

Subcontract

HENSEL PHELPS CONSTRUCTION CO.
Contractor

Issuing Office	<ul style="list-style-type: none">841 Bishop Street Suite 2001 Honolulu, HI 96813
	<ul style="list-style-type: none">Contractor License Number in State of Project if Applicable CT-34875
Subcontractor	<ul style="list-style-type: none">Goodfellow Bros LLC
Subcontract	<ul style="list-style-type: none">Earthwork and Site Utilities
Project	<ul style="list-style-type: none">Sand Island Wastewater Treatment Plant Secondary Treatment Phase I
Project Number	<ul style="list-style-type: none">6021088-0230000

This Subcontract consists of 19 pages numbered 1 of 19 through 19 of 19 and attachments numbered: 2A – 2D

Please initial each page where indicated, affix authorized signature(s) and return THREE (3) copies at once to the issuing office shown above.

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Contractor

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Subcontractor

SUBCONTRACT

THIS SUBCONTRACT is made and entered into this 19th day of November, 2021, by and between

Goodfellow Bros LLC

Attention: Matt Heahlke

1300 Holophono St., Suite 201

Phone: 808.676.1523

Kihei, HI 96753-8043

Fax: 808.879.3674

hereinafter referred to as the Subcontractor and Hensel Phelps Construction Co., hereinafter referred to as the Contractor.

WITNESSETH: That for and in consideration of the mutual promises and covenants herein contained, the Subcontractor and the Contractor agree as follows:

SECTION A. The Subcontractor covenants, promises and agrees to furnish all material and personal property and to diligently and fully perform all work hereinafter described for the construction of the Sand Island Wastewater Treatment Plant Secondary Treatment Phase 1, hereinafter referred to as the Project, to be located at 1350 Sand Island Parkway Honolulu, HI 96819, for the use and benefit of the City and County of Honolulu, hereinafter referred to as the Owner, in strict accordance with the Contract between the Contractor and the Owner entered into 11/18/2021 and hereby made a part of this Subcontract by reference; all to the satisfaction of the Contractor, the Owner, and the representative authorized by the Owner to interpret and judge the performance of the aforesaid Contract and named therein as architect, engineer, contracting officer, or otherwise, when such representative shall have been designated as the Owner's Authorized Agent; and all of which shall be done in timely, faithful and strict compliance with this Subcontract and all the Subcontract Documents described and defined in Section D, Article 1, hereof and elsewhere herein.

SECTION B. The Subcontractor agrees to furnish all necessary management, supervision, labor, materials, tools, supplies, equipment, plant, services, engineering, testing and/or any other act or thing required to diligently and fully perform and complete the portions of the work described as follows:

Complete all Earthwork and Site Utilities as described in the issue for construction Plans and Specification, including Addenda 1-9 as prepared by AECOM, dated March 17, 2021, all Reference Documents provided in the Contract Documents including SI Cov Source Permit-SI-10-13-09, SI NCS Air Permit, SI NSP Permit Renewal Application 2014, 9-73 1973 SIWWTP Phase 1, Ala Moana FM Sections A and C, Job No. 25-52, 30-Jun-1987 Metcalf and Eddy As-Built, W5-00 UV Facility and EPS, Certification of Compliance, Community Workforce Agreement, CCHNL Control Panel Procurement Specifications, CCHNL SCADA HMI Design Standard, CCHNL SCADA PLC Design Standard, All Control Module Standards Files (CM_AIN, CM_CBR, CM_CV, CM_DIN, CM_DOUT, CM_E3PLUS, CM_GEN, CM_M2S, CM_PID, CM_SEC_ASCII, CM_SEC_GSC, CM_SEC_SLV, CM_SMPL, CM_TOT, CM_TOT_FB, & CM_TOT_PUL, CM_V2S, CM_VFD), ControlLogix Design Standards, DeviceNet Design and Implementation Standard, Ethernet Design and Implementation Standard Ethernet Network Standard, Historian Design Standards, Implementation Guidelines for PLC Control Modules and Equipment Modules, PLC Add-on Instruction Summary, HAR Title 11 Asbestos Regs, HAR Title 11 Lead Regs, SIWWTP GEOTECHNICAL DATA REPORT, SIWWTP GEOTECHNICAL ENGINEERING REPORT, SIWWTP Hazmat Report DTC, SIWWTP Phase1_HDOH Construction-EHMP-3-17-2021, Suez Drawings (506047-CTR-0027, 506047-WTS-AU-T02-8523-PH-001, 506047-WTS-AU-T02-8533-FD-001, 506047-CTR-0032, 506047-WTS-IN-T03-0333-LI-001, 506047-WTS-IN-T03-0333-SD-001, 506047-CTR-0028, 506047-WTS-EL-T02-8513-DN-001, 506047-WTS-EL-T02-8523-DD-001, 506047-WTS-EL-T03-0330-BQ-001, 506047-WTS-EL-T03-0330-BQ-021 through 506047-WTS-EL-T03-0330-BQ-028, 506047-WTS-EL-T03-0330-DA-001, 506047-WTS-EL-T03-0330-DA-003, 506047-WTS-EL-T03-0330-DA-021 through 506047-WTS-EL-T03-0330-DA-028, 506047-WTS-EL-T03-0330-DD-001, 506047-WTS-EL-T03-0330-DD-003, 506047-WTS-EL-T03-0330-DD-021 through 506047-WTS-EL-T03-0330-DD-028, 506047-WTS-EL-T03-0330-SD-001, 506047-CTR-0034, 506047-WTS-IN-T03-0347-LI-001, 506047-WTS-IN-T03-0347-SD-001, 506047-WTS-ME-000-1000-DA-001, 506047-WTS-ME-T02-8512-LI-001, 506047-WTS-ME-T03-0309-SD-001, 506047-WTS-ME-T03-0346-LI-001, 506047-WTS-ME-T03-0346-SD-001, 506047-WTS-PR-T02-8511-DI-001, 506047-WTS-PR-T02-8521-DS-000, 506047-WTS-PR-T02-8521-DS-001, 506047-WTS-PR-T02-8521-DS-002, 506047-WTS-PR-T02-8521-DS-102, 506047-WTS-PR-T02-8521-DS-104, 506047-WTS-PR-T02-8521-DS-105, 506047-WTS-PR-T02-8521-DS-107, 506047-WTS-PR-T02-8521-DS-110, 506047-WTS-PR-T02-8521-DS-111, 506047-WTS-PR-T02-8521-DS-112, HP5-2R46-EGMW0-v3-SubmissionDownload, Dewatering Basin Plan-v3, DLNR Letter of Authorization-v3, Exec Order 3939-v3, Exec Order 4498-v3, Groundwater Sample-v3, Injection Well Detail_revised-v3, Overall Site Layout Plan-v3, Site Plan-v3, TMK Map-v3, Topographic Map-v3, uic_welldim1011-v3-v3, Wastestream Process-v3, Overall Elevations A40-015, Overall Sections, Pages from Secondary_Ph1_Bid_Set-Reference, Secondary_Ph1_Bid_Set-Reference, CertificationSignatory20171031 (fillable), UO 3091 Sand Island IND ATC (part 1) – signed, UO 3091 Sand Island IND ATC Fnlrpt.IW, Weekly Drilling Rpt, SERV-0001 ZW Membrane Care, Handling and Storage SUEZ, SERV-0003 ZW500D_Cassette Uncrating Installation Instruction_SRA_suez, Ala Moana FM Section 3_Job No. S7-76_7-JUL-82_Wilson Okamoto & Associates As-Built, W1-11_Ala Moana FM 3&4 As-Built, HDOH DU Variance Letter,

Contractor

Subcontractor

Sand Island WWTP Secondary Treatment Ph 1
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6021088-023000

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SIWWTP_Phase1_HDOH Construction-EHMP_07-08-2021_rev1, E and I Design Standards, 3398-00 Boring Logs, and W9-14 SI-
WWTP UV OCS As-Built Drawings, the Project Baseline Schedule dated 10/1/2021 (Exhibit A), and the Job Information & Policy
Brochure dated 10/1/2021.

All work and materials described in Division 1 (as applies), and Divisions:

1. 01036 – Geotechnical Information (Complete)
2. 01568 – Erosion Control & Sedimentation (Complete)
3. 01910 – Hazardous Materials (As Applies)
4. 02012 – Protecting Existing Underground Utilities (Complete)
5. 02013 – Connections to Existing Buried Pipelines (Complete)
6. 02022 – Decontamination and Safety Procedures (As Applies)
7. 02023 – Subsurface Utility Locating (Potholing) (Complete)
8. 02071 – Geotextiles (Complete)
9. 02075 – Cellular Confinement Slope Protection System (Complete)
10. 02142 – Control of Water (Complete)
11. 02220 – Demolition (As Applies)
12. 02315 – Excavation and Fill (Complete)
13. 02346 – Contaminated Soil Excavation, Transportation, and Reuse (As Applies)
14. 02510 – Water Utilities (Complete)
15. 02530 – Sanitary Sewerage Utilities (Complete)
16. 02615 – Ductile Iron Pipe and Fittings (Complete)
17. 02630 – Storm Drainage Utilities (Complete)
18. 02736 – Temporary Connections (Complete)
19. 02830 – Segmental Retaining Wall (Complete)
20. 02965 – Flow Control of Sewer Lines (Complete)
21. 03340 – Controlled Low Strength (As-Appplies)
22. 03420 – Precast Reinforced Concrete Vaults (As Applies)
23. 03300 – Cast-In-Place Concrete (As Applies)
24. 03340 – Controlled Low Strength Materials (As applies)
25. 16050 – Electrical Work – General (As Applies)
26. 16402 – Underground Distribution System (As Applies)

are included within the scope of this Subcontract with the following being the only exceptions:

1. Supply and processing of dewatering effluent including pumps, fuel, piping, frac tanks, sand filters, polymer treatment or flocculant dosing (By Hensel Phelps)
2. Development of dewatering plans for major structural excavations outside of this Subcontractor's scope of work (By Hensel Phelps)
3. NPDES Permit (By Hensel Phelps)
4. Dust screening on fence (By David's Fencing)
5. Water (By Hensel Phelps)
6. Compaction testing (By City & County of Honolulu)
7. Building and Grading Permits (By City & County of Honolulu)
8. Installation of the temporary dewatering lines from the Building Excavation to location of Injection Wells (By Hensel Phelps)
9. Supply and install of CLSM at Force Main Pipes per detail 1/C40-116 (By Cell-Crete Corp)
10. Supply of 5'x2' precast box culvert per drawing C40-037 (By Hensel Phelps)
11. Furnish and install injection wells per specification section 02122 **OR** drawing C40-084A (By Healy Tibbitts)
12. Furnish and install jet grout (By FV Coluccio)
13. Demolition of above grade building structures, asphalt, and sidewalks within the Treatment Center fence line. (By Tajiri)
14. Removal and disposal of all trees (By Tajiri)
15. Shoring and Soil Retention for Structural Excavations (By Healy Tibbitts & Hensel Phelps)
16. Supply of 96" RCP for Primary Effluent Line per drawing C40-042 (By Hensel Phelps)
17. Supply, installation, reinforcement and concrete jacket of 42" line and the underslab drains in the process area (By Hensel Phelps and Harris)
18. Supply and installation of the electrical ductbank reinforcement and concrete per drawing E-024 (by Hensel Phelps and Harris)
19. Supply of manholes and hand holes per specification section 16802 (By Cache Valley Electric)
20. Facilitate final connection and pay for this Subcontractors jobsite office utilities, limited to power and City water. (By Hensel Phelps)

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21. Shotcrete Slope Protection per 03370 Shotcrete 3.11 Curing and Protection **OR** Detail 1/C40-123 **OR** Note 6 on drawing E-004 (By American Standard Concrete Pumping)
22. Structural, Retaining Wall, Sidewalk, and Curb Concrete per drawings (By Hensel Phelps)
23. Gravel and topsoil required on Landscape Drawings (By LLS)

Your attention is specifically called to the following items, which are included in the Subcontract, but without limiting the Scope of Work as provided above. This Subcontractor acknowledges that it would be impossible to identify and specifically list every inclusion for this Scope of Work, therefore the below list is meant to provide clarity, but not limit the Scope. Items omitted from this list, but necessary for the proper performance of this Subcontractor's Scope of Work are included. Only the specific listed exclusions in Section B are excluded from this Scope of Work.

1. The word "provide" when used in these inclusions is intended to be inclusive to furnish, transport, fabricate, deliver, receive, unload, store, install, hoist, erect, prepare substrate, protect, start-up, test, clean, etc., such that the material and/or system is complete and operational and in its permanent location ready to be accepted and used by the Owner.
2. Provide all detailing, engineering, submittals, labor, materials (including consumable materials), tools, equipment, supplies, transportation, and expertise necessary to complete (furnish and install) all sitework and underground utilities systems as required per the Contract Documents.
3. Provide all site SWPPP and BMP measures as required per the Contract Documents and the approved SWPP Plan. These items shall be maintained by this Subcontractor while mobilized and shall be maintained by the Contractor once demobilized. The final large-scale removal and disposal of these BMPs will be by this Subcontractor once the Notice of Cessation is submitted under the NPDES permit.
4. Provide all preparations and maintenance required for the stockpile area, including protection and covers as required by the Contract Documents.
5. Provide excavation and backfill for the Owner and Hensel Phelps jobsite office utilities.
6. Provide all clearing, grubbing, cut/cap, demolition, and haul-off for existing conditions to be removed per the Contract Documents. This includes, but is not limited to asphalt, concrete, curb and gutter outside the Treatment Center fencing, as well as all underground utilities, fencing, concrete barriers, concrete piling, guard shack, bike rack, tank, bollards, light and power poles, base course, cut/cap water, sanitary, and storm, etc., as indicated in the Contract Documents.
7. Provide subsurface utility locating and pothole notices, plans and services to locate utilities for this subcontractors scope of work before excavation begins in accordance with HIOSH/OSHA required safety standards and the Hensel Phelps Excavation Permit.
8. Relocate utilities, fuel tank trailer, and the containers as described in the Contract Documents.
9. Provide the set up for dewatering equipment and piping as required. Hensel Phelps will provide the pumping equipment, fuel, maintenance, and pump watch for the active dewatering operation. Goodfellow Brothers will provide and install subsurface drain piping, underdrains to the sumps, and the sumps as required for structural excavations.
10. Any dewatering and shoring required for the installation of the site utilities will be performed completely by this Subcontractor. Additionally, this Subcontractor will provide any required plans and engineering for dewatering and shoring as required per HIOSH/OSHA. This Subcontractor will pump their dewatering effluent to the location of the treatment provided by Hensel Phelps.
11. Provide a complete slope protection system including gravel as required.
12. Provide a plan and execute the plant sewer bypass in accordance with the Contract Documents.
13. Provide all structural excavation, fill, back-filling, and compaction up to and/or for SOG, culverts, retaining walls, foundations, tower crane foundations, pits, trenches, sidewalks, etc. under the building and its extensions, during installation and once installed by the Contractor per the tolerances referenced in the Contract Documents. Coordinate these efforts with the Contractor for sequencing.
14. Coordinate and provide all imported materials as required for the completion of this Subcontractor's work.
15. Manage all spoils as required by the Contract Documents.

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16. Provide all layout, excavation, bedding, material, installation, compaction and backfill for new and existing underground utilities, boxes, and manholes. Underground utilities include, but are not limited to electrical ductbank, grounding, sanitary, fuel, foul air, storm water, water distribution, and fire protection systems. Hensel Phelps will supply and install the reinforcement and concrete for the ductbanks. The Electrical Subcontractor will provide the manholes and hand holes and Goodfellow Brothers Inc. will provide equipment, hoisting and labor to install them.
17. Provide all excavation, bedding, compaction and backfill as required for all process piping within the building footprint.
18. Provide all underground sanitary, foul air, storm water, water distribution and fire protection systems up to and into the building footprint so a mechanical connection can be made above the SOG elevation. Provide excavation and backfill for these utilities if located below the SOG in the building footprint. Also provide any required reinforcement and concrete appurtenances for these systems including but not limited to thrust blocks, foundations, collars, pads, concrete pipe plug, etc.
19. Provide chlorination services for all site utilities provided through this Subcontract as required.
20. Provide all proof-rolling, geotextiles, drainage materials, compaction and associated scopes associated with the mass filling/excavating/backfilling earthwork scopes as required per the Contract Documents.
21. Provide full time operation during the installation of the auger cast pile installation to manage spoils of auger cast piles to the stockpile area as required.
22. Provide all rough and fine grading of base courses, substrates, crushed stone, granular fill, drainage layers for building pads, pits, trenches, slab on grade, paving, sidewalks, retaining walls, tunnel, etc. as required by the Contract Documents.
23. Provide a complete installation of the segmental retaining wall, as required by the Contract Documents.
24. Provide a complete installation of the trench drain, headwall and rip rap as required by the Contract Documents.
25. Provide protection for items to remain or to be protected as indicated in the Contract Documents, including the maintenance of these protective systems while on-site, maintenance of these items once this Subcontractor is demobilized shall be by the Contractor.
26. Provide all temporary power and equipment required for a complete installation during all phases of work. This work shall apply to the Scope of this Subcontractor only.
27. Provide layout and surveying for earthwork, utilities, demolition, lines and grades as required. Contractor will provide a minimum of six benchmarks and site control points.
28. Provide dust control measures during any of this Subcontractor's activities including, but not limited to grading, excavating, backfill and hauling operations.
29. Provide the new gravel access road and maintenance while on site as required by the Contract Documents.
30. Provide the maintenance to the existing haul road as required by the Contract Documents.
31. Provide construction access roads and maintenance while on site as coordinated with Hensel Phelps.
32. Provide all cutting, patching, restoration, traffic control, and trench protection for work installed under this Subcontract.
33. Submittals must be provided to Contractor for review and submissions within 30 calendar days of execution of this Agreement.
34. Subcontractor is required to enter into the Community Workforce Agreement (CWA). Subcontract will not be executed until the CWA is full executed.
35. In accordance with specification 01610 this Subcontractor shall not deliver equipment more than (1) month prior to installation without authorization from the Officer-in-Charge. Hensel Phelps has developed the project site utilization plan in support of these requirements and Hensel Phelps will continue to update the plan as the project progresses to utilize the limited space most effectively.

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36. Provide mobilizations as necessary to complete the work in accordance with the Project Schedule. Subcontractor will not be compensated for multiple mobilizations unless prior written approval has been given by the Contractor.
37. Subcontractor shall provide enough manpower or work extended hours or double shift, at no additional cost to the Contractor, in order to maintain the Construction Schedule as directed by the Contractor in the event this Subcontractor falls behind schedule due to its own negligence or lack of performance. Any costs associated with working outside of normal business hours defined by the Contract Documents will be the responsibility of the Subcontractor, including but not limited to, overtime for the CM inspector, Contractor's staff and/or craft, and any other consumables or equipment required.
38. Pricing for back charges against Hensel Phelps or other Subcontractors may include 5% overhead but shall not include profit.
39. Should Subcontractor elect to pursue a back charge against another Subcontractor or Hensel Phelps, it must be submitted within 3 days of the occurrence by the Subcontractor's Project Manager on the Subcontractor's letterhead to the Hensel Phelps on-site Project Manager and must specifically identify the other Subcontractor for which this Subcontractor is attempting to back charge. Hensel Phelps shall set up a face-to-face meeting between the two Subcontractors' project managers for the purpose of resolving the back charge notice promptly and fairly.
40. Subcontractor's schedule of values shall include no less than 5% of the Subcontract value for closeout requirements. The 5% contract value will be held until all items are complete.
41. Pursuant to the General Terms and Conditions of the City and County of Honolulu (2015) section 5.2.2 Hensel Phelps and its Subcontractors are not authorized to incur any costs until the City has issued a Notice to Proceed (NTP), doing so prior to receipt of the NTP is at the risk of said contractor.
42. Provide a full, written warranty in accordance with the Contract Documents. Warranty period will not commence on any work until the point of final acceptance and when the system is put into full service.
43. Furnish all materials F.O.B. jobsite.
44. Provide all material hoisting as required.
45. 100% Payment and Performance Bonds are required, and the cost is included in the stipulated sum of this Subcontract.
46. All required Use and General Excise Tax are included in the stipulated sum of this Subcontract.
47. The Subcontract Sum is calculated as follows:
- | | |
|---------------------------------------|--------------------|
| a. Total Earthwork Proposal | \$23,392,041 |
| b. CLSM @ FM Credit | (\$160,000) |
| c. Ductbank and MH | \$1,093,000 |
| d. Credit for Trees | (\$185,000) |
| e. Credit for Asphalt Demo & fence | (\$49,224) |
| f. 100% Payment and Performance Bonds | \$115,000 |
| g. Use/GET | w/above |
| | Total \$24,205,817 |

SECTION C. The Contractor agrees to pay the Subcontractor for the full, faithful and complete performance of this

Subcontract the sum of Twenty-Four Million Two Hundred and Five Thousand Eight Hundred Seventeen (\$24,205,817.00), subject to additions and deductions for changes agreed upon in writing as hereinafter set forth or as otherwise authorized hereinafter; and Contractor further agrees to make all partial and final payments on account thereof in accordance with the terms and provisions of the Subcontract Documents including, but without restriction thereto, the provisions of Section D, Article 5 of this Subcontract.

