Subcontract

HENSEL PHELPS CONSTRUCTION CO. Contractor

Issuing Office	•	841 Bishop Street Suite 2001 Honolulu, HI 96813
	•	Contractor License Number in State of Project if Applicable CT-34875
Subcontractor	•	Goodfellow Bros LLC
Subcontract	•	Earthwork and Site Utilities
Project	•	Sand Island Wastewater Treatment Plant Secondary Treatment Phase I
Project Number	r •	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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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 <u>Sand Island Wastewater Treatment Plant Secondary Treatment Phase 1</u>, hereinafter referred to as the Project, to be located at <u>1350 Sand Island Parkway Honolulu</u>, <u>HI 96819</u>, for the use and benefit of the <u>City and County of Honolulu</u>, hereinafter referred to as the Owner, in strict accordance with the Contract between the Contractor and the Owner entered into <u>11/18/2021</u> 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-T03-030-DA-003, 506047-WTS-EL-T03-0300-DA-003, 506047-WTS-EL-T03-030-DA-003, 506047-WTS-EL-T03-0050-DA-000-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-WTS-PR-T02-8521-DS-002, 506047-WTS-PR-T02-8521-DS-104, 506047-8521-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 FnIrpt.IW, Weekly Drilling Rpt, SERV-0001 ZW Membrane Care, Handling and Storage SUEZ, SERV-0003 ½ W500D_Cassette_Uncrating_Installation_Instruction_SRA_suez, Ala Moana FM Section 3_Job No. S7-76 _ 7-JUI-82 _ Wison Okamoto & Sociates_As-Built, W1-11_Ala Moana FM 3&4 As-Builts, HDOH DU Variance Letter,

Contractor Subcontractor

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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-Applies)
- 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:

- 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)
- NPDES Permit (By Hensel Phelps) 3.
- 4. Dust screening on fence (By David's Fencing)
- Water (By Hensel Phelps) 5.
- Compaction testing (By City & County of Honolulu) 6.
- Building and Grading Permits (By City & County of Honolulu) 7.
- Installation of the temporary dewatering lines from the Building Excavation to location of Injection Wells (By Hensel
- 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" RCPP 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
- 19. Supply of manholes and hand holes per specification section 16802 (By Cache Valley Electric)
 20. Facilitate that 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.
- 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 <u>SWPPP and BMP</u> 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 <u>preparations and maintenance required for the stockpile area</u>, 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 <u>clearing, grubbing, cut/cap, demolition, and haul-off</u> 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.
- Provide <u>subsurface utility locating and pothole</u> 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 <u>dewatering equipment and piping</u> 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 <u>dewatering and shoring</u> 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 <u>slope protection system</u> including gravel as required.
- 12. Provide a plan and execute the plant sewer bypass in accordance with the Contract Documents.
- 13. Provide all <u>structural excavation</u>, <u>fill</u>, <u>back-filling</u>, 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 Contract for sequencing.

Coordinate and provide all <u>imported materials</u> as required for the completion of this Subcontractor's work.

<u>Manage all spoils</u> as required by the Contract Documents.

Contractor Subcontractor

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- 16. Provide all layout, excavation, bedding, material, installation, compaction and backfill for new and existing <u>underground utilities</u>, <u>boxes</u>, <u>and manholes</u>. 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 <u>underground sanitary, foul air, storm water, water distribution and fire protection systems</u> 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 <u>proof-rolling, geotextiles, drainage materials, compaction</u> 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 <u>manage spoils</u> of auger cast piles to the stockpile area as required.
- 22. Provide all <u>rough and fine grading of base courses</u>, 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 <u>protection</u> 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 <u>layout and surveying</u> for earthwork, utilities, demolition, lines and grades as required. Contractor will provide a minimum of six benchmarks and site control points.
- 28. Provide <u>dust control</u> measures during any of this Subcontractor's activities including, but not limited to grading, excavating, backfill and hauling operations.
- 29. Provide the <u>new gravel access road</u> 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. <u>Submittals</u> 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 spacetimest effectively.

Contractor

Subcontractor

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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 CLSM @ FM Credit b. (\$160,000)c. Ductbank and MH \$1,093,000 Credit for Trees d. (\$185,000)Credit for Asphalt Demo & fence (\$49,224)\$115,000 100% Payment and Performance Bonds f. Use/GET w/above g. 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 <u>Twenty-Four Million Two Hundred and Five Thousand Eight Hundred Seventeen</u> (\$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

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 subsubcontractors 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 inability in connection therewith.

