeding, including any bankruptcy proceeding, is instituted to enforce any term of this Contract, each party shall be responsible for its own attorneys' fees and expenses.
- 28. Geotechnical Investigations.** In soils, foundation, groundwater, and other subsurface investigations, the actual characteristics may vary significantly between successive test points and sample intervals and at locations other than where observations, exploration, and investigations have been made. Because of the inherent uncertainties in subsurface evaluations, changed or unanticipated underground conditions may occur that could affect total Project cost and/or execution. Except for costs associated with Contractor's negligence or failure to perform in accordance with the Contract documents, these conditions and cost/execution effects are not the responsibility of Contractor.
- 29. Access to Facilities and Properties.** Upon reasonable prior notice to District, District will make its facilities reasonably accessible to Contractor as required for Contractor's performance of its services and will make available District-owned safety equipment on site, such as ladders, fall protection davits, and gas detection, along with operations staff escort and assistance reasonably required for

such access. Contractor shall furnish its own personal protective equipment and is responsible for the training and competence of its personnel and compliance with its own safety program and District site safety requirements.

- 30. Opinions of Cost, Financial Considerations, and Schedules.** Contractor shall prepare opinions of cost and schedules in accordance with the standard of care in Section 13 and the estimate classifications in Exhibit A. In providing opinions of cost, financial analyses, economic feasibility projections, and schedules for the Project, Contractor has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operational factors that may materially affect the ultimate Project cost or schedule. Therefore, Contractor makes no warranty that District's actual Project costs, financial aspects, economic feasibility, or schedules will not vary from Contractor's opinions, analyses, projections, or estimates. Nothing in this Section relieves Contractor of its obligations under Section 13.
- 31. Key Persons.** Contractor acknowledges and agrees that a significant reason the District is entering into this Contract is because of the special qualifications of certain Key Persons set forth in the contract. Under this Contract, the District is engaging the expertise, experience, judgment, and personal attention of such Key Persons. Neither Contractor nor any of the Key Persons shall delegate performance of the management powers and responsibilities each such Key Person is required to provide under this Contract to any other employee or agent of the Contractor unless the District provides prior written consent to such delegation. Contractor shall not reassign or transfer a Key Person to other duties or positions such that the Key Person is no longer available to provide the District with such Key Person's services unless the District provides prior written consent to such reassignment or transfer.
- 32. Federal Contracting Requirements.** District intends that all or a portion of the consideration paid to Contractor is eligible for reimbursement by one or more federal agencies including, but not limited to, the Federal Emergency Management Agency. This Contract is subject to the additional terms and conditions, required by federal law for a federal award, set in **Exhibit B**, attached hereto and incorporated by this reference herein. All terms and conditions required under applicable federal law for a federal award including, but not limited to, 2 C.F.R. § 200.326 and 2 C.F.R. § Pt. 200, App. II are hereby incorporated by this reference herein.
- Contractor shall, as soon as commercially practicable, register itself with the federal System for Award Management (SAM). Information regarding registration with SAM may be found at <https://www.sam.gov>.
- 33. Merger.** THIS CONTRACT CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES WITH RESPECT TO THE SUBJECT MATTER REFERENCED THEREIN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. NO AMENDMENT, CONSENT, OR WAIVER OF TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY ALL PARTIES. ANY SUCH AMENDMENT, CONSENT, OR WAIVER SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. CONTRACTOR, BY THE SIGNATURE HERETO OF ITS AUTHORIZED REPRESENTATIVE, IS AN INDEPENDENT CONTRACTOR, ACKNOWLEDGES HAVING READ AND UNDERSTOOD THIS CONTRACT, AND CONTRACTOR AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

Signature Page Follows

EXHIBIT A
SCOPE OF WORK

Design Services Scope of Work Tri-City WRRF Wet Weather Improvements 10% - 100% Design and Bid and GMP Phase Services)

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6.	Early Work Authorization (EWA) Equipment and Materials Procurement Support (This task is deferred and may be negotiated in the future, by Amendment).....	45
7.	Design Development Phase (60% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)	45
8.	Draft Contract Documents Preparation (90% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)	45
9.	Final Contract Documents Preparation (100% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)	45
10.	Quality Management 10% - 30% Design and Bid Phase Services	45

Project Description

The initial authorization for this Project includes work through 100% design for Old Rossman Landfill Remediation only. Authorization through 30% only is provided for the Wet Weather Treatment Facilities.

This scope of work describes the services to be rendered by Jacobs for the design of the Tri-City Water Resource Recovery Facility (TCWRRF) Wet Weather Improvements. Carollo Engineers is a major subconsultant to Jacobs on the project. The improvements are as described in the Tri-City Facility Plan (Carollo, November 2022) and shall include the following project elements. The project will be designed and constructed in two distinct packages, as denoted below:

Old Rossman Landfill Remediation: This is expected to be a traditional low-bid construction contract to fulfil Clackamas Water Environment Service's (WES or District) obligations for remediating the Old Rossman Landfill, west of I-205 and generally south of existing treatment facilities.

Work is expected to include:

- Excavation and disposal of existing solid waste and potentially petroleum contaminated soils as necessary within the footprint of the area needed for this project.
- Preparation of new subgrade on which new facilities will be constructed.
- Landfill capping in select areas.
- Gas collection and venting systems components

TCWRRF Wet Weather Improvements: This is expected to be constructed in a single Guaranteed Maximum Price construction contract through the General Contractor/Construction Manager (CMGC) delivery method, following completion of the Old Rossman Landfill Remediation.

Work is expected to include:

- New South Influent Pump Station (Basis of Design only, not final design)
- New South Screening facilities
- New South Grit Removal facilities (Basis of Design only, not final design)
- New High Rate Wet Weather Treatment Process facilities - Ballasted Sedimentation
- New Disinfection - hypochlorite disinfection and dechlorination facilities.
- New primary influent diversion gate(s) and structure to route flow to Ballasted Sedimentation
- Major yard piping work to include:
 - IT2 Forcemain Extension and valving, including work in S Agnes Ave
 - Primary Influent diversion to Ballasted sedimentation, including connection to existing pipes and new piping installed under existing MBR gallery
 - All yard piping to connect wet weather facilities to existing outfall
- Site electrical improvements including switchgear, transformers, ductbanks to provide power to new facilities. Include evaluation of standby power alternatives including potentially dispatchable generation offered by Portland General Electric (PGE)

- New large vehicle parking and garage structure
- Security fencing and gates

The Area of Potential Effects / Biological Study Area / Proposed Action Area is outlined in purple in the figure below. The approximate footprint of the Old Rossman Landfill is outlined in orange in the figure below.



Figure 1: Area of Potential Effects, Biological Study Area, and Proposed Action Area

Scope and Fee Development

The following key assumptions were made in the compilation of this scope of work and the estimation of the level of effort:

1. The design period through 30% design will last 12 months from authorization to proceed in September 2026 through October 2027. The 100% design of Old Rossman Landfill Remediation is expected be completed in March 2028.
2. Old Rossman Landfill remediation would be limited to areas of planned new facilities. This scope would not design remediation beyond the footprint of new facilities, but could be added by amendment.
3. The design will be prepared in the following steps. Basis of Design (10%), Schematic Design (Basis of Design, 30%), and Submittals for 60%, 90%, 100% will be prepared. The project team will stop during formal District review of each design submittal.
4. The design will be based on the federal, state, and local codes and standards in effect on the effective date of the authorization to proceed. Any changes in these codes may necessitate a change in scope.
5. The design documents will be prepared for a single construction contract for Old Rossman Landfill Remediation and a single construction contract for TCWRRF Wet Weather Improvements.
6. The following permit application packages and supporting documentation will be prepared by Jacobs: Oregon City Pre-Application Meeting, Oregon City Permits (Land use, Floodplain, Building); Carollo, as subconsultant, will prepare Grading and Drainage Permits). Oregon DEQ Air Contaminant and Discharge Permit (ACDP) modifications for odor control equipment. Jacobs will develop and submit the permit application packages and required reports and District (not Jacobs) will pay all permit processing fees. Additionally, the Oregon Department of Environmental Quality (ODEQ) potential approval process for revisions to the Old Rossman Landfill Work Plan will be part of the permitting aspects of this project.
7. The Contract documents for Old Rossman Landfill prepared under this scope will be based upon EJCDC General Conditions (2018 version). Jacobs will use Jacobs Division 0 and 1 specifications as recently used by Jacobs on TCWRRF Aeration Improvements as the starting point for files, and District will review including solicitation of input from District's insurer and legal counsel. Jacobs will prepare modifications of Division 0 and 1 files to suit this project and District will review and endorse final files. Consultant team master specifications will be used as the basis for all other specifications.
8. The Contract documents for TCWRRF Wet Weather Treatment Improvements prepared under this scope will be based upon the EJCDC Construction Manager at Risk (CMAR) series (2023 version). Jacobs will use Division 0 and 1 specifications as recently used by WES for the TCWRRF Influent Pump Station Improvements project as the starting point for files. District will review including solicitation of input from District's insurer and legal counsel. Jacobs will prepare modifications of Division 0 and 1 files to suit this project and District will review and endorse final files. Jacobs master specifications will be used as the basis for all other specifications.
9. Two or three vendors will be named for each manufactured component or piece of equipment listed here, which provides competitive bidding but ensures the level of quality and features required by District. An "Or equal" clause is anticipated to be used for all materials and equipment, except for items specifically identified by District.

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10. Selection of vendors for the following major equipment (ballasted sedimentation system, programmable logic controllers, variable frequency drives) are expected to be determined through the 30% design. District will prepare all "Sole Source" procurement justification documentation, with support from Jacobs.
 11. No bid alternates are anticipated to be included on the bid form and contract documents for Old Rossman Landfill Remediation or TCWRRF Wet Weather Improvements.
 12. Attachment A Exhibit 1 – Drawing Index lists the anticipated design drawings.
 13. The drawings will follow Jacobs CAE/CAD standards which conform to the US National CAD standard. Autodesk Revit will generally be used to develop the drawings, although Jacobs at its sole discretion may elect to use Microstation for select drawings where automation tools have been developed that improve drawing production (process and instrumentation diagrams, for example). No AutoCAD translations of Microstation files will be prepared during design phase (translations of Record Drawings to AutoCAD are expected to be scoped in a future task).
 14. The siting, location and design of all new underground utilities will be based on the existing underground utility drawings and related location information provided on record drawings and informed by potholing.
 15. Where deliverables are identified, five hard copies of the deliverable (letter sized reports and specifications, or half-size (11"x17") drawings) shall be provided in addition to electronic versions in PDF and Word format (PDF format shall be capable of being annotated by District reviewers in Bluebeam software).
 16. Potholing of existing utilities is expected to be required, and a potholing subcontractor allowance has been included (\$20,000 plus 5% markup). Other potholes may be deferred to an early Contractor Exploratory Excavation work item by the General Contractor for Old Rossman Landfill or CMGC Contractor for TCWRRF Wet Weather Improvements.
 17. District agrees or acknowledges that Jacobs and its subcontractors have no liability associated with any hazardous materials or hazardous wastes encountered on or near the project site or associated with the Work, except that Jacobs shall be responsible for claims or costs arising out of the negligent acts of Jacobs or its subcontractors in the performance of the Work. Jacobs or its subcontractors shall at no time take title, risk of loss, or ownership of any hazardous materials or hazardous wastes. Investigation Derived Waste collected and transmitted to laboratory will be returned to the Old Rossman Landfill site for disposal or relocation in the Landfill Remediation Construction Contract. Notwithstanding the above, Jacobs shall be responsible for complying with all applicable legal and regulatory requirements in the transport and disposal or relocation of any Investigation Derived Waste when such material is in the custody of Jacobs or its subcontractors.

Civil and Site Development, Geotechnical

1. New and existing topographic survey information will be used for the design of the new and modified facilities. Site boundary surveying and staking will be performed as described herein. Potholed utilities will be surveyed after completion using down hole measurements from ground surface to compute elevation.
2. Legal, easement or plat surveys of the existing site will not be required, except that property boundary survey to locate and map boundary for Old Rossman Landfill is included.

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3. Civil sitework plans will be provided only for areas of the site involving significant disturbance to existing grading. Site work plans are expected to be based upon new site-wide civil plan sheet limits (with match lines to adjacent sheets). Areas of the Old Rossman Landfill that will not be impacted will not be included in the drawings.
 4. Landscaping plans will be provided to meet 15% minimum site area landscape requirement, include screening of the site from exterior perimeter as may be required by AHJ, tree replacement of existing trees impacted by construction and required street tree improvements. Removal of existing irrigation systems disturbed by the work will be shown in such a way as to allow function of remaining system. Irrigation systems, where required, will be performance specified for detailed design by Contractor.
 5. New roadways and parking areas are assumed in vicinity of new buildings. A new entrance onto site from S. Agnes Ave is expected. New laydown/parking gravel surface will be developed within Old Rossman Landfill limits to support CMGC contract. Single lane closures are anticipated to be acceptable for all work including design phase geotechnical drilling in S. Agnes, and construction phase roadway work.
 6. New storm water collection and control facilities will be provided to accommodate interim and permanent grading conditions from the Old Rossman Landfill remediation, and for Wet Weather Improvements only for the new construction. No permanent changes to stormwater management, other than temporary erosion and sediment control, are assumed to be required related to work in S. Agnes Ave (IT2 Forcemain Construction).
 7. The foundation design of the new facilities will be based on new geotechnical information. Geotechnical data collected during Basis of Design Phase will be incorporated into the design and made available in a Geotechnical Data Report along with available historical geotechnical data from prior projects at the site, for potential bidders.
 8. Design of site perimeter security fence will be confirmed during Basis of Design, but is assumed to surround the entire Old Rossman Landfill site, and exterior boundary. Exact fence centerline offset from property boundary will be confirmed during final design.

Structural/Architectural/Geotechnical

9. Conventional spread foundations will be required for all new facilities. Over excavation, preload, or piles will not be required. This means that areas of the Old Rossman Landfill are assumed to be excavated and/or remediated as applicable to enable this type of design.
10. For pipes smaller than 24-inch, contractor will perform pipe support design in all facilities, including supports for all electrical conduits whether shown specifically shown on the drawings or not, and HVAC duct supports. For pipes 24-inch and larger, Engineer will design pipe supports.

Process/ Mechanical

11. A hydraulic profile drawing will be provided.
12. Design concerning "plant-wide" utility systems such as basin drainage, water, and in-plant waste collection/disposal will be limited to extensions and/or changes in existing piping. New plant drain pump station is expected to be required in lower level of new Influent Screening facility. This scope will evaluate impact of all new facilities on plant water system supply and return drainage.

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13. Design of cathodic protection of buried ductile iron piping and cement mortar lined and coated piping will be provided with thermite-welded jumper cables across joints, anodes, and test stations.
 14. No acoustical studies will be performed.
 15. Odor control facilities will discharge to atmosphere without special acoustical silencers. Performance specified sound attenuated enclosures may be specified.
 16. District will (not Jacobs) arrange and contract with a third party to perform Regulated Building Materials survey, or other survey regarding hazardous materials will be prepared (specifically looking at primary influent channel demolition, other demolition to be identified in design and other connections to existing facilities. Two mobilizations are assumed, one during Basis of Design phase and one during 30% design.

Electrical and Instrumentation & Control Systems

1. The new instrumentation and control system will be based on the use of programmable logic controllers. Siemens PLC's, consistent with other PLC's in use at the site are assumed to be the basis of the PLC design.
2. Package control systems are expected to be provided with the following equipment
 - a. Headworks screens, screening handling equipment, and odor control equipment.
3. Custom programming for monitoring and control of South Headworks, primary effluent diversion, ballasted sedimentation, and disinfection is anticipated to be required.
4. Remote control of plant components will generally be provided, and will be consistent with existing control concepts implemented at existing primary, CAS, and MBR processes.
5. Jacobs may perform the work of developing process control system software for both the PLC and the personal computer SCADA interface. If desired by District, the scope of these services is expected to be negotiated in a subsequent agreement.
6. A site-wide review of the existing secondary or emergency electrical power supply system will be performed as part of the Schematic Design. Design of one secondary or emergency power source (engine generator or dispatchable generator) is included in this scope of work.
7. At time of scoping, no Operational Technology equipment (firewalls, security servers, or similar) are included in the design as integration with existing system is expected. Operational Technology hardware and software can be included in the project as an additional service.

Permitting and Coordination

1. Permitting and coordination is limited to the permit application packages, approvals, and coordination listed in the scope of work; additional permits, approvals, consultations, studies, or documentation required by agencies constitute a change in scope and will be covered under a change order.
2. Jacobs will prepare electronic copies of all design plans, engineering plans, and the materials and information need to support electronic preparation, delivery, and review of application packages using available survey and design information. Preparation of new survey, title reports, legal descriptions,

easement documents, or record plats constitute a change in scope and will be covered under a change order.

3. All deliverables will be subject to one round of District review. The District will provide one consolidated, deconflicted round of comments on permit application narratives, forms, and supporting materials. Jacobs will complete one round of revisions to each deliverable and will resubmit to the District for review/approval to submit to the Agency.
4. All deliverables will be subject to one round of Agency review. Jacobs will submit permit application packages to agencies for review. The District will remit payment for permit application, agency review, public notice, recording, and other fees directly to agencies. Agencies will provide one consolidated, deconflicted round of comments on permit application narratives, forms, and supporting materials. Jacobs will complete one round of revisions to each deliverable and will resubmit to the District for review/approval to resubmit to the Agency. Agency permit requirements, review timelines, and conditions of approval, approval decisions, and permit issuance timelines are outside of Jacobs' control and may affect the Project schedule.
5. Wetlands and other waters are not expected based on currently available information; however, if indicators are observed during the site visit, a formal delineation may be required.
6. Permit application package and/or Land Use appeals constitute a change in scope and will be covered under a change order.

Work Approach

The project design work will be carried out using a phased design delivery approach to provide a logical and progressive completion of the design work. The phases, as described below, will be carried out sequentially. Each phase of design will include a specific list of work products and deliverables, which are identified in the individual sections. Design review workshops will be conducted with the District personnel, key individuals from the Jacobs project team and others as needed; the design review workshops will be conducted at critical design milestones as identified in the following section.

1. Design and Bid Phase Project Management

1.1. Project Management

Jacobs Project Manager (PM) and Carollo subconsultant PM will meet with the District PM throughout design of the Project to review Project progress and discuss upcoming work activities (weekly conference calls, typically 30 minutes duration), with written notes issued following such calls.

Jacobs PM shall prepare, implement, monitor and update the Project Management Plan as required throughout the Project. PM will manage, administer, coordinate, and integrate work of the team as required to deliver the Project within budget and on schedule. On a monthly basis, PM will prepare and submit to the District PM a brief cost and schedule status report and updated summary.

Assumptions

- The report shall include a narrative description of progress to-date, actual costs for each major task, estimates of percent complete and potential cost variances.
- Jacobs PM will maintain project action item and decision logs.

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- Jacobs PM will prepare agenda for Monthly Project briefing with District PM Capital Program Manager.
 - Topics of monthly briefings will include status of major work underway, permit status, scope changes, schedule, and budget as well as topics mutually determined by the Project Management team.

Deliverables

- Invoice and monthly report, monthly management briefings
- Action item and decision logs from meetings
- Weekly and Monthly Briefing meeting notes
- Monthly project report with narrative and invoice.

1.2. Project Management Plan

The purpose of this task is to prepare the detailed Project Management Plan (PMP) that will be used during the execution of this project work. Specific elements of the plan will include:

- Project Instructions: Define District, and Jacobs project organization, communication, project cost control procedures, document control, health and safety considerations, change management and other project management requirements.
- CAD/CAE Standards: Define CAD/CAE software standards, graphic standards, file naming conventions and standards, revision/iteration control and other graphic standards.
- Quality Management Plan: Jacobs will use its standard continuous quality control process. The QMP will define the quality control process as customized for this project.
- Project Health and Safety Plan: Jacobs will develop a health and safety plan to apply to all employees working on this project. It will address safety in the office and during site visits and include any requirements by the District.

Assumptions

- District shall provide one copy of consolidated comments to the Draft PMP.

Deliverables

- Draft and Final PMP

1.3. Asset Data Management and CMMS Turnover Framework

Jacobs will populate and maintain a project Asset Register in the District-provided template format, populating design-known fields (classification, type, plant/area/system, location, design size/capacity, intended service life, and drawing/P&ID references) as the design develops through 90%, and 100% submittals. All major equipment (process, electrical, building services/HVAC), and instruments will be included. For major equipment procured early under the EWA packages Jacobs will capture supplier-furnished asset data (manufacturer, model, size/capacity, and nameplate data) from the EWA submittals reviewed under the EWA Submittals task as that data becomes available during design, so that selections locked in through early procurement are reflected in the register rather than deferred.

Jacobs will incorporate the asset data and record-drawing linkage requirements into the Division 1 specifications (Section 01 78 23, Operation and Maintenance Data, and related sections), including a true equipment installation-date field, so that Contractor-furnished submittal and installation data flows into the Engineer-maintained register and so that each maintainable asset can be linked to its specific record drawing(s) in the CMMS rather than to the full record set. Parallel data-submittal language will be included in the EWA procurement specifications so that early-procured equipment carries the same asset data and tagging requirements.

Assumptions

- The District will provide the Lucy asset data import template and its current asset hierarchy and tag-naming standard.
- The District will determine the record-drawing storage location and the Lucy linkage method to be specified.
- The CM/GC will participate in the asset-data workshop after coming under contract; if the CM/GC is not yet on board when the workshop is held, asset-data delivery provisions will be confirmed with the CM/GC at onboarding.
- Construction-phase population of the Asset Register, production of record drawings, configuration of Lucy document links, and loading of asset data into the CMMS are not included in this scope and are anticipated to be scoped under a future construction-phase services amendment, consistent with the treatment of Record Drawings elsewhere in this scope.
- This task does not include configuration of the Lucy CMMS software itself.
- This scope does not require Jacobs to access Lucy software, rather District will provide all Lucy linkage requirements.

Deliverables

- Asset Register in District template format, updated 90%, and 100% submittals.
- Division 1 specification language establishing Contractor asset data and record-drawing linkage requirements.
- Workshop agenda, materials, and summary.

1.4. Project Funding and Financing

Consultant will prepare summary of potential grant funding and other funding opportunities to fund the landfill remediation facilities. This will include USEPA Brownfield Development grants. Review analysis and recommendations with District in workshop.

Deliverables

Initial draft and final grant and financing alternatives memorandum (BODR phase) . Workshop agenda and materials.

Assumptions

- an initial evaluation will be performed during the Basis of Design Phase

2. Permitting and Coordination through 100% Design Phase

Jacobs will support permitting and coordination required to advance the Project through the 100% design phase. Permitting support will include development of a permitting strategy, coordination with agencies, preparation of permit application packages, review of District and agency comments, and tracking of permit status and action items.

The Project is anticipated to require coordination with the City of Oregon City (City) for land use, site development, floodplain, grading, drainage, and build permit approvals. The Project is also anticipated to require coordination with ODEQ for air quality permitting, construction stormwater coverage, and landfill-related regulatory approvals associated with work over or near the old landfill.

No federal nexus is assumed at the time of scope development. If federal funding, SRF funding, federal permits, or other federal actions are later identified, the optional tasks in Tasks 2.1 Cultural Resource Investigation and 2.2 Biological Resources constitute a change in scope and will be covered under a change order. The scope does not include preparation of environmental compliance documentation to satisfy the Federal Cross-Cutting Authorities Documentation. An Optional Task has been provided to prepare Federal Cross-Cutting Authorities Documentation.

Assumptions:

- Design milestones include 10%, 30%, 60%, 90%, and 100% design phases, with the GMP Design Submittal occurring at 100% design phase.
- Access to the Area of Potential Effects / Biological Study Area / Proposed Action Area will be provided by the District for field reconnaissance site visits.
- The Project is limited to Clackamas County Taxlot Numbers 22E20 00503, 22E29 01509, and 22E20 ROADS (i.e., Clackamas County Department of Transportation and Development ROW on S. Agnes Ave). The District will obtain right-of-entry permission/letter from Clackamas County Department of Transportation and Development for field reconnaissance site visits on S. Agnes Ave. ODOT ROW is not included in the Proposed Action Area.

2.1. Cultural Resource Investigation – Optional Task

This task is optional and would be authorized if a federal nexus (e.g., federal funding tied to a State Revolving Fund (SRF), or a federal permit) is determined to be used by the District. Alternatively, if no federal nexus is identified, the archaeological component of this task is recommended as a “due diligence” identification effort to identify significant archaeological resources (ORS 358.905-358.961) or human remains (ORS 97.740-97.760).

If a federal nexus is identified during the permitting process, the lead federal agency will require any potential applicant to comply with Section 106 of the National Historic Preservation Act, which requires the agency to consider the effects of an undertaking to historic properties.

If authorized to proceed, Jacobs will identify Area Tribes that may have an interest in the Project by contacting the Legislative Commission on Indian Services. Jacobs will provide a brief project description and map to Area Tribes and request information on resources of concern to the tribes.

Following tribal outreach, Jacobs will conduct a combined archaeological and built environment review that includes the following:

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- A review of Oregon State Historic Preservation Office OARRA and historic sites Database;
 - A review of historic maps and historic aerial imagery of the Area of Potential Effects;
 - A field reconnaissance site visit;
 - Archaeological monitoring of geotechnical investigations;
 - Documentation and NRHP evaluation of the Old Rossman Landfill on an archaeological site form; and
 - Recommended Finding of Effect or Recommendations for additional field reconnaissance site visits or documentation of identified archaeological or built environment resources as applicable.