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Contractor

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Subcontractor

SECTION D. GENERAL PROVISIONS.

ARTICLE 1 - DEFINITIONS.

(a) The term "Contract" as used herein refers to the contract between the Owner and the Contractor for construction of the Project.

(b) The term "Contract Documents" as used herein refers to the "Contract" between the Owner and the Contractor, together with all plans, drawings and specifications, including the General Conditions, Supplemental General Conditions, and Special Conditions, Addenda, Amendments, and/or instruments of like effect issued by or on behalf of the Owner as a part of the Contract; together with any and all other documents or instruments referred to or incorporated in the aforesaid "Contract" and "Contract Documents" and/or as identified by the Owner's Authorized Agent.

(c) The term "Subcontract" as used herein refers to this Subcontract together with any exhibits, attachments, addenda, or other documents incorporated herewith or referred to herein; and in addition any supplemental written agreements made and entered into by the parties hereto subsequent to the date of execution of this Subcontract.

(d) The term "Subcontract Documents" as used herein refers jointly and/or severally to the aforesaid "Contract," "Contract Documents" and "Subcontract" together with any and all alternate proposals which may be exercised or incorporated in this Subcontract, all Contract change orders issued by the Owner subsequent to the bidding and identified specifically in or incorporated by change order into this Subcontract; and all written instructions, notices, directives, job schedules, the "Job Information and Policy Brochure," and documents, specifically referred to in this Subcontract. In the event of any conflict between the terms of the Subcontract and the Contract Documents, the terms of the Subcontract shall govern.

(e) The Subcontract Documents shall not include any proposals, correspondence or agreements made or alleged to have been made between the Contractor and the Subcontractor unless specifically identified and incorporated in writing herein.

ARTICLE 2 - COMPLIANCE WITH CONTRACT DOCUMENTS.

(a) The Contract Documents, as defined in the Contract, are hereby incorporated by reference. Subcontractor will not do, or fail to do, any act relating to Subcontractor's work, if by reason of such act or failure to act, Contractor would be in breach of or fail to comply with the Contract Documents.

(b) In addition to the provisions of this Subcontract, Subcontractor is bound to Contractor by and agrees to assume toward Contractor all of the obligations, liabilities, responsibilities, conditions, requirements, duties and any representations and certifications that Contractor, by either the Contract or under applicable law, assumes toward or is bound to Owner, directly or indirectly, to the extent the Contract and the applicable law apply to the work described in Section B of this Subcontract. Subcontractor is bound to the same limitations, restrictions and conditions upon its rights, remedies and redress toward Contractor as Contractor is so limited, restricted and conditioned toward the same rights, remedies and powers toward Subcontractor as Owner may exercise, directly or indirectly, toward contractor under the Contract or applicable law.

(c) When requested to do so by the Contractor, Subcontractor agrees to submit a list of any proposed sub-subcontractors and suppliers, and Subcontractor shall not delegate, assign, sublet, or further subcontract to others the performance of any of its obligations or work required or contemplated by this Subcontract without prior written consent of the Contractor, which shall not be unreasonably withheld. To the extent the Contract Documents call for the Subcontractor to consent to the assignment of the Subcontract by Contractor to Owner or Owner's Project lender if elected by Owner or such lender, Subcontractor hereby consents to such an assignment.

ARTICLE 3 - EXISTING CONDITIONS.

(a) Subcontractor acknowledges that it was its responsibility, prior to entering into this Subcontract, to investigate and familiarize itself with all laws, ordinances, and regulations applicable to its work under this Subcontract; with the availability of personnel, workmen, material, supplies, equipment, power, utilities, fuel and other requirements for the performance of the Subcontract and, with respect to each of the foregoing, the cost and suitability thereof; with the prevailing wage scales, benefits and working conditions; with the character and content of all other contracts related to the Project, including such separate prime contracts as may have been awarded by the Owner; the character and content of purchase orders and arrangements for supplies and material to be furnished by the Contractor for the use of Subcontractor; with all options, site considerations and restrictions, lease agreements, royalties, prevailing weather and climatological conditions and history; and any other factors which may affect Subcontractor's work under this Subcontract. The Subcontractor hereby warrants and agrees that it has investigated all such matters and familiarized itself therewith to the extent that it, in its sole discretion, deems necessary. Subcontractor further agrees that Contractor shall not be liable to Subcontractor on any claim for additional payment or additional time or any other relief if such claim directly or indirectly results from Subcontractor's failure to investigate and familiarize itself sufficiently with the conditions under which this Subcontract is to be performed, including the foregoing but without restriction thereto, or from any misunderstanding thereof on the part of the Subcontractor.

(b) If the Subcontractor encounters surfaces or work which it considers unsatisfactory and which affect the work under this Subcontract, or if the Subcontractor encounters any other condition upon which it may base a claim for extra compensation, extra time, or any other type of claim, it shall be its duty to give written notice to the Contractor prior to commencing any work involving said conditions in order to allow the Contractor to inspect said conditions and to make such arrangements and take such steps as Contractor deems necessary. In the absence of such notice to the Contractor, Subcontractor shall be fully and solely responsible and liable for any and all expense, loss, or damage resulting from said condition and Contractor shall be relieved of all liability in connection therewith.

Contractor

Subcontractor

ARTICLE 4 - ENTIRE AGREEMENT. This Subcontract constitutes the entire agreement between the parties and contains all of the covenants, stipulations, and provisions agreed upon by the parties. This Subcontract supersedes and takes precedence over all proposals, correspondence, discussions and oral agreements between the Subcontractor and Contractor, if any concerning the subject matter hereof, made prior to and including the date hereof, and not specifically identified and incorporated in writing in this Subcontract. This Subcontract includes all alternatives, changes, addenda, amendments or any other instruments of like effect made, issued, or exercised by the Owner or the Owner's Authorized Agent through the date hereof. No agent or representative of either party hereto has authority to make, and the parties shall not be bound by, or liable for, any statement, representation, promise, or agreement not specifically set forth in this Subcontract. Except as otherwise provided for herein, no changes, amendments or modifications of the terms hereof shall be valid unless reduced to writing and signed by the parties hereto.

ARTICLE 5 - PAYMENT.

(a) Provided Subcontractor's rate of progress and general performance are satisfactory to the Contractor, and provided the Subcontractor is in compliance with the Subcontract Documents, the Contractor will make partial payments to the Subcontractor as provided in the Contract Documents in an amount equal to 100% of the estimated value of work and materials incorporated in the construction and of materials delivered to the Project site and suitably stored by the Subcontractor, to the extent of Subcontractor's interest in the amounts allowed thereon and paid to Contractor by the Owner less the aggregate of previous payments. In the event payment is allowed by Owner for materials stored off-site, such materials shall be stored in a bonded warehouse covered by property and theft insurance which includes Contractor and Owner as additional insureds. Payment will be made by check mailed to the Subcontractor within seven (7) working days of receipt of collected funds paid to the Contractor by the Owner under the Contract. Unless otherwise required by law, final payment will be made within thirty (30) days after the work called for hereunder has been completed by the Subcontractor to the satisfaction of the Owner and the Contractor has received from the Owner written acceptance thereof together with payment in full for Subcontractor's portion of the work. Final payment is further subject to Contractor's determination that all of the terms, conditions, requirements and covenants of the Subcontract Documents have been well and truly met and discharged by Subcontractor. To the extent permitted by applicable law, receipt by Contractor of the corresponding payment from Owner is acknowledged and agreed by the Subcontractor to be an express condition precedent to the Subcontractor's right to receive payment from the Contractor. Subcontractor acknowledges that it is sharing in the risk that Owner may fail to make one or more payments to Contractor for all or a portion of the Subcontractor's work, and further acknowledges that it is relying on the Owner's credit for payment.

(b) In the event the Owner is an agency or instrumentality of the United States Government and the provisions of the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.), are applicable to the Contract, the following Subparagraphs (b) (i)-(b) (iv) shall be applicable to this Subcontract: (i) Contractor will pay to Subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment provision contained in Paragraph (a) of this Article. Interest shall be paid for the period beginning on the day after the required payment date and ending on the date on which payment is made of the amount due. Interest shall be computed at the rate specified in the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.). This interest penalty shall not apply when Contractor has not received payment from the Owner pursuant to the Contract. This interest penalty shall not apply to amounts that are withheld from Subcontractor under the provisions of this Subcontract. (ii) Subcontractor shall include a payment clause and an interest penalty clause conforming to the standards set forth in Paragraphs (a) and (b) of this Article in each of its subcontracts and shall also require its subcontractors to include such clauses in their subcontracts and supply contracts with each lower-tier subcontractor or supplier. (iii) Contractor may withhold payment from Subcontractor for its defective work or failure to comply with the Subcontract without incurring any late payment interest penalty by providing written notice to Subcontractor and a copy of such notice to the Owner. The written notice shall specify the following: (1) the amount to be withheld; (2) the specific causes for withholding under the terms of the Subcontract; and (3) the remedial actions to be taken by the Subcontractor in order to receive payment of the amounts withheld. (iv) Subcontractor shall comply with all notice provisions contained in the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.). Subcontractor also shall require each of its lower-tier subcontractors and suppliers to comply with the notice provisions of the Prompt Payment Act, as amended (31 U.S.C. § 3901 et seq.).

(c) When requested by the Contractor to do so, the Subcontractor shall, within thirty (30) days of the date hereof or at least thirty (30) days prior to its first application for payment hereunder, submit to the Contractor a complete and accurate schedule of values of the various parts of the Subcontractor's work aggregating the total sum of this Subcontract, itemized and detailed as required by the Contractor and supported by such evidence as to its correctness as the Contractor may direct. This schedule, when approved by the Contractor, shall be used as the basis for making payments unless it is found to be in error or in conflict with the procedures or determinations of the Owner or its representative regarding partial payments to the Contractor. Not later than the last working day of any month for which Subcontractor claims a partial payment, or at such other regular intervals as the Contractor may direct, the Subcontractor shall submit a request for partial payment conforming to the schedule of values and representing a true and accurate estimate of the work completed during the immediately preceding month or such other immediately preceding period as directed and, when required by the Contractor, an accurate inventory of materials suitably stored to permit payment and certified by a representative of the Owner and/or the Contractor. Partial payments will be made only upon application submitted on a form furnished or approved by the Contractor and properly certified by an officer or representative of the Subcontractor. Subcontractor's payment application shall contain such substantiation as Contractor may reasonably require for all amounts requested. The Subcontractor shall certify its application for payment in a form acceptable to the Contractor. Each application shall be accompanied by such additional data, invoices, vouchers, lien and claim waivers, certifications and affidavits as may be required by the Owner and/or as the Contractor may require for proper processing of payments and adequate protection of the premises from potential claims of third parties. It shall be the Subcontractor's sole responsibility to submit each application for payment hereunder in the time and in the manner prescribed herein and on the form provided or approved by Contractor for such purpose and in no instance shall Contractor be liable for the time or sufficiency of payment pursuant to any application or request not complying herewith. The Subcontractor agrees that applications for payment not complying herewith may, at the option of the Contractor, be

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held over for processing during the month, or other designated billing period next following correction, resubmission or late submission of such application.

(d) No partial payment or certificate therefor shall constitute acceptance or approval by the Contractor of the work or material for which the partial payment is made. No partial payment shall constitute a waiver by the Contractor of any right to require fulfillment of all terms of the Subcontract Documents. Neither the final payment nor any partial payment, nor any certificate for either shall constitute acceptance by the Contractor of defective work or improper materials or of any element of Subcontractor's performance determined to be at variance with the Subcontract Documents. Each partial payment and the final payment made hereunder, and the total thereof, will be subject to final audit and adjustment, and the Subcontractor hereby agrees to reimburse the Contractor in the event of overpayment, together with any costs and expenses, including attorneys' fees, the Contractor may incur in securing recovery thereof.

(e) Notwithstanding the amounts and times of payments set forth above, the Contractor at any time may make advance payments to the Subcontractor if, in the Contractor's sole discretion, such advances will aid the Subcontractor in the performance of this Subcontract. Such advance payments may be made without notification to the surety on any bond furnished by or on behalf of Subcontractor, and the failure to give such notice will not deprive Contractor of any claim, right, or remedy under any such bond.

(f) Contractor reserves the right to make any payment to Subcontractor, including payments due hereunder, through the medium of a check made payable to the joint order of Subcontractor and such of Subcontractor's workmen, materialmen, suppliers or subcontractors, or any of Subcontractor's creditors having potential lien or bond claim rights against the work or the Project.

(g) The Contractor may deduct from amounts due or to become due to the Subcontractor pursuant to this Subcontract, any sums due or to become due to the Contractor from the Subcontractor whether or not said sums are in any way related to this Subcontract or Project. Contractor may apply such deducted funds to any account, related or unrelated to this Subcontract or Project, wherein the obligations of the Subcontractor have not been discharged as determined by the Contractor, and wherein the Contractor's interests are directly or indirectly involved.

(h) In the event Subcontractor is in default of, or breaches or fails to comply with any provision, covenant or requirements of this Subcontract or the Subcontract Documents; or in the event any person asserts, or indicates it will assert, any lien, claim, demand, or charge against the Project or land or improvements or funds related to the Project, or against the Owner, the Contractor or any surety, arising from Subcontractor's performance of this Subcontract, the Contractor may, at its option, withhold out of any payments due or to become due to the Subcontractor such amounts as the Contractor may deem sufficient to protect and indemnify the Contractor, the Project or the Owner from any and all loss, damage and/or expense therefrom, including attorneys' fees and litigation costs, until the condition requiring such measures has been remedied by the Subcontractor to the satisfaction of the Contractor. If the offending condition is not remedied by the Subcontractor within a reasonable period of time, the Contractor may, at its option, proceed to make application of the withheld funds in whatever manner the Contractor may determine as being in the best interest of itself and/or the Owner. If the Contractor is compelled to expend monies in defending, discharging or otherwise disposing of any claim or lien or other demand in excess of retained or withheld sums, the Subcontractor shall, upon demand, reimburse the Contractor for the excess amount so expended, including reasonable attorneys' fees and costs incurred by Contractor incident to such defense, discharge or disposition, and/or incident to Contractor's collection from Subcontractor of such excess.

(i) Notwithstanding anything to the contrary contained or applicable to this Subcontract, and without any limitation as to time, Contractor shall not be obligated to make payments to Subcontractor under this Subcontract: (i) When such payments will leave a balance due Subcontractor which is less than an amount adequate to satisfy all outstanding and subsequent obligations of the Subcontractor for labor, materials, supplies, tools, machines, plant, equipment, services, furnished or to be furnished by Subcontractor in performance of the work required under this Subcontract; (ii) When Subcontractor is or with reasonable probability may become unable to comply with or completely perform this Subcontract; (iii) Whenever the Contractor shall determine the Project is being delayed or is in danger of being delayed by the work of the Subcontractor or by any failure of the Subcontractor to effect timely compliance with any of the technical, administrative or operational requirements of the Subcontract Documents, including subsequent instructions, job schedules and "Job Information and Policy Brochure" instruments issued pursuant to this Subcontract and/or adopted by reference hereto; (iv) Pending satisfactory correction, repair, replacement and/or restoration of faulty or deficient work, materials, supplies, machines, equipment or plant, or of any work rejected as not conforming with this Subcontract or the Subcontract Documents.

(j) The Subcontractor agrees and covenants that money received for the performance of this Subcontract shall be used solely for the benefit of persons and firms supplying labor, materials, supplies, tools, machines, equipment, plant or services exclusively for this Project in connection with this Subcontract and having the right to assert liens or other claims against the land, improvements or funds involved in this Project or against any bond or other security posted by Contractor or Owner; that any money paid to the Subcontractor pursuant to this Subcontract shall immediately become and constitute a trust fund for the benefit of said persons and firms, and shall not in any instance be diverted by Subcontractor to any other purpose until all obligations arising hereunder have been fully discharged and all claims arising herefrom have been fully paid. The Subcontractor agrees, as a condition precedent to payment hereunder, to furnish the Contractor with such partial and/or final releases and/or waivers of lien, bond or other claims as the Contractor may from time to time request.

(k) If at any time the Contractor shall determine that the Subcontractor's financial condition has become impaired, unstable or unsatisfactory, the Subcontractor shall furnish evidence of the financial ability to complete the Subcontract to the Contractor within three (3) days after written demand thereof is mailed or delivered to Subcontractor and in default of furnishing such evidence satisfactory to Contractor, the Contractor shall have the option to terminate this Subcontract or to initiate such other

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action as the Contractor may deem necessary for the protection or preservation of its interests and/or the prevention of delay in the efficient and orderly progress of work on the Project, including but not limited to that portion of the work to be performed by Subcontractor hereunder. In the event of such termination, the rights of the Contractor shall be the same as provided in Article 19 of this Subcontract.

(l) The Subcontractor and Contractor agree as follows with respect to the assignment of such payments as may be due or as may become due under this Subcontract: (i) The Subcontractor will make no assignment of the proceeds hereof without the prior written consent of the Contractor, which consent shall not be unreasonably withheld; (ii) In no instance shall the Contractor be obligated to any assignee of the Subcontractor on account of payments at any time made in good faith under any assignment and/or erroneously or inadvertently made to the assignor; (iii) The Contractor shall in no instance be liable to any assignee of the Subcontractor for any amount in excess of the net sums owing Subcontractor hereunder after first deducting any amounts for which Subcontractor may otherwise be obligated or indebted to Contractor; (iv) By making an assignment of the proceeds hereof the Subcontractor agrees to assume full liability for the conveyance to assignees of any payments mistakenly, inadvertently, or otherwise made or addressed to Subcontractor, and Subcontractor agrees to defend and hold harmless the Contractor from any claim or action of any assignee related to this Subcontract.

ARTICLE 6 - UNIT PRICE MEASUREMENT. If the terms of this Subcontract provide for the payment of work performed on a unit price basis, the unit of measurement for payment shall be one for which certified verification of weights of quantities can be furnished at the time of delivery or readily agreed upon. In the event the parties fail to agree on the actual quantities performed, Contractor shall have the right to measure the quantity of work-in-place and make final settlement on the basis of such measurement.

ARTICLE 7 - JOB INFORMATION AND POLICY BROCHURE (JIP) AND QUALITY CONTROL PLAN (QCP).

(a) The Subcontractor and Contractor agree that it would be impractical to recite herein the many administrative and operational requirements governing the efficient execution and management of the work called for hereunder, and further, that determination of all the necessary procedures and schedules may not be completed for promulgation at the date of this Subcontract, and that therefore, as a practical matter, it is desirable and shall be acceptable to both parties hereto that such requirements may be set forth in a separate instrument to be submitted to the Subcontractor as provided herein and shall be adopted as part of this Subcontract. It is therefore agreed that the Contractor may prepare separate project-specific instruments entitled "Job Information and Policy Brochure" (JIP) and "Quality Control Plan" (QCP) and submit them to Subcontractor.

(b) The JIP may set forth specific instructions relative to the delivery, storage and handling of materials; preparation, submission and approval of shop or fabrication drawings, samples, tests, and other data related to the materials, equipment and methods used or proposed for use by Subcontractor in the performance of this Subcontract; the preparation and submission of partial payment requests, sales tax reports, certificates of insurance, performance and payment bonds, lien releases, payroll reports and affidavits, progress reports, accident and accident prevention reports, reports and affidavits relating to employment practices, and any other administrative reports or submittals required by the Subcontract Documents; job progress schedules and/or revisions thereof; tentative, confirmed, and/or revised delivery and starting dates; equipment loan and rental policies, backcharge and "extra" charge procedures and policies; services to be furnished by the Contractor; safety and first aid or emergency medical treatment requirements for the Project, safety programs applicable to the Project; policies and procedures for cleanup and removal of trash and debris, control of traffic and employee parking, hauling and storage of materials; and policies and procedures governing the use of shared facilities including those facilities furnished by the Contractor. In addition thereto, the JIP may include instructions, directives, and information of any and all such additional matters as the Contractor deems appropriate.

(c) The QCP will contain information relating to guidance, standards and documentation for delivering the level of construction quality required by this Subcontract.

(d) Subcontractor shall promptly review and note the contents of the JIP and QCP when received, and shall notify the Contractor at once in writing of any objection thereto and set forth in detail the part or parts to which objection is raised. If required to do so by the Contractor, Subcontractor shall promptly acknowledge receipt of the JIP and QCP in the manner prescribed, and Subcontractor's failure to do so may, at the option of the Contractor, constitute grounds for withholding payment hereunder. Should no notification stating Subcontractor's objections be received in the Contractor's office within seven (7) days following receipt by Subcontractor of the JIP and/or QCP, then such instrument(s) shall automatically become a part of this Subcontract and shall be of the same force and effect as if recited herein verbatim. In the event that within said seven (7) day period Subcontractor shall furnish Contractor written notification of any specific objections to the JIP or QCP, all of the parts and provisions of them to which there are no specific written objections shall automatically become a part of this Subcontract. The provisions objected to shall become the subject of further discussion and negotiation between parties at the earliest practical date, and said parts may be modified by mutual agreement or, if agreement cannot be attained, shall, at the Contractor's option, either constitute and be deemed a written order from the Contractor to Subcontractor pursuant to Article 16 of this Subcontract or be stricken from the applicable instrument without effect on any other requirement or provision of said instrument or the remainder of the Subcontract Documents.