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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.
- 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.).
- 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 The Subcontractor agrees that applications for payment not complying herewith may, at the option of the Contractor, be

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

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.

(I) 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

 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

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.





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.

- 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 boggl posted by Contractor shall be stayed pending final resolution of the claim or dispute against the Owner.

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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.

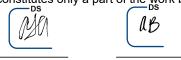
If any part of Paragraph (b) of this Article is determined to be unenforceable, then the claim or dispute shall be decided by binding arbitration governed by the Federal Arbitration Act.

- (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.

- 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.
- 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



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DocuSign Envelope ID: 72FF8C8B-5CCC-455B-9831-307EA51D2C62 therefore agrees to perform the work called for in this Subcontract in such a manner that will not injure or damage any other work 1 performed by the Contractor or any other subcontractor, and Subcontractor further agrees as follows: 2 3 To furnish continuous and effective protection at all times for its own work-in-place and all materials stored for use 4 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 5 Contractor; 6 7

- (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;
- 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 [#b 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

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Subcontractor Contractor

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	by all terms and provisions of the following collective
bargaining agreei	ments executed by Contractor or on Contractor's behalf: _	Laborers (Local 368), Masons (Local 630),
Carpenters (Loca	d 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, wheneved the hiring hall of the Subcontractor be unable or unwilling to meet the needs of the 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.

- 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 imprecipate and permanent-removal from the Project, in accordance with Article 32. In the event Subcontractor has safety issue(s)

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.





 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,



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

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.

- 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 of the Contract Specifications is referred to in describing the work to be performed under this Subcontract, the

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 (I) 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 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.







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 19, and hereby acknowledged as being received by Subcontracto 2A – 2D		•
IN WITNESS WHEREOF, the parties hereto have execu successors, administrators and assigns, on the day and year first limanda bruato	•	TION CO.
(Subcontractor)	(Contractor)	DocuSigned by:
Amanda Brucato	D	(Mu Mh)
By:	Ву:	Allie Ackerman
Title: Director of Contracting December 4, 20	021 11:53 AM EST Title: Project Manager	December 4, 2021
Date		Date
1300 N. Holopono Street, Suite 201		
Kihei, HI 96753-0220		
(Address of Record)	•	