The results of the review and archaeological monitoring will be documented in a combined built environment and archaeological resources report meeting the Oregon SHPO Guidelines for Reporting. The report will be shared with Area Tribes and Oregon SHPO for review and comment. The results of the identification effort and comments from the Area Tribes and Oregon SHPO will be incorporated into Federal Cross-Cutting Authorities Documentation. Any additional work recommended will be covered under a change order.

Assumptions:

- No work will be done on this task without written authorization.
- Up to four hours of virtual meetings with the District and agencies over the duration of the task.
- No more than four Area Tribes will be contacted via email and one follow-up call. Formal government-to-government consultation, if required, will be conducted by the lead agency.
- The field reconnaissance site visit will be conducted of the Area of Potential Effects shown in Figure 1 (which falls within City and Clackamas County Department of Transportation and Development ROW on S. Agnes Ave).
- The field reconnaissance site visit will consist of one 8-hour site visit with one Jacobs cultural staff (including travel to and from the site) and will be conducted of the Area of Potential Effects shown in Figure 1 (which falls within City and Clackamas County Department of Transportation and Development ROW on S. Agnes Ave).
- Archaeological monitoring of geotechnical sampling will not exceed five (5) 10-hour field days in duration.
- A change in the Area of Potential Effects (Figure 1) constitutes a change in scope and may require an amendment.
- The site visit will occur before geotechnical investigations.
- If a federal nexus is identified, the Old Rossman landfill will require documentation on an archaeological site form.
- Built environment resources are not anticipated to require formal documentation based on currently available information; however, if resources requiring formal documentation are identified during the site visit, additional documentation constitutes a change in scope and will be covered under a change order.

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- The cultural report will be subject to one round of Area Tribe and Oregon SHPO review. Area Tribes and Oregon SHPO review timelines are outside of Jacobs' control and may affect the Project schedule.
 - Labor and expenses related to artifact curation are excluded from this scope.

Deliverables:

- Draft and Final Cultural Resources Baseline Report; and
- GIS Data Files.

2.2. Biological Resources – Optional Task

This task is optional and would be authorized if SRF or other Federal Funds are determined to be used by the District and biological resource documentation is required to support Federal Cross-Cutting Authorities Documentation.

This task includes a biological resources assessment to support preparation of the Federal Cross-Cutting Authorities Documentation consistent with ODEQ State Environmental Review Process (SERP) requirements. The assessment will address biological resources including wetlands and other waters, vegetation communities, wildlife habitat, and special-status species (including nesting birds), and will be documented in a format suitable for incorporation into the Federal Cross-Cutting Authorities Documentation (e.g., wetlands/waters and Endangered Species Act sections).

The assessment will include (1) delineation of wetlands and other waters to support agency jurisdictional determination (JD), and (2) preparation of a Biological Evaluation (BE)-level analysis to support Endangered Species Act (ESA) compliance, as appropriate to available data. This information is intended to support compliance with state and federal requirements.

Jacobs will perform the following:

- Conduct a desktop review of available biological resource information (e.g., aerial imagery, mapped wetlands, species lists, and agency databases such as U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), Oregon Biodiversity Information Center (ORBIC), and National Wetlands Inventory (NWI)).
- Conduct field surveys within the BSA to:
 - Delineate wetlands and other waters in accordance with the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual and applicable Regional Supplement;
 - Characterize vegetation communities and wildlife habitat;
 - Assess habitat suitability for special-status species; and
 - Document general wildlife use and other natural resource features.
- Prepare a Wetland Delineation Report suitable for submittal to USACE and Oregon Department of State Lands (DSL) to support a JD.
- Compile mapping and documentation (e.g., wetland boundaries, data sheets, and figures) consistent with Federal Cross-Cutting Authorities Documentation requirements.

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- Conduct a habitat-based effects analysis and prepare a BE documenting potential effects to ESA-listed species, designated critical habitat (DCH), and essential fish habitat (EFH), including effect determinations (e.g., No Effect, May Affect/Not Likely to Adversely Affect), consistent with SERP guidance.
 - Identify potential regulatory pathways associated with observed resources, including potential need for wetlands/waters permitting and ESA consultation.
 - Prepare a BE documenting methods, findings, wetland delineation results, and ESA effects analysis suitable for incorporation into the Federal Cross-Cutting Authorities Documentation.

Assumptions:

- No work will be done on this task without written authorization.
- The Biological Study Area is assumed to be consistent with Figure 1 and represents the Area of Potential Effects / Proposed Action Area, including an approximately 50-foot buffer to account for potential design refinements, construction access, and indirect effects.
- Field survey assumes one delineation-level field visit (up to 10 hours) by two Jacobs biological staff; additional field or seasonal surveys are not included.
- USACE and DSL review timelines and JD issuance are outside Jacobs' control and may affect the Project schedule.
- The BE will be based on existing information and reconnaissance-/delineation-level field observations and will not include protocol-level species surveys.
- Formal ESA consultation (USFWS or National Marine Fisheries Service [NMFS], preparation of Biological Assessments, or agency concurrence letters constitute a change in scope and will be covered under a change order..
- Clean Water Act (CWA) Section 404/401 and/or Oregon Removal-Fill permitting constitute a change in scope and will be covered under a change order.
- If field surveys identify the presence or potential presence of ESA-listed species or suitable habitat requiring protocol-level species surveys, additional analysis, or formal consultation, such work constitutes a change in scope and will be covered under a change order.
- Wetlands and other waters may be present; delineation results will determine regulatory extent and potential permitting implications.
- Tree inventory (location, type, diameter) and construction tree protection plan is included in the survey and design tasks.
- If federal funding triggers additional requirements beyond those assumed (e.g., formal ESA consultation, expanded Area of Potential Effects / Biological Study Area / Proposed Action Area as shown in Figure 1, or agency-directed analysis), such work constitutes a change in scope and will be covered under a change order.

Deliverables:

- Draft and Final Wetland Delineation Report.

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- Draft and Final Biological Evaluation.

2.3. Federal Cross-Cutting Authorities Documentation (Optional Task)

This task is optional and would be authorized if SRF or other Federal Funds are determined to be used by the District. ODEQ's SERP requires applicants to demonstrate compliance with applicable federal environmental statutes, regulations, and executive orders addressing cultural resources, wetlands, floodplains, farmlands, coastal resources, wild and scenic rivers, endangered species, essential fish habitat, air quality, and sole source aquifers. This optional task includes desktop review, agency coordination, documentation of findings, and preparation of materials suitable for incorporation into the Federal Cross-Cutting Authorities Documentation. ODEQ's guidance indicates that the District is responsible for consulting with appropriate federal, state, local, and Tribal agencies and providing sufficient documentation for ODEQ to support its environmental determination.

Jacobs will perform the following:

- Review available Project information and publicly-available databases and mapping to identify Federal Cross-Cutting Authorities that may apply to the Project and prepare an initial compliance approach identifying anticipated agency consultation requirements, required maps/forms/technical documentation, review timelines (which are outside of Jacobs' control and may affect the Project schedule), and potential environmental review pathways;
- Review of historic and cultural resources (Optional Task 2.1);
- Review of biological resources, including ESA-listed species, designated critical habitat (DCH), and essential fish habitat (EFH), and prepare a BE documenting potential effects (Optional Task 2.2);
- Review Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) local floodplain development requirements, and available floodplain information, coordinate with the City Floodplain Administrator (Task 2.4.4), and determine if the Project is located or may affect a 100-year or 500-year floodplain;
- Review existing land use plans, zoning, disturbed soil areas, propose improvements, important farmland, and Farmland Protection Policy Act (FPPA) requirements and applicability;
- Review Coastal Zone Management Act (CZMA) consistency requirements and applicability;
- Review National Wild and Scenic Rivers (NWSR) applicability;
- Coordinate with the District, CM/GC, and ODEQ to review construction and operational impacts related to air emissions, dust, odors, nonattainment or maintenance areas, transportation access, roadway or airport conflicts, and noise-sensitive receptors;
- Coordinate with the District and ODEQ to confirm Air Contaminant Discharge Permit (ACDP) applicability, discuss anticipated odor control improvements, align on the ACDP modification pathway, and prepare and submit an ACDP application packages to ODEQ (online) (Task 2.4.6);
- Review Safe Drinking Water Act (SDWA) and Sole Source Aquifers (SSA) applicability;
- Prepare consultation letters, email correspondence, transmittal materials, and supporting maps for applicable agencies and track responses; and

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- Prepare Draft and Final Federal Cross-Cutting Authorities Documentation, including project description, agency consultation summary, findings, required mitigation measures, outstanding items, and appendices, in a format suitable for incorporation into ODEQ SERP document.

Assumptions:

- The District and CM/GC are responsible for providing the project description, purpose and need, proposed action, existing and proposed improvements, alternatives analysis, and construction activities, access, staging, and limits. The CM/GC and Jacobs are responsible for providing the design plans (including CAD files). Jacobs GIS Professional is responsible for integrating CAD files into GIS and preparing figures showing proposed improvements. If design plans change after environmental approval, additional review, agency coordination, or public notice may be required; such work constitutes a change in scope and will be covered under a change order.
- This task is primarily based on desktop review, agency coordination, and documentation of available information. Additional field reconnaissance site visits, field surveys, investigations, modelling, permits, approvals, consultations, studies, or documentation required by agencies constitute a change in scope and will be covered under a change order.
- Coordination with U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), U.S. Environmental Protection Agency (USEPA), Oregon Department of Land Conservation and Development for CZMA consistency determination (CD), U.S. Forest Service (USFS) and Bureau of Land Management (BLM) for NWSRs, and/or Oregon Health Authority (OHA) for SDWA and SSAs constitutes a change in scope and will be covered under a change order.
- Coordination will include ODEQ CWSRF Project Officer, Oregon Legislative Commission on Indian Services (OLCIS), Tribal Historic Preservation Officers and tribal governments, Oregon State Historic Preservation Office (SHPO), ODSL/USACE, City Floodplain Administrator, City Planning Department, City Building Division, USFWS, NMFS, and ODEQ.
- Jacobs will submit the Federal Cross-Cutting Authorities Documentation to ODEQ on behalf of the District. ODEQ review timelines and public comment periods are outside Jacobs' control and may affect the Project schedule.
- Community engagement, including socio-economic conditions and environmental justice, public meetings, formal hearings, and substantive public comment responses, constitute a change in scope and will be covered under a change order.

Deliverables:

- Draft and Final Federal Cross-Cutting Authorities Documentation, including project description, affected environment, environmental consequences, agency consultation, findings, required mitigation measures, outstanding items, and figures.

2.4. Permitting and Coordination

Jacobs will provide permitting and coordination support described as follows:

2.4.1. Permitting Strategy Memorandum

Jacobs will monitor status of all permits and report such status to the District. This will include attendance, as needed, at meetings.

Jacobs will prepare a Permitting Strategy Memorandum with an Environmental Compliance and Permitting Matrix (including a list of required permits, regulations, and contingencies). The Permitting Strategy Memorandum will identify:

- the relevant regulatory agencies permits and processes;
- anticipated timeframe to obtain the permit/review/approval;
- fees associated with each permit/review/approval; and
- responsible parties and contingencies.

The Permitting Strategy Memorandum is not a regulatory requirement but is used as a communication and permit tracking tool between Jacobs and the District. As the Project and construction strategy are further developed, the Permitting Strategy Memorandum will be updated.

Assumptions:

- Project duration from NTP to 30% Design Phase will be 12 months.
- Meetings with the District will occur biweekly and be 30 minutes in duration.
- Meetings with the District will also include four (4) 2-hour meetings at the 10%, 30%, 60% and 100% design phases.
- No federal permits or federal funding; no federal nexus (unless otherwise covered under a change order, or if Optional Tasks 2.1 and/or 2.2 are authorized).
- Permits that are responsibility for the CM/GC will be documented but not delivered by Jacobs.

Deliverables:

- Initial Permitting Strategy Memorandum;
- Updated Permitting Strategy Memorandum at 30%, 60%, and 100% design phases; and
- Bi-Weekly permit status update, including permit name, responsibly party, current status, upcoming action, required decision, due date, agency reviewer, and outstanding item log. Submit bi-weekly via email.

2.4.2. Pre-Application Conference

The Project is anticipated to require City Site Plan and Design Review approval (which is a City Type II permitting process).

The preapplication conference allows the project team to meet with representatives of the relevant City departments to identify issues and requirements associated with the proposed development. The pre-application meeting will be conducted remotely. At the preapplication meeting, City staff will confirm

permitting requirements associated with the Project. Permit exemptions will be confirmed (including for Critical Aquifer Recharge, Geologic Hazard Overlay District [GHOD], and NROD).

Prior to the preapplication meeting, Jacobs will:

- Prepare the Draft Land Use Application Form to constitute a pre-application meeting request.
- Prepare a narrative describing the Project's applicable planning and development code provisions and document questions that the project team and District have for City staff to discuss at the preapplication conference.
- Submit the Draft Land Use Application Form to the District and incorporate comments.
- Compile and submit the final application submittal to the City.
- Coordinate the scheduling of the preapplication conference with the project team.
- Prepare for and participate in a one- (1-) hour preapplication conference.

Assumptions:

- The Project will not extend into the NROD. If the City determines that an NROD Permit modification or separate NROD review is required, such work constitutes a change in scope and will be covered under a change order.
- A Type III process (including a Conditional Use and/or Variance involving a public hearing) constitutes a change in scope and will be covered under a change order.
- The pre-application conference meeting will consist of one 1-hour meeting with one Jacobs Senior Planner and one Jacobs Floodplain Specialist. Jacobs will provide the pre-application conference summary report to the project team and District when provided by the City.
- The City will determine final permit requirements, review timelines, submittal requirements, conditions of approval, and approval decisions.
- The City will not require a Traffic Study. A Traffic Study requirement constitutes a change in scope and will be covered under a change order.
- Wetlands and waters are not anticipated based on currently available information; however, if indicators are observed during the site visit, a formal delineation may be required. The requirement to delineate wetland or waters constitutes a change in scope and will be covered under a change order.
- Tree removal and replacement plan will be covered during the Design Development Phase (Task 7).

Deliverables:

- Draft and Final Land Use Application Form; and
- Pre-application meeting materials.

2.4.3. City of Oregon City Land Use Review

The Project is located within the General Industrial (GI) zone and may require land disturbing activities within Clackamas County Department of Transportation and Development ROW on S. Agnes Ave. This zone requires that proposed land uses maintain consistency with City Municipal Code 17.36.

The Type II Site Plan and Design Review application evaluation includes a 30-day “completeness review”, followed typically by a 60-day review period. Building Permits cannot be issued until the Site Plan and Design Review is complete.

Jacobs will complete the following tasks for site-plan review compliance:

- Prepare and submit the Land Use Application Form to the City online.
- Prepare and submit the revised Land Use Application Form to the City (if required).
- Review the Site Plan and Design Review staff report and provide one round of consolidated, deconflicted comments to the City.
- Prepare a final site-plan review/final engineering application upon receiving preliminary site-plan approval. The submittal will include the transmittal, application form, and final engineering plans prepared by Jacobs.
- Prepare one revised final site-plan review/final engineering application submittal to the City if determined necessary by the City during the fully complete application review process.
- Jacobs will provide final conditions of approval to the project team and District.
- The Floodplain Review documentation will be submitted with the Land Use Application Form.
- If street tree removal is required, Jacobs will conduct a field reconnaissance site visit consisting of one 8-hour site visit with one Jacobs biological staff (including travel to and from the site) will be conducted of the Biological Study Area shown in Figure 1 (which falls within City and Clackamas County Department of Transportation and Development ROW on S. Agnes Ave) to supplement the landscaping plan.

Assumptions:

- Jacobs will provide the following as required by the City:
 - Preliminary Site Plan (site boundary plan showing all physical existing and proposed improvements, property setbacks, and feature setbacks);
 - Engineering development plans (Task 5);
 - Soils analysis report or geotechnical data report (Task 4.6);
 - Stormwater design report (Carollo) see Task 7; and
 - Archaeological studies, if required by the City and if authorized by the District under optional Task 2.1 Cultural Resource Investigation.
- Jacobs will provide the preliminary and final engineering plans.

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- Based on currently available information, aquifer recharge areas, wetlands and waters, and riparian areas are not anticipated within the Area of Potential Effects / Biological Study Area / Proposed Action Area as shown in Figure 1.
 - City Planning Staff will generate a Pre-Application Conference meeting summary.
 - 16 hours are budgeted for a certified arborist to travel to the site to conduct a reconnaissance-level tree assessment within the Biological Study Area and incorporate the findings in the design plans.
 - The field reconnaissance site visit will be conducted of the Area of Potential Effects shown in Figure 1 (which falls within City and Clackamas County Department of Transportation and Development ROW on S. Agnes Ave).
 - This application does not include a variance, zoning change, or Type III/IV land use process involving a public hearing.
 - This scope does not include work associated with an appeal to the Land Use Board of Appeals.

Deliverables:

- Draft Site-Plan Review application submittal;
- One round of consolidated, deconflicted comments on City Draft Preliminary Site-Plan Review staff report;
- Final Site-plan review application submittal; and
- One revised final site-plan review application and submittal (if required).

2.4.4. City of Oregon City Floodplain Development Permit Application Package

A Floodplain Development Permit is anticipated for the Project associated with construction and development in the Flood Management Overlay District (FMOD), triggering the need for a Floodplain Development Permit per City Municipal Code OCMC §17.42.080.D.1. The Willamette River is designated as a Zone AE, Special Flood Hazard Area (SFHA), meaning the 1% annual chance event flood elevations are defined and a regulatory floodway is delineated. The site is located outside the floodway, in the floodplain fringe. The Floodplain Development Permit application package will include a Flood Habitat Mitigation Assessment per City Municipal Ordinance §17.42.080.E to evaluate floodplain function and identify appropriate mitigation to meet the no net loss standards outlined in the 2016 NMFS Biological Opinion. This process will follow the FEMA guidance document Floodplain Mitigation Assessment Regional Guidance for Oregon (FEMA 2024). The Floodplain Development Permit application package will be submitted and reviewed in conjunction with City land use permits.

For the Floodplain Development Permit application package, Jacobs will prepare the engineering application plans, no net rise analysis, technical studies, and application submittal form and submit the application to the City.

Assumptions:

- Jacobs will prepare the engineering application plans and City-furnished Floodplain Development Permit application forms.

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- Hydraulic modelling is limited to the no net rise analysis required for the Floodplain Development Permit. Preparation of new effective hydraulic model updates, CLOMR/LOMR modelling, floodway revisions, or FEMA map revision packages constitutes a change in scope and will be covered under a change order. If the Project requires a Conditional Letter of Map Revision, such work constitutes a change in scope and will be covered under a change order.
 - Jacobs will prepare the Flood Habitat Mitigation Assessment.
 - 40 hours are budgeted for a biologist to support the Floodplain Habitat Mitigation Assessment.
 - Jacobs floodplain staff to participate in the pre-application meeting (included in Task 1.3.1) and up to two (2) follow-up calls (1 hour each) with the City Floodplain Administrator.

Deliverables:

- Meeting summaries;
- Draft and Final Floodplain Development Permit application; package and;
- Draft and Final Flood Habitat Mitigation Assessment Memorandum.

2.4.5. City of Oregon City Building, Grading and Erosion Control, and Drainage Permit Application Packages

A Building Permit application package will be required for the proposed site improvements. Jacobs will prepare and submit the required Building Permit application packages to the City Building Department online. Jacobs will prepare structural, electrical, and mechanical calculations in support of the Building Permit Application Packages.

Jacobs will use the District's redline mark-ups of the Building Permit application package to revise the 100% design plans, and the revised plans will be resubmitted to the City for final approval.

Jacobs will address City Building Permit application package review comments with updates to 100% design plans and the revised plans will be resubmitted to the City for final approval.

No demolition of existing buildings is anticipated.

City Grading and Erosion Control Permits are required for grading and paving activities resulting in 2,000 square feet of surface area in the City or more than 10 cubic yards of earth movement, and proposed site improvements will trigger Grading and Erosion Control Permits. Jacobs will prepare and submit the Grading and Erosion Control Permit application packages to the City.

A Drainage Permit will be required related to the revised site grading. A stormwater plan required for the Drainage Permit will be prepared.

Assumptions:

- Jacobs will prepare and submit Building Permit application package. This task assumes the Building Permit application package will not require design drawings to be reformatted.
- This task is an allowance because of uncertainty at the time of scoping regarding City requirements.

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- Carollo will prepare the stormwater report and grading and stormwater plans required to support the Grading, Erosion Control, and Drainage Permit application packages. Jacobs will prepare the City application forms, compile the Building, Grading, Erosion Control, and Drainage Permit application packages using Carollo-provided materials, and submit the packages online.
 - City Grading and Erosion Control Permit application packages would be produced at the 90% and 100% design phases.
 - Project meetings will not be necessary for this task.

Deliverables:

- Draft and Final City Building Permit application packages; Structural and electrical calculations to support Building Permit application packages.
- Draft and Final Grading and Erosion Control Permit application packages.
- Draft and Final Drainage Permit application packages.

2.4.6. Oregon Department of Environmental Quality Air Contaminant Discharge Permit Application Packages (District task)

This task is by District. It is anticipated that District will engage a third party consultant that supports other District air permitting.

2.4.7. Oregon Department of Environmental Quality Landfill Permitting Application Packages

Jacobs will coordinate with ODEQ to support review and potential approval for the proposed remedial action. A RAWP will be submitted to the ODEQ, as detailed in Section 2.5.4, for review. Jacobs will conduct a meeting with ODEQ staff to discuss the conceptual ideas and identify ODEQ requirements, if any.

Assumptions:

- Written approval from the ODEQ is required, and no additional permitting to perform the remedial action will be required.
- One virtual meeting with ODEQ staff will be attended by up to 3 Jacobs employees.

Deliverables:

- Meeting minutes.

2.4.8. Oregon Department of Environmental Quality 1200-C Construction Stormwater Permit Application Packages

No work on this task will proceed except on written authorization from District. District intends to notify Consultant at time of 30% design if District will perform this task.

This subtask will support construction stormwater permitting for Project construction exceeding one acre of soil disturbance and includes preparation and submission of an ODEQ 1200-C Construction Stormwater

Permit application packages for construction activities exceeding one acre of soil disturbance. Construction activities with less than one acre of disturbance do not trigger a 1200-C Construction Stormwater Permit.

The task includes preparation of a Notice of Intent (NOI) application through DEQOnline to apply for coverage under the statewide 1200-C Construction Stormwater Permit. The District or CM/GC will be the formal applicant on NOI; Jacobs can assist and support preparation of the materials and information needed for this effort and be a Registered Agent/Consultant on behalf of the District or CM/GC in DEQOnline.

An Erosion and Sediment Control Plan (ESCP) will need to be developed in accordance with ODEQ requirements to identify discharge points and establish best management practices to minimize water quality impacts. The 100% design plans will be used to calculate quantities of soil disturbance/land impact to develop the ESCP and prepare an erosion and sediment control plan.

Construction specifications sections related to the 1200-C Construction Stormwater Permit implementation for the CM/GC will be prepared in conjunction with 100% design plans and preparation of construction contract documents.

Assumptions:

- Sufficient time to complete the 1200-C NOI process and receive a 1200-C Construction Stormwater Permit coverage letter will be given prior to the start of construction. This process includes a 30- to 60-day public comment period through ODEQ.
- This task does not include required 1200-C Inspections, which include inspections at the beginning of the Project once BMPs have been installed and before clearing/grubbing/soil disturbance work has occurred (per 1200-C Construction Stormwater Permit requirements), and will occur once every 14 days (biweekly) and post storm (>0.25" precipitation) throughout the duration of the construction activity until final stabilization of soils is achieved and all construction activity is complete, including removal of all construction equipment and materials.
- This task does not include activities that are required during construction, including reporting and permit termination.
- Annual 1200-C Construction Stormwater Permit renewal and payment of renewal fees is the responsibility of the CM/GC or District. Note that ODEQ will not issue a 1200-C Construction Stormwater Permit coverage letter until all required 1200-C Construction Stormwater Permit fees have been paid.

Deliverables:

- One Draft and one Final ODEQ 1200-C Construction Stormwater Permit NOI application;
- One Draft and one Final ESCP plan will be prepared using the 100% design plans for the Project;
- Draft and Final specifications sections related to 1200-C and/or Erosion Control specifications for the construction contract; and
- Assistance to the District or the CM/GC to formally submit a NOI application for the Project through the DEQOnline portal.

2.5. Landfill Remediation Design and Permitting Coordination

2.5.1. Remediation Coordination (Coordination with the District)

It will be important to determine the extent of landfill remediation needed to implement the improvements contained in the Project versus what portion the District wants to delay for future decisions. Jacobs will review the available documentation related to the existing Prospective Purchaser Agreement (PPA) and landfill closure and will engage with the District to address the associated requirements. A PPA dated June 20, 2003 (ODEQ No. 00-05-1238]) is currently in place between the District and the ODEQ. Initially, Jacobs will work with the District to identify the portions of the PPA that will be implemented at this time and those that will be proposed to be deferred for potential future implementation as appropriate.

Jacobs' scope includes coordination with the District to confirm the applicability of the conditions in the PPA and the District's desires for the site based on the current conditions, identifying ongoing or outstanding compliance requirements, and supporting Project decisions that are informed by the liability protections and constraints defined in the PPA. The objective of this subtask is to support ODEQ review and approval of a revised RAWP.

Deliverables:

- Meeting Agendas and notes which summarize PPA/landfill closure requirements following meeting with District, decision log that identifies remediation elements to be implemented/deferred.