(e) The submission by Contractor to the Subcontractor of the JIP and/or QCP shall in no manner terminate or rescind this Subcontract, or any part hereof, and except as may be specifically modified or extended by either instrument, all of the terms and provisions of this Subcontract shall remain in full force and effect.

ARTICLE 8 - TOOLS AND EQUIPMENT. Except to the extent expressly provided otherwise herein, the Subcontractor shall provide at its own expense whatever tools, machines, equipment, plant, utilities, service, storage sheds, workshops, offices, other temporary structures, and any other facilities it may deem necessary for the complete performance of all work required under this Subcontract, and shall remove any such installations and thoroughly clean and restore the site and premises at the completion of the work. If the Subcontractor has occasion to utilize any of the facilities of the Contractor, when and if available, Subcontractor



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shall pay an equitable portion of the cost thereof; provided, however, that Contractor shall bear no responsibility for any loss or damage from any cause whatsoever arising from Subcontractor's use of such facilities.

ARTICLE 9 - SUBMITTALS.

(a) The Subcontractor agrees to submit all shop or fabrication drawings, design and performance data, tests, samples, templates, and operation and/or maintenance manuals required in connection with the performance of this Subcontract and/or required by the Contract Documents for the performance of the Subcontractor's work; together with any and all other necessary data related to the materials, methods, and equipment used or proposed for use in the performance of this Subcontract promptly and/or as directed by the Contractor, and in sufficient number to provide adequate information to all parties requiring same. Approval of any of the foregoing by the Contractor, the Owner or the Owner's Authorized Agent shall under no circumstances alter the requirements of the Subcontract Documents for quality, quantity, finishes, dimension, design or configuration except to the extent specifically noted and approved on such submittals; nor shall such approval constitute acceptance by the Contractor of any method, material or equipment not ultimately acceptable to the Owner or the Owner's Authorized Agent. Subcontractor shall prepare and maintain a complete set of "as-built" drawings for its work, which shall be submitted to the Contractor as a condition to receipt of monthly and final payments.

(b) The Subcontractor agrees the cost of all designs, drawings, tests, samples, templates and mock-ups required to be provided by the Subcontractor hereunder, together with field measuring, layout, sampling and shipping or delivery expense connected with any of the foregoing, is included in the amount of this Subcontract, except the Contractor agrees to furnish, upon request, starting field coordinates to allow Subcontractor to perform the layout of its work. The Subcontractor agrees the entire cost of altering, reworking and refinishing any manufactured or fabricated items supplied by Subcontractor not conforming to approved designs, drawings, templates or samples shall be borne by the Subcontractor.

(c) The Subcontractor hereby assigns to Contractor all copyrights to all Project-related documents produced by Subcontractor and/or sub-subcontractors. Among those documents are certain "Instruments of Service," including shop or fabrication drawings, design and performance data, tests, samples, templates and operation and/or maintenance manuals. Contractor, in turn, hereby grants to the Subcontractor a nonexclusive license to reproduce the documents for purposes relating directly to the Subcontractor's performance of the work under this Subcontract.

ARTICLE 10 - LABOR ONLY SUBCONTRACTS. It is hereby agreed by Subcontractor, if furnishing labor only for the finishing, installation or erection of materials furnished by Contractor, the following costs, without restriction thereto, are to be fully recovered by Contractor from Subcontractor: (a) The full cost of materials required to replace those spoiled by Subcontractor through faulty workmanship or negligence, or damaged by any other cause not the fault of Contractor; (b) The full cost of materials wasted by Subcontractor; (c) The full cost of removing rejected materials when not properly and promptly removed by Subcontractor, together with the cost of removing, patching or replacing the work of others necessitated by such rejection; (d) The full cost of reworking, refinishing or altering any work of Subcontractor not accepted by the Owner or the Owner's Authorized Agent; (e) Costs resulting from damage by Subcontractor to materials or work of Contractor or others.

ARTICLE 11 - CUTTING, PATCHING AND COORDINATION. The Subcontractor shall obtain Contractor's approval for and do any cutting, patching and blocking necessary to complete Subcontractor's work hereunder, and such work shall be performed to the same standards and shall match any related work in accordance with the Contract Documents. The Subcontractor further agrees to cooperate with the Contractor and other subcontractors whose work might interfere with the Subcontractor's work and prepare sketches and drawings as directed, and/or to participate in the preparation of coordination drawings in areas of congestion, specifically noting and advising the Contractor of any possible interference by other trades with the performance of Subcontractor's work.

ARTICLE 12 - CLEAN-UP. Subcontractor agrees to keep the premises clean at all times and to remove from the site all rubbish, debris, packing materials, scrap and waste materials resulting from its work under this Subcontract within twenty-four (24) hours after receipt from Contractor of written notice to do so. Subcontractor shall not dispose of any hazardous materials in dumpsters supplied by Contractor. Subcontractor shall handle and dispose of hazardous materials utilized by Subcontractor in connection with its work in accordance with applicable law and regulations, and the requirements of the Hazardous Materials and Waste Site-Specific Contingency Plan issued by Contractor for the Project. Subcontractor further agrees to clean and remove, to the satisfaction of the Contractor, all dirt, grease, marks, stains or other imperfections from all finished work and property throughout the Project resulting from the execution of the work required under this Subcontract. The Subcontractor shall properly cover and protect the work of others from damage or soiling arising from the performance of the work required under this Subcontract, and Subcontractor shall promptly clean, restore, replace, or pay for the replacement of any such work damaged or soiled in the performance of its own work. If the Subcontractor refuses or fails, in the manner and time aforesaid, to promptly perform such cleaning and/or repairs as directed by the Contractor, the Contractor shall have the right to proceed with such cleaning and/or repair, and Subcontractor, on demand therefore, shall repay to the Contractor the actual cost of such work plus a reasonable percentage to cover Contractor's supervision, insurance, tax and overhead; or at the option of the Contractor, the aforesaid charges may be accumulated and deducted from monies otherwise due the Subcontractor under the Subcontract.

ARTICLE 13 - PAYMENT FOR LABOR AND MATERIALS. Subcontractor shall pay for all materials and supplies furnished and for all work, labor and services performed as required under this Subcontract, shall produce satisfactory evidence of such payment upon demand by the Contractor, and shall indemnify and defend Contractor, its Surety and Owner against and save them and the premises harmless from any and all claims, demands, liens or suits, including attorneys' fees and costs, for all such material and supplies purchased and for all work, labor and services performed relating to all work required to be performed under this Subcontract. If a mechanic's lien, bond claim or other encumbrance is filed by a third party against the Project or a bond provided by Contractor relating to the Project seeking recovery for any amounts allegedly due relating to the performance of the



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Subcontractor's work called for hereunder, Subcontractor shall immediately cause to be filed in compliance with applicable law such bond as is required to cause the mechanic's lien or bond claim to be released.

ARTICLE 14 - WARRANTY. The Subcontractor warrants and guarantees the work and materials which it performs or furnishes under this Subcontract as required by the Contract Documents and agrees to make good, at its own expense, any defect in materials or workmanship which may occur or develop prior to Contractor's release from responsibility to the Owner therefor under the Contract Documents or applicable law. The Subcontractor further agrees to adopt and assume, as a direct obligation to the Contractor and/or the Owner, any guarantees or warranties which would otherwise be the responsibility of the Contractor or other subcontractors, when such guarantees or warranties have been voided, waived, withdrawn or cancelled as a result of the Subcontractor's operations hereunder, or on account of any act or omission in the performance of this Subcontract.

ARTICLE 15 - TIME.

(a) Time is of the essence and the Subcontractor agrees to keep itself thoroughly informed as to the overall progress of the Project; to commence and to prosecute the work undertaken hereunder in a prompt and diligent manner whenever such work, or any part of it, becomes available, or at such time or times as the Contractor may direct, so as to promote the general progress of the entire construction Project; and Subcontractor shall not by delay or otherwise, interfere with or hinder the work or progress of the Contractor or any other subcontractor. Any materials, services, supplies, tools, machines, equipment or plant to be furnished or used by Subcontractor hereunder shall be furnished in sufficient time to enable the Subcontractor and/or any other party requiring same, to perform and complete their work within the time or times established as herein provided. Upon Contractor's request, Subcontractor shall furnish such evidence as the Contractor may require relating to Subcontractor's ability to fully perform this Subcontract in the manner and within the time established as herein provided.

(b) Except as otherwise provided in Article 7 hereinabove, the Subcontractor agrees to notify the Contractor in writing of its objection or inability to comply with any directive, notification, order, schedule or revision thereof dealing with the time or times of its performance hereof within three (3) days of Contractor's issuance thereof. In absence of such written notice within three (3) days, the Subcontractor agrees to accept for incorporation herein any and all orders, notices, directives, schedules or revisions thereof which may be issued from time to time by the Contractor to Subcontractor's last known address or through its representative at the site of the work, and in the event of any conflict between the requirements of any of the foregoing, it is agreed the time or times of performance shall be governed by the communication bearing the most recent date. Specific requirements as to time of performance set forth in the Subcontract Documents or subsequent additions thereto, or in directives, orders, schedules or schedule revisions issued by Contractor, shall take precedence over general requirements. All work required to be performed under this Subcontract shall be performed in accordance with such specific requirements. Subcontractor's obligations for timely performance of its work shall be based on the planned activity durations in the Project schedule once Subcontractor's work has commenced, and not necessarily on the overall start and finish dates for Subcontractor's work set forth in the initial Project schedule.

(c) In the event of any failure of Subcontractor to complete its work within the required time or upon the dates established as provided hereinabove, the Subcontractor hereby agrees to reimburse the Contractor for any and all liquidated damages that are assessed against and collected from the Contractor by the Owner, which are attributable to or caused by the Subcontractor's failure to comply fully with the foregoing provisions; and further, whether or not liquidated damages are so assessed, Subcontractor hereby agrees to pay the Contractor such other or additional damages as the Contractor may sustain by reason of any such delay attributable to or caused by the Subcontractor, including, but not limited to, recovery of Contractor's overhead and expense caused by or attributable to managing and supervising the Project during or equal to any period of time resulting from such delay of Subcontractor; and Subcontractor further agrees that neither the payment of such damages nor any liability incurred for the payment of such damages shall release the Subcontractor from its obligation to otherwise fully perform under this Subcontract.

(d) No allowance for an extension of time, for any cause whatever, shall be claimed or made by the Subcontractor unless the Subcontractor shall have made written request upon the Contractor for such extension within three (3) days after the cause for such extension first occurred, and unless the Contractor and Subcontractor have agreed in writing upon the allowance of additional time. No extension of time granted Contractor by Owner shall inure to the benefit of Subcontractor unless such extension of time is directly related to Subcontractor's work hereunder.

(e) In no event shall an extension of time or allowance for extra time be granted to Subcontractor for delays attributable to untimely or incorrect preparation and/or submissions of shop drawings, samples, product data, or any other submittal information required by the Contract Documents; or when orders have not been placed with manufacturers or suppliers in a timely manner; or for delays resulting from Subcontractor's substitution, or attempt to make substitution, of materials, equipment or methods of construction or manufacture in lieu of those specified or previously approved; or for any delay resulting from or attributable to Subcontractor's failure to comply with any of the provisions of this Subcontract.

ARTICLE 16 - CHANGES AND CLAIMS. Contractor may at any time, by written order and without notice to surety, make changes in the work called for herein and Subcontractor shall proceed with the work as directed. If said changes cause an increase or decrease in the cost of performance or in the time required for performance, an equitable adjustment shall be made and this Subcontract shall be modified in writing accordingly. Subcontractor shall provide written notice of any alleged change to the work or other claim directed or caused by Contractor within three (3) days of the occurrence giving rise to the alleged change or claim or such claim shall be conclusively waived. Subcontractor's entitlement to an adjustment in the cost or time required for performance of a change in the work directed or caused by the Owner shall be governed by the terms of the Contract Documents. Nothing herein contained shall excuse the Subcontractor from proceeding with the prosecution of the work as changed.

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[Signature]

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Subcontractor

ARTICLE 17 - OWNER-RELATED CLAIMS.

(a) The disputes resolution procedure set forth in the Contract Documents is specifically incorporated herein and made a part of this Subcontract. The Subcontractor agrees to make any claims to the Contractor for damages or additional compensation based on alleged extra work, changed conditions or any other grounds in the same manner as provided in the Contract Documents for like claims of the Contractor upon the Owner, and in such times as will enable the Contractor to timely present such claims to the Owner for payment or recognition. The Contractor will not be liable to the Subcontractor on account of any claims not timely or properly presented. For those claims for which the Owner may be responsible under the Contract Documents, the Contractor will not be liable to the Subcontractor unless and until and only to the extent the claim is allowed and paid for by the Owner. Notwithstanding anything to the contrary contained herein, no interruption, cessation, postponement or delay in the commencement of the work or in the progress thereof from any cause whatsoever, including disputes, shall relieve the Subcontractor of its duty to perform.

(b) In the event the Contract is between the Contractor and an instrumentality of the United States Government, Subcontractor agrees that any claim by it will be prepared and submitted in full compliance with the Contract Disputes Act (41 U.S.C. § 605 et seq.). Accordingly, Subcontractor shall submit and certify its claim in accordance with the requirements of the Contract Disputes Act and the Federal Acquisition Regulations, all as may be amended from time to time, governing the performance of the Contract and this Subcontract. Subcontractor shall make available for inspection and/or audit by the Contractor and/or the Government all financial and project records in any way related to its claim. Subcontractor agrees to pursue and exhaust the procedures of the Contract Disputes Act before commencing any other action for any claims it may have arising out of the performance of the work hereunder.

(c) If the Contract incorporated herein is one for which the Contractor has provided any bond(s) pursuant to 40 U.S.C. § 270 (a), et seq., the "Miller Act," Subcontractor expressly agrees to stay any action or claim arising out of or relating to this Subcontract against the Contractor and/or the surety which issued Contractor's bond(s) ("Miller Act Action") pending the complete and final resolution of all claims involving the Subcontractor submitted pursuant to the disputes procedure referenced above. Said action shall be stayed until such time as all appropriate appeals under the Contract Disputes Act have been determined, including any appeal to the Court of Appeals for the Federal Circuit. If the Contractor has provided any bond(s) pursuant to any state or local statutory or regulatory requirement, the Subcontractor agrees to stay any action or claim arising out of or relating to this Subcontract against the Contractor and/or the surety which issued Contractor's bond(s) ("Little Miller Act Action") pending the complete and final resolution, including all appropriate appeals, of all claims involving the Subcontractor submitted pursuant to the disputes procedure set forth in the Contract. These terms in no way excuse or stay Subcontractor's obligation to file any and all notices as required by statute, code, rule, regulation or bond.

ARTICLE 18 - DISPUTES.

(a) In the event of any dispute or claim between the Contractor and the Owner which involves the work required to be performed by Subcontractor under this Subcontract, or in the event of any dispute or claim between Contractor and Subcontractor which involves a claim against the Owner for additional compensation and/or an extension of time, Subcontractor agrees to be bound to Contractor and Contractor agrees to be bound to Subcontractor with respect to such dispute or claim to the same extent the Contractor is bound to the Owner by the terms of the Contract Documents and by any and all decisions, findings or determinations made thereunder by the person so authorized in the Contract Documents, or by any administrative agency or court of competent jurisdiction, whether or not Subcontractor is a party to the proceedings before said person, agency or court. If any dispute or claim is prosecuted or defended by Contractor which relates in whole or in part to Subcontractor's work, and Subcontractor is not directly a party or litigant, Subcontractor shall be provided the opportunity to participate in such proceedings to the fullest extent practicable and Subcontractor agrees to cooperate fully with the Contractor and to furnish all documents, statements, witnesses and other information required by Contractor for such purpose and to pay or reimburse Contractor for all expenses and costs, including reasonable attorneys' fees, incurred in connection therewith to the extent of the Subcontractor's interest in such claim or dispute. It is expressly understood and agreed in connection with the determination of Subcontractor's interest in such claims or disputes that Contractor shall never be liable to Subcontractor to any greater extent than Owner is liable to Contractor. ~~In the event a final decision concerning such a dispute does not clearly apportion the amount due from the Owner to Contractor and Subcontractor, the Subcontractor expressly agrees to be bound by the apportionment of the award made by Contractor, which shall be final and conclusive.~~

(b) All claims or disputes between Contractor and Subcontractor, other than those claims or disputes referred to in Paragraph (a) of this Article, shall be brought exclusively in a federal District Court of competent jurisdiction unless (1) the federal District Court lacks subject matter jurisdiction or (2) Contractor in its sole discretion elects binding arbitration. If Subcontractor files any action against Contractor in state court, Subcontractor consents to removal to federal District Court and Subcontractor shall pay all costs and expenses (including attorneys' fees and court costs) Contractor incurs removing the case to federal District Court.

Contractor may elect binding arbitration of any claim or dispute arising out of or related to this Subcontract. If Contractor elects binding arbitration, all claims, actions, and causes of action against Contractor or Contractor's surety to recover on any bond posted by Contractor shall be stayed pending completion of the arbitration. The arbitration shall be governed by the Federal Arbitration Act. Subcontractor acknowledges good and valuable consideration was conveyed to Subcontractor in exchange for this arbitration clause.

If Contractor provides notice to Subcontractor that the claim or dispute directly or indirectly involves a claim against the Owner, Subcontractor will present and pursue the claim or dispute pursuant to the disputes provisions of the Contract Documents as required by Articles 17 and 18. All claims, actions, and causes of action against Contractor or Contractor's surety to recover on any bond posted by Contractor shall be stayed pending final resolution of the claim or dispute against the Owner.



Contractor



Subcontractor

Any proceedings commenced in any court shall be tried before and decided by the presiding judge without a jury. Subcontractor and Contractor expressly waive any right to have such proceedings determined by trial by jury.

If any part of Paragraph (b) of this Article is determined to be unenforceable, then the claim or dispute shall be decided by binding arbitration governed by the Federal Arbitration Act.

(c) In the event of any claim or dispute between Contractor and Subcontractor, as referred to in either or both of the two immediately preceding paragraphs, or otherwise, it is further specifically agreed by the parties hereto that no claim, dispute or controversy shall interfere with the progress and performance of work required to be performed under this Subcontract and the Subcontractor shall proceed as directed by Contractor in all instances with its work under this Subcontract, and any failure of Subcontractor to comply herewith and to proceed with its work shall automatically be deemed a material breach of this Subcontract entitling Contractor to all remedies available in the event of breach.

(d) This Subcontract shall be governed by and construed in accordance with the law of the State where the Project is located. The venue for any dispute governed by this Subcontract shall be the County where the Project is located. Unless otherwise specified in the Contract Documents, all applicable statutes of limitations and/or statutes of repose shall commence on the date of Substantial Completion of the Project as determined by the Contract Documents.

(e) In the event of any claim or dispute between Contractor and Subcontractor under this Article 18, the parties shall bear their own legal costs and expenses (including attorneys' fees, court costs, arbitration fees and costs, and expert and consultant fees and costs).

ARTICLE 19 - DEFAULT AND TERMINATION.

(a) In the event the Subcontractor fails to comply, or becomes unable to comply, or with reasonable probability will become unable to comply, with any of the material provisions of this Subcontract, or in the event Subcontractor fails to supply a sufficient number of properly skilled workmen or sufficient supplies, materials, equipment or plant of proper quality, or fails to prosecute the work with promptness and diligence; or in the event Subcontractor abandons its work or any part thereof; and such failure, inability, or deficiency is not corrected within ~~five(5)three-(3)~~ days after written demand by the Contractor to the Subcontractor, the Contractor may, in addition to and without prejudice to any other right or remedy, take over and complete the performance of this Subcontract, at the expense of the Subcontractor; or the Contractor may, without taking over the work, immediately and without notice to Subcontractor, furnish the necessary materials and labor, through itself or others, to supplement the Subcontractor to remedy the situation, all at the expense of the Subcontractor. However, in the event Subcontractor provides Contractor with notice of Subcontractor's inability to continue performance and/or abandonment of the Subcontract, Contractor shall be immediately entitled to invoke the remedies provided for in this Article without providing the ~~five(5)three-(3)~~ days' notice otherwise called for herein. The parties hereto further agree that any of the following shall, at the option of the Contractor and subject to applicable law, constitute inability to comply with the provisions of this Subcontract for purposes of this Article: (a) The filing of a petition in bankruptcy or a petition for the appointment of a receiver by or against the Subcontractor or the failure of Subcontractor to promptly provide adequate assurances of continued performance following the filing of such a petition; (b) The insolvency of the Subcontractor or its inability to meet its debts as they mature; (c) The establishment of a receivership or any committee of creditors involving Subcontractor's business or assets, or the making of a general assignment for the benefit of Subcontractor's creditors.