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		ENSEL PHELPS . Build. Manage.	Sand Island WWTP S	Sociating 1160	aanont (i na	SS I) I IIVAL	L BID SCHEDULE Data Date: 11-Aug-2021	
)	rtan	Activity Name		Original	Start	Finish	2022 2023 2024 2025 2026 2027 2028	202
				Duration				
	Contractor/Subcontract	tor Develop		187	10-Oct-2021	14-Apr-2022	14-Apr-2022, Contractor/Subcontractor Develop	
	SPCD1000	Submittal Development - Division 0	01 General Requirements	30	10-Oct-2021	8-Nov-2021	□ Submittal Development - Division 01 General Requirements	
	SPCD1150	Submittal Development - Division 0	2 Site Construction	45	1-Jan-2022	14-Feb-2022	Submittal Development - Division 02 Site Construction	
	SPCD1140	Submittal Development - Division 0	3 Concrete	100	1-Jan-2022	10-Apr-2022	Submittal Development - Division 03 Concrete	
	SPCD1130	Submittal Development - Division 0	04 Masonry	14	1-Jan-2022	14-Jan-2022	Submittal Development - Division 04 Masonry	
	SPCD1120	Submittal Development - Division 0	05 Metals	100	1-Jan-2022	10-Apr-2022	Submittal Development - Division 05 Metals	
	SPCD1110	Submittal Development - Division 0	06 Wood, Plastics, and Composites	30	1-Jan-2022	30-Jan-2022	☐ Submittal Development - Division 06 Wood, Plastics, and Composites	
	SPCD1090	Submittal Development - Division 0	08 Openings	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 08 Openings	
	SPCD1080	Submittal Development - Division 0	9 Finishes	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 09 Finishes	
	SPCD1070	Submittal Development - Division 1	0 Specialties	40	1-Jan-2022	9-Feb-2022	□ Submittal Development - Division 10 Specialties	
	SPCD1050	Submittal Development - Division 1	2 Furnishings	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 12 Furnishings	
	SPCD1040	Submittal Development - Division 1	3 Special Construction	60	1-Jan-2022	1-Mar-2022	Submittal Development - Division 13 Special Construction	
	SPCD1030	Submittal Development - Division 1	4 Conveying Systems	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 14 Conveying Systems	
	SPCD1020	Submittal Development - Division 1	, , ,	90	1-Jan-2022	31-Mar-2022	Submittal Development - Division 15 Mechanical	
	SPCD1100	Submittal Development - Division 0	7 Thermal Moisture Protection	60	15-Jan-2022	15-Mar-2022	Submittal Development - Division 07 Thermal Moisture Protection	
	SPCD1060	Submittal Development - Division 1			15-Jan-2022	14-Apr-2022		1
	SPCD1010	Submittal Development - Division 1	• •		15-Jan-2022	14-Apr-2022		
	Contractor Prepare/Sub	-			9-Nov-2021	24-Apr-2022		
	SPCS1000	Submittal Prepare/ Submit - Divisio	n 01 General Requirements		9-Nov-2021	18-Nov-2021		
	SPCS1150	Submittal Prepare/ Submit - Divisio	•		11-Jan-2022	20-Jan-2022		
	SPCS1130	Submittal Prepare/ Submit - Divisio			15-Jan-2022	24-Jan-2022		
	SPCS1110	·	n 06 Wood, Plastics, and Composites		31-Jan-2022	9-Feb-2022	Submittal Prepare/ Submit - Division 06 Wood, Plastics, and Composites	
	SPCS1070	Submittal Prepare/ Submit - Divisio	•		10-Feb-2022	19-Feb-2022		
	SPCS1080	Submittal Prepare/ Submit - Divisio	•		2-Mar-2022	11-Mar-2022		
	SPCS1050	Submittal Prepare/ Submit - Divisio			2-Mar-2022	11-Mar-2022		
	SPCS1040	Submittal Prepare/ Submit - Divisio	•		2-Mar-2022	11-Mar-2022		
	SPCS1100	Submittal Prepare/ Submit - Divisio	•		16-Mar-2022	25-Mar-2022		
	SPCS1090	Submittal Prepare/ Submit - Divisio			1-Apr-2022	10-Apr-2022		
	SPCS1030	Submittal Prepare/ Submit - Divisio			1-Apr-2022	10-Apr-2022	Submittal Prepare/ Submit - Division 14 Conveying Systems	i
	SPCS1030	Submittal Prepare/ Submit - Divisio	, , ,		1-Apr-2022		Submittal Prepare/ Submit - Division 15 Mechanical	
		Submittal Prepare/ Submit - Divisio				10-Apr-2022		
	SPCS1140	·			11-Apr-2022	20-Apr-2022		
	SPCS1120	Submittal Prepare/ Submit - Divisio			11-Apr-2022	20-Apr-2022		
	SPCS1060	Submittal Prepare/ Submit - Divisio			15-Apr-2022	24-Apr-2022		
Ь	SPCS1010	Submittal Prepare/ Submit - Divisio	n 16 Electrical		15-Apr-2022	24-Apr-2022		
	OIC Review/Approval SPOR1000	Submittal Review/Approval - Division	on 01 Conoral Paguiroments		19-Nov-2021 19-Nov-2021	24-May-2022 18-Dec-2021		
	SPOR1000 SPOR1150	Submittal Review/Approval - Division	·		19-Nov-2021 11-Jan-2022	9-Feb-2022	Submittal Review/Approval - Division 02 Site Construction	-
	SPOR1130	Submittal Review/Approval - Division			25-Jan-2022	9-Feb-2022 23-Feb-2022		
		• • • • • • • • • • • • • • • • • • • •	on 04 Masonry on 06 Wood, Plastics, and Composites					
	SPOR1110		· · · · · · · · · · · · · · · · · · ·		10-Feb-2022	11-Mar-2022		
	SPOR1070	Submittal Review/Approval - Division	·		20-Feb-2022	21-Mar-2022		
	SPOR1080	Submittal Review/Approval - Division			12-Mar-2022	10-Apr-2022	—	i
	SPOR1050	Submittal Review/Approval - Division	<u> </u>		12-Mar-2022	10-Apr-2022		
	SPOR1040	Submittal Review/Approval - Division	•		12-Mar-2022	10-Apr-2022		i
	SPOR1100	Submittal Review/Approval - Division			26-Mar-2022	24-Apr-2022		
	SPOR1090	Submittal Review/Approval - Division			11-Apr-2022	10-May-2022		
	SPOR1030	Submittal Review/Approval - Division	on 14 Conveying Systems	20	11-Apr-2022	10-May-2022	□ Submittal Review/Approval - Division 14 Conveying Systems	1