2.5.2. Remediation Coordination (Coordination with Oregon Department of Environmental Quality)

Jacobs will provide environmental coordination and regulatory support for the proposed site improvements located over the approximate boundary of the Old Landfill as shown in Figure 1. This includes preparing and submitting an Engineering Design Criteria (EDC) Technical Memorandum (Section 2.5.3) and a revised RAWP (Section 2.5.4) to the ODEQ and developing supporting civil design documents (Sections 2.5.5 and 2.5.6) needed for regulatory compliance and long-term protection of the landfill system. To complete this work, Jacobs proposes to engage with ODEQ throughout the process to facilitate streamlined approval. This engagement will consist of the following meetings and deliverables:

- Draft EDC Technical Memorandum (figure and bullet summary) based on the 10% design plans. Submitted to ODEQ approximately 2 weeks in advance of the initial introduction meeting to establish key Project approach, parameters, and solicit regulatory input and needs;
- Final EDC Technical Memorandum produced following the completion of the 30% design plans, documenting confirmed regulatory requirements, site constraints, and design criteria, and, submitted to the ODEQ for comment;
- Incorporation of comments into a revised RAWP that includes the 90% design plans for agency review and approval; and
- Three total meetings, one after the EDC Technical Memorandum submittal and one after the Draft RAWP, plus one additional meeting as needed to facilitate review and approval. Jacobs assumes

that the meetings will be primarily virtual, but up to two Jacobs team members may attend in person if available and desired by ODEQ.

Deliverables:

- Meeting notes.

2.5.3. Engineering Design Criteria Technical Memorandum

Jacobs will prepare a draft EDC Technical Memorandum based on the 10% design plans and a final EDC Technical Memorandum following completion of the 30% design plans. The final EDC Technical Memorandum will establish the regulatory framework, design assumptions, and site constraints that will guide development of the 90% design plans and revised RAWP.

The EDC Technical Memorandum will include, at a minimum, the following elements:

- Review and verification of applicable ODEQ requirements, incorporating regulatory feedback and identifying design criteria, limitations, and applicable information relevant to development over the closed landfill;
- Documentation of District-provided constraints and preferences, including confirmation of areas where work is permitted, conditionally allowed, or restricted/off-limits;
- Identification of site access restrictions, approved staging and laydown areas, temporary construction zones, and constructability considerations feasible at the Final (30% design plans) and 60% and 90% design plans; and
- Documentation of key design assumptions, constraints, and criteria related to landfill cover protection, excavation limits, gas mitigation measures, drainage, slope stability, and long-term and interim cover performance.

Assumptions:

- Jacobs will conduct up to five design and/or status meetings with the District and ODEQ staff. These meetings are planned as 1-hour virtual meetings and will be used as a touchpoint to update ODEQ on design status and, if necessary, to get ODEQ input on design decisions that may arise as the Project progresses. Jacobs' PM, DM, and up to two additional staff will attend each of these meetings.
- The design will be based on:
 - Waste excavation and clean closure will be for the area shown on the EDC Technical Memorandum figure;
 - Excavation of petroleum-contaminated soil area and excavation and removal of this soil and relocation on-site;
 - Waste excavated for the Project can be relocated on site in an ODEQ-approved location. If the District or ODEQ requires to haul the material offsite for disposal, additional characterization, coordination, documentation, and design revisions may be required. If require, such works will constitute a change in scope and will be covered under a change order; and

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- Testing of the excavated waste will not be required if placed on site, but if hauled to an alternate disposal location, it will conform to the waste acceptance criteria of that offsite disposal facility.

Deliverables:

- Draft (10% design plans) EDC Technical Memorandum included in Basis of Design Report; and
- Final (30% design plans) EDC Technical Memorandum.

2.5.4. Remedial Action Work Plan

Jacobs will prepare a revised RAWP to support the work located over the closed landfill and to obtain approval from the ODEQ. The RAWP will be developed in coordination with the EDC Technical Memorandum and contain the 90% design plans.

The RAWP will focus on areas affected by the proposed structures and utilities and will be limited to the defined Project boundaries. The RAWP will document compliance with applicable regulatory requirements, incorporate ODEQ feedback obtained during regulatory coordination, and support long-term protection of the remaining landfill cap and systems.

As part of the RAWP, Jacobs will:

- Evaluate landfill cover needs in areas between limits of proposed excavation and existing cover. This assumes that the extent of site improvements for both structures and utilities is clearly defined prior to this time.
- Prepare a Material Management Plan that will include:
 - Procedures for handling cover soil, waste materials, contaminated soil, and hazardous waste;
 - Procedures for performing visual inspections and/or potholing, trenching, or excavations of waste material; and
 - Develop a sampling and analysis plan to characterize excavated materials and guide reuse or disposal decisions, as applicable.
- Prepare the RAWP.
- Submittal of the 90% design Old Rossman Landfill Remediation contract documents.

Assumptions:

- Jacobs will coordinate with ODEQ throughout the RAWP preparation and review process, including up to three meetings to review design intent, regulatory requirements, and necessary modifications. A 30 day DEQ review period is assumed for the draft RAWP.
- Limits of waste are defined in previous URS documentation and will serve as the basis for RAWP development and associated design work.
- Passive venting with vapor barriers will be sufficient for Landfill gas (LFG) mitigation.

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- ODEQ review of the revised RAWP will not require other areas to be remediated, capped, excavated, or treated. Additional ODEQ requirements constitute a change in scope and will be covered under a change order.
 - The RAWP is limited to areas of proposed work and does not include areas outside the defined Project boundaries.
 - If the petroleum contaminated soil area is encountered, cleanup levels for the sampling plan will be based on the cleanup levels established in the URS Remedial Action Plan.
 - Up to three ODEQ coordination meetings (virtual or in-person) are included.

Deliverables:

- Draft Revised RAWP (90% design plans); and
- Final RAWP (100% design plans).

2.5.5. 30% and 90% Design Old Rossman Landfill Remediation

Jacobs will prepare 30% and 90% Contract Documents for the proposed work over the closed landfill in accordance with the EDC Technical Memorandum, RAWP, and applicable ODEQ requirements.

30% Design Drawing Set

Jacobs will have design responsibility for the drawings listed in Attachment A Exhibit 1 and will prepare draft 30% design plans. The 30% design plans will illustrate the overall design approach, layout, and preliminary dimensions and will be suitable for regulatory input and confirmation of design direction.

As part of the design set, Jacobs will:

- Prepare a supporting civil plan set, including grading, stormwater, floodplain compliance, landfill cover restoration, drainage, and erosion control applicable to the RAWP.
- Develop drainage, slope stability, and erosion control drawings and specifications to maintain remaining landfill cap integrity and prevent moisture infiltration into the waste mass.

Assumptions:

- One virtual design review meeting will be conducted with Jacobs' PM, DM, and up to two technical resources.
- Jacobs will respond to one round of consolidated comments and prepare 30% design plans.
- The 30% design plans will consist of approximately 15 sheets.
- Jacobs will prepare a preliminary List of Specifications anticipated for the 90% design phase.

Deliverables:

- Conceptual (30% design plans) supporting the EDC Technical Memorandum.

90% Design Drawing Set

Jacobs will prepare 90% design plans and specifications supporting the RAWP set that incorporates:

- Approved EDC;
- ODEQ and District feedback received during earlier coordination; and
- Requirements necessary to support preparation and submittal of the RAWP.

The 90% design plans will be developed to define grading, landfill cover restoration, stormwater management, drainage, erosion control, access, staging, and construction limits, and to demonstrate compliance with regulatory and design criteria established in the EDC.

Assumptions:

- The 90% design plans will serve as the basis for the RAWP and associated permitting documentation.

Deliverables:

- 90% design plans and technical specifications supporting the RAWP.

2.5.6. 100% Design Old Rossman Landfill Remediation

Jacobs will finalize the 100% Bid-Ready Contract Documents for the proposed work over the closed landfill in accordance with the EDC Technical Memorandum, RAWP, and applicable ODEQ requirements.

- Prepare 100% Contract Documents based on feedback from the District and ODEQ.

Assumptions:

- No bid alternates will be prepared.
- Bid form is anticipated to include both unit price and lump sum pay items.

Deliverables:

- 100% Contract Documents. (Drawings, Specifications).

2.6. Community Engagement

This task is an allowance for Jacobs to provide support only as requested by the District. Additional engagement support beyond the allowance will constitute a change in scope and will be covered under a change order.

Assumptions:

- No agency mandated community outreach.
- No agency mandated Tribal consultation.
- Jacobs would support but not lead community engagement activities.

Deliverables:

- Meeting summaries; and
- Meeting/engagement content such as draft public notices and public involvement materials, as requested.

3. CM/GC Contracting Support (This task is deferred and may be negotiated in the future, by Amendment)

4. Basis of Design Report and Project Definition (10% Deliverables)

The purpose of this task is to establish the basis of design for the proposed wet weather treatment facilities. Work under this task includes establishing the project goals, design criteria, validating the selected treatment processes, selection of the preferred flow split and process control strategy, and developing the layout of the wet weather treatment facilities to best meet the District's goals. Task 4 includes the following subtasks:

- Design Criteria and Technologies
- Hydraulic Evaluation and Control Strategy
- Site Layout and Phasing
- Odor Control Evaluation
- Electrical Power System Evaluation
- Geotechnical Investigation
- Site Topographic Survey, and Boundary Survey
- Cost Estimate and Implementation Strategy
- Basis of Design Report

4.1. Design Criteria and Technologies

The purpose of this task is to confirm the design criteria and performance requirements of the proposed wet weather treatment facilities, validate the treatment process selection, and develop the key design concepts of the proposed wet weather treatment facilities. Consultant will perform the following activities under this task:

- Collaborate with the District to establish project objectives and goals and define District design criteria and standard products.
- Review current and future regulatory environment. Identify governing wastewater rules, codes, and industry standards for design standards.
- Confirm design flowrates, influent and effluent water quality, and redundancy requirements.

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- Identify the site area that is available for new facilities and confirm site constraints. Review current process operations and identify potential operational and maintenance constraints for the proposed facilities.
 - Prepare for and facilitate the Kick-off Workshop to introduce the team, review the Project Management Plan, and establish the protocols and design criteria to be carried forward for in the development of the basis of design.
 - Develop conceptual process flow diagrams (PFDs), equipment sizing, relative footprints, advantages and challenges, and relative capital and O&M cost comparisons of process alternatives for screening, high-rate clarification, and disinfection. Collaborate with the District to select the preferred processes.
 - Review District procurement policies and identify technology and equipment vendor alternatives for the selected processes.
 - Facilitate and attend equipment vendor review and site visits. Prepare tour/review summary document that identifies apparent consensus decision on major equipment vendors to carry forward in design.
 - Develop preliminary hydraulic profile of the preferred treatment process and identify current and future hydraulic constraints.
 - Identify preliminary flow splitting and flow control alternatives for routing flow from the existing plant and IT2 transfer to the proposed facilities. The alternatives include passive and/or active measures covering weirs, valves, and pumping.
 - Prepare for and conduct Design Criteria and Technologies Workshop.
 - Develop a brief Design Criteria and Technologies TM documenting key findings of this task.

Meetings

- **Kick-off Workshop.** Consultant will conduct a 4-hour workshop with key District personnel and stakeholders to obtain the pertinent information. Workshop attendees will include: Jacobs and Carollo PM, Jacobs and Carollo design manager, senior process engineering lead, and wet weather process lead.
- **Design Criteria and Technologies Workshop.** Consultant will conduct a 4-hour workshop with key District personnel to confirm design criteria, performance and operational requirements, validate treatment process selection, review preliminary site layouts, and identify hydraulic limitations and flow splitting alternatives. Workshop attendees will include: Jacobs and Carollo PMs, Jacobs and Carollo design managers, senior process engineering lead (Carollo), hydraulics lead (Carollo), and wet weather process lead (Jacobs).

Deliverables

- Draft and Final Design Criteria and Technologies TM.
- Kick-off Workshop agenda and notes.
- Design Criteria and Technologies Workshop agenda and notes.
- List of vendors, facilities tour plan, and scheduled vendor/facility appointment itineraries.

Assumptions

- Process alternatives evaluation will be performed for the two most suitable technologies identified for each of the key processes: screening, high-rate clarification, and disinfection.
- Up to three Jacobs/Carollo persons will attend up to two site visits with District staff as required for evaluation of screening, high-rate clarification, and/or disinfection technologies. Site visits are assumed to be single overnight trips in the Pacific Northwest.

4.2. Hydraulic Evaluation and Control Strategy

The purpose of this task is to develop the hydraulic profile for the new facilities and determine the optimal approach to routing and controlling flow from the IT2 Transfer and the existing plant. This task includes an alternatives evaluation of flow diversion strategies and developing preliminary control narratives for several modes of operation. This task also includes developing design features of ancillary systems (chemical building, odor control, etc.). Consultant will perform the following activities under this task:

- Develop representative wet weather events based on projections from historical flow data.
- Confirm the optimal location(s) to route flows from the existing plant to the wet weather treatment facilities.
- Establish operational scenarios, timings, and flow routing requirements to maximize treatment of peak flows.
- Detail flow control alternatives based on headloss impacts, flow measurement accuracy, relative costs, and operational and maintenance considerations.
- Develop control narratives for several modes of operation with input from District operations staff.
- Develop the 10% design hydraulic model to set critical facility elevations of the proposed wet weather treatment facilities. The model will evaluate governing startup and buildout flow scenarios.
- Produce 10% Design hydraulic profile.
- Expand the existing IT2 and IT1 REPLICA model to include the existing Tri-City WRRF facility hydraulics and controls. Dynamically validate the preferred flow control alternative using the projected wet weather event time series data.
- Establish design preferences such as indoor versus outdoor locations for equipment, local control/local disconnect preferences, the use of adjustable frequency drives, and site preferences such as access and parking.
- Confirm ancillary design features and preferences related to ancillary/support facilities such as the chemical building and odor control systems.
- Prepare Hydraulic Evaluation and Control Strategy TM summarizing the key findings of this task.
- Discuss REPLICA, and analysing IT2, IT1, and different storm events and control options.

Meetings

- **Hydraulics Evaluation and Control Strategy Workshop.** Consultant will conduct a 4-hour workshop with key District personnel and stakeholders to evaluate and select the preferred flow diversion and control alternative and confirm ancillary design features. Workshop attendees will include:

Jacobs and Carollo PM, Jacobs and Carollo design manager, process mechanical lead, and hydraulics lead.

Deliverables

- Draft and Hydraulic Evaluation and Control Strategy TM.
- Hydraulic Evaluation and Control Strategy Workshop agenda and notes.

Assumptions

- The hydraulic model will be developed in Carollo's Hydraulix® excel based software.
- No floodplain calculation will be performed, and no flood mitigation is included in this task.

4.3. Site Layout and Future Flexibility

The purpose of this task is to perform preliminary design of the facility and site layouts to best integrate them into Tri-City WRRF and align with near- and long-term goals. Consultant will perform the following activities under this task:

- Confirm the planned Tri-City WRRF buildout and discuss implications on process siting, sizing, and potential future pumping requirements.
- Identify design features that cater to future buildout of Tri-City WRRF and future potential regulatory scenarios as detailed in the Facility Plan.
- Review and confirm that the conceptual placement of all new facilities, including corridors for future potential large diameter yard piping, and electrical duct banks.
- Complete preliminary design calculations for the selected processes to further detail size/capacity of all unit treatment processes and ancillary systems.
- Develop preliminary equipment arrangements for the influent screens, high-rate treatment, and disinfection processes.
- Develop 10% design site and building layouts with coordination and input from lead discipline engineers.
- Develop potential construction phasing options for the proposed facilities.
- Identify existing and future needs for material and equipment storage that is impacted by repurposing of existing large vehicle storage building and develop and evaluate alternatives for provision of new storage, assumed to be new pole barn or pre-engineered metal building.
- Prepare for and conduct the Site Layout and Future Flexibility Workshop.
- Coordinate with lead geotechnical engineer and landfill remediation team on proposed location, excavation and construction of new facilities.
- Develop Site Layout and Phasing TM summarizing the key findings of this task.

Meetings

- **Site Layout and Future Flexibility Workshop.** Consultant will conduct a 4-hour workshop with key District personnel and stakeholders to review refined facility and site layouts and evaluate and select design features to incorporate for future flexibility. Workshop attendees will include: Jacobs

and Carollo PM, Jacobs and Carollo design manager, senior process engineering lead, and wet weather process lead.

Deliverables

- Draft and Final Site Layout and Phasing TM.
- Phasing and Future Process Flexibility Workshop agenda and notes.
- Site Layout Workshop agenda and notes.

Assumptions

- None.

4.4. Odor Control Evaluation

The objective of this task is to evaluate the odor control requirements for the new facilities and identify regulatory and best practices for management of odors. Consultant will perform the following activities under this activity:

- Identify anticipated regulatory requirements related to odor and air quality.
- Evaluate odor control needs of the new facilities and identify operational approaches of new or modified infrastructure.
- Develop preliminary odor control design sizing, and PFDs of odor control treatment processes and ancillary systems.
- Develop conceptual design and sizing of buildout odor control infrastructure to inform site layout.
- Develop brief Odor Control Evaluation Project Memorandum summarizing the findings of this task.

Deliverables

- Draft and Final Odor Control Evaluation Project Memorandum.

Assumptions

- South Headworks is the only facility intended for odor control. All other facilities will be ventilated without odor control on exhaust. Preliminary design of the odor control system(s) for the proposed wet weather treatment facilities assumes the selection of a carbon adsorption process. Alternate odor control processes will be considered for future potential odor control requirements (e.g., future south plant preliminary treatment).

4.5. Electrical Power System Evaluation

- Review existing electrical drawings, load data, breaker coordination studies, and utility service information to verify generator ratings, switchgear configuration and current DSG interconnection requirements. Identify missing information.
- Perform load analysis by process area and identify essential versus non-essential loads, including estimated future loads for the wet weather improvements project.
- Identify Generator load shedding scenarios to extend outage performance for essential system.
- Identify low-cost options to the existing infrastructure to increase generator service coverage for essential loads (e.g. switchgear reconfiguration, cable routing, and selective transfer switches).

-
- Investigate feasibility of paralleling or re-segregating feeds to reduce dependence on the less-reliable alternate service
 - Identify PGE contact. Coordinate with PGE to identify Dispatchable Generator (DSG) constraints to use DSG generator for internal backup feeds. Identify recommendations for backup power expansions, including sizing and siting a potential second DSG unit. Then, meet with PGE and District and determining if District should proceed with additional DSG facilities.
 - Identify prioritization of recommendations.
 - Develop conceptual single-line diagrams and layouts along with preliminary construction cost for up to 3 alternatives.
 - Investigate power feed and supply to new construction, and consideration of temporary power requirements or limitations in allowable power outages during rerouting. Identify alternative points of connection to primary power or 480V power to serve new facilities, including ductbank routing, temporary facilities, and requirements for all electrical infrastructure for each option.
 - Identify electrical demands for proposed new facilities and confirm alternative methods for providing this power (e.g. Tie into existing switchgear or transformers, new primary power service(s))
 - Investigate backup electrical power supply requirements in accordance with NFPA 820 ventilation requirements and the existing and proposed ventilation scheme for the preliminary and primary treatment processes.
 - Identify applicable industry design criteria for industrial applications (assumed to be ANSI/IESNA RP-7-01 (2001) unless otherwise directed in writing by District). For entire TCWRRF site, identify existing site illumination conditions through use of commercially available lighting software, and prepare recommended improvements to achieve design standards including recommended luminaire type, mounting (pole location and height, wall mounted location and height, etc). Cost estimates will be prepared as part of the 30% design, and budget for such estimate is included in 30% design task, not this task.
 - Develop discipline specific section for Basis of Design Report.
 - Review concepts and draft work products with and seek approval from quality control reviewer.

Meetings

- Two virtual meetings with PGE, the first to identify potential options from PGE, and the second to present proposed approach resulting from draft evaluation.

Deliverables

- Draft and Final Electrical Power System Evaluation

Assumptions

- Electrical drawings, load data and trends, breaker coordination studies and utility service information is provided by client.
- Duct bank routing options are conceptual and do not include pothole verification.
- Essential vs non-essential loads are classified down to the 480V level. 208/120V loads will be classified as a group based on the panel board and transformer as a whole.

4.6. Geotechnical Investigation

Geotechnical field explorations and laboratory testing, and preparation of geotechnical reports will be performed to support the design, as described in this section.

Assumptions

- Required permits and right of entry for geotechnical field explorations will be obtained by the District. Any associated required permit fee will be paid for by the District.
- It is assumed that the District will provide private utility information for the site and assist with the utility locating task.
- Access to the project site will be provided by the District to complete up to six geotechnical explorations and corresponding utility locates.
- Up to two days of traffic control are included to support geotechnical explorations along S Agnes Ave.
- Exploration locations can be accessed using tracked equipment without the need to improve access roads or drilling areas
- Jacobs shall provide full-time observation and logging of borings including soil classifications.
- Costs for drilling is based on formal quotes received for specific project. Costs for temporary traffic control, private utility locating, and laboratory evaluations are based on experience and prior projects. Jacobs will notify if services beyond the budgeted third party services are recommended.
- Cuttings from borings not used for laboratory testing will be removed from the site.
- Costs for disposal of Investigation Derived Waste (IDW) that has been identified as potentially or actually containing hazardous material contaminated waste are not included.

4.6.1. Field Exploration and Lab Testing

The focused geotechnical exploration for new structures will include six sonic core geotechnical borings in the vicinity of south chlorine contact basin and south chemical building, and 4 sonic core borings in the vicinity south plant screenings buildings. Two borings will be advanced approximately 100 feet below grade and 8 borings will be advanced up to approximately 70 feet below grade.

Up to 4 additional sonic core borings will be advanced to a depth of 30 feet below grade to support the extension of the IT2 force main along the S Agnes Avenue and 2 Auger boring to a depth of 60 feet below grade will be advanced to support trenchless installation of the new pipes under existing MBR gallery. A \$5000 allowance has been provided for temporary traffic control will be provided for the borings on S Agnes Ave, if needed.

Geotechnical exploration program will also include six Cone Penetration Tests to depth of 40 to 60 feet below grade to aid in modelling subsurface conditions across the project site and assist in design.

Laboratory testing to determine index and strength properties of the soil encountered in the borings will be completed on representative soil samples collected during the geotechnical exploration.

Deliverables

- Draft and Final Geotechnical investigation plan.

4.6.2. Old Rossman Landfill Exploration (Optional Task)

This scope element is for exploration beyond the limits of the new treatment facilities, as may be required to characterize subgrade conditions in support of the landfill remediation outside limits of the new treatment facilities. To assist preparation of subgrade at locations other than the new buildings, at Old Rossman Landfill remediation, 6 sonic core boring will be advanced to 50 feet below grade. If authorized, landfill data will be incorporated into subsequent reports in this Task 4.6, if applicable. A Jacobs environmental professional will observe drilling, collect samples and transport to analytical laboratory.

Deliverables

- Draft and Final Geotechnical investigation plan.

Assumptions

- A \$20,000 allowance for laboratory sampling costs for waste is included. Disposal of Investigation Derived Waste is not included. IDW will be returned to the site for relocation onsite at time of landfill remediation construction.
- Design services for landfill remediation beyond limits of new buildings is not included in the scope.

4.6.3. Geotechnical Data Report

The additional explorations and results from laboratory testing will supplement existing geotechnical explorations. Data from the explorations will be used for geotechnical design (as required) of structures foundations, temporary shoring systems required for construction, fill placement, geotechnical support of open-cut and trenchless installation of new pipelines. District will review draft deliverable within 30 days and comments will be addressed in Final

Deliverables

- Draft and Final Geotechnical Data Report. .

4.6.4. Geotechnical Analysis

Perform geotechnical analyses in support of preparing Geotechnical Recommendations Report (GRR).

Deliverables

- Draft and Final Geotechnical Analyses integrated with GRR.

4.6.5. Geotechnical Recommendations Report

Prepare Geotechnical Recommendations Report. District will review draft deliverable within 30 days and comments will be addressed in Final

Deliverables

- Draft and Final Geotechnical Recommendations Report

4.6.6. Trenchless Alternatives TM (Primary Influent Pipeline Under Gallery)

Prepare evaluation of alternative approaches to tunnel under MBR gallery routing of primary influent diversion to Ballasted Sedimentation. District will review draft deliverable within 30 days and comments will be addressed in Final

Deliverables

- Draft and Final Trenchless Alternatives TM

4.6.7. Trenchless Design TM and Geotechnical Baseline Report

Prepare geotechnical of alternative approaches to tunnel under MBR gallery routing of primary influent diversion to Ballasted Sedimentation. District will review draft deliverable within 30 days and comments will be addressed in Final

Deliverables

- Draft and Final Trenchless Alternatives TM; Draft and Final Geotechnical Baseline Report.

4.7. Site Topographic Survey, and Boundary Survey

Jacobs will perform a Site Topographic Survey and Boundary Survey for the Project. The surveys will provide horizontal and vertical control, detailed topographic and planimetric information, and parcel boundary depiction to support planning, engineering design, and permitting activities.

All survey work products will be prepared in accordance with applicable Oregon Administrative Rules, and current professional surveying practices.

Site Survey Control

Jacobs will establish a horizontal and vertical survey control network to support topographic mapping and boundary determination.