(b) In the event Contractor does take over Subcontractor's work pursuant to this Article, Contractor shall have access to and may take possession of the Subcontractor's materials, supplies, ~~machines, tools, equipment~~, and plant which may be located at the site of the work or en route to the site, as may be necessary to prosecute the work hereunder to completion, all without liability on the part of the Contractor for any damage, wear or tear, depreciation, theft, action of the elements, acts of God, fire, flood, vandalism or for any other injury or damage to such materials, tools and equipment. Upon any action by the Contractor pursuant to this Article, the Subcontractor shall not be entitled to further payment under this Subcontract until the work has been completed and accepted by the Owner and payment therefor has been received by the Contractor from the Owner. In the event that the unpaid balance due exceeds the expense incurred by the Contractor, the difference shall be paid to the Subcontractor; but if such completion expense exceeds the balance due, the Subcontractor agrees to promptly pay the difference to the Contractor, as hereinafter provided, and the Contractor shall have a lien upon all materials, tools, equipment and appliances taken possession of, as aforesaid, to secure the payment thereof. With respect to expenses incurred by the Contractor pursuant to this Article, it is hereby agreed that the costs and expenses chargeable to the Subcontractor as provided herein shall include, without restriction, all direct costs incurred in the completion of Subcontractor's work, the cost of supervision, administration, job overhead, travel, attorneys' fees, legal and accounting fees and expenses, and Contractor's general overhead as allocated to the work, plus 10% of the foregoing cost of the work performed by or through the Contractor, less any amounts still owing hereunder, and Subcontractor agrees to pay the full amount of such excess, if any, together with interest thereon at the rate of 10% per annum until paid. The rights of Contractor set forth in this Article shall be in addition to, and not in lieu of any right or remedy otherwise available to it at law or equity.

ARTICLE 20 - TIMELY DELIVERIES. The Subcontractor agrees to accept full responsibility for expediting and securing timely delivery of its materials, supplies, tools, machines, equipment and plant to the site of the work. In the event the lack thereof should delay construction, the Subcontractor hereby agrees that Contractor may undertake to expedite delivery by any means available and the entire cost thereof shall be chargeable to the Subcontractor and may be deducted from monies otherwise due hereunder.

ARTICLE 21 - PROTECTION OF THE WORK. It is understood and agreed the work provided for in this Subcontract constitutes only a part of the work being performed on this Project by the Contractor and other subcontractors. The Subcontractor

DS
[Signature]

Contractor

DS
[Signature]

Subcontractor

therefore agrees to perform the work called for in this Subcontract in such a manner that will not injure or damage any other work performed by the Contractor or any other subcontractor, and Subcontractor further agrees as follows:

(a) To furnish continuous and effective protection at all times for its own work-in-place and all materials stored for use under this Subcontract, and to bear and be solely liable for all loss and/or damage of any kind to said work and materials occurring at any time prior to the final completion and acceptance thereof, unless said loss or damage is caused by the sole negligence of the Contractor;

(b) To pay or reimburse the Contractor on account of any damage or injury to the work or property of the Owner, the Contractor and other subcontractors caused by or arising from the performance of Subcontractor's work as provided in this Subcontract, including the cost of replacing, repairing, refinishing or restoring any work damaged, removed or displaced in the course of correcting or repairing work or replacing materials hereunder which are rejected by the Owner or the Owner's Authorized Agent or which are deemed to be at variance with the requirements of this Subcontract;

(c) That unresolved claims resulting from glass breakage, damage to finished surfaces, permanent fixtures or equipment, and such other related occurrences wherein the identity of the responsible party is unknown or undetermined, and for which no insurance settlement may be had, may, upon completion of the Project and at the Contractor's option, be fairly and equitably prorated for assessment to the Subcontractor's account and/or to the accounts of those subcontractors who, in the determination of the Contractor, were engaged on the work in a manner and at a time or times from which contributory involvement may reasonably be inferred; and the Subcontractor further agrees that Contractor's decisions or determination in such proration shall be final and conclusive.

ARTICLE 22 - INDEMNIFICATION. To the fullest extent permitted by law, the Subcontractor expressly agrees to indemnify, defend and hold harmless (1) the Contractor and the Contractor's partners, subsidiaries, and affiliate companies, (2) the Owner and the Owner's Authorized Agent, and (3) any other party the Contractor is obligated to indemnify under the Contract (collectively, "the Indemnitees") from and against any and all liability, claims, losses, damages, causes of action, costs and expenses (including reasonable attorneys' fees), arising or allegedly arising from the work performed by the Subcontractor or for the Subcontractor's account under this Subcontract, ~~including any claim or liability arising from any act, error, omission, or negligence of the Contractor occurring concurrently with that of the Subcontractor or contributing to any loss indemnified hereunder, except for the sole negligence or willful misconduct of the Contractor.~~ The claims to which this indemnity obligation shall apply include, but are not limited to, claims for personal injury or death to any person or persons (including but not limited to officers, agents and employees of Contractor, Subcontractor or lower-tier subcontractors to Subcontractor), property damage, or other damage, arising or allegedly arising from Subcontractor's work.

The Subcontractor shall indemnify, defend and hold harmless the Indemnitees from any and all claims, suits, and causes of action by vendors, employees or agents of the Subcontractor or its lower-tier subcontractors when such claims, suits, losses, damages or expenses shall have been incurred or are alleged to have been incurred as a result of an unsafe place to work, failure to properly supervise, or such similar types of complaints. The Subcontractor, its lower-tier subcontractors and vendors shall not raise the immunity of workers' compensation acts or similar laws as a defense to the obligations assumed hereunder with respect to actions brought by their own employees against the Indemnitees.

Article 22 shall survive termination or expiration of this Subcontract.

ARTICLE 23 - SUBSTITUTIONS. The parties hereto stipulate that for purposes of interpreting and applying this Article, the term "substitution" shall be deemed to include any substitution for, modification of, or deviation from the requirements of the plans and specifications referenced in or made a part of the Contract Documents with respect to the materials, equipment and methods of construction or manufacture applicable to the Subcontractor's work hereunder. The Subcontractor warrants and agrees that it has thoroughly familiarized itself with all of the various sections, divisions and subdivisions of the Contract Documents and the Subcontract Documents, including in particular those areas in which its work may in any way affect or be affected by the work of the Contractor or other subcontractors. The Subcontractor shall make no substitution, as defined herein, for which prior written approval of both the Owner and the Contractor has not been obtained. Such approval will not be granted by the Contractor unless applied for in writing by the Subcontractor setting forth a full disclosure of the effect of the proposed substitution upon the work of the Contractor or any other subcontractor. In making or seeking to make any substitution, the Subcontractor hereby agrees to pay or reimburse the Contractor for any increase whatever in the cost of the work undertaken by the Contractor or by any other subcontractor as a result of any substitution made upon initiation of the Subcontractor. The Subcontractor agrees and represents, at the time of entering this Subcontract, that no substitution was contemplated in arriving at the amount of this Subcontract except for which a full written description has been furnished to the Contractor prior to the date hereof, and/or except as may be recited in the Special Provisions section of this Subcontract.

ARTICLE 24 - TERMINATION OR REDUCTION IN SCOPE OF WORK BY OWNER. In the event of elimination or reduction of the work to be performed under this Subcontract by reason of termination or modification of the Contract or Contract Documents or a change in the work to be done thereunder, either in accordance with the terms of the Contract Documents or by default by the Owner, Subcontractor shall in no case be entitled to recover from the Contractor more than its fair and equitable portion of any sums received by Contractor for work done and material supplied by this Subcontractor under this Subcontract. The rights and claims of the Contractor, other subcontractors and third parties shall be taken into consideration in determining Subcontractor's fair and equitable share of the amounts paid by the Owner as a result of such termination or modification and Contractor's determination of Subcontractor's fair and equitable share of any such sums shall be final and conclusive.

ARTICLE 25 - TERMINATION FOR CONVENIENCE. Contractor reserves the right to terminate this Subcontract in whole or in part at any time for any reason for the convenience of the Contractor. Upon receipt of written notice from Contractor of termination of this Subcontract, or any part thereof, for convenience, Subcontractor shall cease work as directed and deliver or



Contractor



Subcontractor

return for credit all materials and equipment which have been purchased and/or are in the possession of Subcontractor relating to the Subcontractor's work as indicated in the notice of termination. Upon termination of the Subcontract for convenience, Subcontractor shall be paid as full compensation all direct costs incurred in connection with the performance of the Subcontractor's work up to the effective date of termination, and a reasonable fee not to exceed 10% of the cost of such work, plus any reasonable costs, such as restocking or cancellation charges, incurred as a direct result of the termination for convenience. Subcontractor waives and releases any claims for other consequential damages or costs, including lost profits, it may otherwise have as a result of a termination for convenience. In the event a termination of the Subcontract for default pursuant to Article 19 hereof is determined to be wrongful or unjustified, the termination shall be treated as and converted to a termination for convenience pursuant to this provision.

ARTICLE 26 - WAIVERS. It is expressly agreed that the waiver by Contractor of any breach or default of this Subcontract by Subcontractor shall not be construed as a waiver of any other breach or default of the same or any other terms, conditions, provisions or covenants of this or any other Subcontract between the parties hereto. Forbearance from demanding strict compliance with any term or provision of this Subcontract or any other Subcontract between the parties hereto shall not operate as a waiver and shall not prevent Contractor from subsequently demanding strict compliance therewith.

ARTICLE 27 - PAYROLL AND EMPLOYMENT COMPLIANCE.

(a) Subcontractor shall comply with all requirements of the Contract Documents and Subcontract Documents pertaining to payroll reports and affidavits; payment of prevailing wages; benefits and contributions; anti-kickback clauses; fair labor practices; nondiscrimination clauses; equal employment opportunity laws; orders and directives; and other labor arrangement requirements insofar as such matters pertain to its work under this Subcontract. Failure of Subcontractor to observe any of the aforesaid requirements, including the prompt submission to the Contractor of required reports and affidavits, shall constitute cause for withholding progress payments until such requirements are met. It shall be the responsibility of the Subcontractor to determine its own status under the various regulatory acts relating to employment, and nothing in this Subcontract shall serve to make the Contractor liable for any errors or acts of Subcontractor with respect thereto. The Subcontractor agrees to consult with the Contractor in all matters pertaining to craft work assignments wherein such assignments might reasonably result in controversy or craft jurisdictional disputes.

(b) Subcontractor hereby agrees that if any portion of its work under this Subcontract is further subcontracted, subject to Article 2 hereof, such lower-tier subcontractor shall comply with, observe and be bound by the terms and provisions of this Article, and Subcontractor further agrees to incorporate the terms and provisions of this Article in any lower-tier Subcontract.

ARTICLE 28 - LABOR AGREEMENTS.

(a) Subcontractor shall comply with, observe and be bound by all terms and provisions of the following collective bargaining agreements executed by Contractor or on Contractor's behalf: Laborers (Local 368), Masons (Local 630), Carpenters (Local 745), Operating Engineers (Local 3).

(If no agreements are listed, then Contractor has not entered into collective bargaining agreements applicable to this Project, in which case Articles 28(a) and 28(b) are inapplicable.) Subcontractor's compliance with the foregoing agreements shall include, but not be limited to, the provisions in such agreements relating to the following: (a) the assignment of work or the settlement of jurisdictional disputes; (b) resolution of disputes as specified in the applicable agreement, whether through arbitration or otherwise; (c) the making of payments into or under health and welfare or other fringe benefit funds or plans. All requirements imposed by this Article shall apply only to the extent that the terms and provisions of such collective bargaining agreements can legally be applied to the work to be performed hereunder. Subcontractor shall indemnify, defend and hold Contractor harmless from and against any liability, claim, loss, expense, damage or cause of action, including court costs and attorney's fees, resulting from Subcontractor's failure to comply with the provisions of this Article.

(b) In the event Subcontractor fails or refuses to comply with, observe or be bound by any term or provision of any such collective bargaining agreements executed by Contractor or on Contractor's behalf and does not correct such failure or refusal within twenty-four (24) hours after notice thereof is furnished to Subcontractor by Contractor, Subcontractor shall be deemed to be in default for breach of this Subcontract and this Subcontractor shall be subject to immediate termination at the option of the Contractor. Such optional right of termination of this Subcontract, if exercised by Contractor, shall be in addition to and not in lieu of any other right or remedy available to the Contractor; and in addition thereto, Contractor shall have the right of reimbursement in full by Subcontractor for court costs and attorneys' fees Contractor may sustain in the event of such breach or default of this Subcontract by Subcontractor.

(c) The Subcontractor further agrees that in the event of any strike, picket, sympathy strike, work stoppage, or other form of labor dispute at the construction site, regardless of whether that dispute or picket relates to the Contractor, the Subcontractor, the Owner, or any other contractor or subcontractor on this construction site, the Subcontractor will continue to perform the work required herein without interruption or delay. In the event the Subcontractor fails to continue the performance of the work without interruption or delay because of such picket or other form of labor dispute, the Contractor may terminate the services of Subcontractor after giving twenty-four (24) hours written notice of an intent to do so, or the Contractor may invoke any of the other rights set forth in this Subcontract.

(d) Additionally, should the Subcontractor be party to one or more labor agreements it shall take all reasonable action to avoid any work stoppage and, in the event a work stoppage should occur, it shall, within twenty-four (24) hours, take any and all legal action provided for, or permitted by, such labor agreements in order to expedite resumption of work on this Project. It is contemplated hereby that Subcontractor shall, if necessary, utilize to the fullest extent possible all rights that allow for the hiring of replacement employees, should the hiring hall of the Subcontractor be unable or unwilling to meet the needs of the Subcontractor.



Contractor



Subcontractor

Whenever the Subcontractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this Subcontract, Subcontractor shall immediately give notice thereof, including all relevant information with respect thereto, to the Contractor.

(e) Access to the construction site will be limited. During the performance of work required by this Subcontract, the Subcontractor, its employees, suppliers and visitors will only use such entrance or entrances to the construction site as may be designated from time-to-time by the Contractor. In the event a Subcontractor or any of its employees, suppliers or visitors should fail to use the designated entrance(s) and thereby causes the Contractor to incur additional costs thereby, Subcontractor agrees to be fully responsible for such additional costs.

(f) If the Owner is an agency or instrumentality of the United States Government and the contract requires compliance with Executive Order 13496, "Notification of Employee Rights Under Federal Labor Laws", then 29 CFR Part 471, Appendix A to Subpart A is hereby incorporated by reference into the Subcontract Agreement, and Subcontractor agrees to comply fully with its requirements regarding the posting of notices to employees of their rights under federal labor laws. Subcontractor also agrees to incorporate 29 CFR Part 471, Appendix A to Subpart A, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract Agreement.

ARTICLE 29 – PERMITS, LICENSES AND APPLICABLE LAW. Subcontractor shall obtain and pay for all permits, licenses and official inspections made necessary by its work. Subcontractor shall comply with all laws, ordinances and regulations applicable in any way to the work required under this Subcontract

ARTICLE 30 - SEVERABILITY. To the best knowledge and belief of the parties, this Subcontract contains no provision that is contrary to any applicable Federal, State or local law, regulation or ordinance. However, should any provision of this Subcontract at any time during its effective term be in conflict with any such law, regulation, or ordinance, then such provision shall continue in effect only to the extent permitted. In the event any provision of this Subcontract is thus held inoperative, the remaining provisions of this Subcontract shall nevertheless remain in full force and effect to the extent permitted by law.

ARTICLE 31 - INDEPENDENT CONTRACTOR STATUS. The Subcontractor certifies that it is, or that prior to the commencement of work under this Subcontract it will become an "independent contractor" and "employing unit" subject, as an employer, to all applicable laws and regulations with respect to such status. Subcontractor agrees to defend Contractor against any claim or assertion of an employer-employee relationship between Contractor and Subcontractor's workers, and to indemnify and hold Contractor harmless against any expense or liability imposed upon Contractor by reason of a finding of such an employer-employee relationship.

ARTICLE 32 - PERSONNEL. The Subcontractor shall not employ any persons in the performance of this Subcontract whose employment might be reasonably objected by the Contractor or Owner. In the interest of harmonious relations and to facilitate the orderly and efficient progress of the work on this Project, the Subcontractor hereby agrees to promptly remove from the Project any supervisor, employee, worker or lower-tier subcontractor to whom the Contractor reasonably objects or to whom the Owner or the Owner's Authorized Agent objects, and such person or party shall not again be employed in connection with the performance of this Subcontract. The Subcontractor shall at all times maintain a qualified and skilled superintendent or foreman at the site of the work who shall be satisfactory to the Owner, the Owner's Authorized Agent and/or to the Contractor. Such superintendent or foreman shall be duly and legally authorized to represent and act for the Subcontractor with respect to all matters in connection with or arising out of work under this Subcontract.

ARTICLE 33 - SAFETY.

(a) The Subcontractor shall strictly observe and comply with all applicable safety laws, rules and regulations, including applicable OSHA standards, and with the accident prevention plan required under the applicable provisions of the Contract Documents and/or as directed by the Contractor. Whenever the Contract Documents shall require any special safety, first aid, or emergency treatment facilities, it is agreed that same shall be provided by the Subcontractor for its own use; or that, when such alternative is made available by the Contractor, the Subcontractor shall enter into a Supplementary Agreement with Contractor and other subcontractors for the cooperative provision thereof; and the entire cost thereof shall be prorated among the participants in proportion to the number of employees engaged on the Project each month by the respective participants. Subcontractor shall indemnify, hold harmless and defend Contractor from any citations, fines or penalties assessed Contractor by the Occupational Safety and Health Administration, or any other state or local agency or authority with jurisdiction over workplace health or safety, relating to or arising from Subcontractor's work performed hereunder. In the event any such citations, fines or penalties are issued to Contractor relating to or arising from Subcontractor's work, and Contractor files an appeal from said citation, fine or penalty with an appropriate agency, Subcontractor agrees to promptly pay Contractor for any and all expenses and costs incurred by Contractor in its defense of its appeal, including attorneys' fees, as well as any fines or penalties which may be assessed upon the completion of Contractor's appeal. Contractor may employ counsel of its own choosing. In the event Contractor does not file an appeal from citations, fines or penalties issued to Contractor relating to or arising from Subcontractor's work, Subcontractor shall promptly pay the proposed fines or penalties and if such payment is not made promptly, Contractor may pay such fines or penalties and deduct the amount paid from any amounts due Subcontractor hereunder.

(b) Any accident arising out of Subcontractor's work shall be discussed at the next Contractor's Safety Committee meeting. At that meeting, an officer, executive or owner of Subcontractor shall explain, in person, the cause of the accident and the actions Subcontractor shall take to prevent similar accidents in the future.

(c) Any of Subcontractor's employees who are found to be in violation of Contractor's safety rules will be subject to immediate and permanent removal from the Project, in accordance with Article 32. In the event Subcontractor has safety issue(s)



Contractor



Subcontractor

on the Project, Contractor may, in its sole discretion, require Subcontractor to furnish a full-time safety professional for the Project, at no additional cost to Contractor. This safety professional shall demonstrate full and complete understanding of the safety laws, rules and regulations applicable to Subcontractor's work on the Project and must hold a current Construction Health and Safety Technician (CHST) certification from the Board of Certified Professionals. Associate Safety Professional (ASP) or Certified Safety Professional (CSP) certifications issued by the Board of Certified Safety Professionals can be used in lieu of the CHST certification, provided Contractor approves of such alternate certification.

(d) If Subcontractor's work involves the furnishing of scaffolding for the Project, Subcontractor shall have a competently trained person on the Project to supervise and inspect the scaffolding during erection, usage and dismantling. A registered professional engineer must be engaged to design the scaffold when it exceeds 50 feet and their stamped drawings must be submitted to the Contractor and maintained on file for the duration of the Project.

(e) Subcontractors shall adopt and implement a Substance Abuse Prevention Policy that meets or exceeds all requirements of the project specific accident prevention plan. Contractor may direct Subcontractor to test 100% of Subcontractor's employees on the Project or any personnel involved in an accident, incident or near miss.

(f) Prior to mobilization to the Project Site, Subcontractor shall designate a responsible individual who shall have overall responsibility for reviewing, implementing, and ensuring compliance with the accident prevention plan, subcontractor's safety plan, any jobsite safety requirements and/or procedures and all applicable safety laws, rules and regulations. The responsible individual shall be competent, through experience and training, to identify hazards associated with the Subcontractor's work and shall be present on the Project Site during all of Subcontractor's activities. The responsible individual shall also conduct periodic safety inspections in connection with the performance of the Subcontractor's work and weekly safety meetings with Subcontractor's employees. The responsible individual will perform a continuing survey of Subcontractor's operations to ensure that probable causes of injury or accident are controlled and that operating equipment, tools, and facilities are used, inspected, and maintained as required by applicable safety and health regulations.

(g) All cranes assembled onsite shall undergo an independent inspection and documentation of such inspection shall be submitted to Contractor prior to any crane operations. Inspection must be performed by a qualified inspector acceptable to Contractor.

(h) Unmanned drones may not be operated without prior notice to Contractor. Subcontractor must follow all Contractor directives, instructions, and policies regarding the operation of drones. Drones may not be operated where prohibited by Owner, Contractor, or any applicable laws, rules, and regulations. When use of drones is permitted, Subcontractor must comply with all applicable laws, rules, and regulations governing the operation and use of drones, including CFR Title 14, Chapter I, Subchapter F, Part 107 (14 CFR part 107). Subcontractor's drone operators must possess all licenses and certifications mandated by the Federal Aviation Administration and applicable law, rules, and regulations.

ARTICLE 34 - BONDS.