		Build. Manage. Activity Name		Original	Start	Finish	2022 2023 2024 2025 2026 2027 2028
				Duration			
SPO	OR1020	Submittal Review/Approval - Divisio	n 15 Mechanical	30	11-Apr-2022	10-May-2022	□ Submittal Review/Approval - Division 15 Mechanical
SPO	OR1140	Submittal Review/Approval - Divisio	n 03 Concrete	30	21-Apr-2022	20-May-2022	☐ Submittal Review/Approval - Division 03 Concrete
SPO	OR1120	Submittal Review/Approval - Divisio	n 05 Metals	30	21-Apr-2022	20-May-2022	☐ Submittal Review/Approval - Division 05 Metals
SPO	OR1060	Submittal Review/Approval - Divisio	n 11 Equipment	30	25-Apr-2022	24-May-2022	☐ Submittal Review/Approval - Division 11 Equipment
SPO	OR1010	Submittal Review/Approval - Divisio	n 16 Electrical	30	25-Apr-2022	24-May-2022	☐ Submittal Review/Approval - Division 16 Electrical
OIC Re-F	-Review/Approval			171	19-Dec-2021	7-Jun-2022	▼ 7-Jun-2022, OIC Re-Review/Approval
SPO	ORRS1000	Submittal Re-Review/Approval - Div	vision 01 General Requirements	14	19-Dec-2021	1-Jan-2022	Submittal Re-Review/Approval - Division 0.1 General Requirements
SPO	ORRS1150	Submittal Re-Review/Approval - Div	vision 02 Site Construction	14	10-Feb-2022	23-Feb-2022	■ Submittal Re-Review/Approval - Division 02 Site Construction
SPO	ORRS1130	Submittal Re-Review/Approval - Div	vision 04 Masonry	14	24-Feb-2022	9-Mar-2022	Submittal Re-Review/Approval - Division 04 Masonry
SPO	ORRS1110	Submittal Re-Review/Approval - Div	vision 06 Wood, Plastics, and Composites	14	12-Mar-2022	25-Mar-2022	Submittal Re-Review/Approval - Division 06 Wood, Plastics, and Composites
SPO	ORRS1070	Submittal Re-Review/Approval - Div	vision 10 Specialties	14	22-Mar-2022	4-Apr-2022	Submittal Re-Review/Approval - Division 10 Specialties
SPO	ORRS1080	Submittal Re-Review/Approval - Div	vision 09 Finishes	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 09 Finishes
SPO	ORRS1050	Submittal Re-Review/Approval - Div	vision 12 Furnishings	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 12 Furnishings
SPO	ORRS1040	Submittal Re-Review/Approval - Div	vision 13 Special Construction	14	11-Apr-2022	24-Apr-2022	Submittal Re-Review/Approval - Division 13 Special Construction
SPO	ORRS1100	Submittal Re-Review/Approval - Div	vision 07 Thermal Moisture Protection	14	25-Apr-2022	8-May-2022	Submittal Re-Review/Approval - Division 07 Thermal Moisture Protection
SPO	ORRS1090	Submittal Re-Review/Approval - Div	vision 08 Openings	14	11-May-2022	24-May-2022	Submittal Re-Review/Approval - Division 08 Openings
SPO	ORRS1030	Submittal Re-Review/Approval - Div	vision 14 Conveying Systems	14	11-May-2022	24-May-2022	Submittal Re-Review/Approval - Division 14 Conveying Systems
SPO	ORRS1020	Submittal Re-Review/Approval - Div	vision 15 Mechanical	14	11-May-2022	24-May-2022	■ Submittal Re+Review/Approval - Division 15 Mechanical
SPO	ORRS1140	Submittal Re-Review/Approval - Div	vision 03 Concrete	14	21-May-2022	3-Jun-2022	Submittal Re-Review/Approval - Division 03 Concrete
SPO	ORRS1120	Submittal Re-Review/Approval - Div	vision 05 Metals	14	21-May-2022	3-Jun-2022	Submittal Re-Review/Approval - Division 05 Metals
SPO	ORRS1060	Submittal Re-Review/Approval - Div	vision 11 Equipment	14	25-May-2022	7-Jun-2022	Submittal Re-Review/Approval - Division 11 Equipment