- Up to four (4) survey control monuments will be established on-site.
- Control will be based on existing Survey Control and/or National Geodetic Survey (NGS) control points located near the project site, unless project-specific survey control is provided by the City.
- Control points will be suitable for design-level survey accuracy and accessible for future construction activities.
- Datums:
 - Horizontal Datum: NAD83 (2011)
 - Vertical Datum: NAVD88

Topographic and Planimetric Survey

Topographic and planimetric data will be collected within the Area of Potential Effects / Biological Study Area / Proposed Action Area shown in Figure 1. Jacobs will collect ground survey data using conventional, Global Navigation Satellite System (GNSS), and/or LIDAR-supported methods as appropriate for site conditions and accuracy requirements. Data collected will include the following typical wet weather treatment plant features:

- Site improvements:
 - Existing Process buildings and tanks (MBR train corners, existing IPS, screening, grit and primary clarification)
 - Existing electrical infrastructure (transformers, primary power connections)
 - Headworks, basins, clarifiers, and treatment structures
 - Pump stations and valve vaults
 - Electrical buildings, generators, transformers, and switchgear
- Utilities (visible and recoverable):
 - Water, reclaimed water, sanitary sewer, force mains
 - Storm drainage systems, catch basins, manholes, and outfalls
 - Exposed or indicated underground utilities (as observed)
- Roadway and access features:
 - Roads, drives, parking areas
 - Curbs, sidewalks, gravel areas
 - Gates, fences, walls, bollards
- Surface features:
 - Top of ground, edge of pavement, grade breaks
 - Slopes, berms, ditches, and channels
- Drainage and water features:
 - Culverts, swales, riprap, biofiltration areas
 - Ponds, lagoons, and wetland features (observable)
- Landscaping and environmental features:
 - Tree lines and individual trees (as required)
 - Vegetation limits
- Miscellaneous features:
 - Light poles, signage, fire hydrant
 - Overhead utility lines and poles (visible)

Surface Model

- A digital surface model (DSM) will be generated based on the collected topographic data.
- One-foot (1') contour lines will be created and displayed.
- Breaklines will be incorporated to accurately represent terrain and site features.

Boundary Survey

Jacobs will perform a boundary survey for project. Boundary determination will be based on existing surveys of record, recovered monumentation, and title information. Record research has identified surveys of record recorded in 2009 for Parcels 00529814 and 00560066. Jacobs will obtain and review a current property report from a local title company identifying parcel legal descriptions and recorded easements and encumbrances affecting the site. Information from the title report will be compared with the surveys of record and available monumentation. Jacobs will search for, recover, and survey existing monuments

referenced in the surveys of record. Using record documents and recovered field evidence, parcel boundaries and applicable easements will be evaluated and depicted in accordance with Oregon surveying standards and Clackamas County requirements. Because surveys of record already exist for both parcels, Jacobs does not anticipate filing new Records of Survey. If material discrepancies or conflicts are identified, Jacobs will notify the District, summarize findings, and request direction prior to performing any additional services. Parcel boundaries and easements will be combined with survey control and topographic data into a single CADD basemap prepared in accordance with Oregon survey standards. A survey map, stamped and signed by an Oregon Professional Land Surveyor, will be provided documenting the results of the boundary survey.

Assumptions and Limitations

- Subsurface utilities will be shown only to the extent evidence is visible or otherwise observable during field survey.
- Boundary depiction is based on available record information and recovered monuments.
- Resolution of boundary discrepancies, record corrections, or new Records of Survey, if required, will be considered additional services.

Deliverables

- Site topographic survey incorporated into Basis of Design Report.
- Site Boundary Survey.

Assumptions

- No private property right of entry is required.

4.8. Cost Estimate and Implementation Strategy

The purpose of this task is to evaluate the constructability of the preferred treatment process and develop the construction sequencing plan and construction cost estimate. Work under this task includes:

- Review constructability of the proposed new wet weather treatment facilities. Identify cost or construction schedule risks and confirm constraints on construction that may affect design approaches.
- Identify temporary facility requirements.
- Develop construction sequencing plan that best maintains operations and permit compliance at Tri-City WRRF.
- Provide a preliminary project construction schedule that includes all major anticipated milestones.
- Prepare Class IV construction cost estimate for the proposed wet weather treatment facilities meeting published AACE international criteria and anticipated accuracy ranges.

Deliverables

- Construction sequencing plan.
- Preliminary construction schedule.
- 10% Design Cost Estimate.

Assumptions

- CMGC will provide construction cost estimates at 30%, 60%, 90% GMP levels.

4.9. Basis of Design Report

The objective of this task is to document key decisions concerning the wet weather treatment facilities and develop preliminary design documents. Consultant will provide the following services:

Draft BODR.

- Summarize results and decisions from Tasks 4.1 to 4.8 in a brief Basis of Design Report to establish the wet weather treatment facilities basis of design. The report will include prior meeting summaries and memos as attachments and will refer to these documents for necessary background on the basis of design.
- Establish and document discipline specific design criteria for civil, architectural, electrical, structural, process mechanical and mechanical (including odor control), instrumentation and controls, and geotechnical disciplines. Work to support this includes:
 - Establish SCADA requirements for integration with existing Tri-City WRRF systems. Develop overall control philosophy including local control approach, control system, and level of automation.
 - Through subconsultant, perform investigation of regulated building materials including asbestos, lead, PCBs, mercury, and universal waste, in the built environment (no subsurface inspections are proposed) associated with any proposed demolition work. Review of report regarding contamination associated with the demolition work.
 - Document non-discipline design criteria for inclusion as design provisions pertaining to accessibility, noise, any existing labor union restrictions, site security requirements, parking requirements, etc.
- Perform quality control review of concepts and draft work products for each discipline by senior technical staff that are experts in their respective disciplines.
- Document routine maintenance procedures and requirements of the new facilities.
- Develop 10% design process control narratives.
- Prepare 10% design level drawings that will provide the basis for further development in detailed design. The drawings shall include the followings sheets:
 - Design criteria
 - Process flow diagram
 - Hydraulic profile
 - Site layout.
 - Plan and section view drawing for each key process area.
 - Draft process and instrumentation diagram drawing(s) for each key processes area.
- Prepare for and conduct 10% Design Review Workshop.

ODEQ BODR. After receiving feedback from the District on the BODR in written format and during the design review workshop, the BODR will be finalized for use in the submission to the ODEQ.

Final BODR. Based on input from ODEQ, the BODR will be updated and finalized.

Meetings

- **10% Design Review Workshop.** Conduct a 4-hour workshop with key District personnel to review the BODR and 10% Design drawings. Workshop attendees will include: Jacobs and Carollo PM, Jacobs and Carollo design manager, senior process engineering lead, preliminary treatment lead, and wet weather process lead.

Deliverables

- Draft BODR, ODEQ BODR, and Final BODR.
- 10% Design Drawings.
- 10% Design Review Workshop agenda, presentation, and summary.

Assumptions

- District will submit ODEQ BODR for ODEQ review.
- An allowance of 200 hours is included to address ODEQ comments and finalize the BODR.
- 10 days of District review time are assumed. Consultant team work will not stop while waiting for ODEQ review but will proceed into 30% design after District review.
- 10% Drawings
 - One process mechanical plan and one process mechanical section per process area.
 - P&IDs are limited to field or 'lower-half' PID detail.

4.10. River Water Quality Modelling (District task)

Jacobs will prepare an estimate of anticipated effluent quality over different time periods and flow conditions. The BODR is expected to confirm that the conclusions reached in the Willamette Facilities Plan (Carollo, 2022) showing deminimis impact from increased loads on river quality, are still valid. This effort may or may not require additional river water quality model run to similar dissolved oxygen in the river.

District may engage a consultant (LimnoTech) that previously performed water quality modelling for the District's project team during the TCWRRF Facilities Plan effort (circa 2021). LimnoTech will conduct river water quality model runs to demonstrate Tri-City WRRF will be able to meet daily mass load during unusually high peak flows.

Meetings

- None planned.

Deliverables

- None.

Assumptions

- District will manage communication with ODEQ regarding mass load limits and water quality documentation.

-
- If needed, the District would manage the National Pollutant Discharge Elimination System (NPDES) Permit #101168 Modification or permit renewal.
 - No Consultant work this task.

5. Schematic Design (30% Deliverables)

The purpose of this task is to use the data and guidelines developed in Task 4, develop and evaluate alternative design concepts, and agree upon a single design concept. The end products from this task will include drawings, a list of specifications, and a work sequence and constraints narrative which will provide sufficient information for District review and design team coordination and review. This Schematic Design report will primarily consist of discipline technical memoranda described under each discipline subheading below. Jacobs will conduct one interactive workshop with the District personnel prior to the conclusion of this task.

5.1. Discipline Engineering

Discipline engineering during the Schematic Design phase will include the following:

Architectural

- Perform a code review of existing facilities to be improved as part of this project.
- Compile list of chemicals and amounts to be stored. Coordinate with other disciplines (mechanical and electrical) to resolve code compliance issues specific to these disciplines (e.g., National Electrical Code and National Fire Protection Association 820 issues).
- Confirm if any hazardous materials are expected to be encountered by the project (including demolition). Identify any facilities that are expected to be demolished and have asbestos containing materials.
- Prepare Schematic Design Report technical memorandum.
- Review concepts and draft work products with and seek approval from quality control reviewer.

Civil and Site Development

- Confirm adequacy of topographical and boundary mapping, and perform additional limited topographic surveying at key locations of site development to confirm current conditions. Develop site layout. This will include activities such as: (1) determine structure size, location, and orientation; (2) layout roadways/truck access corridors and define maneuvering requirements (design vehicle); (3) locate utility and piping corridors (horizontal and vertical).
- Develop preliminary erosion control plan for project.
- Establish preliminary finished grades.
- Define demolition requirements and limits. Define contractor staging, storage, access, and off-site access corridors.
- Develop preliminary yard piping and plant drain layouts. Identify corridors for smaller piping and other utilities.
- Show storm water control concepts (swales, curb, and gutter) on the design development drawings.

-
- Set building/structure elevations.
 - Prepare Schematic Design Report technical memorandum.
 - Review concepts and draft work products with and seek approval from quality control reviewer.

Electrical

- Prepare preliminary one-line diagram for proposed facilities and new primary power feed as applicable.
- Determine number and location of switchgear, transformers, and motor control centers (MCCs) to be provided and existing MCC's to power new loads, and confirm equipment to be powered out of each MCC.
- Preliminary equipment layout drawing to ensure structures are properly sized.
- Prepare a preliminary layout of the major electrical equipment located in each electrical room. Determine equipment requiring uninterruptable power supplies (UPS) and locations of UPS equipment. Coordinate with I&C discipline to determine space requirements and locations for control equipment. Locate major I/O termination panels, TJB's, and control panels.
- Prepare preliminary load calculations.
- Coordinate with other disciplines (mechanical) to resolve code compliance issues specific to these disciplines. Develop preliminary schedule of hazardous and corrosive locations.
- Prepare discipline technical memorandum for Schematic Design Report.
- Review concepts and draft work products with and seek approval from quality control reviewer.

Odor Control

- Determine size/capacity of odor control treatment processes and ancillary systems.
- Size and route major HVAC and odor control ductwork. Identify and resolve conflicts with existing and future anticipated facilities (including future South IPS, South Grit facilities).
- Prepare process flow diagrams (PFDs) for odor control and airflow schematics for HVAC/ventilation systems.
- Develop draft process narratives.
- Prepare discipline technical memorandum for Schematic Design Report.
- Review concepts and draft work products with and seek approval from quality control reviewer.

Process Mechanical and Mechanical

- Process
 - Finalize size/capacity of all unit treatment processes and ancillary systems. Develop requirements for ballasted sedimentation, disinfection, flow split instrumentation.
 - Prepare process flow diagrams (PFDs).
 - Develop draft process narratives.
 - Prepare discipline technical memorandum for Schematic Design Report.

-
- Review concepts and draft work products with and seek approval from quality control reviewer.
 - Mechanical
 - Finalize size of all major process equipment. Prepare sizing calculations and obtain review. Establish level of redundancy required for all process equipment.
 - Finalize equipment selection (type, size, weight, arrangement).
 - Confirm equipment sizing and selection for hydraulic components using the REPLICA model.
 - Prepare equipment list with sizing for major equipment. Coordinate with the District on preferences and features provided with preferred equipment identified in Task 1.
 - Complete equipment data sheets or equipment list on all major equipment items.
 - Prepare discipline technical memorandum for Schematic Design Report.
 - Prepare preliminary pipe schedule identifying flow streams and material types for all major process piping.
 - Review concepts and draft work products with and seek approval from quality control reviewer.

Instrumentation and Control Systems (I&CS)

- Work with the process engineer(s) to finalize process flow drawing (PFD) for each treatment process.
- Develop P&IDs. Information to be included on each P&ID includes at a minimum: Process configuration, flow streams, valve and gate locations (manual and powered), chemical additions points/types, process equipment location/type including packaged control panels and adjustable-speed drives, flow meters and other process control devices.
- Work with Process Engineer to prepare written process control narratives for all process.
- Prepare discipline technical memorandum for Schematic Design Report.
- Review concepts and draft work products with and seek approval from quality control reviewer.

Structural

- Finalize construction type and structure layouts.
- Develop plans for excavation and shoring with geotechnical engineer.
-
- Prepare discipline technical memorandum for Schematic Design Report.
- Review concepts and draft work products with and seek approval from quality control reviewer.

Geotechnical Engineering

- Perform geotechnical engineering in coordination with discipline engineers.
- Develop Draft Geotechnical Data Report including summary of previous geotechnical information, summary of geologic setting, summary of field investigation, results of laboratory testing program, figures showing locations of the explorations, and characterization of general subsurface stratigraphy at the project site

-
- Develop Draft 30% Geotechnical Recommendations Report including seismic response spectra and seismic design parameters, interpreted subsurface soil profiles and soil engineering parameters for design, seismic hazard evaluation, and foundation recommendations. Construction and earthwork recommendations will also be provided.
 - Develop Draft Trenchless Alternatives technical memorandum

Digital Delivery Lead (Lead CAD Technician)

- Perform Project Automation lead tasks managing CAD files.

Specifications

- Support specifications development, including table of contents of specifications and preparing draft versions of major equipment specifications.

5.2. Design Management

- Perform Design Management activities.

Assumptions

None

Deliverables

- Schematic Design Report – to include draft process control narratives.
- Updated 30% drawings.
- Table of Contents for proposed specifications and draft versions of major equipment specifications.

5.3. Construction Cost Estimating – By CMGC

- No work this task.

Assumptions

None

Deliverables

30% Construction Cost Estimate

5.4. Schematic Design Workshops

Jacobs will conduct two half-day workshops with the District personnel to review the work products from Task 5.1 through 5.3 as defined above and confirm that the Schematic Design documents meet the intended design approach.

Workshops will be held at midpoint and completion of Schematic Design phase. The workshops will be held at TCWRRF (Workshop attendees will include: PM, DM, and six engineering leads). Final minutes from the workshop, and the work products as defined above will be submitted to the District.

Assumptions

- Predictive modelling capabilities and potential use of the REPLICA model for operator training and/or control system testing will be explored during a Schematic Design workshop.
- Schematic Design Report includes:
 - Preliminary process control narratives, and information on work sequence and constraint descriptions
 - 30% Design Drawings
 - Technical Specifications List
 - 30% Design review workshop agenda and meeting notes
 - 30% review meeting comments resolutions document
 - Construction cost estimate and schedule

Deliverables

- Draft and Final Schematic Design Report

6. Early Work Authorization (EWA) Equipment and Materials Procurement Support (This task is deferred and may be negotiated in the future, by Amendment)

7. Design Development Phase (60% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)

8. Draft Contract Documents Preparation (90% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)

9. Final Contract Documents Preparation (100% Deliverables) (This task is deferred and may be negotiated in the future, by Amendment)

10. Quality Management 10% - 30% Design and Bid Phase Services

This task is authorized through bid phase services. As part of each design phase, Jacobs will carry out a quality assurance program (QAP). The purpose of this QAP is to monitor the quality of the Project through

the use of internal quality assurance/quality control (QA/QC) reviews as described herein. Jacobs will manage multidiscipline internal QA/QC review activities with senior review team. A QC review will be performed on process and cost calculations. Formal internal QA/QC reviews will be performed prior to the District's review of design deliverables.

A Quality Management Plan (QMP) will be prepared for the project to serve as a guide for all phases of the project. Key features of the QMP will include:

- A single point of contact responsible for all quality management.
- Independent quality review performed by discipline-specific quality reviewers to provide critical analysis without bias.
- Procedures for engineers; detailed checks of reports, calculations, drawings and specifications.

Design quality review documentation will demonstrate that the quality review process is complete and review comments are acceptably addressed as a component of the overall records management system. The following documentation will be prepared, collected and properly stored in the project records system:

- Complete and store technical verification forms documenting completion of quality reviews.
- Design review forms used by the District to document review comments.
- Project checklists or milestone checklists, signed by the reviewer and appropriate project staff.
- Review-related correspondence with District staff and other external agencies or entities.

The level of effort for this task includes preparation of the QMP and QC reviews for each of the design phases.

Deliverables

Quality Management Plan; Technical verification forms documenting completion of QC review.

Attachments

Attachment A Exhibit 1 – Drawing Index

Attachment B – Budget

Attachment C – Schedule

Attachment A

Exhibit 1 – Drawing Index



PRELIMINARY DRAWING LIST - TCWRRF WET WEATHER TREATMENT IMPROVEMENTS											
Drawing Count	Individual Count	Facility	Title	Discipline	JACOBS/CAROLLO	COMPLETION	BODR 10	PD03 0	DD06	DD09	CD100
GENERAL											
1	1	GENERAL	PROJECT LOCATION AND VICINITY MAPS	GENERAL	JACOBS	100%	1	1	1	1	1
2	2	GENERAL	INDEX OF DRAWINGS 1	GENERAL	JACOBS	100%	1	1	1	1	1
3	3	GENERAL	INDEX OF DRAWINGS 2	GENERAL	JACOBS	100%		1	1	1	1
4	4	GENERAL	INDEX OF DRAWINGS 3	GENERAL	JACOBS	100%		1	1	1	1
5	6	GENERAL	GENERAL SYMBOLS AND DESCRIPTIONS	GENERAL	JACOBS	100%		1	1	1	1
6	6	GENERAL	GENERAL ABBREVIATIONS 1	GENERAL	JACOBS	100%		1	1	1	1
7	7	GENERAL	GENERAL ABBREVIATIONS 2	GENERAL	JACOBS	100%		1	1	1	1
8	8	GENERAL	CIVIL GENERAL NOTES AND LEGEND	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
9	9	GENERAL	ARCHITECTURAL NOTES, LEGEND AND SYMBOLS	ARCHITECTURAL	JACOBS	100%		1	1	1	1
10	10	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - SCREENING FACILITY	ARCHITECTURAL	JACOBS	100%		1	1	1	1
11	11	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - SCREENINGS HANDLING	ARCHITECTURAL	JACOBS	100%		1	1	1	1
12	12	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - ODOR CONTROL	ARCHITECTURAL	JACOBS	100%		1	1	1	1
13	13	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - CHEMICAL BUILDING	ARCHITECTURAL	JACOBS	100%		1	1	1	1
14	14	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - BALLASTED SEDIMENTATION	ARCHITECTURAL	JACOBS	100%		1	1	1	1
15	15	GENERAL	CODE SUMMARY & LIFE SAFETY PLAN - PROCESS ELECTRICAL BUILDING	ARCHITECTURAL	JACOBS	100%		1	1	1	1
16	16	GENERAL	WALL TYPES	ARCHITECTURAL	JACOBS	100%		1	1	1	1
17	17	GENERAL	FINISH SCHEDULES	ARCHITECTURAL	JACOBS	100%		1	1	1	1
18	18	GENERAL	DOOR, LOUVER AND WINDOW SCHEDULES	ARCHITECTURAL	JACOBS	100%		1	1	1	1
19	19	GENERAL	GENERAL STRUCTURAL NOTES 1	STRUCTURAL	CAROLLO	100%		1	1	1	1
20	20	GENERAL	GENERAL STRUCTURAL NOTES 2	STRUCTURAL	CAROLLO	100%		1	1	1	1
21	21	GENERAL	TYPICAL STRUCTURAL SECTIONS	STRUCTURAL	CAROLLO	100%		1	1	1	1
22	22	GENERAL	PROCESS INSTRUMENTATION LEGEND AND SYMBOLS 1	INSTRUMENTATION	JACOBS	100%		1	1	1	1
23	23	GENERAL	PROCESS INSTRUMENTATION LEGEND AND SYMBOLS 2	INSTRUMENTATION	JACOBS	100%		1	1	1	1
24	24	GENERAL	PROCESS FLOW DIAGRAM AND MASS BALANCE	MECHANICAL	CAROLLO	100%	1	1	1	1	1
25	25	GENERAL	HYDRAULIC PROFILE	MECHANICAL	CAROLLO	100%	1	1	1	1	1
26	26	GENERAL	DESIGN CRITERIA 1	MECHANICAL	CAROLLO	100%	1	1	1	1	1
27	27	GENERAL	DESIGN CRITERIA 2	MECHANICAL	JACOBS	100%	1	1	1	1	1
28	28	GENERAL	MECHANICAL LEGEND	MECHANICAL	JACOBS	100%		1	1	1	1
29	29	GENERAL	PIPE SCHEDULE 1	MECHANICAL	JACOBS	100%		1	1	1	1
30	30	GENERAL	PIPE SCHEDULE 2	MECHANICAL	JACOBS	100%		1	1	1	1
31	31	GENERAL	VALVE SCHEDULE	MECHANICAL	JACOBS	100%		1	1	1	1
32	32	GENERAL	GATE SCHEDULE	MECHANICAL	JACOBS	100%		1	1	1	1
33	33	GENERAL	I&C GENERAL LEGEND	INSTRUMENTATION	JACOBS	100%		1	1	1	1
34	34	GENERAL	PLC MONITORING	INSTRUMENTATION	JACOBS	100%		1	1	1	1
35	35	GENERAL	PROCESS ELECTRICAL BUILDING HVAC	INSTRUMENTATION	JACOBS	100%		1	1	1	1
36	36	GENERAL	MAIN SWITCHGEAR	INSTRUMENTATION	JACOBS	100%		1	1	1	1
37	37	GENERAL	STANDBY POWER OPERATIONS, GENERATOR ELECTRICAL EQUIPMENT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
38	38	GENERAL	TYPICAL CONTROL PANEL ELEVATION	INSTRUMENTATION	JACOBS	100%		1	1	1	1
39	39	GENERAL	TYPICAL CONTROL PANEL POWER WIRING	INSTRUMENTATION	JACOBS	100%		1	1	1	1
40	40	GENERAL	TYPICAL PLC I/O - DISCRETE INPUT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
41	41	GENERAL	TYPICAL PLC I/O - DISCRETE OUTPUT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
42	42	GENERAL	TYPICAL PLC I/O - ANALOG INPUT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
43	43	GENERAL	TYPICAL PLC I/O - ANALOG OUTPUT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
44	44	GENERAL	CHEMICAL TRUCK UNLOADING PANEL CONCEPT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
45	45	GENERAL	HVAC AND PLUMBING GENERAL NOTES, LEGEND AND SYMBOLS	HVAC	CAROLLO	100%	1	1	1	1	1
46	46	GENERAL	ELECTRICAL GENERAL NOTES AND LEGENDS - 1	ELECTRICAL	JACOBS	100%		1	1	1	1
47	47	GENERAL	ELECTRICAL GENERAL NOTES AND LEGENDS - 2	ELECTRICAL	JACOBS	100%		1	1	1	1
48	48	GENERAL	ELECTRICAL GENERAL NOTES AND LEGENDS - 3	ELECTRICAL	JACOBS	100%		1	1	1	1
49	49	GENERAL	AREA CLASSIFICATION TABLE - 1	ELECTRICAL	JACOBS	100%		1	1	1	1
50	50	GENERAL	AREA CLASSIFICATION TABLE - 2	ELECTRICAL	JACOBS	100%		1	1	1	1
51	51	GENERAL	AREA CLASSIFICATION AND MATERIAL SELECTION	ELECTRICAL	JACOBS	100%		1	1	1	1
52	52	GENERAL	LIGHTING FIXTURE SCHEDULE 1	ELECTRICAL	JACOBS	100%		1	1	1	1
53	53	GENERAL	LIGHTING FIXTURE SCHEDULE 2	ELECTRICAL	JACOBS	100%		1	1	1	1
54	54	GENERAL	PLANTING NOTES, SCHEDULE AND LEGEND	LANDSCAPE ARCHITECTURE	JACOBS	100%		1	1	1	1
INSTRUMENTATION & CONTROLS											
55	1	SITE WORKS	IT&I LINE P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
56	2	SITE WORKS	PRIMARY EFFLUENT LINE P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
57	3	SCREENING FACILITY	INFLUENT SCREENS INLET CHANNEL P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
58	4	SCREENING FACILITY	INFLUENT SCREENS 1 AND 2 P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
59	5	SCREENING FACILITY	INFLUENT SCREENS 3 AND 4 P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
60	6	SCREENING FACILITY	SCREENING FACILITY OUTLET CHANNEL P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
61	7	SCREENING FACILITY	SCREENING FACILITY VENTILATION P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
62	8	SCREENINGS HANDLING	SCREENING CONVEYANCE AND HANDLING 1 P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
63	9	SCREENINGS HANDLING	SCREENING CONVEYANCE AND HANDLING 2 P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
64	13	SCREENINGS HANDLING	SCREENINGS HANDLING POWER AND FIRE ALARM CONTROL PANEL MONITORING	INSTRUMENTATION	JACOBS	100%		1	1	1	1
65	14	SCREENINGS HANDLING	BIN LOADING ROOM VENTILATION P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
66	16	ODOR CONTROL	ODOR CONTROL FACILITY P&ID 1	INSTRUMENTATION	JACOBS	100%		1	1	1	1
67	17	ODOR CONTROL	ODOR CONTROL FACILITY P&ID 2	INSTRUMENTATION	JACOBS	100%		1	1	1	1
68	18	ODOR CONTROL	VENTILATION TO ODOR CONTROL SCHEMATIC	INSTRUMENTATION	JACOBS	100%		1	1	1	1
69	19	ODOR CONTROL	VENTILATION TO ATMOSPHERE SCHEMATIC	INSTRUMENTATION	JACOBS	100%		1	1	1	1
70	20	ELECTRICAL BUILDING	ELECTRICAL BUILDING POWER MONITORING P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
71	21	ELECTRICAL BUILDING	ELECTRICAL BUILDING FIRE ALARM CONTROL PANEL MONITORING P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
72	22	ELECTRICAL BUILDING	GENERATOR P&ID 1	INSTRUMENTATION	JACOBS	100%		1	1	1	1
73	23	ELECTRICAL BUILDING	GENERATOR P&ID 2	INSTRUMENTATION	JACOBS	100%		1	1	1	1
74	24	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION FLUSHING SYSTEM P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
75	25	BALLASTED SEDIMENTATION	PRELIMINARY TREATMENT ODOR CONTROL DAMPERS P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
76	26	BALLASTED SEDIMENTATION	PRELIMINARY TREATMENT INSTRUMENT AIR P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
77	27	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION DISTRIBUTION CHANNEL P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
78	28	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION INTERFACE P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
79	29	BALLASTED SEDIMENTATION	COAGULANT STORAGE TANK P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
80	30	BALLASTED SEDIMENTATION	CAUSTIC STORAGE TANK P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
81	31	BALLASTED SEDIMENTATION	TRAIN 1/2 CAUSTIC FEED PUMPS	INSTRUMENTATION	JACOBS	100%		1	1	1	1
82	32	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION POLYMER & COAGULANT PUMP ROOM HVAC SYSTEM P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
83	33	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION CAUSTIC PUMP ROOM HVAC SYSTEM P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
84	34	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION DISTRIBUTION CHANNEL P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
85	35	BALLASTED SEDIMENTATION	SOLIDS HOLDING TANK P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
86	36	BALLASTED SEDIMENTATION	SOLIDS HOLDING TANK ODOR CONTROL DAMPERS P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
87	37	BALLASTED SEDIMENTATION	ODOR CONTROL - BALLASTED SEDIMENTATION AND SOLIDS HOLDING TANK	INSTRUMENTATION	JACOBS	100%		1	1	1	1
88	38	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION ELECTRICAL EQUIPMENT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
89	39	SITE WORKS	EFFLUENT LINE P&ID	INSTRUMENTATION	JACOBS	100%		1	1	1	1
90	40	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 1/2 RAPID MIXER	ELECTRICAL	JACOBS	100%		1	1	1	1
91	41	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 1/2 COAGULATION MIXER	ELECTRICAL	JACOBS	100%		1	1	1	1
92	42	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 1/2 SETTLING RAKE	ELECTRICAL	JACOBS	100%		1	1	1	1
93	43	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 1/2 AND PUMP 1/2	ELECTRICAL	JACOBS	100%		1	1	1	1
94	44	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 RAPID MIXER	ELECTRICAL	JACOBS	100%		1	1	1	1
95	45	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 COAGULATION MIXER	ELECTRICAL	JACOBS	100%		1	1	1	1
96	46	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 SETTLING RAKE	ELECTRICAL	JACOBS	100%		1	1	1	1
97	47	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 SAND PUMP 1	ELECTRICAL	JACOBS	100%		1	1	1	1
98	48	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - BALLASTED SEDIMENTATION POLYMER FEED PUMP 1	ELECTRICAL	JACOBS	100%		1	1	1	1
99	49	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAINS COAGULANT FEED PUMPS	ELECTRICAL	JACOBS	100%		1	1	1	1
100	50	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 COAGULANT FEED PUMP 1	ELECTRICAL	JACOBS	100%		1	1	1	1
101	51	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAINS CAUSTIC FEED PUMPS	ELECTRICAL	JACOBS	100%		1	1	1	1
102	52	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - TRAIN 2 COAGULANT FEED PUMP 2	ELECTRICAL	JACOBS	100%		1	1	1	1
103	53	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION DISTRIBUTION BUBBLER PANEL SHEET 1 OF 2	INSTRUMENTATION	JACOBS	100%		1	1	1	1
104	54	BALLASTED SEDIMENTATION	COAGULANT CHEMICAL FILL STATION PANEL LAYOUT	INSTRUMENTATION	JACOBS	100%		1	1	1	1
105	55	BALLASTED SEDIMENTATION	MOTOR CONTROL SCHEMATIC - SOLIDS RETURN PUMP 1	INSTRUMENTATION	JACOBS	100%		1	1	1	1
106	56	DISINFECTION	CCT DISTRIBUTION CHANNEL	INSTRUMENTATION	JACOBS	100%		1	1	1	1
107	57	DISINFECTION	COT DISINFECTION	INSTRUMENTATION	JACOBS	100%		1	1	1	1
108	58	DISINFECTION	PLANT WATER LINES	INSTRUMENTATION	JACOBS	100%		1	1	1	1
109	59	DISINFECTION	SODIUM HYPOCHLORITE DOSING SYSTEM	INSTRUMENTATION	JACOBS	100%		1	1	1	1
110	60	DISINFECTION	SODIUM BISULPHITE DOSING SYSTEM	INSTRUMENTATION	JACOBS	100%		1	1	1	1
111	61	DISINFECTION	MOTOR CONTROL SCHEMATIC - EFFLUENT SUMP PUMP 1	ELECTRICAL	JACOBS	100%		1	1	1	1
112	62	DISINFECTION	MOTOR CONTROL SCHEMATIC - TRAIN 1/2 EFFLUENT DROP STRUCTURE ISOLATION GATE	ELECTRICAL	JACOBS	100%		1	1	1	1
113	63	DISINFECTION	MOTOR CONTROL SCHEMATIC - SERVICE AIR SHARED CONTROLS	ELECTRICAL	JACOBS	100%		1	1	1	1
114	64	DISINFECTION	MOTOR CONTROL SCHEMATIC - PUMP ROOM SUPPLY FAN	ELECTRICAL	JACOBS	100%		1	1	1	1
115	65	DISINFECTION	MOTOR CONTROL SCHEMATIC - PUMP ROOM EXHAUST FAN	ELECTRICAL	JACOBS	100%		1	1	1	1
116	66	DISINFECTION	EFFLUENT SUMP 1 BUBBLER PANEL SHEET 1 OF 2	INSTRUMENTATION	JACOBS	100%		1	1	1	1
SCREENING FACILITY											
117	1	SCREENING FACILITY	SCREENING FACILITY OPERATING LEVEL PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
118	2	SCREENING FACILITY	SCREENING FACILITY ROOF PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
119	3	SCREENING FACILITY	SCREENING FACILITY ELEVATIONS 1	ARCHITECTURAL	JACOBS	100%		1	1	1	1
120	4	SCREENING FACILITY	SCREENING FACILITY ELEVATIONS 2	ARCHITECTURAL	JACOBS	100%		1	1	1	1
121	5	SCREENING FACILITY	SCREENING FACILITY OVERALL SECTIONS 1	ARCHITECTURAL	JACOBS	100%		1	1	1	1
122	6	SCREENING FACILITY	SCREENING FACILITY OVERALL SECTIONS 2	ARCHITECTURAL	JACOBS	100%		1	1	1	1
123	7	SCREENING FACILITY	SCREENING FACILITY ROOF DETAILS	ARCHITECTURAL	JACOBS	100%		1	1	1	1
124	8	SCREENING FACILITY	SCREENING FACILITY EXTERIOR DETAILS	ARCHITECTURAL	JACOBS	100%		1	1	1	1
125	9	SCREENING FACILITY	SCREENING FACILITY EXTERIOR DETAILS	ARCHITECTURAL	JACOBS	100%		1	1	1	1
126	10	SCREENING FACILITY	SCREENING FACILITY - FINISH, DOOR AND WINDOW SCHEDULES	ARCHITECTURAL	JACOBS	100%		1	1	1	1
127	11	SCREENING FACILITY	SCREENING FACILITY CORROSION PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
128	12	SCREENING FACILITY	SCREENING FACILITY CORROSION DETAILS	STRUCTURAL	CAROLLO	100%		1	1	1	1
129	13	SCREENING FACILITY	SCREENING FACILITY FOUNDATION PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
130	14	SCREENING FACILITY	SCREENING FACILITY INTERMEDIATE PLAN	STRUCTURAL	CAROLLO	100%		1			