(a) Unless specifically waived herein by Contractor, Subcontractor shall furnish to the Contractor and on or before the earlier of fifteen (15) days of the date hereof, or the date of commencement of work by the Subcontractor, a performance bond and a payment bond, each for the full amount of this Subcontract as set forth in Section C. The two bonds shall be drawn in favor of the Contractor and shall be executed by a surety company listed on the current edition of the United States Department of Treasury list of approved sureties and for an amount not exceeding the approved amount for the surety company indicated in the United States Department of Treasury list, and on forms furnished by the Contractor or approved by the Contractor. No payment whatsoever shall be due the Subcontractor until the provisions of the Article have been met to the Contractor's satisfaction. Failure of the Subcontractor to provide the required bonds within the time periods required by this provision shall constitute a material breach of this Subcontract, entitling the Contractor, at its option, to immediately terminate the Subcontract pursuant to Article 19 hereof, or declare the Subcontract null and void. In the event the Surety on any bond furnished by or on behalf of the Subcontractor becomes insolvent or ceases doing business, Subcontractor shall immediately furnish, without expense to the Contractor, replacement bonds that meet the requirements stated above.

(b) No change, alteration or modification in the terms, conditions or scope of this Subcontract, or in the terms or manner of payment shall in any way exonerate or release, in whole or in part, any surety on any bond furnished by or on behalf of the Subcontractor. If required to do so by the Contractor, prior to commencement of any work required hereunder, Subcontractor shall obtain, and furnish to Contractor, a copy or counterpart of this Subcontract which shall have been endorsed in writing by an authorized representative of the surety company, specifically approving this Subcontract.

ARTICLE 35 - NOTICES.

(a) Written notice, where required by the terms of this Subcontract, may be accomplished by personal delivery of said notice or by use of commercial delivery service or the United States Mail.

(b) Personal delivery is complete when the notice is delivered to the Subcontractor or its representative at the Project or at the office address of the Subcontractor appearing in this Subcontract.

(c) When mail or commercial delivery service is used, delivery is complete on the day or date first occurring among the following: (1) On the day the communication is received by Subcontractor as evidenced by a return receipt furnished by the United States Post Office or by any recognized messenger or delivery service, or (2) On the third (3rd) day after the notice is deposited in the U.S. Mail addressed to the Subcontractor at the Project or at the address appearing on this Subcontract.

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[Signature]

Contractor

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[Signature]

Subcontractor

ARTICLE 36 - COMMUNICATIONS WITH OWNER. The Subcontractor's sole and exclusive responsibility for the performance of this Subcontract is to the Contractor, and it is agreed that all of Subcontractor's dealings with the Owner's Authorized Agent, the Owner, or any other parties named in the Contract Documents shall be through the Contractor.

ARTICLE 37 - PATENTS. The Subcontractor shall indemnify, hold harmless and defend Contractor and Owner from any claims or damages, including court costs, expenses and attorneys' fees, related to or arising out of any patented or unpatented invention, article or appliance, manufactured, furnished or used, or alleged to be manufactured, furnished or used, in the performance of this Subcontract.

ARTICLE 38 - PAYROLL CONTRIBUTIONS, TAXES. The Subcontractor accepts full and exclusive liability for the payment of any and all contributions, taxes or insurance of any description whatever, now or hereafter imposed by any authority, which are measured by the wages, salaries or other compensation paid to persons employed by Subcontractor on work performed pursuant to the terms of this Subcontract. Further, Subcontractor agrees to and does hereby accept full and exclusive liability for the payment of any and all taxes, including personal property, sales taxes, use and excise taxes, relating to the materials, supplies, tools, machinery, equipment and plant which may be purchased, acquired, rented or used by Subcontractor relating to work performed under this Subcontract.

ARTICLE 39 - INSURANCE.

(a) Subcontractor shall provide and maintain, and ensure that each sub-subcontractor provides and maintains, at all times during the performance of this Subcontract, and for such extended time as provided herein, the following insurance:

- (i) Workers' Compensation for protection of the Subcontractor's owners, partners, and employees. At a minimum, such coverage shall include the benefits and limits designated in the applicable states' Workers' Compensation law. If there is a maritime exposure to Subcontractor's employees under the U.S. Longshore and Harbor Workers' Compensation Act (including the Outer Continental Shelf Lands Act), the Jones Act or under any other laws, regulations or statutes applicable to maritime employees, coverage shall be included for all such injuries or claims.

Employer's Liability Insurance shall have the following minimum limits:

1. Each Accident	\$ 1,000,000
2. Each Occupational Disease	\$ 1,000,000
3. Occupational Disease - Aggregate	\$ 1,000,000

Use of leased employees by the Subcontractor is expressly prohibited without the Contractor's written authorization. Where permitted, Subcontractor must still obtain the Workers Compensation, Employer's Liability and other insurance required by this section, and the coverage shall include an endorsement providing coverage for alternate employer/leased employee liability. In addition, Subcontractor shall require the leasing company to provide a waiver of subrogation in favor of Contractor and Indemnitees on such leasing company's workers compensation, employer's liability and general liability policies.

- (ii) Commercial General Liability (CGL) Insurance covering bodily injury, including death, personal injury, property damage, work performed on your behalf by others, and contractual liability coverage including all terms set forth in this Subcontract. The CGL policy shall be provided on the current ISO Occurrence Form CG 00 01 or form at least as broad, including coverage for products/completed operations and there shall be no endorsement or modification of the form limiting coverage for explosion, collapse, underground hazard work performed by Subcontractor, or contractual liability coverage (including the definition of an "insured contract"). The CGL policy will not contain any special exclusions directed toward any types of projects, materials, or processes involved in the work.

Minimum limits of liability provided by this coverage shall be:

1. General Aggregate	\$ 5,000,000
2. Products/Completed Operations Aggregate	\$ 5,000,000
3. Personal & Advertising Injury	\$ 5,000,000
4. Each Occurrence	\$ 5,000,000

The products/completed operations coverage required herein will be maintained on all renewal policies until the statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed.

- (iii) Automobile Liability Insurance on a coverage form no less broad than ISO Business Auto Coverage Form CA 0001, covering liability for bodily injury or property damage, arising out of the use, operation and maintenance of "any auto", including automobiles, trucks, trailers, or other vehicles owned, hired, or non-owned by or on behalf of Subcontractor. Minimum limits of liability provided by this coverage shall be a combined single limit of \$5,000,000 (\$10,000,000 for all automobile operations in the airside area of an airport).

- (iv) If any professional design or professional engineering work is performed by or on behalf of Subcontractor, including without limitation design, architecture, engineering, testing, surveying, or design/build services,

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Contractor

Subcontractor

Professional Liability and errors and omissions insurance covering the design and other professional services provided under this Subcontract. Such insurance shall have minimum policy limits of Three Million Dollars (\$3,000,000) per claim and in the aggregate per annum and a maximum deductible of \$25,000.00. If such errors and omissions insurance is written on a Claims-Made basis, Subcontractor warrants that any Retroactive Date under the policy shall precede the earlier of the date of this Subcontract or the performance of any professional services hereunder. A Certificate of Insurance indicating the expiration date of the insurance is required, and the insurance shall be continued in full force and effect until the applicable statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed.

(v) Physical damage property insurance for the value of all Subcontractor-owned and/or rented tools and equipment covering the interest of Contractor and including a waiver of subrogation in favor of Contractor and other Indemnitees in the event of loss or damage.

(vi) If drones of any type are used by or on behalf of Subcontractor, Unmanned Aircraft Liability Insurance covering injury or damages caused by drone use with minimum limits of \$5,000,000 per occurrence. Such insurance may be added by endorsement to the CGL policy with coverage not less broad than ISO CG 24 50 06 15.

(b) Subcontractor may meet the specified minimum liability limits through a combination of primary policies with umbrella/excess policies, but only if such umbrella/excess policies provide coverage at least as broad as the primary policies. The Subcontractor agrees to notify the Contractor of any substantial claims (paid or reserved) applied against the aggregate of any of the required insurance policies. The Subcontractor's Commercial General Liability policy shall be endorsed to provide the general aggregate limit applies separately to this Project.

(c) All insurance required hereunder shall be maintained in full force and effect in a company or companies satisfactory to the Contractor with an A.M. Best rating of A-VII or better, at Subcontractor's expense, including the payment of all premiums, deductibles and self-insured retentions applicable to such policies or claims thereunder, and until performance in full of all obligations due hereunder, including warranty obligations, or until such later time as provided for herein.

(d) All insurance shall be subject to the requirement that the Contractor must receive prior written notice thirty (30) days before cancellation of or failure to renew any such policy. In the event of the threatened cancellation for nonpayment of premium, the Contractor may pay the same on behalf of the Subcontractor and deduct the payment from the amounts then or subsequently owing to the Subcontractor.

(e) The Contractor, Indemnitees, and any other party requested by Owner shall be named as additional insureds on the Subcontractor's and sub-subcontractors' liability insurance policies except for Workers' Compensation and Professional Liability. To the maximum extent permitted by law, the coverage provided to the additional insureds on the CGL and umbrella/excess policies shall be provided by a policy provision or an endorsement which is as broad as ISO CG 20-10 04 13 for ongoing operations in combination with ISO CG 20-37 04 13 for completed operations; provided, however, Subcontractor shall provide ISO CG 2010 11-85 or equivalent coverage where available from its insurer and permitted by law. Forms ISO CG 20-33 and ISO 20-39 are not acceptable. The additional insured coverage for completed operations shall be included on all renewals of such policies until the statute of limitation or statute of repose, whichever is longer, applicable to the Subcontractor's work and the Project have lapsed. The insurance requirements set forth in this Subcontract, including but not limited to the additional insured requirements, are in addition to and not in any way in substitution for all other protection provided under the Subcontract, including Article 22 (Indemnification). Unless expressly approved by Contractor in writing, Subcontractor's obligation to provide additional insured coverage cannot be satisfied with an Owner's and Contractor's Protective liability insurance policy.

(f) Unless prohibited by applicable law, Subcontractor shall cause to be prepared and submitted to Contractor Certificate(s) of Insurance, additional insured endorsements and a Subcontractor Insurance Compliance Statement complying with the requirements of this Article. No payment shall be considered due and owing hereunder until the required Certificate(s) of Insurance, additional insured endorsements and Subcontractor Insurance Compliance Statement satisfactory to the Contractor, have been received by the Contractor. In addition, failure of the Subcontractor to maintain the insurance required herein, or provide the required Certificate(s) of Insurance, additional insured endorsements and Subcontractor Insurance Compliance Statement within the time periods required by Paragraph (h) of this Article, shall constitute a material breach of this Subcontract, entitling the Contractor to any remedies available including, at its option, to immediately terminate the Subcontract pursuant to Article 19 hereof or declare the Subcontract null and void.

(g) All insurance available to or provided by the Subcontractor hereunder (including umbrella/excess policies) shall be primary to and will not seek contribution from any other insurance or self-insurance available to Contractor or any additional insured, and Subcontractor's coverage shall be to the full limits of liability, even if those limits exceed the minimum limits specified herein. The minimum requirements do not represent a determination of the insurance coverage the Subcontractor should or should not maintain for its own protection. Subcontractor's CGL and umbrella/excess policies coverage shall be endorsed as necessary to provide such primary and noncontributory liability.

(h) The Certificate(s) of Insurance, additional insured endorsement(s), and Subcontractor Insurance Compliance Statement (where allowed by law) evidencing the required insurance must be filed with the Contractor within thirty (30) days of the Effective Date, unless Subcontractor is scheduled to begin work before then, in which case the Certificate(s) of Insurance, additional insured endorsement(s), and Subcontractor Insurance Compliance Statement shall be provided no less than seven (7) days prior to the Subcontractor's commencement of work hereunder. Article 39 shall survive termination or expiration of this Subcontract.

(i) It is the practice of the Contractor to carry Builder's Risk Insurance applicable to the Contract, or, in the alternative, to participate as an additional insured in such a policy that may be furnished by the Owner. The Contractor shall



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Subcontractor

endeavor to include the interest of the Subcontractor, as its interest may appear, under the Project Builder's Risk coverage. The provisions of this Subcontract do not make it mandatory upon the Contractor to carry any insurance whatsoever for the benefit of the Subcontractor. Subcontractor agrees it will assume responsibility to determine whether Builder's Risk Insurance is in force and what coverage is afforded the interests of the Subcontractor, and Subcontractor shall be liable for any deductible amount applicable under the policy to any claim relating to Subcontractor's work. In the event the Contractor should elect to carry Builder's Risk Insurance, the Subcontractor agrees to submit immediately upon demand, a complete breakdown of this Subcontract price showing materials, labor, expendable tools, supplies or any other thing or article of value, the cost of which is included in the Subcontract amount stated herein, all as may be required for the purpose of determining values under said coverage.

(j) Subcontractor waives all rights of recovery against Contractor, Indemnitees, any other party requested by Owner, and any other person or entity performing work or rendering services on behalf of Contractor in connection with the planning, development, or construction of the Project, to the extent any losses, claims or damages are covered by any policy of insurance available to Subcontractor. Subcontractor further waives all rights of recovery which are not covered by insurance because of deductible clauses, inadequacy of limits, insurance policy limitations or exclusions of coverage, or Subcontractor's failure to maintain insurance that is required to be maintained as provided herein. Subcontractor shall also require that all insurance policies related to Subcontractor's work secured by Subcontractor or its sub-subcontractors include clauses providing that each insurance underwriter waives all of its rights of recovery by subrogation, or otherwise, against Contractor, Indemnitees, and any other party requested by Owner. Subcontractor shall require similar written express waivers and insurance clauses from each of its sub-subcontractors. A waiver of subrogation shall be effective as to any individual or entity even if such individual or entity (1) would otherwise have a duty of indemnification, contractual or otherwise, (2) did not pay the insurance premium directly or indirectly, or (3) has or doesn't have an insurable interest in any property damaged.

ARTICLE 40 - EQUAL EMPLOYMENT OPPORTUNITY AND ANTI-HARASSMENT POLICY.

(a) The Subcontractor acknowledges that as a government contractor, Contractor is subject to various federal laws, executive orders and regulations regarding equal opportunity and affirmative action which may also be applicable to Subcontractor and lower tier subcontractors, suppliers and vendors. Accordingly, the Subcontractor, in performing the work required by this Subcontract, shall not discriminate against or harass any applicant or employee, any other worker or other individual on the site, or any minority or disadvantaged business enterprise because of belief, race, creed, color, religion, sex, age, national origin or ethnic background, disability, or sexual orientation, or because s/he is a qualified individual with disabilities or Active-Duty Wartime or Campaign Badge Veteran. Unless this Subcontract is exempted by the rules, regulations or orders of the Secretary of Labor, Subcontractor shall abide by the applicable requirements of and comply with the applicable provisions of Executive Order 11246, as amended; Section 503 of the Rehabilitation Act of 1973, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended; the Immigration Reform and Contract Act of 1986, as amended; the Americans with Disabilities Act of 1990, as amended; Title VII of the Civil Rights Act of 1964, as amended; and the affirmative action provisions set forth in 41 CFR § 60-1.4(a), 41 CFR § 60-4.3, 41 CFR § 60-250.5, 41 CFR § 60-300.5(a), 41 CFR § 60-741.4, and 41 CFR § 60-741.5(a). Subcontractor shall comply also with all of the other requirements contained in the Code of Federal Regulations that implement these laws, and such regulations are incorporated by reference herein. As applicable, these regulations prohibit discrimination against all individuals based on their belief, race, creed, color, religion, sex, age, national origin or ethnic background, disability, or sexual orientation, or because s/he is a qualified individual with disabilities or Active-Duty Wartime or Campaign Badge Veteran. Moreover, these regulations, as applicable, require that covered contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to belief, race, creed, color, religion, sex, age, national origin or ethnic background, disability, or sexual orientation, or because s/he is a qualified individual with disabilities or Active-Duty Wartime or Campaign Badge Veteran. Subcontractor shall include the above provisions of this Article in all lower-tier subcontracts and purchase agreements issued for work to be performed at the site under this Subcontract.

(b) It is the policy of Contractor to provide a working environment at its sites and facilities that is free of sexual harassment and harassment, intimidation and coercion based on belief, race, creed, color, religion, sex, age, national origin or ethnic background, disability, sexual orientation, or because a qualified individual with disabilities or Active-Duty Wartime or Campaign Badge Veteran. Sexual harassment includes, but is not limited to, unwanted advances with sexual overtones, statements regarding permissiveness or the sexual reputation of an individual, and intimidation or coercion. Subcontractor shall comply with this policy in the performance of the Subcontractor's work. Subcontractor shall fully investigate any reported violations of this policy involving employees of Subcontractor or any lower-tier subcontractor or supplier to Subcontractor and report the results of such investigation to Contractor. Any offensive materials, including offensive hard hat stickers, shall be removed from the Project immediately upon notice to Subcontractor. Any personnel who are found to have violated this policy shall be removed by Subcontractor from the Project at the direction of Contractor in accordance with Article 32.

ARTICLE 41 - EFFECTIVE DATE. The effective date of this Subcontract is intended by both parties to be the date indicated at the beginning of this Subcontract. The dates appearing by the signatures at the end of this document merely indicate the dates that the signatures were affixed. If this Subcontract is executed prior to award of the Contract by Owner to the Contractor, this Subcontract shall constitute a pre-bid agreement, which cannot be canceled by either party, and upon award of the Contract to the Contractor, the Subcontract shall become a binding agreement. If the Contract is not awarded to the Contractor, this Subcontract shall be void and of no effect, and neither party shall have any liability or obligation to the other party.

ARTICLE 42 - SCOPE OF WORK. With respect to Section B hereof, Subcontractor acknowledges and agrees that any recapitulation of the work to be performed shall be for the sole and exclusive purpose of clarifying the status of those items which are specifically mentioned as being included in, or excluded from, the scope of this Subcontract. Where, in Section B hereof, a division or divisions of the Contract Specifications is referred to in describing the work to be performed under this Subcontract, the

Contractor

Subcontractor

Subcontractor shall, unless otherwise specified, perform all of the work required by such division or divisions, plus all additional related work of a similar nature generally performed by the trades or crafts employed or engaged by the Subcontractor in executing the principal work under this Subcontract, whether or not such additional or related work of a similar nature is specifically called for in the plans, in other divisions of the specifications, or in any other of the Contract Documents. If any materials are to be furnished but not installed under the terms of this Subcontract, it is understood and agreed that Subcontractor shall deliver and unload said materials at the jobsite without expense to the Contractor.

ARTICLE 43 - EARLY OCCUPANCY. Whenever it may be useful or necessary to the Contractor to do so, the Contractor shall be permitted to occupy and/or use any portions of the work which has been either partially or fully completed by the Subcontractor before final inspection and acceptance thereof by the Owner, but such use and/or occupation shall not relieve the Subcontractor of its warranty of said work and materials nor of its obligation to make good at its own expense any defect in materials and workmanship which may occur or develop prior to Contractor's release from responsibility to the Owner; provided, however, the Subcontractor shall not be responsible for the maintenance of such portion of work as may be used and/or occupied by the Contractor nor for any damage thereto that is due to or caused by negligence of the Contractor during such period of use. In the event the Owner occupies or uses, prior to final inspection and acceptance, any portion of the work performed by Subcontractor, the maintenance and warranty obligations with respect to such work shall be governed by the applicable provisions of the Contract Documents.

ARTICLE 44 – UTILIZATION OF SMALL BUSINESS CONCERNS. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with Federal Acquisition Regulation ("FAR") 52.2.219-9, entitled "Small Business Subcontracting Plan", then FAR 52.219-8, "Utilization of Small Business Concerns", is hereby incorporated by reference into the Subcontract, and Subcontractor agrees to comply fully with the requirements of that provision. In addition, if this Subcontract is for the performance of construction services with further subcontracting possibilities and for an amount in excess of \$1.5 million; or if this Subcontract is not for the performance of construction services and for an amount in excess of \$650,000, Subcontractor agrees to adopt a subcontracting plan that complies with the requirements of FAR 52.219-9, entitled "Small Business Subcontract Plan" ("Plan"), and submit a copy of the Plan to Contractor. As a part of this obligation, Subcontractor agrees to submit to Contractor semi-annually Standard Form ISR, Subcontracting Report for Individual Contracts, Standard Form SSR, and Summary Subcontract Report, in accordance with subparagraph (l) of FAR 52.219-9. Contractor shall provide its prime contract number, DUNS number and email address in accordance with subparagraph (v) of FAR 52.219-9 (d) (10), and Subcontractor shall provide the prime contract number, Subcontractor's DUNS number and email address to its lower-tier subcontractors with subcontracting plans in accordance with subparagraph (vi) of FAR 52.219-9 (d)(10).

ARTICLE 45 – CODE OF BUSINESS ETHICS AND CONDUCT. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with FAR 52.203-13, entitled "Contractor Code of Business Ethics and Conduct", and FAR 52.203-14, entitled "Display of Hotline Poster", and if this Subcontract is for an amount in excess of \$5,000,000.00, and if the Subcontract performance period is more than 120 days, then FAR 52.203-13 and FAR 52.203-14 are hereby incorporated by reference into the Subcontract, and Subcontractor agrees to comply fully with the requirements of those provisions.

ARTICLE 46 – E-VERIFY PROGRAM. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with the FAR entitled: "E-Verify Clause" FAR 52.222-54 then FAR 52.222-54 is hereby incorporated by reference into the Subcontract Agreement, and Subcontractor agrees to comply fully with its requirements regarding verification of employment eligibility of its employees using the E-Verify program. Subcontractor also agrees to incorporate the E-Verify Clause, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract Agreement.