SPO	ORRS1010	Submittal Re-Review/Approval - Div	vision 16 Electrical	14	25-May-2022	7-Jun-2022	Submittal Re-Review/Approval - Division 16 Electrical
/laterial P	Procurement			416	20-Feb-2022	11-Apr-2023	▼ 11-Apr-2023, Material Procurement
_	al Fabrication				20-Feb-2022	14-Mar-2023	▼ 14-Mar-2023, Material Fabrication
	MF1150	Material Fabrication - Division 02 Si			20-Feb-2022	5-Apr-2022	Material Fabrication - Division 02 Site Construction
	MF1130	Material Fabrication - Division 04 M	•		10-Mar-2022	8-May-2022	☐ Material Fabrication - Division 04 Masonry
	MF1110	Material Fabrication - Division 06 W	•		26-Mar-2022	24-May-2022	Material Fabrication - Division 06 Wood, Plastics, and Composites
	MF1070	Material Fabrication - Division 10 S			5-Apr-2022	3-Jul-2022	Material Fabrication - Division 10 Specialties
	MF1080	Material Fabrication - Division 09 Fi			25-Apr-2022	23-Jun-2022	☐ Material Fabrication - Division 09 Finishes
	MF1050	Material Fabrication - Division 12 Fu	•		25-Apr-2022	22-Aug-2022	Material Fabrication - Division 12 Furnishings
	MF1040	Material Fabrication - Division 13 S			25-Apr-2022	10-Nov-2022	Material Fabrication - Division 13 Special Construction
	MF1100	Material Fabrication - Division 07 Th			9-May-2022	5-Sep-2022	Material Fabrication - Division 07 Thermal Moisture Protection
	MF1090	Material Fabrication - Division 08 O	• •		25-May-2022	22-Aug-2022	Material Fabrication - Division 08 Openings
	MF1030	Material Fabrication - Division 14 C			25-May-2022	10-Dec-2022	Material Fabrication - Division 14 Conveying Systems
	MF1020	Material Fabrication - Division 15 M			25-May-2022	22-Aug-2022	Material Fabrication - Division 15 Mechanical
	MF1140	Material Fabrication - Division 03 C			4-Jun-2022	11-Jul-2022	☐ Material Fabrication - Division 03 Concrete
	MF1120	Material Fabrication - Division 05 M			4-Jun-2022	1-Sep-2022	Material Fabrication - Division 05 Metals
	MF1060	Material Fabrication - Division 11 Ed	• •		8-Jun-2022	14-Feb-2023	Material Fabrication - Division 11 Equipment
	MF1010	Material Fabrication - Division 16 El	ectrical		8-Jun-2022	14-Mar-2023	Material Fabrication - Division 16 Electrical
	al Delivery	Matarial Deficiency Division 20 Cm C	No. of the control of		6-Apr-2022	11-Apr-2023	▼ 11-Apr-2023, Material Delivery
	MD1150	Material Delivery - Division 02 Site 0			6-Apr-2022	3-May-2022	☐ Material Delivery - Division 02 Site Construction
	MD1130	Material Delivery - Division 04 Maso	·		9-May-2022	5-Jun-2022	Material Delivery - Division 04 Masonry Material Delivery - Division 04 Masonry Material Delivery - Division 04 Masonry Material Delivery - Division 04 Masonry
	MD1110	Material Delivery - Division 06 Wood	•		25-May-2022	21-Jun-2022	Material Delivery - Division 06 Wood, Plastics, and Composites Notation Delivery - Division 00 Finishes
	MD1080	Material Delivery - Division 09 Finish			24-Jun-2022	21-Jul-2022	Material Delivery - Division 09 Finishes
	MD1070	Material Delivery - Division 10 Spec			4-Jul-2022	31-Jul-2022	Material Delivery - Division 10 Specialties
MPN	MD1140	Material Delivery - Division 03 Conc	rete	28	12-Jul-2022	8-Aug-2022	☐ Material Delivery - Division 03 Concrete