Drawing Count	Individual Count	Facility	Title	Discipline	JACOBS/CAROLLO	COMPLETION	BODR 10	PDR3 0	DD60	DD90	CD100
132	16	SCREENING FACILITY	SCREENING FACILITY ROOF PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
133	17	SCREENING FACILITY	SCREENING FACILITY OVERALL SECTIONS 1	STRUCTURAL	CAROLLO	100%		1	1	1	1
134	18	SCREENING FACILITY	SCREENING FACILITY OVERALL SECTIONS 2	STRUCTURAL	CAROLLO	100%		1	1	1	1
135	19	SCREENING FACILITY	SCREENING FACILITY OVERALL SECTIONS 3	STRUCTURAL	CAROLLO	100%		1	1	1	1
136	20	SCREENING FACILITY	SCREENING FACILITY DETAILS 1	STRUCTURAL	CAROLLO	100%			1	1	1
137	21	SCREENING FACILITY	SCREENING FACILITY DETAILS 2	STRUCTURAL	CAROLLO	100%			1	1	1
138	22	SCREENING FACILITY	SCREENING FACILITY DETAILS 3	STRUCTURAL	CAROLLO	100%			1	1	1
139	23	SCREENING FACILITY	SCREENING FACILITY DETAILS 4	STRUCTURAL	CAROLLO	100%			1	1	1
140	24	SCREENING FACILITY	SCREENING FACILITY DETAILS 5	STRUCTURAL	CAROLLO	100%			1	1	1
141	25	SCREENING FACILITY	SCREENING FACILITY DETAILS 6	STRUCTURAL	CAROLLO	100%			1	1	1
142	26	SCREENING FACILITY	SCREENING FACILITY DETAILS 7	STRUCTURAL	CAROLLO	100%				1	1
143	27	SCREENING FACILITY	SCREENING FACILITY CHANNEL LEVEL PLAN	MECHANICAL	CAROLLO	100%		1	1	1	1
144	28	SCREENING FACILITY	SCREENING FACILITY OPERATING LEVEL PLAN	MECHANICAL	CAROLLO	100%	1	1	1	1	1
145	29	SCREENING FACILITY	SCREENING FACILITY LONGITUDINAL SECTION	MECHANICAL	CAROLLO	100%	1	1	1	1	1
146	30	SCREENING FACILITY	SCREENING FACILITY CROSS SECTION	MECHANICAL	CAROLLO	100%		1	1	1	1
147	31	SCREENING FACILITY	SCREENING FACILITY SCREENINGS CONVEYOR SECTIONS	MECHANICAL	CAROLLO	100%		1	1	1	1
148	32	SCREENING FACILITY	SCREENING FACILITY AIRFLOW SCHEMATIC	HVAC	CAROLLO	100%		1	1	1	1
149	33	SCREENING FACILITY	SCREENING FACILITY VENTILATION CHANNEL LEVEL PLANS	HVAC	CAROLLO	100%			1	1	1
150	34	SCREENING FACILITY	SCREENING FACILITY VENTILATION UPPER LEVEL PLAN	HVAC	CAROLLO	100%			1	1	1
151	35	SCREENING FACILITY	SCREENING FACILITY VENTILATION ROOF PLAN	HVAC	CAROLLO	100%		1	1	1	1
152	36	SCREENING FACILITY	SCREENING FACILITY VENTILATION LONGITUDINAL SECTION AND DETAIL	HVAC	CAROLLO	100%		1	1	1	1
153	37	SCREENING FACILITY	SCREENING FACILITY VENTILATION SECTIONS 1	HVAC	CAROLLO	100%			1	1	1
154	38	SCREENING FACILITY	SCREENING FACILITY VENTILATION SECTIONS 2	HVAC	CAROLLO	100%			1	1	1
155	39	SCREENING FACILITY	SCREENING FACILITY VENTILATION SECTIONS 3	HVAC	CAROLLO	100%			1	1	1
156	40	SCREENING FACILITY	SCREENING FACILITY HVAC/ODOR CONTROL EQUIPMENT SCHEDULE	HVAC	CAROLLO	100%			1	1	1
157	41	SCREENING FACILITY	SCREENING FACILITY PLUMBING OPERATING LEVEL PLAN	PLUMBING	CAROLLO	100%		1	1	1	1
158	42	SCREENING FACILITY	SCREENING FACILITY PLUMBING ROOF PLAN	PLUMBING	CAROLLO	100%			1	1	1
159	43	SCREENING FACILITY	SCREENING FACILITY PLUMBING SECTIONS AND DETAILS	PLUMBING	CAROLLO	100%			1	1	1
160	44	SCREENING FACILITY	SCREENING FACILITY OPERATING LEVEL PLAN	ELECTRICAL	CAROLLO	100%		1	1	1	1
161	45	SCREENING FACILITY	SCREENING FACILITY ROOF PLAN	ELECTRICAL	CAROLLO	100%		1	1	1	1
162	46	SCREENING FACILITY	SCREENING FACILITY OPERATING LEVEL LIGHTING AND GROUNDING PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
163	47	SCREENING FACILITY	SCREENING FACILITY ROOF LIGHTING PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
164	48	SCREENING FACILITY	SCREENING FACILITY CONDUIT SCHEDULE 1	ELECTRICAL	CAROLLO	100%			1	1	1
165	49	SCREENING FACILITY	SCREENING FACILITY CONDUIT SCHEDULE 2	ELECTRICAL	CAROLLO	100%			1	1	1
166	50	SCREENING FACILITY	SCREENING FACILITY CONDUIT SCHEDULE 3	ELECTRICAL	CAROLLO	100%				1	1
167	51	SCREENING FACILITY	SCREENING FACILITY CONDUIT SCHEDULE 4	ELECTRICAL	CAROLLO	100%				1	1
168	52	SCREENING FACILITY	SCREENING FACILITY CONDUIT SCHEDULE 5	ELECTRICAL	CAROLLO	100%				1	1
169	53	SCREENING FACILITY	ELECTRICAL SCHEDULES 1	ELECTRICAL	CAROLLO	100%		1	1	1	1
170	54	SCREENING FACILITY	ELECTRICAL SCHEDULES 2	ELECTRICAL	CAROLLO	100%			1	1	1
171	55	SCREENING FACILITY	MOTOR CONTROL SCHEMATICS 1	ELECTRICAL	CAROLLO	100%			1	1	1
172	56	SCREENING FACILITY	MOTOR CONTROL SCHEMATICS 2	ELECTRICAL	CAROLLO	100%			1	1	1
173	57	SCREENING FACILITY	MOTOR CONTROL SCHEMATICS 3	ELECTRICAL	CAROLLO	100%			1	1	1
174	58	SCREENING FACILITY	MOTOR CONTROL SCHEMATICS 4	ELECTRICAL	CAROLLO	100%			1	1	1
175	59	SCREENING FACILITY	MOTOR CONTROL SCHEMATICS 5	ELECTRICAL	CAROLLO	100%				1	1
SCREENINGS HANDLING											
176	1	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY OPERATING LEVEL PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
177	2	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ROOF PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
178	3	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ELEVATIONS 1	ARCHITECTURAL	JACOBS	100%		1	1	1	1
179	4	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ELEVATIONS 2	ARCHITECTURAL	JACOBS	100%			1	1	1
180	5	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTIONS	ARCHITECTURAL	JACOBS	100%		1	1	1	1
181	6	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY - FINISH, DOOR AND WINDOW SCHEDULES	ARCHITECTURAL	JACOBS	100%			1	1	1
182	7	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FOUNDATION PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
183	8	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY OPERATING LEVEL PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
184	9	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY OVERALL SECTIONS 1	STRUCTURAL	CAROLLO	100%		1	1	1	1
185	10	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY OVERALL SECTIONS 2	STRUCTURAL	CAROLLO	100%			1	1	1
186	11	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTIONS AND DETAILS 1	STRUCTURAL	CAROLLO	100%			1	1	1
187	12	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTIONS AND DETAILS 2	STRUCTURAL	CAROLLO	100%				1	1
188	13	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTIONS AND DETAILS 3	STRUCTURAL	CAROLLO	100%				1	1
189	14	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FOUL AIR BOOSTER FAN - PLAN AND SECTION	STRUCTURAL	CAROLLO	100%			1	1	1
190	15	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY OPERATING LEVEL PLAN	MECHANICAL	CAROLLO	100%	1	1	1	1	1
191	16	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY MEZZANINE LEVEL PLAN	MECHANICAL	CAROLLO	100%		1	1	1	1
192	17	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ROOF PLAN	MECHANICAL	CAROLLO	100%		1	1	1	1
193	18	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTION	MECHANICAL	CAROLLO	100%	1	1	1	1	1
194	19	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTIONS	MECHANICAL	CAROLLO	100%			1	1	1
195	20	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY SECTION AND DETAILS	MECHANICAL	CAROLLO	100%			1	1	1
196	21	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY DETAIL	MECHANICAL	CAROLLO	100%			1	1	1
197	22	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY PLUMBING LOWER LEVEL PLAN	PLUMBING	CAROLLO	100%		1	1	1	1
198	23	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY PLUMBING ROOF PLAN	PLUMBING	CAROLLO	100%		1	1	1	1
199	24	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY PLUMBING SECTIONS AND DETAILS - 1	PLUMBING	CAROLLO	100%			1	1	1
200	25	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY PLUMBING SECTIONS AND DETAILS - 2	PLUMBING	CAROLLO	100%			1	1	1
201	26	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY AIRFLOW SCHEMATIC	HVAC	CAROLLO	100%		1	1	1	1
202	27	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY VENTILATION LOWER LEVEL PLAN	HVAC	CAROLLO	100%			1	1	1
203	28	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY VENTILATION SECTION 1	HVAC	CAROLLO	100%			1	1	1
204	29	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY VENTILATION SECTION 2	HVAC	CAROLLO	100%			1	1	1
205	30	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FOUL AIR BOOSTER FAN - PLAN & SECTIONS	HVAC	CAROLLO	100%		1	1	1	1
206	31	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY HVAC / ODOR CONTROL EQUIPMENT SCHEDULES	HVAC	CAROLLO	100%			1	1	1
207	32	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FIRST FLOOR UNDERGROUND PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
208	33	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FIRST FLOOR PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
209	34	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ROOF PLAN	ELECTRICAL	CAROLLO	100%		1	1	1	1
210	35	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FIRST FLOOR LIGHTING AND GROUNDING PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
211	36	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY ROOF LIGHTING PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
212	37	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY FOUL AIR BOOSTER FAN - POWER PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
213	38	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY CONDUIT SCHEDULE 1	ELECTRICAL	CAROLLO	100%			1	1	1
214	39	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY CONDUIT SCHEDULE 2	ELECTRICAL	CAROLLO	100%			1	1	1
215	40	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY CONDUIT SCHEDULE 3	ELECTRICAL	CAROLLO	100%			1	1	1
216	41	SCREENINGS HANDLING	SCREENINGS HANDLING FACILITY CONDUIT SCHEDULE 4	ELECTRICAL	CAROLLO	100%			1	1	1
217	42	SCREENINGS HANDLING	ELECTRICAL SCHEDULES 1	ELECTRICAL	CAROLLO	100%				1	1
218	43	SCREENINGS HANDLING	ELECTRICAL SCHEDULES 2	ELECTRICAL	CAROLLO	100%				1	1
219	44	SCREENINGS HANDLING	MOTOR CONTROL SCHEMATICS 1	ELECTRICAL	CAROLLO	100%				1	1
220	45	SCREENINGS HANDLING	MOTOR CONTROL SCHEMATICS 2	ELECTRICAL	CAROLLO	100%				1	1
221	46	SCREENINGS HANDLING	MOTOR CONTROL SCHEMATICS 3	ELECTRICAL	CAROLLO	100%				1	1
222	47	SCREENINGS HANDLING	MOTOR CONTROL SCHEMATICS 4	ELECTRICAL	CAROLLO	100%				1	1
IPS - 10%											
223	1	INFLUENT PUMP STATION	INFLUENT PUMP STATION OPERATING LEVEL PLAN	MECHANICAL	CAROLLO	10%	1				
224	2	INFLUENT PUMP STATION	INFLUENT PUMP STATION SECTIONS	MECHANICAL	CAROLLO	10%	1				
GRIT - 10%											
225	1	GRIT BASINS	GRIT BASINS OPERATING LEVEL PLAN	MECHANICAL	CAROLLO	10%	1				
226	2	GRIT BASINS	GRIT BASINS SECTIONS	MECHANICAL	CAROLLO	10%	1				
227	3	GRIT HANDLING FACILITY	GRIT HANDLING FACILITY OPERATING LEVEL PLAN	MECHANICAL	CAROLLO	10%	1				
228	4	GRIT HANDLING FACILITY	GRIT HANDLING FACILITY SECTIONS	MECHANICAL	CAROLLO	10%	1				
ODOR CONTROL											
229	1	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY PLAN	STRUCTURAL	CAROLLO	100%		1	1	1	1
230	2	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY SECTIONS	STRUCTURAL	CAROLLO	100%		1	1	1	1
231	3	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY PLAN	MECHANICAL	CAROLLO	100%	1	1	1	1	1
232	4	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY SECTION	MECHANICAL	CAROLLO	100%	1	1	1	1	1
233	5	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY SECTIONS AND DETAILS	MECHANICAL	CAROLLO	100%			1	1	1
234	6	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY TYPICAL SCHEMATIC	MECHANICAL	CAROLLO	100%		1	1	1	1
235	7	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY ISOMETRIC	MECHANICAL	CAROLLO	100%			1	1	1
236	8	ODOR CONTROL	SCREENINGS ODOR CONTROL PLUMBING PLAN	PLUMBING	CAROLLO	100%		1	1	1	1
237	9	ODOR CONTROL	SCREENINGS ODOR CONTROL PLUMBING SECTIONS AND DETAILS	PLUMBING	CAROLLO	100%			1	1	1
238	10	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY POWER AND CONTROL PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
239	11	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY LIGHTING AND GROUNDING PLAN	ELECTRICAL	CAROLLO	100%			1	1	1
240	12	ODOR CONTROL	SCREENINGS ODOR CONTROL FACILITY CONDUIT SCHEDULE 1	ELECTRICAL	CAROLLO	100%				1	1
241	13	ODOR CONTROL									