ARTICLE 47– TELECOMMUNICATIONS/VIDEO SURVEILLANCE. If the Owner is an agency or instrumentality of the United States Government and the Contract requires compliance with FAR clauses 52.204-24, 52.204-25, and 52.204.26, then FAR Clauses 52.204-24, 52.204-25, and 52.204.26 are hereby incorporated by reference into the Subcontract and Subcontractor agrees to comply fully with their requirements regarding the prohibition against manufacturing, purchasing for resale, providing, or installing any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology, as part of any system produced by the excluded parties referenced, and updated, in FAR clause 52.204-25. Prior to execution of this Subcontract, Subcontractor shall certify that it has reviewed the list of excluded parties in the System for Award Management (SAM) for entities excluded from receiving federal awards for covered telecommunications equipment or services. Subcontractor also agrees to incorporate these three FAR clauses, by reference, into all subcontracts and purchase agreements of every tier with any subcontractor, supplier, distributor, vendor, or firm that furnishes supplies or services under this Subcontract.

ARTICLE 48 – LIMITED DAMAGES WAIVER. Notwithstanding any other provision contained in this Subcontract, in no event shall either party be liable to the other for loss of use, lost profits, lost rentals, or any other consequential, incidental or indirect losses or damages (in tort, contract, or otherwise) except that Subcontractor shall be liable to Contractor for such damages to the extent that Contractor is liable to Owner or others and the damages are attributable to an act or omission of the Subcontractor.

Contractor

Subcontractor

ARTICLE 48 - HEADINGS. The Article headings used in this Agreement are for ease of reference only and shall not be considered a part of or affect the interpretation or meaning of this Agreement.

SECTION E. SPECIAL PROVISIONS.

ACKNOWLEDGEMENT OF COMPLETE INSTRUMENT: Bound in and with these 19 pages numbered 1 of 19 through 19 of 19, and hereby acknowledged as being received by Subcontractor, are the following exhibits or attachments numbered: 2A – 2D.

IN WITNESS WHEREOF, the parties hereto have executed this agreement for themselves, their heirs, executors, successors, administrators and assigns, on the day and year first above written.

DocuSigned by:
Amanda Brucato
(Subcontractor)

By: Amanda Brucato

HENSEL PHELPS CONSTRUCTION CO.
(Contractor)

DocuSigned by:
Allie Ackerman
04A3D564F63A4F4...

By: Allie Ackerman

Title: Director of Contracting December 4, 2021 |

11:53 AM EST December 4, 2021 |
Title: Project Manager

Date

Date

1300 N. Ho'opono Street, Suite 201
Kihei, HI 96753-0220
(Address of Record)

DS
[Signature]

Contractor

DS
AB

Subcontractor

<div><div></div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div>		Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE										Data Date: 11-Aug-2021																
Activity ID	Activity Name	Original Duration	Start	Finish	2022			2023			2024			2025			2026			2027			2028			2029		
					Q	Q	Q	Q3	Q	Q	Q	Q	Q	Q	Q	Q2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q3
Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE		1386	11-Aug-2021	31-Dec-2026	31-Dec-2026, Sand Island WWTP Sec																							
Executive Summary & Milestones		1386	11-Aug-2021	31-Dec-2026	31-Dec-2026, Executive Summary & M																							
EXS1000	Bid Day	0	11-Aug-2021*		Bid Day																							
EXS1010	Award Period	60	11-Aug-2021	9-Oct-2021	Award Period																							
EXS1300	Approve Building Permits and Grading Permit (By CCH)	143	11-Aug-2021	31-Dec-2021	Approve Building Permits and Grading Permit (By CCH)																							
EXS1020	Award to NTP	82	11-Oct-2021	31-Dec-2021	Award to NTP																							
EXS1290	Contractor Non-Structural Environmental Plan, Testing, Result Approval (01014-2.03A1)	90	1-Jan-2022	31-Mar-2022	Contractor Non-Structural Environmental Plan, Testing, Result Approval (01014-2.03A1)																							
EXS1030	Site Mobilization & Demolition	127	4-Jan-2022	10-May-2022	Site Mobilization & Demolition																							
EXS1060	Construction Period	865	1-Apr-2022	25-Sep-2025	Construction Period																							
EXS1040	ENV Testing & Permitting (4 months per Addendum 5)	120	11-May-2022	7-Sep-2022	ENV Testing & Permitting (4 months per Addendum 5)																							
EXS1070	Secondary Treatment- Augercast Pile Installation, Excavation & Pile Cutoffs	134	8-Sep-2022	22-Mar-2023	Secondary Treatment- Augercast Pile Installation, Excavation & Pile Cutoffs																							
EXS1050	Soil Mixing & Shoring @ 96" Effluent Piping & Influent Pump Station	290	8-Sep-2022	6-Nov-2023	Soil Mixing & Shoring @ 96" Effluent Piping & Influent Pump Station																							
EXS1090	Fine Screen & Process Reactor Bldg Structure Construction	323	3-Oct-2022	22-Jan-2024	Fine Screen & Process Reactor Bldg Structure Construction																							
EXS1100	IPS/ Blower Bldg Structure Construction	662	17-Oct-2022	18-Jun-2025	IPS/ Blower Bldg Structure Construction																							
EXS1080	Utility Tunnel- Augercast Pile Installation, Excavation & Pile Cutoffs	240	29-Dec-2022	15-Dec-2023	Utility Tunnel- Augercast Pile Installation, Excavation & Pile Cutoffs																							
EXS1120	Thickener Bldg Structure Construction	248	6-Jan-2023	5-Jan-2024	Thickener Bldg Structure Construction																							
EXS1130	Thickener Building- Augercast Pile Installation, Excavation & Pile Cutoffs	33	6-Jan-2023	23-Feb-2023	Thickener Building- Augercast Pile Installation, Excavation & Pile Cutoffs																							
EXS1140	MBR, Gallery & Service Bldg Structure Construction	465	23-Feb-2023	7-Jan-2025	MBR, Gallery & Service Bldg Structure Construction																							
EXS1110	Effluent Channel & Pipe Tunnel Structure Construction	436	10-Apr-2023	8-Jan-2025	Effluent Channel & Pipe Tunnel Structure Construction																							
EXS1150	Borrow Pit Opens for Use	1	15-May-2023*	15-May-2023	Borrow Pit Opens for Use																							
EXS1160	Thickener Bldg MEP Buildout	460	19-Jul-2023	23-May-2025	Thickener Bldg MEP Buildout																							
EXS1170	Fine Screen & Process Reactor Bldg MEP Buildout	405	25-Sep-2023	12-May-2025	Fine Screen & Process Reactor Bldg MEP Buildout																							
EXS1190	IPS/ Blower Bldg MEP Buildout	529	30-Nov-2023	16-Jan-2026	IPS/ Blower Bldg MEP Buildout																							
EXS1220	MBR, Gallery & Service Bldg MEP Buildout	408	31-May-2024	22-Jan-2026	MBR, Gallery & Service Bldg MEP Buildout																							
EXS1180	Effluent Channel & Pipe Tunnel MEP Buildout	297	8-Nov-2024	22-Jan-2026	Effluent Channel & Pipe Tunnel MEP Buildout																							
EXS1240	Electrical Start-Up	0	13-May-2025		Electrical Start-Up																							
EXS1260	Test & Commission	229	6-Feb-2026	22-Sep-2026	Test & Commission																							
EXS1270	Final Documentation & Close-Out Punchlist	69	23-Sep-2026	31-Dec-2026	Final Documentation & Close-Out Punch																							
EXS1280	Contractual Completion Date (60 Months After NTP)	0		31-Dec-2026*	Contractual Completion Date (60 Month																							
Preconstruction & Administration		549	10-Oct-2021	11-Apr-2023	11-Apr-2023, Preconstruction & Administration																							
Subcontracting/Purchasing		14	1-Jan-2022	14-Jan-2022	14-Jan-2022, Subcontracting/Purchasing																							
SCP1000	Subcontracting/Purchasing - (Rebar)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Rebar)																							
SCP1010	Subcontracting/Purchasing - (Electrical)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Electrical)																							
SCP1020	Subcontracting/Purchasing - (Panels/Doors)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Panels/Doors)																							
SCP1040	Subcontracting/Purchasing - (HVAC)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (HVAC)																							
SCP1050	Subcontracting/Purchasing - (Paint)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Paint)																							
SCP1060	Subcontracting/Purchasing - (Fire/Plumbing)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Fire/Plumbing)																							
SCP1070	Subcontracting/Purchasing - (Civil)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Civil)																							
SCP1080	Subcontracting/Purchasing - (Piling)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Piling)																							
SCP1090	Subcontracting/Purchasing - (Metals)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Metals)																							
SCP1100	Subcontracting/Purchasing - (Landscape)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Landscape)																							
SCP1110	Subcontracting/Purchasing - (Roofer)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Roofer)																							
SCP1120	Subcontracting/Purchasing - (Division 11 Process Equipment)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Division 11 Process Equipment)																							
SCP1130	Subcontracting/Purchasing - (Division 16 Electrical Equipment)	14	1-Jan-2022	14-Jan-2022	Subcontracting/Purchasing - (Division 16 Electrical Equipment)																							
Submittal Process		241	10-Oct-2021	7-Jun-2022	7-Jun-2022, Submittal Process																							

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work


Milestone

Milestone

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Activity ID	Activity Name	Original Duration	Start	Finish	2022		2023				2024				2025				2026				2027				2028				2029				
					Q	Q	Q	Q3	Q	Q	Q	Q	Q	Q	Q	Q2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q3	Q		
	Contractor/Subcontractor Develop		187	10-Oct-2021	14-Apr-2022	14-Apr-2022, Contractor/Subcontractor Develop																													
	SPCD1000	Submittal Development - Division 01 General Requirements	30	10-Oct-2021	8-Nov-2021	Submittal Development - Division 01 General Requirements																													
	SPCD1150	Submittal Development - Division 02 Site Construction	45	1-Jan-2022	14-Feb-2022	Submittal Development - Division 02 Site Construction																													
	SPCD1140	Submittal Development - Division 03 Concrete	100	1-Jan-2022	10-Apr-2022	Submittal Development - Division 03 Concrete																													
	SPCD1130	Submittal Development - Division 04 Masonry	14	1-Jan-2022	14-Jan-2022	Submittal Development - Division 04 Masonry																													
	SPCD1120	Submittal Development - Division 05 Metals	100	1-Jan-2022	10-Apr-2022	Submittal Development - Division 05 Metals																													
	SPCD1110	Submittal Development - Division 06 Wood, Plastics, and Composites	30	1-Jan-2022	30-Jan-2022	Submittal Development - Division 06 Wood, Plastics, and Composites																													
	SPCD1090	Submittal Development - Division 08 Openings	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 08 Openings																													
	SPCD1080	Submittal Development - Division 09 Finishes	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 09 Finishes																													
	SPCD1070	Submittal Development - Division 10 Specialties	40	1-Jan-2022	9-Feb-2022	Submittal Development - Division 10 Specialties																													
	SPCD1050	Submittal Development - Division 12 Furnishings	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 12 Furnishings																													
	SPCD1040	Submittal Development - Division 13 Special Construction	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 13 Special Construction																													
	SPCD1030	Submittal Development - Division 14 Conveying Systems	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 14 Conveying Systems																													
	SPCD1020	Submittal Development - Division 15 Mechanical	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 15 Mechanical																													
	SPCD1100	Submittal Development - Division 07 Thermal Moisture Protection	60	15-Jan-2022	15-Mar-2022	Submittal Development - Division 07 Thermal Moisture Protection																													
	SPCD1060	Submittal Development - Division 11 Equipment	90	15-Jan-2022	14-Apr-2022	Submittal Development - Division 11 Equipment																													
	SPCD1010	Submittal Development - Division 16 Electrical	90	15-Jan-2022	14-Apr-2022	Submittal Development - Division 16 Electrical																													
	Contractor Prepare/Submit		167	9-Nov-2021	24-Apr-2022	24-Apr-2022, Contractor Prepare/Submit																													
	SPCS1000	Submittal Prepare/ Submit - Division 01 General Requirements	10	9-Nov-2021	18-Nov-2021	Submittal Prepare/ Submit - Division 01 General Requirements																													
	SPCS1150	Submittal Prepare/ Submit - Division 02 Site Construction	10	11-Jan-2022	20-Jan-2022	Submittal Prepare/ Submit - Division 02 Site Construction																													
	SPCS1130	Submittal Prepare/ Submit - Division 04 Masonry	10	15-Jan-2022	24-Jan-2022	Submittal Prepare/ Submit - Division 04 Masonry																													
	SPCS1110	Submittal Prepare/ Submit - Division 06 Wood, Plastics, and Composites	10	31-Jan-2022	9-Feb-2022	Submittal Prepare/ Submit - Division 06 Wood, Plastics, and Composites																													
	SPCS1070	Submittal Prepare/ Submit - Division 10 Specialties	10	10-Feb-2022	19-Feb-2022	Submittal Prepare/ Submit - Division 10 Specialties																													
	SPCS1080	Submittal Prepare/ Submit - Division 09 Finishes	10	2-Mar-2022	11-Mar-2022	Submittal Prepare/ Submit - Division 09 Finishes																													
	SPCS1050	Submittal Prepare/ Submit - Division 12 Furnishings	10	2-Mar-2022	11-Mar-2022	Submittal Prepare/ Submit - Division 12 Furnishings																													
	SPCS1040	Submittal Prepare/ Submit - Division 13 Special Construction	10	2-Mar-2022	11-Mar-2022	Submittal Prepare/ Submit - Division 13 Special Construction																													
	SPCS1100	Submittal Prepare/ Submit - Division 07 Thermal Moisture Protection	10	16-Mar-2022	25-Mar-2022	Submittal Prepare/ Submit - Division 07 Thermal Moisture Protection																													
	SPCS1090	Submittal Prepare/ Submit - Division 08 Openings	10	1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 08 Openings																													
	SPCS1030	Submittal Prepare/ Submit - Division 14 Conveying Systems	10	1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 14 Conveying Systems																													
	SPCS1020	Submittal Prepare/ Submit - Division 15 Mechanical	10	1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 15 Mechanical																													
	SPCS1140	Submittal Prepare/ Submit - Division 03 Concrete	10	11-Apr-2022	20-Apr-2022	Submittal Prepare/ Submit - Division 03 Concrete																													
	SPCS1120	Submittal Prepare/ Submit - Division 05 Metals	10	11-Apr-2022	20-Apr-2022	Submittal Prepare/ Submit - Division 05 Metals																													
	SPCS1060	Submittal Prepare/ Submit - Division 11 Equipment	10	15-Apr-2022	24-Apr-2022	Submittal Prepare/ Submit - Division 11 Equipment																													
	SPCS1010	Submittal Prepare/ Submit - Division 16 Electrical	10	15-Apr-2022	24-Apr-2022	Submittal Prepare/ Submit - Division 16 Electrical																													
	OIC Review/Approval		187	19-Nov-2021	24-May-2022	24-May-2022, OIC Review/Approval																													
	SPOR1000	Submittal Review/Approval - Division 01 General Requirements	30	19-Nov-2021	18-Dec-2021	Submittal Review/Approval - Division 01 General Requirements																													
	SPOR1150	Submittal Review/Approval - Division 02 Site Construction	30	11-Jan-2022	9-Feb-2022	Submittal Review/Approval - Division 02 Site Construction																													
	SPOR1130	Submittal Review/Approval - Division 04 Masonry	30	25-Jan-2022	23-Feb-2022	Submittal Review/Approval - Division 04 Masonry																													
	SPOR1110	Submittal Review/Approval - Division 06 Wood, Plastics, and Composites	30	10-Feb-2022	11-Mar-2022	Submittal Review/Approval - Division 06 Wood, Plastics, and Composites																													
	SPOR1070	Submittal Review/Approval - Division 10 Specialties	30	20-Feb-2022	21-Mar-2022	Submittal Review/Approval - Division 10 Specialties																													
	SPOR1080	Submittal Review/Approval - Division 09 Finishes	30	12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 09 Finishes																													
	SPOR1050	Submittal Review/Approval - Division 12 Furnishings	30	12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 12 Furnishings																													
SPOR1040	Submittal Review/Approval - Division 13 Special Construction	30	12-Mar-2022	10-Apr-2022	Submittal Review/Approval - Division 13 Special Construction																														
SPOR1100	Submittal Review/Approval - Division 07 Thermal Moisture Protection	30	26-Mar-2022	24-Apr-2022	Submittal Review/Approval - Division 07 Thermal Moisture Protection																														
SPOR1090	Submittal Review/Approval - Division 08 Openings	30	11-Apr-2022	10-May-2022	Submittal Review/Approval - Division 08 Openings																														
SPOR1030	Submittal Review/Approval - Division 14 Conveying Systems	30	11-Apr-2022	10-May-2022	Submittal Review/Approval - Division 14 Conveying Systems																														

Activity ID			Activity Name	Original Duration	Start	Finish	2022		2023		2024		2025		2026		2027		2028		2029				
							Q	Q	Q	Q3	Q	Q	Q	Q	Q	Q2	Q	Q	Q	Q	Q	Q	Q	Q	Q
Activity ID	Activity ID	Activity ID	SPOR1020	Submittal Review/Approval - Division 15 Mechanical	30	11-Apr-2022	10-May-2022																		
			SPOR1140	Submittal Review/Approval - Division 03 Concrete	30	21-Apr-2022	20-May-2022																		
			SPOR1120	Submittal Review/Approval - Division 05 Metals	30	21-Apr-2022	20-May-2022																		
			SPOR1060	Submittal Review/Approval - Division 11 Equipment	30	25-Apr-2022	24-May-2022																		
			SPOR1010	Submittal Review/Approval - Division 16 Electrical	30	25-Apr-2022	24-May-2022																		
			OIC Re-Review/Approval			171	19-Dec-2021	7-Jun-2022	7-Jun-2022, OIC Re-Review/Approval																
			SPORRS1000	Submittal Re-Review/Approval - Division 01 General Requirements	14	19-Dec-2021	1-Jan-2022																		
			SPORRS1150	Submittal Re-Review/Approval - Division 02 Site Construction	14	10-Feb-2022	23-Feb-2022																		
			SPORRS1130	Submittal Re-Review/Approval - Division 04 Masonry	14	24-Feb-2022	9-Mar-2022																		
			SPORRS1110	Submittal Re-Review/Approval - Division 06 Wood, Plastics, and Composites	14	12-Mar-2022	25-Mar-2022																		
			SPORRS1070	Submittal Re-Review/Approval - Division 10 Specialties	14	22-Mar-2022	4-Apr-2022																		
			SPORRS1080	Submittal Re-Review/Approval - Division 09 Finishes	14	11-Apr-2022	24-Apr-2022																		
			SPORRS1050	Submittal Re-Review/Approval - Division 12 Furnishings	14	11-Apr-2022	24-Apr-2022																		
			SPORRS1040	Submittal Re-Review/Approval - Division 13 Special Construction	14	11-Apr-2022	24-Apr-2022																		
			SPORRS1100	Submittal Re-Review/Approval - Division 07 Thermal Moisture Protection	14	25-Apr-2022	8-May-2022																		
			SPORRS1090	Submittal Re-Review/Approval - Division 08 Openings	14	11-May-2022	24-May-2022																		
			SPORRS1030	Submittal Re-Review/Approval - Division 14 Conveying Systems	14	11-May-2022	24-May-2022																		
			SPORRS1020	Submittal Re-Review/Approval - Division 15 Mechanical	14	11-May-2022	24-May-2022																		
			SPORRS1140	Submittal Re-Review/Approval - Division 03 Concrete	14	21-May-2022	3-Jun-2022																		
			SPORRS1120	Submittal Re-Review/Approval - Division 05 Metals	14	21-May-2022	3-Jun-2022																		
			SPORRS1060	Submittal Re-Review/Approval - Division 11 Equipment	14	25-May-2022	7-Jun-2022																		
			SPORRS1010	Submittal Re-Review/Approval - Division 16 Electrical	14	25-May-2022	7-Jun-2022																		
			Material Procurement			416	20-Feb-2022	11-Apr-2023	11-Apr-2023, Material Procurement																
			Material Fabrication			388	20-Feb-2022	14-Mar-2023	14-Mar-2023, Material Fabrication																
			MPMF1150	Material Fabrication - Division 02 Site Construction	45	20-Feb-2022	5-Apr-2022																		
			MPMF1130	Material Fabrication - Division 04 Masonry	60	10-Mar-2022	8-May-2022																		
			MPMF1110	Material Fabrication - Division 06 Wood, Plastics, and Composites	60	26-Mar-2022	24-May-2022																		
			MPMF1070	Material Fabrication - Division 10 Specialties	90	5-Apr-2022	3-Jul-2022																		
			MPMF1080	Material Fabrication - Division 09 Finishes	60	25-Apr-2022	23-Jun-2022																		
			MPMF1050	Material Fabrication - Division 12 Furnishings	120	25-Apr-2022	22-Aug-2022																		
			MPMF1040	Material Fabrication - Division 13 Special Construction	200	25-Apr-2022	10-Nov-2022																		
			MPMF1100	Material Fabrication - Division 07 Thermal Moisture Protection	120	9-May-2022	5-Sep-2022																		
			MPMF1090	Material Fabrication - Division 08 Openings	90	25-May-2022	22-Aug-2022																		
			MPMF1030	Material Fabrication - Division 14 Conveying Systems	200	25-May-2022	10-Dec-2022																		
			MPMF1020	Material Fabrication - Division 15 Mechanical	90	25-May-2022	22-Aug-2022																		
MPMF1140	Material Fabrication - Division 03 Concrete	38	4-Jun-2022	11-Jul-2022																					
MPMF1120	Material Fabrication - Division 05 Metals	90	4-Jun-2022	1-Sep-2022																					
MPMF1060	Material Fabrication - Division 11 Equipment	252	8-Jun-2022	14-Feb-2023																					
MPMF1010	Material Fabrication - Division 16 Electrical	280	8-Jun-2022	14-Mar-2023																					
Material Delivery			371	6-Apr-2022	11-Apr-2023	11-Apr-2023, Material Delivery																			
MPMD1150	Material Delivery - Division 02 Site Construction	28	6-Apr-2022	3-May-2022																					
MPMD1130	Material Delivery - Division 04 Masonry	28	9-May-2022	5-Jun-2022																					
MPMD1110	Material Delivery - Division 06 Wood, Plastics, and Composites	28	25-May-2022	21-Jun-2022																					
MPMD1080	Material Delivery - Division 09 Finishes	28	24-Jun-2022	21-Jul-2022																					
MPMD1070	Material Delivery - Division 10 Specialties	28	4-Jul-2022	31-Jul-2022																					
MPMD1140	Material Delivery - Division 03 Concrete	28	12-Jul-2022	8-Aug-2022																					