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	Activity Name	Original Start Duration	Finish	2022 2023 2024 2025 2026 2027 2028 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
MPMD1090	Material Delivery - Division 08 Openings	28 23-Aug-2022	19-Sep-2022	Material Delivery - Division 08 Openings
MPMD1050	Material Delivery - Division 10 Openings Material Delivery - Division 12 Furnishings	28 23-Aug-2022 28 23-Aug-2022	19-Sep-2022	Material Delivery - Division 12 Furnishings
MPMD1020	Material Delivery - Division 15 Mechanical	28 23-Aug-2022	19-Sep-2022	Material Delivery - Division 15 Mechanical
MPMD1120	Material Delivery - Division 05 Metals	28 2-Sep-2022	29-Sep-2022	☐ Material Delivery - Division 05 Metals
MPMD1100	Material Delivery - Division 07 Thermal Moisture Protection	28 6-Sep-2022	3-Oct-2022	Material Delivery - Division 07 Thermal Moisture Protection
MPMD1040	Material Delivery - Division 13 Special Construction	28 11-Nov-2022	8-Dec-2022	Material Delivery - Division 13 Special Construction
MPMD1030	Material Delivery - Division 14 Conveying Systems	28 11-Dec-2022	7-Jan-2023	Material Delivery - Division 14 Conveying Systems
MPMD1060	Material Delivery - Division 11 Equipment	28 15-Feb-2023	14-Mar-2023	Material Delivery - Division 11 Equipment
MPMD1010	Material Delivery - Division 16 Electrical	28 15-Mar-2023	11-Apr-2023	☐ Material Delivery - Division 16 Electrical
nstruction	Material Belivery Biviolit to Electrical	1041 4-Jan-2022	22-Jan-2026	722 Jan 2026 Construction
			18-Jun-2025	40 1 000 5 1 07 W. W.
arly Site Work		885 4-Jan-2022		
Site Mobilization & By-Pass SMBP1000	Install Site Construction Office Complex/ Parking	99 4-Jan-2022 30 4-Jan-2022	26-May-2022 15-Feb-2022	▼ 26-May-2022, Site Mobilization & By-Passes □ Install Site Construction Office Complex/ Parking
SMBP1010	Set up Control Entries, Silt & Dust Fence	15 2-Mar-2022	22-Mar-2022	Set up Control Entries, Silt & Dust Fence
SMBP1020	Install Temporary W12" By-Pass (See Sheet C40-014)	10 23-Mar-2022	6-Apr-2022	Install Temporary W12" By-Pass (See Sheet C40-014)
SMBP1030	Install Temporary S6" Bypass w/ ARV, 350 lf (See Sheet C40-014)	10 23-Mar-2022 10 23-Mar-2022	6-Apr-2022	Install Temporary \$6" Bypass w/ARV, 350 if (See Sheet C40-014)
SMBP1040	Construct 30'x130' Sediment Basin East of MBR	10 23-Mar-2022 10 23-Mar-2022	6-Apr-2022	Construct 30'x130' Sediment Basin East of MBR
SMBP1050	Remove +/-40' of 8" Sewer & Plug MH's (See Sheet C40-014)	5 7-Apr-2022	13-Apr-2022	I Remove +/-40 of 8" Sewer & Plug MH's (See Sheet C40-014)
SMBP1060	Reroute Electrical Ductbank Around PE Box (See Sheet C40-014)	·	28-Apr-2022	Reroute Electrical Ductbank Around PE Box (See Sheet C40+014)
SMBP1070	Construct 40'x120' Sediment Basin West of Thickener Bldg.	10 7-Apr-2022	21-Apr-2022	Construct 40'x120' Sediment Basin West of Thickener Bldg.
SMBP1080	Excavate & Shape Temp. Dewatering Basin & Infiltration Trench #1	10 7-Apr-2022 10 22-Apr-2022	5-May-2022	Excavate & Shape Temp. Dewatering Basin & Infiltration Trench #1