Drawing Count	Individual Count	Facility	Title	Discipline	JACOBS/CAROLLO	COMPLETION	BODR 10	PRD3 0	DD60	DD90	CD100
264	21	BALLASTED SEDIMENTATION	ENLARGED PLANS	STRUCTURAL	JACOBS	100%			1	1	1
265	22	BALLASTED SEDIMENTATION	SECTION	STRUCTURAL	JACOBS	100%		1	1	1	1
266	23	BALLASTED SEDIMENTATION	SECTION	STRUCTURAL	JACOBS	100%		1	1	1	1
267	24	BALLASTED SEDIMENTATION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
268	25	BALLASTED SEDIMENTATION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
269	26	BALLASTED SEDIMENTATION	COAGULANT AND CAUSTIC STORAGE SECTIONS	STRUCTURAL	JACOBS	100%		1	1	1	1
270	27	BALLASTED SEDIMENTATION	SECTIONS	STRUCTURAL	JACOBS	100%			1	1	1
271	28	BALLASTED SEDIMENTATION	SECTIONS	STRUCTURAL	JACOBS	100%			1	1	1
272	29	BALLASTED SEDIMENTATION	BRIDGE CRANE FRAMING ELEVATIONS AND DETAILS	STRUCTURAL	JACOBS	100%		1	1	1	1
273	30	BALLASTED SEDIMENTATION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
274	31	BALLASTED SEDIMENTATION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
275	32	BALLASTED SEDIMENTATION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
276	33	BALLASTED SEDIMENTATION	PLAN	STRUCTURAL	JACOBS	100%		1	1	1	1
277	34	BALLASTED SEDIMENTATION	SECTIONS	STRUCTURAL	JACOBS	100%			1	1	1
278	35	BALLASTED SEDIMENTATION	OVERALL LOWER PLAN	MECHANICAL	JACOBS	100%	1	1	1	1	1
279	36	BALLASTED SEDIMENTATION	OVERALL UPPER PLAN	MECHANICAL	JACOBS	100%	1	1	1	1	1
280	37	BALLASTED SEDIMENTATION	LOWER PLAN AA1	MECHANICAL	JACOBS	100%			1	1	1
281	38	BALLASTED SEDIMENTATION	LOWER PLAN AA2	MECHANICAL	JACOBS	100%			1	1	1
282	39	BALLASTED SEDIMENTATION	LOWER PLAN AA3	MECHANICAL	JACOBS	100%			1	1	1
283	40	BALLASTED SEDIMENTATION	LOWER PLAN AA4	MECHANICAL	JACOBS	100%			1	1	1
284	41	BALLASTED SEDIMENTATION	UPPER PLAN AA1	MECHANICAL	JACOBS	100%			1	1	1
285	42	BALLASTED SEDIMENTATION	UPPER PLAN AA2	MECHANICAL	JACOBS	100%			1	1	1
286	43	BALLASTED SEDIMENTATION	UPPER PLAN AA3	MECHANICAL	JACOBS	100%			1	1	1
287	44	BALLASTED SEDIMENTATION	UPPER PLAN AA4	MECHANICAL	JACOBS	100%			1	1	1
288	45	BALLASTED SEDIMENTATION	COAGULANT STORAGE AND PUMP ROOM PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
289	46	BALLASTED SEDIMENTATION	CAUSTIC STORAGE AND PUMP ROOM PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
290	47	BALLASTED SEDIMENTATION	UTILITY SERVICES COAGULANT STORAGE AND PUMP ROOM PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
291	48	BALLASTED SEDIMENTATION	SECTION	MECHANICAL	JACOBS	100%	1	1	1	1	1
292	49	BALLASTED SEDIMENTATION	SECTION	MECHANICAL	JACOBS	100%	1	1	1	1	1
293	55	BALLASTED SEDIMENTATION	ENLARGED PLAN AND SECTIONS	MECHANICAL	JACOBS	100%			1	1	1
294	56	BALLASTED SEDIMENTATION	ENLARGED PLAN AND SECTIONS	MECHANICAL	JACOBS	100%			1	1	1
295	57	BALLASTED SEDIMENTATION	ENLARGED PLAN AND SECTIONS	MECHANICAL	JACOBS	100%			1	1	1
296	58	BALLASTED SEDIMENTATION	UTILITY SERVICES ENLARGED PLAN	MECHANICAL	JACOBS	100%			1	1	1
297	65	BALLASTED SEDIMENTATION	UTILITY SERVICES PLAN AT ELEVATION	MECHANICAL	JACOBS	100%		1	1	1	1
298	66	BALLASTED SEDIMENTATION	SECTION	MECHANICAL	JACOBS	100%		1	1	1	1
299	67	BALLASTED SEDIMENTATION	SECTION	MECHANICAL	JACOBS	100%			1	1	1
300	68	BALLASTED SEDIMENTATION	ENLARGED PLAN AND DETAILS	MECHANICAL	JACOBS	100%			1	1	1
301	69	BALLASTED SEDIMENTATION	ENLARGED PLAN AND SECTIONS	MECHANICAL	JACOBS	100%			1	1	1
302	70	BALLASTED SEDIMENTATION	DETAILS	MECHANICAL	JACOBS	100%			1	1	1
303	71	BALLASTED SEDIMENTATION	DETAILS	MECHANICAL	JACOBS	100%			1	1	1
304	72	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY PLAN	STRUCTURAL	JACOBS	100%		1	1	1	1
305	73	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY SECTIONS	STRUCTURAL	JACOBS	100%		1	1	1	1
306	74	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY SECTION	HVAC	JACOBS	100%			1	1	1
307	75	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY SECTION	HVAC	JACOBS	100%		1	1	1	1
308	76	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY SECTIONS AND DETAILS	HVAC	JACOBS	100%			1	1	1
309	77	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY TYPICAL SCHEMATIC	HVAC	JACOBS	100%		1	1	1	1
310	78	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY ISOMETRIC	HVAC	JACOBS	100%			1	1	1
311	79	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC PLUMBING PLAN	PLUMBING	JACOBS	100%			1	1	1
312	80	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC PLUMBING SECTIONS AND DETAILS	PLUMBING	JACOBS	100%		1	1	1	1
313	81	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY POWER AND CONTROL PLAN	ELECTRICAL	JACOBS	100%			1	1	1
314	82	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY LIGHTING AND GROUNDING PLAN	ELECTRICAL	JACOBS	100%			1	1	1
315	83	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY CONDUIT SCHEDULE 1	ELECTRICAL	JACOBS	100%			1	1	1
316	84	BALLASTED SEDIMENTATION	BALLASTED SEDIMENTATION HVAC FACILITY CONDUIT SCHEDULE 2	ELECTRICAL	JACOBS	100%			1	1	1
317	85	BALLASTED SEDIMENTATION	HVAC - MOTOR CONTROL SCHEMATICS 1	ELECTRICAL	JACOBS	100%			1	1	1
318	86	BALLASTED SEDIMENTATION	HVAC - MOTOR CONTROL SCHEMATICS 2	ELECTRICAL	JACOBS	100%			1	1	1
319	87	BALLASTED SEDIMENTATION	OVERALL SEDIMENTATION PLAN AT ELEVATION 1	ELECTRICAL	JACOBS	100%		1	1	1	1
320	88	BALLASTED SEDIMENTATION	CAUSTIC AREA & PUMP ROOM PROCESS PLAN AT ELEVATION 1	ELECTRICAL	JACOBS	100%		1	1	1	1
321	89	BALLASTED SEDIMENTATION	POLYMER ROOM PROCESS PLAN AT ELEVATION 1	ELECTRICAL	JACOBS	100%			1	1	1
322	90	BALLASTED SEDIMENTATION	CAUSTIC AREA & PUMP ROOM PROCESS PLAN AT ELEVATION 2	ELECTRICAL	JACOBS	100%		1	1	1	1
323	91	BALLASTED SEDIMENTATION	CAUSTIC AREA & PUMP ROOM FACILITY PLAN AT ELEVATION 1	ELECTRICAL	JACOBS	100%			1	1	1
324	92	BALLASTED SEDIMENTATION	POLYMER ROOM FACILITY PLAN AT ELEVATION 1	ELECTRICAL	JACOBS	100%		1	1	1	1
325	93	BALLASTED SEDIMENTATION	CAUSTIC AREA & PUMP ROOM FACILITY PLAN AT ELEVATION 2	ELECTRICAL	JACOBS	100%		1	1	1	1
326	94	BALLASTED SEDIMENTATION	DISTRIBUTION CHANGING & CHEMICAL STORAGE TANKS CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
327	95	BALLASTED SEDIMENTATION	TRAINS 1&2 CAUSTIC FEED PUMPS CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
328	96	BALLASTED SEDIMENTATION	DISTRIBUTION CHANNEL/RAIN 1/2 CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
329	97	BALLASTED SEDIMENTATION	POLYMER SKID CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
330	98	BALLASTED SEDIMENTATION	COAGULANT FEED SKID CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
331	99	BALLASTED SEDIMENTATION	PLUMBING PLAN 1	PLUMBING	JACOBS	100%		1	1	1	1
332	100	BALLASTED SEDIMENTATION	PLUMBING PLAN 2	PLUMBING	JACOBS	100%		1	1	1	1
333	101	BALLASTED SEDIMENTATION	PLUMBING SECTION 1	PLUMBING	JACOBS	100%		1	1	1	1
334	102	BALLASTED SEDIMENTATION	PLUMBING SECTION 2	PLUMBING	JACOBS	100%			1	1	1
335	103	BALLASTED SEDIMENTATION	PLUMBING DETAILS	PLUMBING	JACOBS	100%			1	1	1
DISINFECTION											
336	1	DISINFECTION	CCT FLOOR PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
337	2	DISINFECTION	CCT ROOF PLAN	ARCHITECTURAL	JACOBS	100%			1	1	1
338	3	DISINFECTION	CCT ELEVATION	ARCHITECTURAL	JACOBS	100%		1	1	1	1
339	4	DISINFECTION	CCT SECTIONS	ARCHITECTURAL	JACOBS	100%			1	1	1
340	5	DISINFECTION	CCT WALL SECTIONS	ARCHITECTURAL	JACOBS	100%			1	1	1
341	6	DISINFECTION	CCT DETAILS	ARCHITECTURAL	JACOBS	100%			1	1	1
342	7	DISINFECTION	CCT DETAILS	ARCHITECTURAL	JACOBS	100%			1	1	1
343	8	DISINFECTION	CCT DETAILS	ARCHITECTURAL	JACOBS	100%			1	1	1
344	9	DISINFECTION	PLAN AB1	STRUCTURAL	JACOBS	100%		1	1	1	1
345	10	DISINFECTION	PLAN AB2	STRUCTURAL	JACOBS	100%			1	1	1
346	11	DISINFECTION	PLAN AB3	STRUCTURAL	JACOBS	100%			1	1	1
347	12	DISINFECTION	PLAN AB4	STRUCTURAL	JACOBS	100%			1	1	1
348	13	DISINFECTION	PLAN AB5	STRUCTURAL	JACOBS	100%			1	1	1
349	14	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
350	15	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
351	16	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
352	17	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
353	18	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
354	19	DISINFECTION	ENLARGED PLAN	STRUCTURAL	JACOBS	100%			1	1	1
355	20	DISINFECTION	SECTION	STRUCTURAL	JACOBS	100%		1	1	1	1
356	21	DISINFECTION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
357	22	DISINFECTION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
358	23	DISINFECTION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
359	24	DISINFECTION	SECTION	STRUCTURAL	JACOBS	100%			1	1	1
360	25	DISINFECTION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
361	26	DISINFECTION	ELEVATIONS AND DETAILS	STRUCTURAL	JACOBS	100%		1	1	1	1
362	27	DISINFECTION	ELEVATIONS AND DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
363	28	DISINFECTION	STAIR TOWER PLANS AND ELEVATIONS	STRUCTURAL	JACOBS	100%		1	1	1	1
364	29	DISINFECTION	STAIR TOWER DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
365	30	DISINFECTION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
366	31	DISINFECTION	DETAILS	STRUCTURAL	JACOBS	100%			1	1	1
367	32	DISINFECTION	OVERALL PLAN	MECHANICAL	JACOBS	100%	1	1	1	1	1
368	33	DISINFECTION	PLAN AB1	MECHANICAL	JACOBS	100%		1	1	1	1
369	34	DISINFECTION	PLAN AB2	MECHANICAL	JACOBS	100%			1	1	1
370	35	DISINFECTION	FLOOR DRAIN PLAN	MECHANICAL	JACOBS	100%			1	1	1
371	36	DISINFECTION	UTILITY SERVICES PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
372	37	DISINFECTION	SECTION	MECHANICAL	JACOBS	100%	1	1	1	1	1
373	38	DISINFECTION	SECTION	MECHANICAL	JACOBS	100%			1	1	1
374	39	DISINFECTION	SECTION	MECHANICAL	JACOBS	100%			1	1	1
375	40	DISINFECTION	ENLARGED PLAN AT ELEVATION	MECHANICAL	JACOBS	100%			1	1	1
376	41	DISINFECTION	ENLARGED PLAN AT ELEVATION	MECHANICAL	JACOBS	100%			1	1	1
377	42	DISINFECTION	CCT DETAILS	MECHANICAL	JACOBS	100%			1	1	1
378	43	DISINFECTION	PLAN	HVAC	JACOBS	100%		1	1	1	1
379	44	DISINFECTION	PLUMBING PLAN	PLUMBING	JACOBS	100%			1	1	1
380	45	DISINFECTION	PROCESS PLAN	ELECTRICAL	JACOBS	100%			1	1	1
381	46	DISINFECTION	FACILITY PLAN	ELECTRICAL	JACOBS	100%		1	1	1	1
382	47	DISINFECTION	EFFLUENT DROP BOX CONDUIT BLOCK DIAGRAM	ELECTRICAL	JACOBS	100%			1	1	1
ELECTRICAL BUILDING											
383	1	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING FLOOR PLAN	ARCHITECTURAL	JACOBS	100%		1	1	1	1
384	2	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ROOF PLAN	ARCHITECTURAL	JACOBS	100%			1	1	1
385	3	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ELEVATIONS	ARCHITECTURAL	JACOBS	100%			1	1	1
386	4	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SECTIONS	ARCHITECTURAL	JACOBS	100%			1	1	1
387	5	ELECTRICAL BUILDING	TRANSFORMER PAD PLAN AND SECTIONS	STRUCTURAL	JACOBS	100%		1	1	1	1
388	6	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING FOUNDATION PLAN	STRUCTURAL	JACOBS	100%			1	1	1
389	7	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ROOF FRAMING PLAN	STRUCTURAL	JACOBS	100%		1	1	1	1
390	8	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SECTION 1	STRUCTURAL	JACOBS	100%			1	1	1
391	9	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SECTION 2	STRUCTURAL	JACOBS	100%			1	1	1
392	10	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ELEVATIONS 1	STRUCTURAL	JACOBS	100%		1	1	1	1
393	11	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ELEVATIONS 2	STRUCTURAL	JACOBS	100%			1	1	1
394	12	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING DETAILS 1	STRUCTURAL	JACOBS	100%			1	1	1
395	13	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING DETAILS 2	STRUCTURAL	JACOBS	100%					

Drawing Count	Individual Count	Facility	Title	Discipline	JACOBS/CAROLLO	COMPLETION	BODR 10	PD3 0	DD60	DD90	CD100
399	17	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING - AIRFLOW SCHEMATIC	HVAC	JACOBS	100%		1	1	1	1
400	18	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING - HVAC FLOOR PLAN	HVAC	JACOBS	100%		1	1	1	1
401	19	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING - HVAC ROOF PLAN	HVAC	JACOBS	100%		1	1	1	1
402	20	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING - HVAC DETAILS	HVAC	JACOBS	100%		1	1	1	1
403	21	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING - HVAC SCHEDULES	HVAC	JACOBS	100%		1	1	1	1
404	22	ELECTRICAL BUILDING	STANDBY GENERATOR PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
405	23	ELECTRICAL BUILDING	STANDBY GENERATOR FUEL TANK - PLAN	MECHANICAL	JACOBS	100%		1	1	1	1
406	24	ELECTRICAL BUILDING	STANDBY GENERATOR FUEL TANK - SECTION	MECHANICAL	JACOBS	100%		1	1	1	1
407	25	ELECTRICAL BUILDING	STANDBY GENERATOR FUEL TANK - SCHEMATIC	MECHANICAL	JACOBS	100%		1	1	1	1
408	26	ELECTRICAL BUILDING	FUEL OIL SYSTEM - DAY TANK PLAN, ELEVATIONS, AND DETAIL VOLUME	MECHANICAL	JACOBS	100%		1	1	1	1
409	27	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING UNDERGROUND POWER AND CONTROL PLAN	ELECTRICAL	JACOBS	100%		1	1	1	1
410	28	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING POWER AND CONTROL PLAN	ELECTRICAL	JACOBS	100%	1	1	1	1	1
411	29	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING ROOF POWER AND CONTROL PLAN	ELECTRICAL	JACOBS	100%		1	1	1	1
412	30	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING LIGHTING AND GROUNDING PLAN	ELECTRICAL	JACOBS	100%		1	1	1	1
413	31	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SCHEDULE 1	ELECTRICAL	JACOBS	100%		1	1	1	1
414	32	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SCHEDULE 2	ELECTRICAL	JACOBS	100%		1	1	1	1
415	33	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SCHEDULE 3	ELECTRICAL	JACOBS	100%		1	1	1	1
416	34	ELECTRICAL BUILDING	HEADWORKS ELECTRICAL BUILDING SCHEDULE 4	ELECTRICAL	JACOBS	100%		1	1	1	1
417	35	ELECTRICAL BUILDING	GENERATOR AREA MEDIUM VOLTAGE DUCT BANKS	ELECTRICAL	JACOBS	100%	1	1	1	1	1
418	36	ELECTRICAL BUILDING	GENERATOR AREA LOW VOLTAGE DUCT BANKS	ELECTRICAL	JACOBS	100%		1	1	1	1
419	37	ELECTRICAL BUILDING	GENERATOR AREA GROUNDING AND LIGHTING PLAN	ELECTRICAL	JACOBS	100%		1	1	1	1
420	38	ELECTRICAL BUILDING	OVERALL ONE-LINE DIAGRAM	ELECTRICAL	JACOBS	100%	1	1	1	1	1
421	39	ELECTRICAL BUILDING	SWITCHGEAR - ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
422	40	ELECTRICAL BUILDING	SWITCHGEAR - ONE-LINE DIAGRAM 1	ELECTRICAL	JACOBS	100%		1	1	1	1
423	41	ELECTRICAL BUILDING	SWITCHGEAR - ONE-LINE DIAGRAM 2	ELECTRICAL	JACOBS	100%		1	1	1	1
424	42	ELECTRICAL BUILDING	SWITCHGEAR - CONTROLS	ELECTRICAL	JACOBS	100%		1	1	1	1
425	43	ELECTRICAL BUILDING	SWITCHGEAR - ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
426	44	ELECTRICAL BUILDING	SWITCHGEAR - ONE-LINE DIAGRAM	ELECTRICAL	JACOBS	100%		1	1	1	1
427	45	ELECTRICAL BUILDING	EXISTING 4160V SWITCHGEAR ONE-LINE DIAGRAM	ELECTRICAL	JACOBS	100%		1	1	1	1
428	46	ELECTRICAL BUILDING	MCC-1A ELEVATION	ELECTRICAL	CAROLLO	100%		1	1	1	1
429	47	ELECTRICAL BUILDING	MCC-1A ONE-LINE DIAGRAM	ELECTRICAL	CAROLLO	100%		1	1	1	1
430	48	ELECTRICAL BUILDING	MCC-1B ELEVATION	ELECTRICAL	CAROLLO	100%		1	1	1	1
431	49	ELECTRICAL BUILDING	MCC-1B ONE-LINE DIAGRAM	ELECTRICAL	CAROLLO	100%		1	1	1	1
432	50	ELECTRICAL BUILDING	MCC-2A ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
433	51	ELECTRICAL BUILDING	MCC-2A ONE-LINE DIAGRAM 1	ELECTRICAL	JACOBS	100%		1	1	1	1
434	52	ELECTRICAL BUILDING	MCC-2A ONE-LINE DIAGRAM 2	ELECTRICAL	JACOBS	100%		1	1	1	1
435	53	ELECTRICAL BUILDING	MCC-2B ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
436	54	ELECTRICAL BUILDING	MCC-2B ONE-LINE DIAGRAM 1	ELECTRICAL	JACOBS	100%		1	1	1	1
437	55	ELECTRICAL BUILDING	SWITCHBOARD - 1A ELEVATION	ELECTRICAL	CAROLLO	100%		1	1	1	1
438	56	ELECTRICAL BUILDING	SWITCHBOARD - 1A ONE-LINE DIAGRAM 1	ELECTRICAL	CAROLLO	100%		1	1	1	1
439	57	ELECTRICAL BUILDING	SWITCHBOARD - 1A ONE-LINE DIAGRAM 2	ELECTRICAL	CAROLLO	100%		1	1	1	1
440	58	ELECTRICAL BUILDING	SWITCHBOARD - 1B ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
441	59	ELECTRICAL BUILDING	SWITCHBOARD - 1B ONE-LINE DIAGRAM 1	ELECTRICAL	JACOBS	100%		1	1	1	1
442	60	ELECTRICAL BUILDING	SWITCHBOARD - 1B ONE-LINE DIAGRAM 2	ELECTRICAL	JACOBS	100%		1	1	1	1
443	61	ELECTRICAL BUILDING	SWITCHBOARD - 1C ELEVATION	ELECTRICAL	JACOBS	100%		1	1	1	1
444	62	ELECTRICAL BUILDING	SWITCHBOARD - 1C ONE-LINE DIAGRAM	ELECTRICAL	JACOBS	100%		1	1	1	1
445	63	ELECTRICAL BUILDING	ELECTRICAL SCHEDULES 1	ELECTRICAL	JACOBS	100%		1	1	1	1
446	64	ELECTRICAL BUILDING	ELECTRICAL SCHEDULES 2	ELECTRICAL	JACOBS	100%		1	1	1	1
447	65	ELECTRICAL BUILDING	ELECTRICAL SCHEDULES 3	ELECTRICAL	JACOBS	100%		1	1	1	1
448	66	ELECTRICAL BUILDING	ELECTRICAL SCHEDULES 4	ELECTRICAL	JACOBS	100%		1	1	1	1
SITE WORKS											
449	1	SITE WORKS	EXISTING SITE PLAN	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
450	2	SITE WORKS	EXISTING DRAWINGS KEY PLAN	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
451	3	SITE WORKS	SITE DEMOLITION PLAN - AREA 1	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
452	4	SITE WORKS	SITE DEMOLITION PLAN - AREA 2	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
453	5	SITE WORKS	SITE DEMOLITION PLAN - AREA 3	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
454	6	SITE WORKS	SITE DEMOLITION PLAN - AREA 4	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
455	7	SITE WORKS	GRADING AND PAVING PLAN - AREA 1	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
456	8	SITE WORKS	GRADING AND PAVING PLAN - AREA 2	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
457	9	SITE WORKS	GRADING AND PAVING PLAN - AREA 3	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
458	10	SITE WORKS	GRADING AND PAVING PLAN - AREA 4	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
459	11	SITE WORKS	GRADING AND PAVING - ENLARGED PLANS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
460	12	SITE WORKS	YARD PIPING PLAN - AREA 1	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
461	13	SITE WORKS	YARD PIPING PLAN - AREA 2	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
462	14	SITE WORKS	YARD PIPING PLAN - AREA 3	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
463	15	SITE WORKS	YARD PIPING PLAN - AREA 4	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
464	16	SITE WORKS	YARD PIPING - ENLARGED PLANS 1	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
465	17	SITE WORKS	YARD PIPING - ENLARGED PLANS 2	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
466	18	SITE WORKS	PLAN AND PROFILE - IT2 PIPELINE 1	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
467	19	SITE WORKS	PLAN AND PROFILE - IT2 PIPELINE 2	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
468	20	SITE WORKS	PLAN AND PROFILE - PRIMARY INFLUENT PIPELINE	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
469	21	SITE WORKS	PLAN AND PROFILE - SCREEN TO ACTIFLO PIPELINE	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
470	22	SITE WORKS	PLAN AND PROFILE - SED-BASIN TO EFFLUENT PIPELINE	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
471	23	SITE WORKS	TEMPORARY EROSION SEDIMENTATION CONTROL PLAN	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
472	24	SITE WORKS	TESC NOTES AND DETAILS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
473	25	SITE WORKS	TESC DETAILS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
474	26	SITE WORKS	RETENTION BASIN LAYOUT	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
475	27	SITE WORKS	RETENTION BASIN DETAILS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
476	28	SITE WORKS	STORM DRAIN SYSTEM PLAN AND PROFILE 1	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
477	29	SITE WORKS	STORM DRAIN SYSTEM PLAN AND PROFILE 2	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
478	30	SITE WORKS	STORM DRAIN SYSTEM PLAN AND PROFILE 3	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
479	31	SITE WORKS	TRAFFIC CONTROL PLAN 1	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
480	32	SITE WORKS	TRAFFIC CONTROL PLAN 2	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
481	33	SITE WORKS	TRAFFIC CONTROL DETAILS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
482	34	SITE WORKS	CORROSION PROTECTION TEST STATIONS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
483	35	SITE WORKS	CORROSION PROTECTION DETAILS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
484	36	SITE WORKS	IT2 VALVE BOX DEMO PLAN AND SECTIONS	CIVIL/YARD PIPING	CAROLLO	100%		1	1	1	1
485	37	SITE WORKS	IT2 VALVE BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	STRUCTURAL	CAROLLO	100%	1	1	1	1	1
486	38	SITE WORKS	IT2 VALVE BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	MECHANICAL	CAROLLO	100%		1	1	1	1
487	39	SITE WORKS	IT2 VALVE BOX PLAN AND CONDUIT SCHEDULE	ELECTRICAL	CAROLLO	100%		1	1	1	1
488	40	SITE WORKS	IT2 CONNECTION TEMPORARY BYPASS PUMPING REQUIREMENTS	MECHANICAL	CAROLLO	100%		1	1	1	1
489	41	SITE WORKS	PRIMARY INFLUENT DROP BOX DEMO PLAN AND SECTIONS	MECHANICAL	CAROLLO	100%		1	1	1	1
490	42	SITE WORKS	PRIMARY INFLUENT DROP BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	STRUCTURAL	CAROLLO	100%	1	1	1	1	1
491	43	SITE WORKS	PRIMARY INFLUENT DROP BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	STRUCTURAL	CAROLLO	100%		1	1	1	1
492	44	SITE WORKS	PRIMARY INFLUENT DROP BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	MECHANICAL	CAROLLO	100%		1	1	1	1
493	45	SITE WORKS	PRIMARY INFLUENT DROP BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	MECHANICAL	CAROLLO	100%		1	1	1	1
494	46	SITE WORKS	PRIMARY INFLUENT DROP BOX PLAN AND CONDUIT SCHEDULE	ELECTRICAL	CAROLLO	100%		1	1	1	1
495	47	SITE WORKS	PRIMARY INFLUENT DISTRIBUTION BOX DEMO PLAN AND SECTIONS	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
496	48	SITE WORKS	PRIMARY INFLUENT DISTRIBUTION BOX MECHANICAL PLAN AND SECTION	MECHANICAL	CAROLLO	100%	1	1	1	1	1
497	49	SITE WORKS	PRIMARY INFLUENT DISTRIBUTION BOX PLAN AND CONDUIT SCHEDULE	ELECTRICAL	CAROLLO	100%		1	1	1	1
498	50	SITE WORKS	EFFLUENT LINE CONNECTION DEMO PLAN AND SECTIONS	CIVIL/YARD PIPING	CAROLLO	100%	1	1	1	1	1
499	51	SITE WORKS	EFFLUENT VALVE BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	STRUCTURAL	CAROLLO	100%		1	1	1	1
500	52	SITE WORKS	EFFLUENT VALVE BOX STRUCTURAL AND MECHANICAL PLAN AND SECTION	MECHANICAL	CAROLLO	100%		1	1	1	1
501	53	SITE WORKS	EFFLUENT VALVE BOX PLAN AND CONDUIT SCHEDULE	ELECTRICAL	CAROLLO	100%		1	1	1	1
502	54	SITE WORKS	EFFLUENT LINE TEMPORARY BYPASS PUMPING REQUIREMENTS	MECHANICAL	CAROLLO	100%		1	1	1	1
503	55	SITE WORKS	OVERALL ELECTRICAL SITE PLAN	ELECTRICAL	JACOBS	100%	1	1	1	1	1
504	56	SITE WORKS	ELECTRICAL SITE PLAN - AREA 1	ELECTRICAL	JACOBS	100%		1	1	1	1
505	57	SITE WORKS	ELECTRICAL SITE PLAN - AREA 2	ELECTRICAL	JACOBS	100%		1	1	1	1
506	58	SITE WORKS	ELECTRICAL SITE PLAN - AREA 3	ELECTRICAL	JACOBS	100%		1	1	1	1
507	59	SITE WORKS	ELECTRICAL SITE PLAN - AREA 4	ELECTRICAL	JACOBS	100%		1	1	1	1
508	60	SITE WORKS	MANHOLE/HANDHOLE AND DISCONNECT SCHEDULE	ELECTRICAL	JACOBS	100%		1	1	1	1
509	61	SITE WORKS	LUMINAIRE AND CONTROL COMPONENT SCHEDULE	ELECTRICAL	JACOBS	100%		1	1	1	1
510	62	SITE WORKS	DUCT BANK SECTIONS 1	ELECTRICAL	JACOBS	100%		1	1	1	1
511	63	SITE WORKS	DUCT BANK SECTIONS 2	ELECTRICAL	JACOBS	100%		1	1	1	1
512	64	SITE WORKS	DUCT BANK SECTIONS 3	ELECTRICAL	JACOBS	100%		1	1	1	1
513	65	SITE WORKS	DUCT BANK SECTIONS 4	ELECTRICAL	JACOBS	100%		1	1	1	1
514	66	SITE WORKS	DUCT BANK SECTIONS 5	ELECTRICAL	JACOBS	100%		1	1	1	1
515	67	SITE WORKS	DUCT BANK SECTIONS 6	ELECTRICAL	JACOBS	100%		1	1	1	1
516	68	SITE WORKS	DUCT BANK SECTIONS 7	ELECTRICAL	JACOBS	100%		1	1	1	1
517	69	SITE WORKS	DUCT BANK SECTIONS 8	ELECTRICAL	JACOBS	100%		1	1	1	1
518	70	SITE WORKS	LANDSCAPING GENERAL PLANTING NOTES	LANDSCAPE ARCHITECT	JACOBS	100%		1	1	1	1
519	71	SITE WORKS	LANDSCAPING GENERAL PLANTING DETAILS	LANDSCAPE ARCHITECT	JACOBS	100%		1	1	1	1
520	72	SITE WORKS	PLANTING PLAN - AREA 1	LANDSCAPE ARCHITECT	JACOBS	100%		1	1	1	1
521	73	SITE WORKS	PLANTING PLAN - AREA 2	LANDSCAPE ARCHITECT	JACOBS	100%		1	1	1	1
VEHICLE AND MAINTENANCE BUILDING											
522	1	MAINTENANCE BUILDING	MAINTENANCE BUILDING FOUNDATION PLAN	STRUCTURAL	JACOBS	100%		1</			