<div><div></div><div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div></div>			Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE					Data Date: 11-Aug-2021																													
Activity ID	Activity Name	Original Duration	Start	Finish		2022				2023				2024				2025				2026				2027				2028				2029			
					Q	Q	Q	Q3	Q	Q	Q	Q	Q	Q2	Q	Q	Q	Q	Q	Q4	Q	Q	Q	Q	Q	Q	Q4	Q	Q	Q	Q	Q	Q3	Q			
	MPMD1090																																				
	MPMD1050																																				
	MPMD1020																																				
	MPMD1120																																				
	MPMD1100																																				
	MPMD1040																																				
	MPMD1030																																				
	MPMD1060																																				
	MPMD1010																																				
	Construction	1041	4-Jan-2022	22-Jan-2026	22-Jan-2026, Construction																																
	Early Site Work	885	4-Jan-2022	18-Jun-2025	18-Jun-2025, Early Site Work																																
	Site Mobilization & By-Passes	99	4-Jan-2022	26-May-2022	26-May-2022, Site Mobilization & By-Passes																																
	SMBP1000	30	4-Jan-2022	15-Feb-2022																																	
	SMBP1010	15	2-Mar-2022	22-Mar-2022																																	
	SMBP1020	10	23-Mar-2022	6-Apr-2022																																	
	SMBP1030	10	23-Mar-2022	6-Apr-2022																																	
	SMBP1040	10	23-Mar-2022	6-Apr-2022																																	
	SMBP1050	5	7-Apr-2022	13-Apr-2022																																	
	SMBP1060	15	7-Apr-2022	28-Apr-2022																																	
	SMBP1070	10	7-Apr-2022	21-Apr-2022																																	
	SMBP1080	10	22-Apr-2022	5-May-2022																																	
	SMBP1090	10	29-Apr-2022	12-May-2022																																	
	SMBP1110	15	6-May-2022	26-May-2022																																	
	SMBP1100	0		26-May-2022																																	
	Site Demolition By Areas	172	4-Jan-2022	7-Sep-2022	7-Sep-2022, Site Demolition By Areas																																
	Demolish Areas Site Plans 1 thru 4, 7 & 8 (Secondary Treatment Areas)	172	4-Jan-2022	7-Sep-2022	7-Sep-2022, Demolish Areas Site Plans 1 thru 4, 7 & 8 (Secondary Treatment Areas)																																
	SD2T1020	15	4-Jan-2022	25-Jan-2022																																	
	SD2T1010	1	4-Jan-2022	4-Jan-2022																																	
	SD2T1000	2	9-Mar-2022	10-Mar-2022																																	
	SD2T1030	1	11-Mar-2022	11-Mar-2022																																	
	SD2T1040	40	14-Mar-2022	10-May-2022																																	
	SD2T1070	3	23-Mar-2022	28-Mar-2022																																	
	SD2T1080	20	29-Mar-2022	26-Apr-2022																																	
	SD2T1090	10	27-Apr-2022	10-May-2022																																	
	SD2T1060	120	11-May-2022	7-Sep-2022																																	
	Demolish Areas Site Plans 5, 6, 9 & 10 (Thickner Bldg Areas)	78	29-Mar-2022	20-Jul-2022	20-Jul-2022, Demolish Areas Site Plans 5, 6, 9 & 10 (Thickner Bldg Areas)																																
	SDTB1000	3	29-Mar-2022	31-Mar-2022																																	
	SDTB1010	3	1-Apr-2022	5-Apr-2022																																	
	SDTB1020	7	6-Apr-2022	14-Apr-2022																																	
	SDTB1030	4	18-Apr-2022	21-Apr-2022																																	
	SDTB1040	2	22-Apr-2022	25-Apr-2022																																	
	SDTB1050	15	29-Jun-2022	20-Jul-2022																																	
	Demolish Areas Site Plan 7, 8, 11 & 12 (Utility Tunnel Areas)	60	1-Apr-2022	28-Jun-2022	28-Jun-2022, Demolish Areas Site Plan 7, 8, 11 & 12 (Utility Tunnel Areas)																																
	SDUT1000	5	1-Apr-2022	7-Apr-2022																																	
	SDUT1010	10	8-Apr-2022	22-Apr-2022																																	
	SDUT1020	5	25-Apr-2022	29-Apr-2022																																	

	SDUT1030	Demo Headwalls, Culverts & Barriers	5	2-May-2022	6-May-2022
	SDUT1040	Cut, Plug & Remove 36" Dia. Abandoned Outfall Pipe(2 Locations Plan #7)	20	9-May-2022	6-Jun-2022
	SDUT1050	Cut, Plug & Remove 60" Dia. Abandoned FM (Plan #7)	15	7-Jun-2022	28-Jun-2022
	Site Grading, Jet Grouting, Pad Prep, Shoring & Excavation By Areas		488	16-Feb-2022	5-Feb-2024
	Secondary Treatment Structure		186	11-May-2022	8-Feb-2023
	JGSH1020	Mobilize Grouting & Shoring Equipment & Materials	10	11-May-2022	24-May-2022
	JGSH1030	Install Jet Grout Plug Below PE Pump Station Structure	40	8-Sep-2022	2-Nov-2022
	JGSH1070	Install Shoring @ PE Pump Station	35	3-Nov-2022	23-Dec-2022
	JGSH1090	Sheet Pile Piles for 42" PE DI Shoring North Side	1	3-Nov-2022	3-Nov-2022
	JGSH1080	Excavate & Dewater PE Pump Station Pit	30	27-Dec-2022	8-Feb-2023
	JGSH1100	Sheet Pile Piles for 42" PE DI Shoring South Side	1	6-Jan-2023	6-Jan-2023
	96" Primary Effluent Area		70	24-Oct-2023	5-Feb-2024
	JGSH1040	Install Shoring From PE Junction Structure to PE Pump Station	10	24-Oct-2023	6-Nov-2023
	JGSH1060	Install Jet Grout Plug Below Future 96" PE	5	7-Nov-2023	14-Nov-2023
	JGSH1120	Excavate & Dewater 96" Pipe Trench	5	15-Nov-2023	21-Nov-2023
	JGSH1130	Install 96" PE-A & PE-B Lines & Connect to Both Structures	30	22-Nov-2023	5-Jan-2024
	JGSH1140	Test & Backfill 96" PE Lines	20	8-Jan-2024	5-Feb-2024
	Thickener Building Structure		5	26-Jan-2023	1-Feb-2023
	JGSH1110	Soil Mix For Low Trench Structure	5	26-Jan-2023	1-Feb-2023
	Existing Ductbanks & Influent Lines		45	16-Feb-2022	22-Apr-2022
	JGSH1010	Predrill & Install Sheetpile @ Existing Ala Moana FM#2	25	16-Feb-2022	23-Mar-2022
	JGSH1050	Predrill & Install Sheetpile @ Existing Ala Moana FM#3&4	20	24-Mar-2022	22-Apr-2022
	Site Utilities By Area & By Type		779	1-Apr-2022	21-May-2025
	Site Storm Drainage		256	1-Apr-2022	13-Apr-2023
	SUST1000	Install Shoring & Dewatering System @ SWJB	25	1-Apr-2022	6-May-2022
	SUST1010	Install Jet Grouted Columns & Plug @ SWJB	10	9-May-2022	20-May-2022
	SUST1030	Install Jet Grout Pier Support for B&C Box Culverts	35	23-May-2022	13-Jul-2022
	SUST1040	Install 5'x2' Box Culverts B&C w/ MH's	40	14-Jul-2022	9-Sep-2022
	SUST1060	Install Jet Grout Pier Support for Box Culvert A	45	14-Jul-2022	16-Sep-2022
	SUST1020	Exc., FRP Stormwater Junction Box (SWJB)(Yard Piping Plan #2)	35	9-Aug-2022	28-Sep-2022
	SUST1070	Install Drain Line D 18" Dia. & FRP Inlet Structure & Set MH's	15	12-Sep-2022	30-Sep-2022
	SUST1080	Install 5'x2' Box Culvert A w/ MH's	50	19-Sep-2022	29-Nov-2022
	SUST1090	Install 8" & 10" DL to DL-B2 & DMH-A1 MH's - West of MBR	10	3-Oct-2022	14-Oct-2022
	SUST1100	Install Drain Line E & F 15" Dia. & MH's - South & East of MBR	25	17-Oct-2022	21-Nov-2022
	SUST1050	Install Alum. Stairs, Gratings, Gates & Check Valves @ SWJB	20	15-Mar-2023	13-Apr-2023
	Site Sewer System		161	25-Nov-2022	20-Jul-2023
	SUSS1000	Install 42" PE D.I. North Blower, Process Reactor & Fine Screen	25	25-Nov-2022	30-Dec-2022
	SUSS1010	Install 42" PE D.I. South Blower, MBR Service Bldg	22	9-Jan-2023	8-Feb-2023
	SUSS1020	Install & Test 42" PE D.I. N. Riser & Tie-in @ 6 Line Foundation Wall	10	16-May-2023	30-May-2023
	SUSS1030	Install & Test 42" PE D.I. S. Riser & Tie-in @ 9 Line Thru Stair Fndn Walls	10	7-Jul-2023	20-Jul-2023
	Site Process Piping		169	6-Jun-2023	8-Feb-2024
	SUPP1000	Install & Test 14" Primary Sludge D.I.	31	6-Jun-2023	20-Jul-2023
	SUPP1010	Install & Test 14" Filtrate D.I. Line	46	21-Jul-2023	26-Sep-2023
	SUPP1020	Install & Test 6" Thickened Primary Sludge Line D.I.	32	27-Sep-2023	9-Nov-2023
	SUPP1030	Install & Test 6" Thickened Blended "A" Sludge Line D.I.	30	13-Nov-2023	26-Dec-2023
	SUPP1040	Install & Test 6" Thickened Blended "B" Sludge Line D.I.	30	27-Dec-2023	8-Feb-2024
	Site Water Lines		547	9-Mar-2023	21-May-2025

- I Demo Headwalls, Culverts & Barriers
 - Cut, Plug & Remove 36" Dia. Abandoned Outfall Pipe(2 Locations Plan #7)
 - Cut, Plug & Remove 60" Dia. Abandoned FM (Plan #7)
- ▼ 5-Feb-2024, Site Grading, Jet Grouting, Pad Prep, Shoring & Excavation By Area
 - ▼ 8-Feb-2023, Secondary Treatment Structure
 - Mobilize Grouting & Shoring Equipment & Materials
 - Install Jet Grout Plug Below PE Pump Station Structure
 - Install Shoring @ PE Pump Station
 - I Sheet Pile Piles for 42" PE DI Shoring North Side
 - Excavate & Dewater PE Pump Station Pit
 - I Sheet Pile Piles for 42" PE DI Shoring South Side
 - ▼ 5-Feb-2024, 96" Primary Effluent Area
 - I Install Shoring From PE Junction Structure to PE Pump Station
 - I Install Jet Grout Plug Below Future 96" PE
 - I Excavate & Dewater 96" Pipe Trench
 - Install 96" PE-A & PE-B Lines & Connect to Both Structures
 - Test & Backfill 96" PE Lines
 - ▼ 1-Feb-2023, Thickener Building Structure
 - I Soil Mix For Low Trench Structure
- ▼ 22-Apr-2022, Existing Ductbanks & Influent Lines
 - Predrill & Install Sheetpile @ Existing Ala Moana FM#2
 - Predrill & Install Sheetpile @ Existing Ala Moana FM#3&4
- ▼ 21-May-2025, Site Utilities By Area & By Type
 - ▼ 13-Apr-2023, Site Storm Drainage
 - Install Shoring & Dewatering System @ SWJB
 - I Install Jet Grouted Columns & Plug @ SWJB
 - Install Jet Grout Pier Support for B&C Box Culverts
 - Install 5'x2' Box Culverts B&C w/ MH's
 - Install Jet Grout Pier Support for Box Culvert A
 - Exc., FRP Stormwater Junction Box (SWJB)(Yard Piping Plan #2)
 - I Install Drain Line D 18" Dia. & FRP Inlet Structure & Set MH's
 - Install 5'x2' Box Culvert A w/ MH's
 - I Install 8" & 10" DL to DL-B2 & DMH-A1 MH's - West of MBR
 - Install Drain Line E & F 15" Dia. & MH's - South & East of MBR
 - Install Alum. Stairs, Gratings, Gates & Check Valves @ SWJB
 - ▼ 20-Jul-2023, Site Sewer System
 - Install 42" PE D.I. North Blower, Process Reactor & Fine Screen
 - Install 42" PE D.I. South Blower, MBR Service Bldg
 - I Install & Test 42" PE D.I. N. Riser & Tie-in @ 6 Line Foundation Wall
 - I Install & Test 42" PE D.I. S. Riser & Tie-in @ 9 Line Thru Stair Fndn Walls
 - ▼ 8-Feb-2024, Site Process Piping
 - Install & Test 14" Primary Sludge D.I.
 - Install & Test 14" Filtrate D.I. Line
 - Install & Test 6" Thickened Primary Sludge Line D.I.
 - Install & Test 6" Thickened Blended "A" Sludge Line D.I.
 - Install & Test 6" Thickened Blended "B" Sludge Line D.I.
- ▼ 21-May-2025, Site Water Lines

 Remaining Level of Effort
  Actual Work
  Critical Remaining Work
 Actual Level of Effort
 Remaining Work
 Milestone

[illegible]

| Activity ID | Activity Name | Original Duration | Start | Finish | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | 2027 | | 2028 | | 2029 | | | | | | |
|--|-----------------------------------|--|-------|-------------|-------------|---|------|----|------|---|------|---|------|----|------|---|------|---|------|---|---|---|---|---|----|
| | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 |
| | MBRSTR1510 | FRP Parapet Stairwell Walls @ MBR Serv. from +43' to +53' | 30 | 13-Aug-2024 | 25-Sep-2024 | | | | | | | | | | | | | | | | | | | | |
| | MBR Serv. & Gall. Structure @+54' | | 12 | 26-Sep-2024 | 11-Oct-2024 | | | | | | | | | | | | | | | | | | | | |
| | MBRSTR1520 | Shore, FRP Stairwell Roof Slab & Eyebrow @ MBR Serv. Bldg @ +54' | 7 | 26-Sep-2024 | 4-Oct-2024 | | | | | | | | | | | | | | | | | | | | |
| | MBRSTR1530 | FRP MBR Serv Bldg Stairwell Roof Parapet Walls Above +54' | 5 | 7-Oct-2024 | 11-Oct-2024 | | | | | | | | | | | | | | | | | | | | |
| Utility Tunnel With Effluent Channel +2.5 MSL Pad | | | 503 | 16-May-2022 | 23-May-2024 | 23-May-2024, Utility Tunnel With Effluent Channel +2.5 MSL Pad | | | | | | | | | | | | | | | | | | | |
| | UTEC1000 | Prepare Pad for Auger Cast Pile installation | 5 | 16-May-2022 | 20-May-2022 | Prepare Pad for Auger Cast Pile installation | | | | | | | | | | | | | | | | | | | |
| | UTEC1010 | Install Auger Cast Pile for the +2.5 MSL Slab | 15 | 18-Jan-2023 | 7-Feb-2023 | Install Auger Cast Pile for the +2.5 MSL Slab | | | | | | | | | | | | | | | | | | | |
| | UTEC1020 | Excavate & Cut off Pile | 12 | 30-Nov-2023 | 15-Dec-2023 | Excavate & Cut off Pile | | | | | | | | | | | | | | | | | | | |
| | UTEC1030 | Install & Grade Gravel Sub-base | 9 | 18-Dec-2023 | 29-Dec-2023 | Install & Grade Gravel Sub-base | | | | | | | | | | | | | | | | | | | |
| | UTEC1040 | FRP & Cure Utility Tunnel Base at +2.5 MSL | 45 | 8-Jan-2024 | 12-Mar-2024 | FRP & Cure Utility Tunnel Base at +2.5 MSL | | | | | | | | | | | | | | | | | | | |
| | UTEC1050 | FRP & Cure Lower Utility Pipe Walls & Columns | 45 | 23-Jan-2024 | 27-Mar-2024 | FRP & Cure Lower Utility Pipe Walls & Columns | | | | | | | | | | | | | | | | | | | |
| | UTEC1060 | FRP Effluent Channel Str. Floor | 45 | 6-Feb-2024 | 11-Apr-2024 | FRP Effluent Channel Str. Floor | | | | | | | | | | | | | | | | | | | |
| | UTEC1070 | FRP & Cure Effluent Channel Walls | 45 | 21-Feb-2024 | 25-Apr-2024 | FRP & Cure Effluent Channel Walls | | | | | | | | | | | | | | | | | | | |
| | UTEC1080 | Shore FRP & Cure Effluent Channel & Utility Pipe Roof Structure | 45 | 6-Mar-2024 | 9-May-2024 | Shore FRP & Cure Effluent Channel & Utility Pipe Roof Structure | | | | | | | | | | | | | | | | | | | |
| | UTEC1090 | FRP Parapet Walls | 45 | 20-Mar-2024 | 23-May-2024 | FRP Parapet Walls | | | | | | | | | | | | | | | | | | | |
| Utility Tunnel Without Effluent Channel +2.5 MSL Pad | | | 623 | 23-May-2022 | 22-Nov-2024 | 22-Nov-2024, Utility Tunnel Without Effluent Channel +2.5 MSL Pad | | | | | | | | | | | | | | | | | | | |
| | UTUN1000 | Prepare Pad for Auger Cast Pile installation | 15 | 23-May-2022 | 14-Jun-2022 | Prepare Pad for Auger Cast Pile installation | | | | | | | | | | | | | | | | | | | |
| | UTUN1020 | Install Auger Cast Pile for the +2.5 MSL Slab | 43 | 8-Feb-2023 | 12-Apr-2023 | Install Auger Cast Pile for the +2.5 MSL Slab | | | | | | | | | | | | | | | | | | | |
| | UTUN1030 | Excavate & Cut off Pile | 35 | 2-Mar-2023 | 21-Apr-2023 | Excavate & Cut off Pile | | | | | | | | | | | | | | | | | | | |
| | UTUN1040 | Install & Grade Gravel Sub-base | 25 | 10-Apr-2023 | 12-May-2023 | Install & Grade Gravel Sub-base | | | | | | | | | | | | | | | | | | | |
| | UTUN1050 | FRP & Cure Utility Tunnel Base at +2.5 MSL | 125 | 13-Mar-2024 | 12-Sep-2024 | FRP & Cure Utility Tunnel Base at +2.5 MSL | | | | | | | | | | | | | | | | | | | |
| | UTUN1060 | FRP & Cure Utility Pipe Walls | 125 | 26-Apr-2024 | 24-Oct-2024 | FRP & Cure Utility Pipe Walls | | | | | | | | | | | | | | | | | | | |
| | UTUN1070 | Shore FRP & Cure Utility Pipe Roof Structure | 125 | 10-May-2024 | 7-Nov-2024 | Shore FRP & Cure Utility Pipe Roof Structure | | | | | | | | | | | | | | | | | | | |
| | UTUN1010 | FRP & Cure Parapet Walls | 125 | 24-May-2024 | 22-Nov-2024 | FRP & Cure Parapet Walls | | | | | | | | | | | | | | | | | | | |
| Effluent Channel Tunnel Sub-Structure +10 MSL Pad | | | 661 | 11-May-2022 | 8-Jan-2025 | 8-Jan-2025, Effluent Channel Tunnel Sub-Structure +10 MSL Pad | | | | | | | | | | | | | | | | | | | |
| | EFTN1000 | Prepare Pad for Auger Cast Pile installation | 3 | 11-May-2022 | 13-May-2022 | Prepare Pad for Auger Cast Pile installation | | | | | | | | | | | | | | | | | | | |
| | EFTN1010 | Install Auger Cast Pile for the +10 MSL Slab | 12 | 29-Dec-2022 | 17-Jan-2023 | Install Auger Cast Pile for the +10 MSL Slab | | | | | | | | | | | | | | | | | | | |
| | EFTN1020 | Excavate & Cut off Pile | 12 | 24-Apr-2023 | 9-May-2023 | Excavate & Cut off Pile | | | | | | | | | | | | | | | | | | | |
| | EFTN1030 | Install & Grade Gravel Sub-base | 12 | 10-May-2023 | 25-May-2023 | Install & Grade Gravel Sub-base | | | | | | | | | | | | | | | | | | | |
| | EFTN1040 | FRP & Cure Effluent Channel Base at +10 MSL | 30 | 13-Sep-2024 | 24-Oct-2024 | FRP & Cure Effluent Channel Base at +10 MSL | | | | | | | | | | | | | | | | | | | |
| | EFTN1050 | FRP & Cure Effluent Channel Walls | 30 | 25-Oct-2024 | 9-Dec-2024 | FRP & Cure Effluent Channel Walls | | | | | | | | | | | | | | | | | | | |
| | EFTN1060 | Shore FRP & Cure Effluent Channel Roof Structure | 30 | 8-Nov-2024 | 23-Dec-2024 | Shore FRP & Cure Effluent Channel Roof Structure | | | | | | | | | | | | | | | | | | | |
| | EFTN1070 | FRP Parapet Walls | 30 | 25-Nov-2024 | 8-Jan-2025 | FRP Parapet Walls | | | | | | | | | | | | | | | | | | | |
| Thickener Building | | | 248 | 6-Jan-2023 | 5-Jan-2024 | 5-Jan-2024, Thickener Building | | | | | | | | | | | | | | | | | | | |
| Thickener- Elevation +2.5' MSL Basement | | | 131 | 6-Jan-2023 | 18-Jul-2023 | 18-Jul-2023, Thickener- Elevation +2.5' MSL Basement | | | | | | | | | | | | | | | | | | | |
| Thickener/North - Elevation +2.5' MSL - Basement | | | 86 | 6-Jan-2023 | 11-May-2023 | 11-May-2023, Thickener/North - Elevation +2.5' MSL - Basement | | | | | | | | | | | | | | | | | | | |
| | THRSTR1000 | Install Auger Cast N. Slab Area | 13 | 6-Jan-2023 | 25-Jan-2023 | Install Auger Cast N. Slab Area | | | | | | | | | | | | | | | | | | | |
| | THRSTR1010 | Excavate & Pile Cutoff N. Slab Area | 3 | 26-Jan-2023 | 30-Jan-2023 | Excavate & Pile Cutoff N. Slab Area | | | | | | | | | | | | | | | | | | | |
| | THRSTR1030 | Prep, Concrete/Gravel Base for N. Slab Work | 8 | 31-Jan-2023 | 9-Feb-2023 | Prep, Concrete/Gravel Base for N. Slab Work | | | | | | | | | | | | | | | | | | | |
| | THRSTR1060 | FRP -0.5 North Base Slab & Cure | 10 | 10-Feb-2023 | 24-Feb-2023 | FRP -0.5 North Base Slab & Cure | | | | | | | | | | | | | | | | | | | |
| | THRSTR1090 | FRP +2.5 North Main Slab & Cure | 20 | 27-Feb-2023 | 24-Mar-2023 | FRP +2.5 North Main Slab & Cure | | | | | | | | | | | | | | | | | | | |
| | THRSTR1130 | FRP Col. & Walls +2.5 Level | 12 | 28-Mar-2023 | 13-Apr-2023 | FRP Col. & Walls +2.5 Level | | | | | | | | | | | | | | | | | | | |
| | THRSTR1140 | Cure Walls +2.5' to +16' | 20 | 14-Apr-2023 | 11-May-2023 | Cure Walls +2.5' to +16' | | | | | | | | | | | | | | | | | | | |
| Thickener/South - Elevation +2.5' MSL - Basement | | | 111 | 26-Jan-2023 | 7-Jul-2023 | 7-Jul-2023, Thickener/South - Elevation +2.5' MSL - Basement | | | | | | | | | | | | | | | | | | | |
| | THRSTR1020 | Install Auger Cast Piles South | 15 | 26-Jan-2023 | 15-Feb-2023 | Install Auger Cast Piles South | | | | | | | | | | | | | | | | | | | |
| | THRSTR1040 | Excavate & Pile Cutoff S. Slab | 4 | 16-Feb-2023 | 22-Feb-2023 | Excavate & Pile Cutoff S. Slab | | | | | | | | | | | | | | | | | | | |