SMBP1090	Demo Abandoned Utilities After Relocation is Complete	10 22-Apr-2022 10 29-Apr-2022	12-May-2022	Demo Abandoned Utilities After Relocation is Complete
SMBP1110	Install Reinjection Well West of Thickener Bldg.	15 6-May-2022	26-May-2022	Install Reinjection Well West of Thickener Bldg.
SMBP1100	96" PE Area Ready for Shoring System Installation	15 6-Way-2022	26-May-2022	◆ 96" PE Area Ready for Shoring System Installation
Site Demolition By Areas	90 FLAtea Neady for Shoring System installation	172 4-Jan-2022	7-Sep-2022	▼ 7-Sep-2022, Site Demolition By Areas
	ns 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 Area
SD2T1020	Hazardous Material Removal (Abatement)	15 4-Jan-2022	25-Jan-2022	Hazardous Material Removal (Abatement)
SD2T1010	HECO Power Line Removal (Assume disconnected at NTP)	1 4-Jan-2022	4-Jan-2022	HECO Power Line Removal (Assume disconnected at NTP)
SD2T1000	Shutdown, LOTO Existing Utilities Throughout Demo Area	2 9-Mar-2022	10-Mar-2022	I Shutdown, LOTO Existing Utilities Throughout Demo Area
SD2T1030	HECO Disconnect & Remove Power Lines	1 11-Mar-2022	11-Mar-2022	I HECO Disconnect & Remove Power Lines
SD2T1040	Demolish Building Structures, Pavements, Foundations & Utilities	40 14-Mar-2022	10-May-2022	Demolish Building Structures, Pavements, Foundations & Utilities
SD2T1070	Relocate Owner Containers	3 23-Mar-2022	28-Mar-2022	Relocate Owner Containers
SD2T1080	Demo C&G, Paving Foul Air & 36" Pipe Near UV Effl. Structure	20 29-Mar-2022	26-Apr-2022	Demo C&G, Paving Foul Air & 36" Pipe Near UV Effl. Structure
SD2T1090	Remove Utilities @ Tie-in Location of Effl. Tunnel to UV Str.	10 27-Apr-2022	10-May-2022	Remove Utilities @ Tie-in Location of Effl. Tunnel to UV Str.
SD2T1060	ENV Permit Process & Final Approval (4 months Addendum 5)	120 11-May-2022	7-Sep-2022	ENV Permit Process & Final Approval (4 months Addendum 5)
Demolish Areas Site Pla	nns 5,6,9 & 10 (Thickner BldgAreas)	78 29-Mar-2022	20-Jul-2022	20-Jul-2022, Demolish Areas Site Plans 5, 6, 9 & 10 (Thickner Bldg Areas)
SDTB1000	Relocate Owner Containers	3 29-Mar-2022	31-Mar-2022	Relocate Owner Containers
SDTB1010	Relocate Generator, Tank & Enclosure	3 1-Apr-2022	5-Apr-2022	Relocate Generator, Tank & Enclosure
SDTB1020	Demo Parking Canopy & Posts & Light Poles	7 6-Apr-2022	14-Apr-2022	Demo Parking Canopy & Posts & Light Poles
SDTB1030	Demo Parking Lot	4 18-Apr-2022	21-Apr-2022	I Demo Parking Lot
SDTB1040	Abandon Monitoring Well	2 22-Apr-2022	25-Apr-2022	I Abandon Monitoring Well
SDTB1050	Demo 72" Outfall Bypass Pipe (Plan #10)	15 29-Jun-2022	20-Jul-2022	Demo 72" Outfall Bypass Pipe (Plan #10)
Demolish Areas Site Pla	nn 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	Relocate Owner Containers	5 1-Apr-2022	7-Apr-2022	Relocate Owner Containers
SDUT1010	Demo Existing Trees, Concrete MH's, Barriers & Fence	10 8-Apr-2022	22-Apr-2022	Demo Existing Trees, Concrete MH's, Barriers & Fence
SDUT1020	Demo Roadway Curb & Gutter	5 25-Apr-2022	29-Apr-2022	I Demo Roadway Curb & Gutter