Drawing Count	Individual Count	Facility	Title	Discipline	JACOBS/CAROLLO	COMPLETION	BODR 10	PRD3 0	DD60	DD90	CD100
533	12	MAINTENANCE BUILDING	MAINTENANCE BUILDING PLUMBING DRAIN DRAWINGS	PLUMBING	JACOBS	100%		1	1	1	1
534	13	MAINTENANCE BUILDING	MAINTENANCE BUILDING PLUMBING DRAIN DRAWINGS	PLUMBING	JACOBS	100%			1	1	1
535	14	MAINTENANCE BUILDING	MAINTENANCE BUILDING SECURITY DETAILS -1	SECURITY	JACOBS	100%		1	1	1	1
536	15	MAINTENANCE BUILDING	MAINTENANCE BUILDING SECURITY DETAILS -2	SECURITY	JACOBS	100%		1	1	1	1
537	16	MAINTENANCE BUILDING	MAINTENANCE BUILDING SECURITY DETAILS -3	SECURITY	JACOBS	100%			1	1	1
DETAILS											
538	1	DETAILS	TYPICAL DETAILS ARCHITECTURAL 1	ARCHITECTURAL	JACOBS	100%			1	1	1
539	2	DETAILS	TYPICAL DETAILS ARCHITECTURAL 2	ARCHITECTURAL	JACOBS	100%			1	1	1
540	3	DETAILS	TYPICAL DETAILS ARCHITECTURAL 3	ARCHITECTURAL	JACOBS	100%			1	1	1
541	4	DETAILS	TYPICAL DETAILS ARCHITECTURAL 4	ARCHITECTURAL	JACOBS	100%			1	1	1
542	5	DETAILS	TYPICAL DETAILS ARCHITECTURAL 5	ARCHITECTURAL	JACOBS	100%			1	1	1
543	6	DETAILS	TYPICAL DETAILS ARCHITECTURAL 6	ARCHITECTURAL	JACOBS	100%				1	1
544	7	DETAILS	TYPICAL DETAILS ARCHITECTURAL 7	ARCHITECTURAL	JACOBS	100%				1	1
545	8	DETAILS	TYPICAL DETAILS ARCHITECTURAL 8	ARCHITECTURAL	JACOBS	100%				1	1
546	9	DETAILS	TYPICAL DETAILS CIVIL 1	CIVILYARD PIPING	CAROLLO	100%			1	1	1
547	10	DETAILS	TYPICAL DETAILS CIVIL 2	CIVILYARD PIPING	CAROLLO	100%			1	1	1
548	11	DETAILS	TYPICAL DETAILS CIVIL 3	CIVILYARD PIPING	CAROLLO	100%				1	1
549	12	DETAILS	TYPICAL DETAILS CIVIL 4	CIVILYARD PIPING	CAROLLO	100%				1	1
550	13	DETAILS	TYPICAL DETAILS ELECTRICAL 1	ELECTRICAL	JACOBS	100%			1	1	1
551	14	DETAILS	TYPICAL DETAILS ELECTRICAL 2	ELECTRICAL	JACOBS	100%			1	1	1
552	15	DETAILS	TYPICAL DETAILS ELECTRICAL 3	ELECTRICAL	JACOBS	100%			1	1	1
553	16	DETAILS	TYPICAL DETAILS ELECTRICAL 4	ELECTRICAL	JACOBS	100%			1	1	1
554	17	DETAILS	TYPICAL DETAILS ELECTRICAL 5	ELECTRICAL	JACOBS	100%			1	1	1
555	18	DETAILS	TYPICAL DETAILS ELECTRICAL 6	ELECTRICAL	JACOBS	100%			1	1	1
556	19	DETAILS	TYPICAL DETAILS ELECTRICAL 7	ELECTRICAL	JACOBS	100%			1	1	1
557	20	DETAILS	TYPICAL DETAILS ELECTRICAL 8	ELECTRICAL	JACOBS	100%				1	1
558	21	DETAILS	TYPICAL DETAILS ELECTRICAL 9	ELECTRICAL	JACOBS	100%				1	1
559	22	DETAILS	TYPICAL DETAILS ELECTRICAL 10	ELECTRICAL	JACOBS	100%				1	1
560	23	DETAILS	TYPICAL DETAILS HVAC 1	HVAC	CAROLLO	100%			1	1	1
561	24	DETAILS	TYPICAL DETAILS HVAC 2	HVAC	CAROLLO	100%			1	1	1
562	25	DETAILS	TYPICAL DETAILS HVAC 3	HVAC	CAROLLO	100%			1	1	1
563	26	DETAILS	TYPICAL DETAILS HVAC 4	HVAC	CAROLLO	100%				1	1
564	27	DETAILS	TYPICAL DETAILS HVAC 5	HVAC	CAROLLO	100%				1	1
565	28	DETAILS	TYPICAL DETAILS MECHANICAL 1	MECHANICAL	JACOBS	100%			1	1	1
566	29	DETAILS	TYPICAL DETAILS MECHANICAL 2	MECHANICAL	JACOBS	100%			1	1	1
567	30	DETAILS	TYPICAL DETAILS MECHANICAL 3	MECHANICAL	JACOBS	100%				1	1
568	31	DETAILS	TYPICAL DETAILS MECHANICAL 4	MECHANICAL	JACOBS	100%			1	1	1
569	32	DETAILS	TYPICAL DETAILS INSTRUMENTATION 1	INSTRUMENTATION	JACOBS	100%			1	1	1
570	33	DETAILS	TYPICAL DETAILS INSTRUMENTATION 2	INSTRUMENTATION	JACOBS	100%			1	1	1
571	34	DETAILS	TYPICAL DETAILS INSTRUMENTATION 3	INSTRUMENTATION	JACOBS	100%			1	1	1
572	35	DETAILS	TYPICAL DETAILS INSTRUMENTATION 4	INSTRUMENTATION	JACOBS	100%			1	1	1
573	36	DETAILS	TYPICAL DETAILS INSTRUMENTATION 5	INSTRUMENTATION	JACOBS	100%				1	1
574	37	DETAILS	TYPICAL DETAILS INSTRUMENTATION 6	INSTRUMENTATION	JACOBS	100%				1	1
575	38	DETAILS	TYPICAL DETAILS INSTRUMENTATION 7	INSTRUMENTATION	JACOBS	100%				1	1
576	39	DETAILS	TYPICAL DETAILS INSTRUMENTATION 8	INSTRUMENTATION	JACOBS	100%				1	1
577	40	DETAILS	TYPICAL DETAILS PIPING 1	MECHANICAL	JACOBS	100%			1	1	1
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580	43	DETAILS	TYPICAL DETAILS PIPING 4	MECHANICAL	JACOBS	100%			1	1	1
581	44	DETAILS	TYPICAL DETAILS PIPING 5	MECHANICAL	JACOBS	100%			1	1	1
582	45	DETAILS	TYPICAL DETAILS PIPING 6	MECHANICAL	JACOBS	100%			1	1	1
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585	48	DETAILS	TYPICAL DETAILS PIPING 9	MECHANICAL	JACOBS	100%			1	1	1
586	49	DETAILS	TYPICAL DETAILS PIPING 10	MECHANICAL	JACOBS	100%			1	1	1
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590	53	DETAILS	TYPICAL DETAILS PIPING 14	MECHANICAL	JACOBS	100%				1	1
591	54	DETAILS	TYPICAL DETAILS PIPING 15	MECHANICAL	JACOBS	100%				1	1
592	55	DETAILS	TYPICAL DETAILS STRUCTURAL 1	STRUCTURAL	CAROLLO	100%			1	1	1
593	56	DETAILS	TYPICAL DETAILS STRUCTURAL 2	STRUCTURAL	CAROLLO	100%			1	1	1
594	57	DETAILS	TYPICAL DETAILS STRUCTURAL 3	STRUCTURAL	CAROLLO	100%			1	1	1
595	58	DETAILS	TYPICAL DETAILS STRUCTURAL 4	STRUCTURAL	CAROLLO	100%			1	1	1
596	59	DETAILS	TYPICAL DETAILS STRUCTURAL 5	STRUCTURAL	CAROLLO	100%			1	1	1
597	60	DETAILS	TYPICAL DETAILS STRUCTURAL 6	STRUCTURAL	CAROLLO	100%			1	1	1
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599	62	DETAILS	TYPICAL DETAILS STRUCTURAL 8	STRUCTURAL	CAROLLO	100%			1	1	1
600	63	DETAILS	TYPICAL DETAILS STRUCTURAL 9	STRUCTURAL	CAROLLO	100%			1	1	1
601	64	DETAILS	TYPICAL DETAILS STRUCTURAL 10	STRUCTURAL	CAROLLO	100%			1	1	1
602	65	DETAILS	TYPICAL DETAILS STRUCTURAL 11	STRUCTURAL	CAROLLO	100%				1	1
603	66	DETAILS	TYPICAL DETAILS STRUCTURAL 12	STRUCTURAL	CAROLLO	100%				1	1
604	67	DETAILS	TYPICAL DETAILS STRUCTURAL 13	STRUCTURAL	CAROLLO	100%				1	1
605	68	DETAILS	TYPICAL DETAILS STRUCTURAL 14	STRUCTURAL	CAROLLO	100%				1	1
606	69	DETAILS	TYPICAL DETAILS LANDSCAPE ARCHITECTURE 1	LANDSCAPE ARCHITECTURE	JACOBS	100%			1	1	1
607	70	DETAILS	TYPICAL DETAILS LANDSCAPE ARCHITECTURE 2	LANDSCAPE ARCHITECTURE	JACOBS	100%			1	1	1
608	71	DETAILS	TYPICAL DETAILS LANDSCAPE ARCHITECTURE 3	LANDSCAPE ARCHITECTURE	JACOBS	100%				1	1
OLD ROSSMAN LANDFILL REMEDIATION											
609	1	COVER SHEET	General	GENERAL	JACOBS						
610	2	LEGEND, ABBREVIATIONS, GENERAL NOTES	General	GENERAL	JACOBS				1	1	1
611	3	CONTROL SCHEDULE TABLES	General	GENERAL	JACOBS					1	1
612	4	EXISTING OVERALL PLAN, KEY MAP	General	GENERAL	JACOBS				1	1	1
613	5	CONTRACTOR ACCESS, STAGING AND	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
614	6	SITE PLAN - OVERALL	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
615	7	UTILITY, LINER LIMITS	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
616	8	DRAINAGE PLAN - OVERALL	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
617	9	PROFILES	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
618	10	PROFILES	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
619	11	PROFILES	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
620	12	PROFILES	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
621	13	EXISTING PLAN A	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
622	14	EXISTING PLAN B	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
623	15	EXISTING PLAN C	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
624	16	EXISTING PLAN D	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
625	17	GRADING PLAN - AREA A	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
626	18	GRADING PLAN - AREA B	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
627	19	GRADING PLAN - AREA C	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
628	20	GRADING PLAN - AREA D	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
629	21	STOCKPILE PLAN A	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
630	22	STOCKPILE PLAN B	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
631	23	DETAILS - TESC	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
632	24	DETAILS - TESC	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
633	25	DETAILS - FINAL AND INTERIM COVER	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
634	26	DETAILS - LINER AND GAS	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
635	27	DETAILS - GENERAL	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1
636	28	DETAILS - GENERAL	CIVIL	CIVILYARD PIPING	JACOBS				1	1	1

Attachment B

Budget



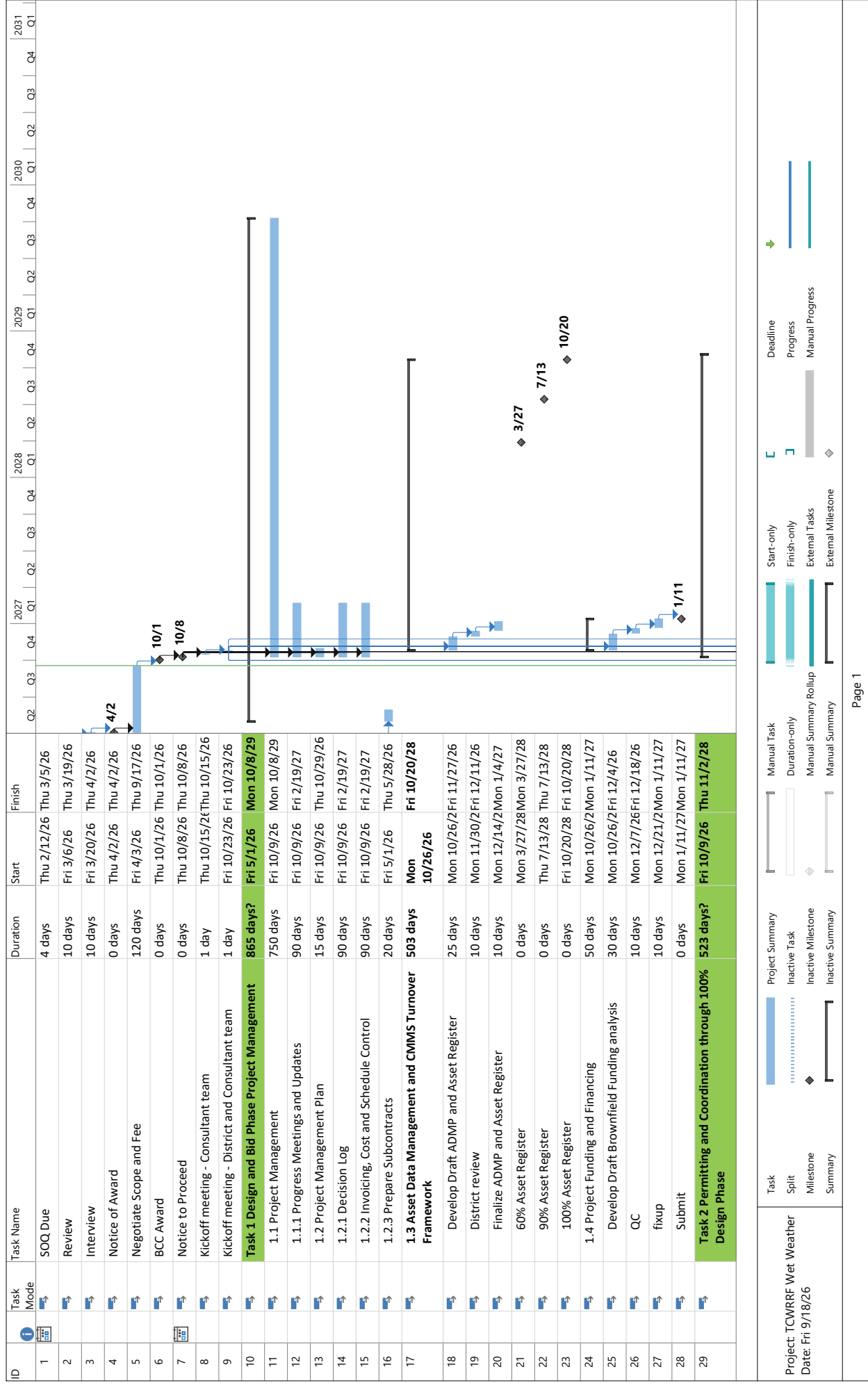
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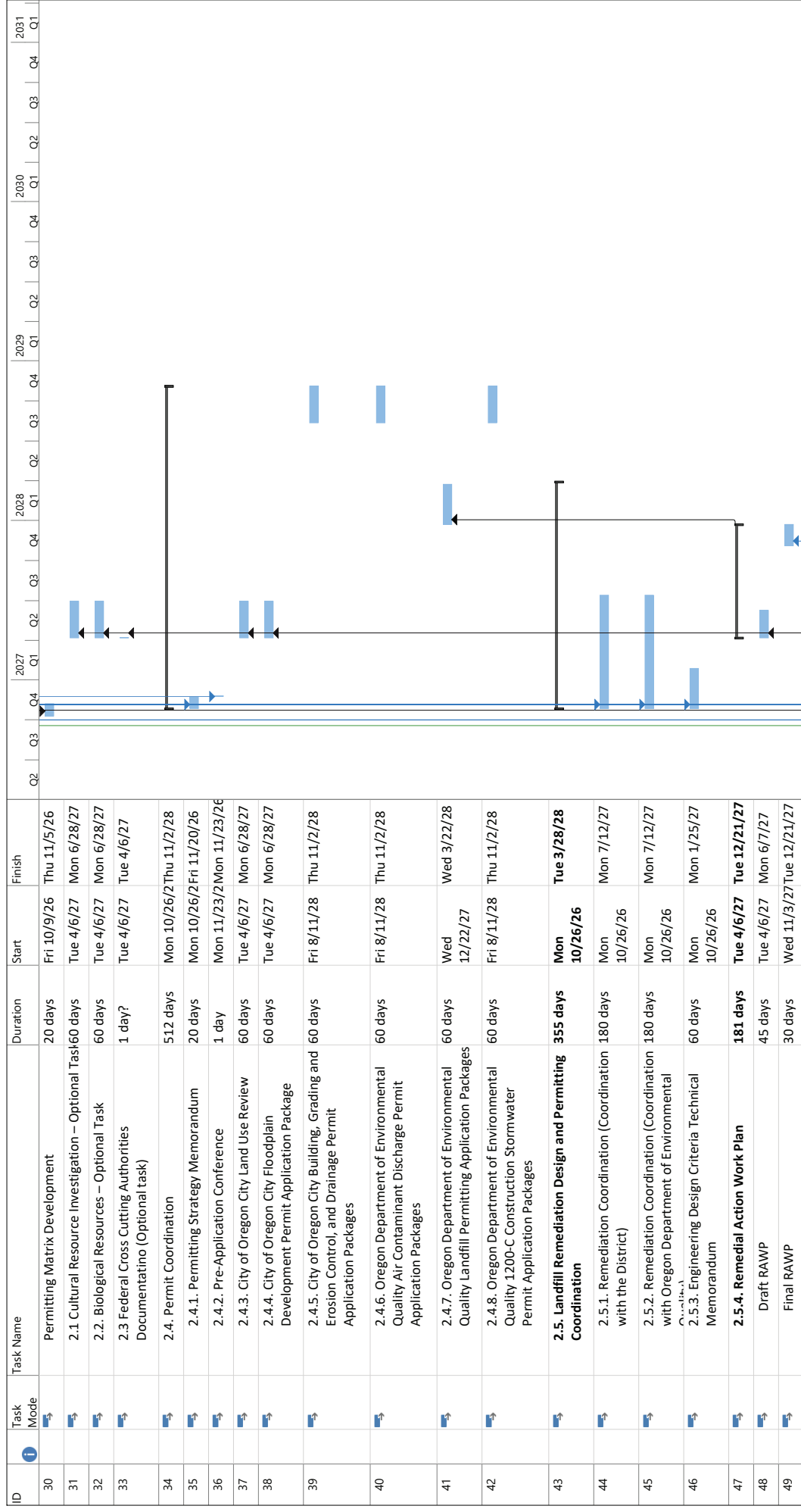
Project Overview		Financial Performance (USD Millions)										Key Metrics		Timeline		Status	
		Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin
Detailed Financial Data (USD Millions)																	
Year	Quarter	Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin	Revenue	Cost	Profit	Margin
2023	Q1	100	60	40	40%	100	60	40	40%	100	60	40	40%	100	60	40	40%
	Q2	120	70	50	42%	120	70	50	42%	120	70	50	42%	120	70	50	42%
	Q3	110	65	45	41%	110	65	45	41%	110	65	45	41%	110	65	45	41%
	Q4	130	75	55	42%	130	75	55	42%	130	75	55	42%	130	75	55	42%
2024	Q1	140	80	60	43%	140	80	60	43%	140	80	60	43%	140	80	60	43%
	Q2	150	85	65	43%	150	85	65	43%	150	85	65	43%	150	85	65	43%
	Q3	160	90	70	44%	160	90	70	44%	160	90	70	44%	160	90	70	44%
	Q4	170	95	75	44%	170	95	75	44%	170	95	75	44%	170	95	75	44%
2025	Q1	180	100	80	44%	180	100	80	44%	180	100	80	44%	180	100	80	44%
	Q2	190	105	85	45%	190	105	85	45%	190	105	85	45%	190	105	85	45%
	Q3	200	110	90	45%	200	110	90	45%	200	110	90	45%	200	110	90	45%
	Q4	210	115	95	45%	210	115	95	45%	210	115	95	45%	210	115	95	45%
2026	Q1	220	120	100	45%	220	120	100	45%	220	120	100	45%	220	120	100	45%
	Q2	230	125	105	46%	230	125	105	46%	230	125	105	46%	230	125	105	46%
	Q3	240	130	110	46%	240	130	110	46%	240	130	110	46%	240	130	110	46%
	Q4	250	135	115	46%	250	135	115	46%	250	135	115	46%	250	135	115	46%
2027	Q1	260	140	120	46%	260	140	120	46%	260	140	120	46%	260	140	120	46%
	Q2	270	145	125	46%	270	145	125	46%	270	145	125	46%	270	145	125	46%
	Q3	280	150	130	46%	280	150	130	46%	280	150	130	46%	280	150	130	46%
	Q4	290	155	135	47%	290	155	135	47%	290	155	135	47%	290	155	135	47%
2028	Q1	300	160	140	47%	300	160	140	47%	300	160	140	47%	300	160	140	47%
	Q2	310	165	145	47%	310	165	145	47%	310	165	145	47%	310	165	145	47%
	Q3	320	170	150	47%	320	170	150	47%	320	170	150	47%	320	170	150	47%
	Q4	330	175	155	47%	330	175	155	47%	330	175	155	47%	330	175	155	47%
2029	Q1	340	180	160	47%	340	180	160	47%	340	180	160	47%	340	180	160	47%
	Q2	350	185	165	47%	350	185	165	47%	350	185	165	47%	350	185	165	47%
	Q3	360	190	170	47%	360	190	170	47%	360	190	170	47%	360	190	170	47%
	Q4	370	195	175	47%	370	195	175	47%	370	195	175	47%	370	195	175	47%
2030	Q1	380	200	180	47%	380	200	180	47%	380	200	180	47%	380	200	180	47%
	Q2	390	205	185	47%	390	205	185	47%	390	205	185	47%	390	205	185	47%
	Q3	400	210	190	47%	400	210	190	47%	400	210	190	47%	400	210	190	47%
	Q4	410	215	195	47%	410	215	195	47%	410	215	195	47%	410	215	195	47%
2031	Q1	420	220	200	48%	420	220	200	48%	420	220	200	48%	420	220	200	48%
	Q2	430	225	205	48%	430	225	205	48%	430	225	205	48%	430	225	205	48%
	Q3	440	230	210	48%	440	230	210	48%	440	230	210	48%	440	230	210	48%
	Q4	450	235	215	48%	450	235	215	48%	450	235	215	48%	450	235	215	48%
2032	Q1	460	240	220	48%	460	240	220	48%	460	240	220	48%	460	240	220	48%
	Q2	470	245	225	48%	470	245	225	48%	470	245	225	48%	470	245	225	48%
	Q3	480	250	230	48%	480	250	230	48%	480	250	230	48%	480	250	230	48%
	Q4	490	255	235	48%	490	255	235	48%	490	255	235	48%	490	255	235	48%
2033	Q1	500	260	240	48%	500	260	240	48%	500	260	240	48%	500	260	240	48%
	Q2	510	265	245	48%	510	265	245	48%	510	265	245	48%	510	265	245	48%
	Q3	520	270	250	48%	520	270	250	48%	520	270	250	48%	520	270	250	48%
	Q4	530	275	255	48%	530	275	255	48%	530	275	255	48%	530	275	255	48%
2034	Q1	540	280	260	48%	540	280	260	48%	540	280	260	48%	540	280	260	48%
	Q2	550	285	265	48%	550	285	265	48%	550	285	265	48%	550	285	265	48%
	Q3	560	290	270	48%	560	290	270	48%	560	290	270	48%	560	290	270	48%
	Q4	570	295	275	48%	570	295	275	48%	570	295	275	48%	570	295	275	48%
2035	Q1	580	300	280	48%	580	300	280	48%	580	300	280	48%	580	300	280	48%
	Q2	590	305	285	48%	590	305	285	48%	590	305	285	48%	590	305	285	48%
	Q3	600	310	290	48%	600	310	290	48%	600	310	290	48%	600	310	290	48%
	Q4	610	315	295	48%	610	315	295	48%	610	315	295	48%	610	315	295	48%
2036	Q1	620	320	300	48%	620	320	300	48%	620	320	300	48%	620	320	300	48%
	Q2	630	325	305	48%	630	325	305	48%	630	325	305	48%	630	325	305	48%
	Q3	640	330	310	48%	640	330	310	48%	640	330	310	48%	640	330	310	48%
	Q4	650	335	315	49%	650	335	315	49%	650	335	315	49%	650	335	315	49%
2037	Q1	660	340	320	49%	660	340	320	49%	660	340	320	49%	660	340	320	49%
	Q2	670	345	325	49%	670	345	325	49%	670	345	325	49%	670	345	325	49%
	Q3	680	350	330	49%	680	350	330	49%	680	350	330	49%	680	350	330	49%
	Q4	690	355	335	49%	690	355	335	49%	690	355	335	49%	690	355	335	49%
2038	Q1	700	360	340	49%	700	360	340	49%	700	360	340	49%	700	360	340	49%
	Q2	710	365	345	49%	710	365	345	49%	710	365	345	49%	710	365	345	49%
	Q3	720	370	350	49%	720	370	350	49%	720	370	350	49%	720	370	350	49%
	Q4	730	375	355	49%	730	375	355	49%	730	375	355	49%	730	375	355	49%
2039	Q1	740	380	360	49%	740	380	360	49%	740	380	360	49%	740	380	360	49%
	Q2	750	385	365	49%	750	385	365	49%	750	385	365	49%	750	385	365	49%
	Q3	760	390	370	49%	760	390	370	49%	760	390	370	49%	760	390	370	49%
	Q4	770	395	375	49%	770	395	375	49%	770	395	375	49%	770	395	375	49%
2040	Q1	780	400	380	49%	780	400	380	49%	780	400	380	49%	780	400	380	49%
	Q2	790	405	385	49%	790	405	385	49%	790	405	385	49%	790	405	385	49%
	Q3	800	410	390	49%	800	410	390	49%	800	410	390	49%	800	410	390	49%
	Q4	810	415	395	49%	810	415	395	49%	810	415	395	49%	810	415	395	49%
2041	Q1	820	420	400	49%	820	420	400	49%	820	420	400	49%	820	420	400	49%
	Q2	830	425	405	49%	830	425	405	49%	830	425	405	49%	830	425	405	49%
	Q3	840	430	410	49%	840	430	410	49%	840	430	410	49%	840	430	410	49%
	Q4	850	435	415	49%	850	435	415	49%	850	435	415	49%	850	435	415	49%
2042	Q1	860	440	420	49%	860	440	420	49%	860	440	420	49%	860	440	420	49%
	Q2	870	445	425	49%	870	445	425	49%	870	445	425	49%	870	445	425	49%
	Q3	880	450	430	49%	880	450	430	49%	880	450	430	49%	880	450	430	49%
	Q4	890	455	435	49%	890	455	435	49%	890	455	435	49%	890	455	435	49%
2043	Q1	900	460	440	49%	900	460	440	49%	900	460	440	49%	900	460	440	49%
	Q2	910	465	445	49%	910	465	445	49%	910	465	445	49%	910	465	445	49%
	Q3	920	470	450	49%	920	470	450	49%	920	470	450	49%	920	470	450	49%
	Q4	930	475	455	49%	930	475	455	49%	930	475	455	49%	930	475	455	49%
2044	Q1	940	480	460	49%	940	480	460	49%	940	480	460	49%	940	480	460	49%
	Q2	950	485	465	49%	950	485	465	49%	950	485	465	49%	950	485	465	49%
	Q3	960	490	470	49%	960	490	470	49%	960	490	470	49%	960	490	470	49%
	Q4	970	495	475	49%	970	495	475	49%	970	495	475	49%	970	495	475	49%
2045	Q1	980</															