| <div><div><div></div></div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div> | | Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE | | | | | | | | | | Data Date: 11-Aug-2021 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---|-------|--------|------|---|---|----|------|---|---|------------------------|------|---|---|----|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|--|--|
| Activity ID | Activity Name | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 | Q | | |
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| <div><div><div></div></div><div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div></div> | | Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE | | | | | Data Date: 11-Aug-2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------------|---|-------|-------------|-------------|---|--|----|------|---|---|---|------|---|---|----|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|--|--|
| Activity ID | Activity Name | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 | Q | | |
| | RT#61010 | RW#6, 7, 8, 9 - Excavate & Pile Cutoff | 20 | 8-Mar-2024 | 8-Apr-2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RT#61020 | FRP RW#6, 7, 8, 9 - Cont. Foundation | 25 | 3-Sep-2024 | 7-Oct-2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RT#61030 | FRP RT#6, 7, 8, 9 - Wall | 50 | 8-Oct-2024 | 18-Dec-2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Site Backfill & Structure Backfill | | | 478 | 30-Jun-2023 | 3-Jun-2025 | 3-Jun-2025, Site Backfill & Structure Backfill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPS/Blower - Elevation -10.5' MSL Pad | | | 100 | 3-Oct-2023 | 27-Feb-2024 | 27-Feb-2024, IPS/Blower - Elevation -10.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1060 | | | 15 | 3-Oct-2023 | 23-Oct-2023 | Backfill North Core Wall After Wet Well Tank test to -1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1070 | | | 15 | 3-Oct-2023 | 23-Oct-2023 | Backfill South Core Wall After Wet Well Tank test to -1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1090 | | | 15 | 6-Feb-2024 | 27-Feb-2024 | Backfill Exterior Walls West Side After Wet Well Tank Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1100 | | | 1 | 6-Feb-2024 | 6-Feb-2024 | Backfill 96" PE To Grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IPS/Blower- Elevation +2.5' MSL Pad | | | 15 | 26-Jul-2024 | 15-Aug-2024 | 15-Aug-2024, IPS/ Blower- Elevation +2.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1180 | | | 15 | 26-Jul-2024 | 15-Aug-2024 | Backfill IPS/Blower Building & Remove Temporary Shoring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fine Screen Structure +2.5' MSL Pad | | | 3 | 30-Jan-2025 | 3-Feb-2025 | 3-Feb-2025, Fine Screen Structure +2.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1040 | | | 3 | 30-Jan-2025 | 3-Feb-2025 | Backfill Fine Screen Structure to Existing Grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Process Reactor +2.5' MSL Pad | | | 3 | 23-Jan-2024 | 25-Jan-2024 | 25-Jan-2024, Process Reactor +2.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1160 | | | 3 | 23-Jan-2024 | 25-Jan-2024 | Backfill Outside of the Process Reactor to Existing Grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MBR Tanks +2.5' MSL Pad | | | 145 | 3-Aug-2023 | 4-Mar-2024 | 4-Mar-2024, MBR Tanks +2.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1110 | | | 145 | 3-Aug-2023 | 4-Mar-2024 | Backfill MBR Tanks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MBR Service Building & Gallery +2.5' MSL Pad | | | 3 | 20-Feb-2024 | 22-Feb-2024 | 22-Feb-2024, MBR Service Building & Gallery +2.5' MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1150 | | | 3 | 20-Feb-2024 | 22-Feb-2024 | Backfill Outside of the MBR Service Building to Existing Grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utility Tunnel Sub-Structure +2.5 MSL Pad | | | 175 | 24-May-2024 | 6-Feb-2025 | 6-Feb-2025, Utility Tunnel Sub-Structure +2.5 MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1050 | | | 20 | 24-May-2024 | 24-Jun-2024 | Backfill Utility Tunnel & Effluent Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1130 | | | 50 | 25-Nov-2024 | 6-Feb-2025 | Backfill Utility Tunnel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Effluent Tunnel Sub-Structure +10 MSL Pad | | | 5 | 24-Dec-2024 | 31-Dec-2024 | 31-Dec-2024, Effluent Tunnel Sub-Structure +10 MSL Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1140 | | | 5 | 24-Dec-2024 | 31-Dec-2024 | Backfill Effluent Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area 46 Thickener Building | | | 404 | 30-Jun-2023 | 13-Feb-2025 | 13-Feb-2025, Area 46 Thickener Building | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1080 | | | 3 | 30-Jun-2023 | 5-Jul-2023 | Backfill Thickener West Elevation for Access | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1120 | | | 5 | 7-Feb-2025 | 13-Feb-2025 | Backfill Thickener North, East, South Elevations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area 46A Thickener Bldg Odor Control | | | 10 | 6-Jul-2023 | 19-Jul-2023 | 19-Jul-2023, Area 46A Thickener Bldg Odor Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1000 | | | 10 | 6-Jul-2023 | 19-Jul-2023 | Backfill Thickener Building Odor Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Wall #1 (Near Thickener Building) +5.25 MSL | | | 20 | 10-May-2024 | 7-Jun-2024 | 7-Jun-2024, Retaining Wall #1 (Near Thickener Building) +5.25 MSL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1170 | | | 20 | 10-May-2024 | 7-Jun-2024 | Cure & Backfill @ Thickner Building West Side & RT#1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Wall #2 (Near Thickener Building) +5.25 MSL | | | 15 | 17-Jan-2025 | 7-Feb-2025 | 7-Feb-2025, Retaining Wall #2 (Near Thickener Building) +5.25 MSL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1190 | | | 15 | 17-Jan-2025 | 7-Feb-2025 | Backfill Retaining Wall #2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Wall #3 (Near Diesel Storage) | | | 10 | 30-Jan-2025 | 12-Feb-2025 | 12-Feb-2025, Retaining Wall #3 (Near Diesel Storage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1200 | | | 10 | 30-Jan-2025 | 12-Feb-2025 | Backfill Retaining Wall #3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Wall #4 (Near IPS Odor Control Pad) | | | 10 | 26-Apr-2024 | 9-May-2024 | 9-May-2024, Retaining Wall #4 (Near IPS Odor Control Pad) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1030 | | | 10 | 26-Apr-2024 | 9-May-2024 | Backfill Retaining Wall #4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Wall #5 (South of IPS Blower Bldg) | | | 10 | 22-Apr-2025 | 5-May-2025 | 5-May-2025, Retaining Wall #5 (South of IPS Blower Bldg) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1210 | | | 10 | 22-Apr-2025 | 5-May-2025 | Backfill Retaining Wall #5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retaining Walls 6 Thru 9 @ Road "S" +4.25' MSL | | | 20 | 6-May-2025 | 3-Jun-2025 | 3-Jun-2025, Retaining Walls 6 Thru 9 @ Road "S" +4.25' MSL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1220 | | | 5 | 6-May-2025 | 12-May-2025 | Backfill Retaining Wall #6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1230 | | | 5 | 13-May-2025 | 19-May-2025 | Backfill Retaining Wall #7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1240 | | | 5 | 20-May-2025 | 27-May-2025 | Backfill Retaining Wall #8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCKFIL1250 | | | 5 | 28-May-2025 | 3-Jun-2025 | Backfill Retaining Wall #9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Architectural & MEP Buildout By Process | | | 624 | 19-Jul-2023 | 22-Jan-2026 | 22-Jan-2026, Architectural & MEP Buildout By Process | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area 41 IPS/Blower | | | 552 | 3-Oct-2023 | 22-Dec-2025 | 22-Dec-2025, Area 41 IPS/Blower | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basement (-10.5') | | | 246 | 3-Oct-2023 | 27-Sep-2024 | 27-Sep-2024, Basement (-10.5') | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet Well | | | 60 | 3-Oct-2023 | 28-Dec-2023 | 28-Dec-2023, Wet Well | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

Milestone

Milestone

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| <div><div><div></div></div><div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div></div> | | | Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE | | | | | | Data Date: 11-Aug-2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Activity ID | Activity Name | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 | Q | | | |
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| | | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q4 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 | Q | | |
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Data Date: 11-Aug-2021

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 Remaining Level of Effort
  Actual Work
  Critical Remaining Work
 Actual Level of Effort
 Remaining Work
 Milestone

| <div><div><div></div></div><div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div></div> | | | Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE | | | | | | | | | | Data Date: 11-Aug-2021 | | | | | | | | | | | | | | | | | | | | | | | |
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| Activity ID | Activity Name | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q4 | Q | Q | Q | Q | Q | Q | Q4 | Q | Q | Q | Q | Q | Q3 | Q | | |
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 Remaining Level of Effort
  Actual Work
  Critical Remaining Work
 Actual Level of Effort
 Remaining Work
 Milestone

| <div><div><div></div></div><div>HENSEL PHELPS</div><div>Plan. Build. Manage.</div></div> | | | Sand Island WWTP Secondary Treatment (Phase 1) - FINAL BID SCHEDULE | | | | | | | | | | Data Date: 11-Aug-2021 | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|---|-------------|-------------|--|---|---|----|------|---|---|------------------------|------|----|------|---|---|---|------|---|---|---|------|---|---|----|------|---|---|---|------|---|----|---|
| Activity ID | Activity Name | | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q4 | Q | Q | Q | Q | Q | Q | Q4 | Q | Q | Q | Q | Q | Q | Q3 | Q |
| | | Ground Floor (+16') | 194 | 28-Aug-2024 | 9-Jun-2025 | 9-Jun-2025, Ground Floor (+16') | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1680 | Prepare Surface and Paint | 5 | 28-Aug-2024 | 4-Sep-2024 | Prepare Surface and Paint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1080 | Install Fire Protection | 15 | 26-Sep-2024 | 16-Oct-2024 | Install Fire Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1710 | Test Fire Protection | 5 | 17-Oct-2024 | 23-Oct-2024 | Test Fire Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1130 | Install Equipment Pads | 5 | 24-Oct-2024 | 30-Oct-2024 | Install Equipment Pads | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1110 | Install Electrical Rough-In | 15 | 15-Nov-2024 | 6-Dec-2024 | Install Electrical Rough-In | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1670 | Install Lighting | 5 | 9-Dec-2024 | 13-Dec-2024 | Install Lighting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1720 | Pull Electrical Wire and Terminate | 15 | 16-Dec-2024 | 7-Jan-2025 | Pull Electrical Wire and Terminate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1550 | Install OH Doors | 10 | 8-Jan-2025 | 22-Jan-2025 | Install OH Doors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1570 | Install Doors & Hardware | 5 | 23-Jan-2025 | 29-Jan-2025 | Install Doors & Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1450 | Install Permeate Pumps - PUM 4501P-4508P (8) | 10 | 24-Mar-2025 | 7-Apr-2025 | Install Permeate Pumps - PUM 4501P-4508P (8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1470 | Install Pipe Supports & Racks | 5 | 8-Apr-2025 | 14-Apr-2025 | Install Pipe Supports & Racks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1730 | Test Electrical and Controls | 5 | 8-Apr-2025 | 14-Apr-2025 | Test Electrical and Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1480 | Install 42" PER SS Piping | 5 | 15-Apr-2025 | 22-Apr-2025 | Install 42" PER SS Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1490 | Install 30" PA SS Piping | 10 | 23-Apr-2025 | 6-May-2025 | Install 30" PA SS Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1500 | Install 16" PER SS Piping | 5 | 7-May-2025 | 13-May-2025 | Install 16" PER SS Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1510 | Install Small Bore Piping | 10 | 14-May-2025 | 28-May-2025 | Install Small Bore Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1520 | Install Weir Gates - WG 4401-4408 (8) | 6 | 29-May-2025 | 5-Jun-2025 | Install Weir Gates - WG 4401-4408 (8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1530 | Install Chemical Cleaning System PUM 4501-4502 A/H (4) | 2 | 6-Jun-2025 | 9-Jun-2025 | Install Chemical Cleaning System PUM 4501-4502 A/H (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Second Floor (+27') | 219 | 5-Sep-2024 | 23-Jul-2025 | 23-Jul-2025, Second Floor (+27') | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Blower Room 45-06 | 219 | 5-Sep-2024 | 23-Jul-2025 | 23-Jul-2025, Blower Room 45-06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1640 | Prepare Surface and Paint | 5 | 5-Sep-2024 | 11-Sep-2024 | Prepare Surface and Paint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1120 | Install Fire Protection | 5 | 24-Oct-2024 | 30-Oct-2024 | Install Fire Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1740 | Test Fire Protection | 5 | 31-Oct-2024 | 6-Nov-2024 | Test Fire Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1140 | Install Electrical Rough-In | 10 | 7-Nov-2024 | 21-Nov-2024 | Install Electrical Rough-In | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1170 | Install Equipment Pad | 5 | 22-Nov-2024 | 29-Nov-2024 | Install Equipment Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1620 | Install Lighting | 5 | 22-Nov-2024 | 29-Nov-2024 | Install Lighting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1750 | Pull Electrical Wire & Terminate | 10 | 2-Dec-2024 | 13-Dec-2024 | Pull Electrical Wire & Terminate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1600 | Install OH Doors | 5 | 16-Dec-2024 | 20-Dec-2024 | Install OH Doors | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1610 | Install Windows | 10 | 23-Dec-2024 | 7-Jan-2025 | Install Windows | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1630 | Install Doors & Hardware | 5 | 30-Jan-2025 | 5-Feb-2025 | Install Doors & Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1760 | Test Electrical and Controls (All Rooms 2nd Floor) | 15 | 21-Feb-2025 | 13-Mar-2025 | Test Electrical and Controls (All Rooms 2nd Floor) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1540 | Install Blowers - BLW 4501-4508 (8) | 10 | 10-Jun-2025 | 24-Jun-2025 | Install Blowers - BLW 4501-4508 (8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1560 | Install Air Compressor AC4500 A/B (2) | 5 | 25-Jun-2025 | 1-Jul-2025 | Install Air Compressor AC4500 A/B (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1580 | Install 16" PER SS Piping | 5 | 2-Jul-2025 | 9-Jul-2025 | Install 16" PER SS Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1590 | Install 12" PA SS Piping | 5 | 10-Jul-2025 | 16-Jul-2025 | Install 12" PA SS Piping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1650 | Install Auto Sampler | 5 | 17-Jul-2025 | 23-Jul-2025 | Install Auto Sampler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Communication Room 45-08 & Corridor 45-09 | 110 | 12-Sep-2024 | 20-Feb-2025 | 20-Feb-2025, Communication Room 45-08 & Corridor 45-09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1370 | Surface Prep and Paint | 5 | 12-Sep-2024 | 18-Sep-2024 | Surface Prep and Paint | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1190 | Install Fire Protection | 10 | 31-Oct-2024 | 14-Nov-2024 | Install Fire Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1220 | Install Electrical Rough-In | 10 | 16-Dec-2024 | 30-Dec-2024 | Install Electrical Rough-In | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1260 | Install Ductwork & Fans | 10 | 31-Dec-2024 | 14-Jan-2025 | Install Ductwork & Fans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1770 | Pull Electrical Wire & Terminate | 10 | 31-Dec-2024 | 14-Jan-2025 | Pull Electrical Wire & Terminate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1310 | Install Equipment Pad | 10 | 15-Jan-2025 | 29-Jan-2025 | Install Equipment Pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MBRSER1340 | Install PLCs | 15 | 30-Jan-2025 | 20-Feb-2025 | Install PLCs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Electrical Room 45-07 | 100 | 19-Sep-2024 | 12-Feb-2025 | 12-Feb-2025, Electrical Room 45-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Remaining Level of Effort

Actual Work

Critical Remaining Work

Actual Level of Effort

Remaining Work

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Data Date: 11-Aug-2021

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|---|--|---------------|---|-------|--------|------|---|---|----|------|---|---|------------------------|------|----|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|--|--|
| Activity ID | | Activity Name | Original Duration | Start | Finish | 2022 | | | | 2023 | | | | 2024 | | | | 2025 | | | | 2026 | | | | 2027 | | | | 2028 | | | | 2029 | | | |
| | | | | | | Q | Q | Q | Q3 | Q | Q | Q | Q | Q | Q2 | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q | Q3 | Q | | |
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 Remaining Level of Effort
  Actual Work
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Goodfellow Bros. LLC

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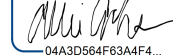
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aackerman@henselphehelps.com

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Amanda VanBerkom

amandav@goodfellowbros.com

Sr. Contracts Specialist- Northwest

Goodfellow Bros., LLC

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| Witness Events | Signature | Timestamp |
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| | |
|----------------------------|---|
| Operating Systems: | Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X |
| Browsers: | Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only) |
| PDF Reader: | Acrobat® or similar software may be required to view and print PDF files |
| Screen Resolution: | 800 x 600 minimum |
| Enabled Security Settings: | Allow per session cookies |

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