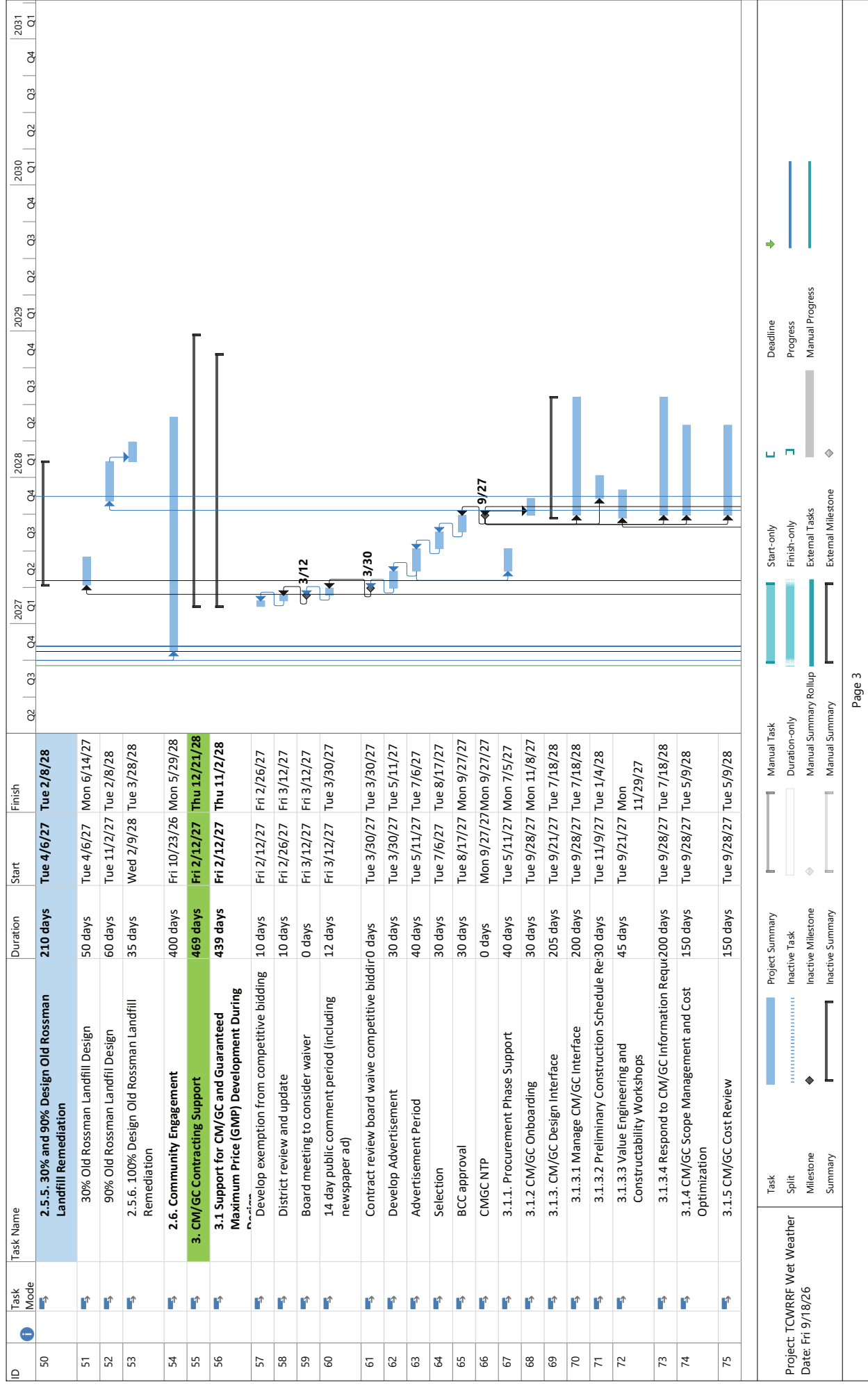
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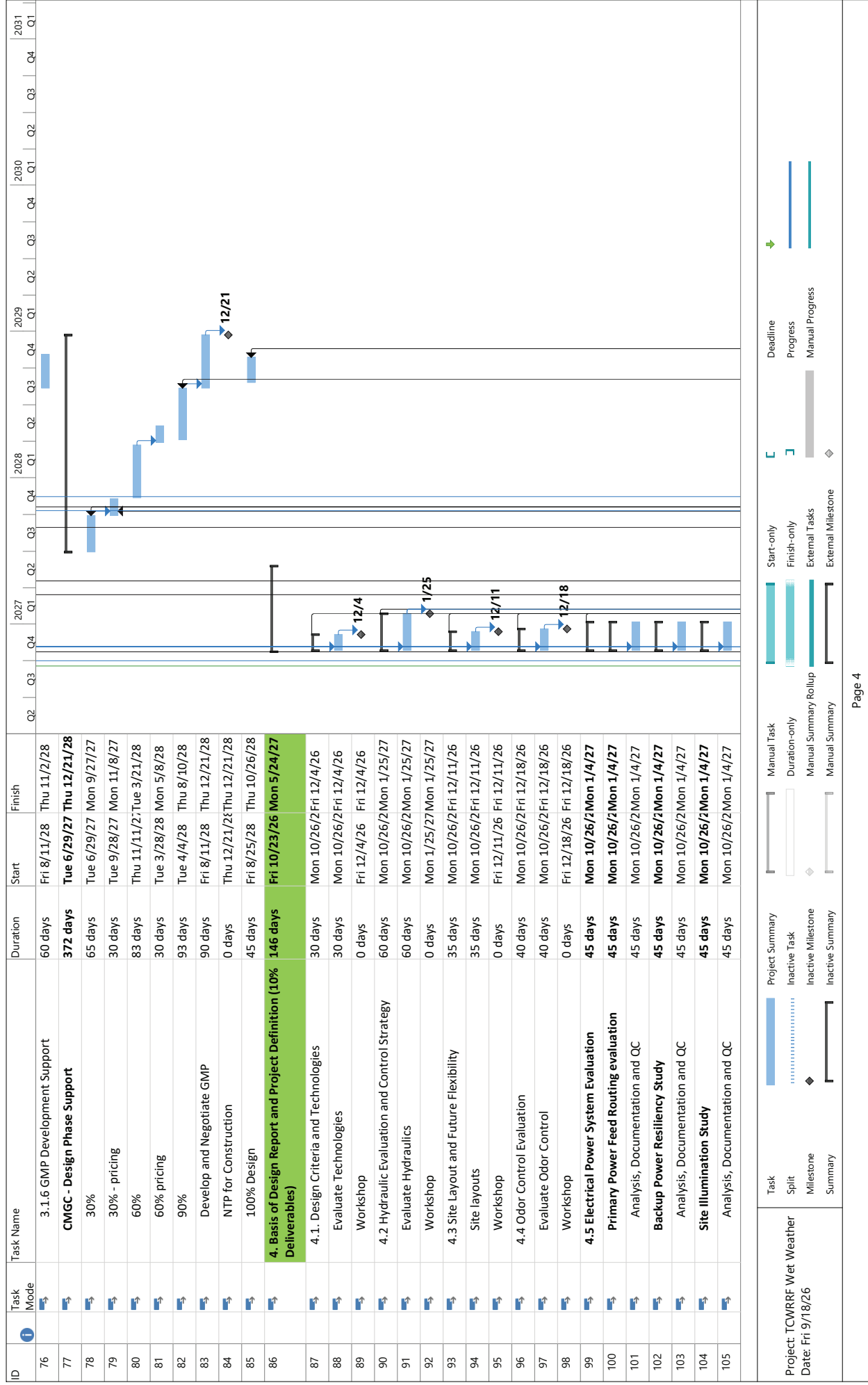
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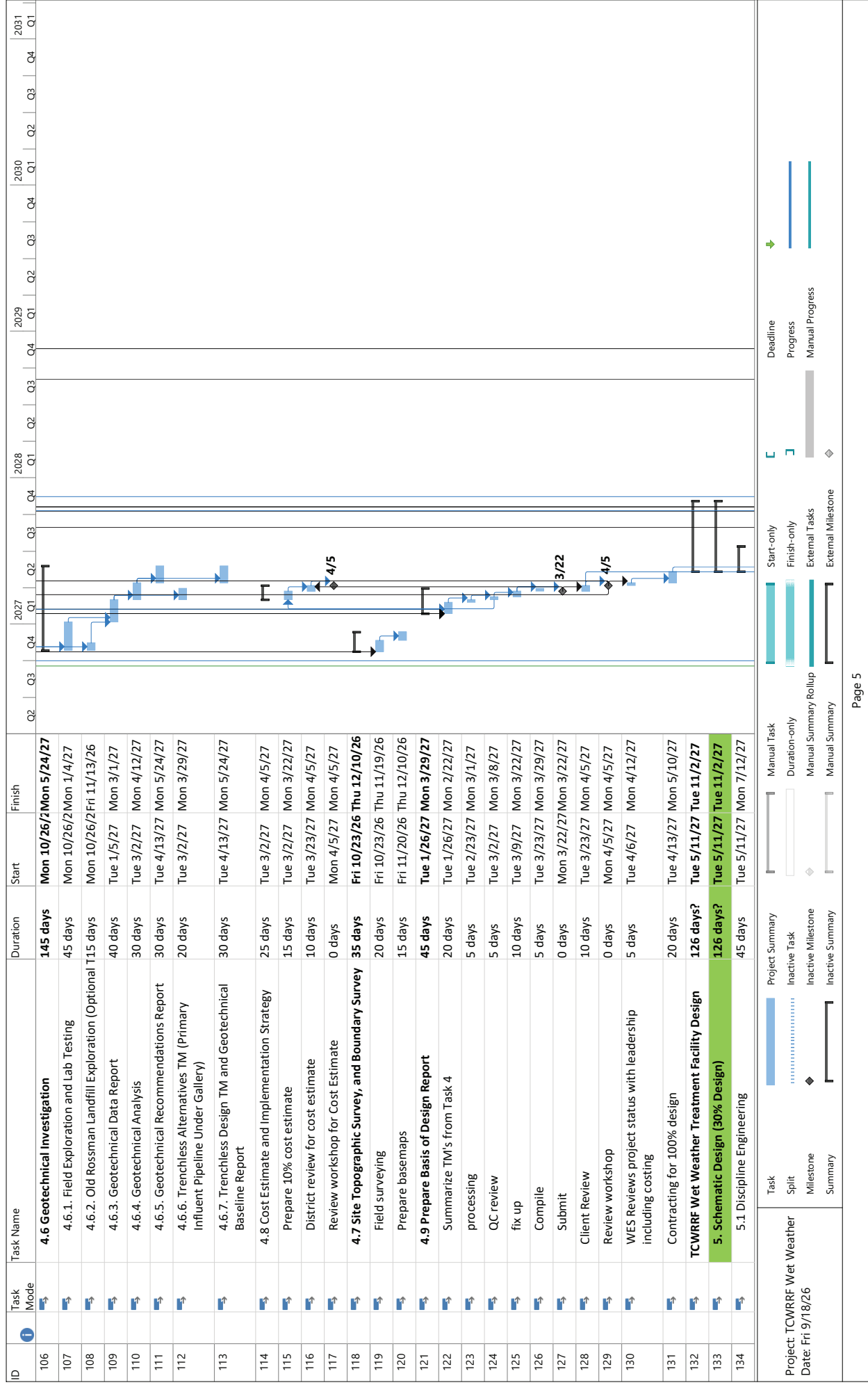












ID	Task Mode	Task Name	Duration	Start	Finish	2027	2028	2029	2030	2031
135		Schematic Design Engineering	45 days	Tue 5/11/27	Mon 7/12/27	Q2	Q3	Q4	Q1	Q2
136		5.4 Schematic Design Workshops	113 days	Fri 5/28/27	Tue 11/2/27	Q2	Q3	Q4	Q1	Q2
137		Midpoint workshop	1 day	Fri 5/28/27	Fri 5/28/27	Q2	Q3	Q4	Q1	Q2
138		Final Workshop	1 day	Tue 11/2/27	Tue 11/2/27	Q2	Q3	Q4	Q1	Q2
139		Schematic Design Construction Cost Estimate	20 days	Tue 8/31/27	Mon 9/27/27	Q2	Q3	Q4	Q1	Q2
140		prepare estimate	10 days	Tue 8/31/27	Mon 9/13/27	Q2	Q3	Q4	Q1	Q2
141		engineer review	5 days	Tue 9/14/27	Mon 9/20/27	Q2	Q3	Q4	Q1	Q2
142		finalize and submit	5 days	Tue 9/21/27	Mon 9/27/27	Q2	Q3	Q4	Q1	Q2
143		Prepare Schematic Design Report	55 days	Tue 7/13/27	Mon 9/27/27	Q2	Q3	Q4	Q1	Q2
144		Schematic Design Report	30 days	Tue 7/13/27	Mon 8/23/27	Q2	Q3	Q4	Q1	Q2
145		processing	5 days	Tue 8/24/27	Mon 8/30/27	Q2	Q3	Q4	Q1	Q2
146		QC review	5 days	Tue 8/31/27	Mon 9/6/27	Q2	Q3	Q4	Q1	Q2
147		fix up	10 days	Tue 9/7/27	Mon 9/20/27	Q2	Q3	Q4	Q1	Q2
148		print and submit	5 days	Tue 9/21/27	Mon 9/27/27	Q2	Q3	Q4	Q1	Q2
149		Client Review	15 days	Tue 9/28/27	Mon 10/18/27	Q2	Q3	Q4	Q1	Q2
150		Review workshop	1 day?	Tue 11/2/27	Tue 11/2/27	Q2	Q3	Q4	Q1	Q2
151		Future Services (Not in Initial 30% Authorization	816 days?	Fri 10/23/26	Tue 1/22/30	Q2	Q3	Q4	Q1	Q2
152		6 Early Work Authorization (EWA) Equipment and Materials Procurement Support	440 days?	Wed 4/26/28	Tue 1/22/30	Q2	Q3	Q4	Q1	Q2
168		7. Design Development Phase (60% Deliverables)	114 days?	Tue 11/2/27	Tue 4/25/28	Q2	Q3	Q4	Q1	Q2
203		8. Draft Contract Documents Preparation (90% Deliverables)	98 days	Tue 3/28/28	Thu 8/10/28	Q2	Q3	Q4	Q1	Q2
236		9 Final Contract Documents Preparation (100% Deliverables)	65 days	Fri 7/28/28	Thu 10/26/28	Q2	Q3	Q4	Q1	Q2
243		10 Quality Management 10% - 100% Design and Bid Phase Services	720 days	Fri 10/23/26	Mon 9/10/29	Q2	Q3	Q4	Q1	Q2
244		Task 11 Bid-Phase and Construction-Phase Services	795 days	Wed 4/19/28	Tue 5/27/31	Q2	Q3	Q4	Q1	Q2

Project: TCWRRF Wet Weather

Date: Fri 9/18/26

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

EXHIBIT B

ADDITIONAL FEDERAL TERMS AND CONDITIONS

As used herein, “Contractor” means Jacobs Engineering Group Inc., and “District” means Water Environment Services, an intergovernmental entity formed pursuant to ORS Chapter 190.

1. The District intends that all or a portion of the consideration paid to Contractor will be eligible for reimbursement by one or more federal agencies including, but not limited to, the Federal Emergency Management Agency (“FEMA”). This Contract is subject to the additional terms and conditions required by federal law for a federal award. All terms and conditions required under applicable federal law for a federal award including, but not limited to, 2 C.F.R. § 200.326 and 2 C.F.R. § Pt. 200, App. II, are hereby incorporated by this reference herein.
2. Termination. This Contract may be terminated by mutual agreement of the parties or by the District for one of the following reasons: (i) for convenience upon thirty (30) days written notice to Contractor; or (ii) at any time the District fails to receive funding, appropriations, or other expenditure authority as solely determined by the District.
3. By execution of this Contract, Contractor hereby certifies that it and all subcontractors will comply with (i) all Federal statutes relating nondiscrimination, including, but not limited to: Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis race, color or national origin; Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 et seq.), which prohibits discrimination on the basis of sex; the Age Discrimination Act of 1975, as amended (29 U.S.C. §§6101 et seq.), which prohibits discrimination on the basis of age; the Rehabilitation Act of 1973, as amended (29 U.S.C. §§793 et seq.), which prohibits discrimination against requires affirmative action for qualified individuals with disabilities; the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (42 U.S.C. §§4541 et seq.), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; Title VII of the Civil Rights Act of 1969 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; any other discrimination provisions in the specific statute(s) under which for Federal assistance is being made; and the requirements of any other nondiscrimination statute(s) which may apply; (ii) will comply with the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352 et. seq.), and shall file the required certification if the award is \$100,000 or more; and (iii) will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
4. If this Contract involves a federal award that meets the definition of a “funding agreement” under 37 CFR § 401.2 (a), and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that

“funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

5. If this Agreement is in excess of \$150,000, Contractor certifies that it and all subcontractors will comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, 42 U.S.C. 7401 et seq., and the Federal Water Pollution Control Act, as amended 33 U.S.C. 1251 et seq. Violations shall be reported to the awarding Federal Department and the appropriate Regional Office of the Environmental Protection Agency. Contractor shall include these requirements in all contracts with subcontractors receiving more than \$150,000.
6. If this Agreement is in excess of \$100,000 and involves the employment of mechanics or laborers, Contractor and all subcontractors will comply with all applicable standards, orders or regulations issued pursuant to the Contract Work Hours and Safety Standards Act 40 USC §§3701 et seq. as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II, ¶ E. Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Further, no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous. Contractor shall include and require all providers to include in all contracts with subcontractors receiving more than \$100,000, language requiring the subcontractor to comply with the federal laws identified in this section.
7. Contractor shall comply with 2 CFR Part 180 (including executive orders 12549 and 12689). These regulations restrict sub-awards and contracts with certain parties that are debarred, suspended or otherwise excluded from or ineligible for participation in federal assistance programs or activities. Contractor is responsible for further requiring the inclusion of a similar term or condition in any subsequent lower tier covered transactions. Contractor may access the Excluded Parties List System at <https://www.sam.gov>. The Excluded Parties List System contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than E.O. 12549 and 12689. Awards that exceed the simplified acquisition threshold shall provide the required certification regarding their exclusion status and that of their principals prior to award. Contractor is required to verify that none of the Contractor's principals (defined at 2 C.F.R. 180.995) or its affiliates (defined at 2 C.F.R. 180.905) are excluded (defined at 2 C.F.R. 180.940) or disqualified (defined at 2 C.F.R. 180.935). The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction that Contractor enters into. This certification is a material representation of fact relied upon by the District. If it is later determined that the Contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, then in addition to remedies available to the District, the Federal Government may pursue available remedies, including but not limited to

suspension and/or debarment.

8. Record Retention. Contractor will retain and keep accessible all such financial records, books, documents, papers, plans, records of shipments and payments and writings that are directly related to this Agreement for a minimum of six (6) years, or such longer period as may be required by the federal agency or applicable state law, following final payment and termination of this Agreement, or until the conclusion of any audit, controversy or litigation arising out of or related to this Agreement, whichever date is later, according to 2 CFR 200.333-337. Contractor agrees to provide to the District, to the FEMA Administrator, to the Comptroller General of the United States, or to any of their authorized representatives, access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions. Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

The Contractor agrees to provide the FEMA Administrator or the Administrator's authorized representative's access to construction or other work sites pertaining to the Work being completed under the Contract. In compliance with the Disaster Recovery Act of 2018, the District and the Contractor acknowledge and agree that no language in this Contract is intended to prohibit audits or internal reviews by the appropriate federal administrator, including the FEMA Administrator, or the Comptroller General of the United States.

9. DHS Seal, Logo, and Flags: Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.
10. Compliance with Federal Law and Regulations: This is an acknowledgement that FEMA financial assistance may be used to fund this Contract only. Contractor will comply with all federal law, regulations, FEMA policies, procedures, and directives.
11. No Obligation by Federal Government: The Federal Government is not a party to this Contract and is not subject to any obligations or liabilities to the non-Federal entity, Contractor, or any other party pertaining to any matter resulting from the contract.
12. Program Fraud and False or Fraudulent Statements or Related Acts: Contractor acknowledges the 31 U.S.C. Chapter 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this Contract.
13. Contractor will comply with all applicable requirements of 2 CFR 200.216, 2 CFR 200.321, and 2 CFR 200.322.
14. Procurement of Recovered Materials (2 CFR 200.323): Contractor must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. Information about this requirement, along with the list of EPA-designate items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

15. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended). Contractors who apply or bid for an award of \$100,000 or more shall file the required certification, set forth below. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

Contractor hereby makes the following certification:

Byrd Anti-Lobbying Amendment Certification
for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

- A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- C. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.



Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date