	HEI	NSEL PHELPS	Sand Island WWTP Se	econdary Treatment (Pha	se 1) - FINAL	BID SCHEDULE	Data Date: 11-Aug-2021
		Build. Manage.					
ctivity ID		Activity Name		Original Start	Finish	2022 2023	2024 2025 2026 2027 2028 2029
				Duration			
	SDUT1030	Demo Headwalls, Culverts & Barriers		5 2-May-2022	6-May-2022	I Demo Headwalls, Culve	
	SDUT1040	Cut, Plug & Remove 36" Dia. Abando	. , ,	20 9-May-2022	6-Jun-2022		6" Dia. Abandoned Outfall Pipe(2 Locations Plan #7)
	SDUT1050	Cut, Plug & Remove 60" Dia. Abando	oned FM (Plan #7)	15 7-Jun-2022	28-Jun-2022		60" Dia Abandoned FM (Plan #7)
		Pad Prep, Shoring & Excavation By Areas		488 16-Feb-2022	5-Feb-2024		5-Feb-2024, Site Grading, Jet Grouting, Pad Prep, Shoring & Excavation By A
	Secondary Treatment S		unt Q Mataviala	186 11-May-2022	8-Feb-2023		Secondary Treatment Structure
	JGSH1020	Mobilize Grouting & Shoring Equipme		10 11-May-2022	24-May-2022		noring Equipment & Materials
	JGSH1030	Install Jet Grout Plug Below PE Pump	Station Structure	40 8-Sep-2022	2-Nov-2022		Plug Below PE Pump Station Structure
	JGSH1070	Install Shoring @ PE Pump Station	Nowb Cida	35 3-Nov-2022	23-Dec-2022		@ PE Pump Station or 42" PE DI Shoring North Side
	JGSH1090	Sheet Pile Piles for 42" PE DI Shoring		1 3-Nov-2022	3-Nov-2022		
	JGSH1080	Excavate & Dewater PE Pump Station		30 27-Dec-2022	8-Feb-2023		Dewater PE Pump Station Pit s for 42" PE DI Shoring South Side
	JGSH1100	Sheet Pile Piles for 42" PE DI Shoring	South Side	1 6-Jan-2023	6-Jan-2023		5-Feb-2024, 96" Primary Effluent Area
	96" Primary Effluent Are JGSH1040	Install Shoring From PE Junction Stru	eture to DE Dump Station	70 24-Oct-2023 10 24-Oct-2023	5-Feb-2024 6-Nov-2023		stall Shoring From PE Junction Structure to PE Pump Station
	JGSH1040 JGSH1060	Install Jet Grout Plug Below Future 96	·	5 7-Nov-2023	14-Nov-2023		stall Jet Grout Plug Below Future 96" PE
	JGSH1060 JGSH1120	Excavate & Dewater 96" Pipe Trench		5 7-Nov-2023 5 15-Nov-2023	21-Nov-2023		cavate & Dewater 96" Pipe Trench
	JGSH1120 JGSH1130	Install 96" PE-A & PE-B Lines & Conn		30 22-Nov-2023	5-Jan-2024		nstall 96" PE-A& PE-B Lines & Connect to Both Structures
	JGSH1130 JGSH1140	Test & Backfill 96" PE Lines	lect to Both Structures	20 8-Jan-2024	5-Jan-2024 5-Feb-2024		Test & Backfill 96" PE Lines
	Thickener Building Structure			5 26-Jan-2023	1-Feb-2023		Thickener Building Structure
	JGSH1110	Soil Mix For Low Trench Structure		5 26-Jan-2023	1-Feb-2023		ow Trench Structure
	Existing Ductbanks & In			45 16-Feb-2022	22-Apr-2022	22-Apr-2022, Existing D	
	JGSH1010	Predrill & Install Sheetpile @ Existing A	Ala Moana FM#2	25 16-Feb-2022	23-Mar-2022		@ Existing Ala Moana FM#2
	JGSH1050	Predrill & Install Sheetpile @ Existing		20 24-Mar-2022	22-Apr-2022		e @ Existing Ala Moana FM#3&4
	Site Utilities By Area & By Ty			779 1-Apr-2022	21-May-2025		▼ 21-May-2025, Site Utilities By Area & By Type
	Site Storm Drainage			256 1-Apr-2022	13-Apr-2023	13-Apr-20	23, \$ite Storm Drainage
	SUST1000	Install Shoring & Dewatering System	@ SWJB	25 1-Apr-2022	6-May-2022	☐ Install Shoring & Dewat	
	SUST1010	Install Jet Grouted Columns & Plug @) SWJB	10 9-May-2022	20-May-2022	I Install Jet Grouted Colu	umns & Plug @ SWJB
	SUST1030	Install Jet Grout Pier Support for B&C	Box Culverts	35 23-May-2022	13-Jul-2022	Install Jet Grout Pier	Support for B&C Box Culverts
	SUST1040	Install 5'x2' Box Culverts B&C w/ MH's	S	40 14-Jul-2022	9-Sep-2022	☐ Install 5'x2' Box Cu	lverts B&C w/ MH's
	SUST1060	Install Jet Grout Pier Support for Box	CulvertA	45 14-Jul-2022	16-Sep-2022	☐ Install Jet Grout Pi	er Support for Box CulvertA
	SUST1020	Exc., FRP Stormwater Junction Box (SWJB)(Yard Piping Plan #2)	35 9-Aug-2022	28-Sep-2022	■ Exc., FRP Stormw	vater Junction Box (SWJB)(Yard Piping Plan #2)
	SUST1070	Install Drain Line D 18" Dia. & FRP Inl	let Structure & Set MH's	15 12-Sep-2022	30-Sep-2022	🛭 Install Drain Line 🗈	D 18" Dia. & FRP Inlet Structure & Set MH's
	SUST1080	Install 5'x2' Box Culvert A w/ MH's		50 19-Sep-2022	29-Nov-2022	☐ Install 5'x2' Box	CulvertA w/ MH's
	SUST1090	Install 8" & 10" DL to DL-B2 & DMH-A	1 MH's - West of MBR	10 3-Oct-2022	14-Oct-2022	I Install 8" & 10" DL	to DL-B2 & DMH-A1 MH's - West of MBR
	SUST1100	Install Drain Line E & F 15" Dia. & MH	's - South & East of MBR	25 17-Oct-2022	21-Nov-2022	☐ Install Drain Line	E & F 15" Dia. & MH's - South & East of MBR
	SUST1050	Install Alum. Stairs, Gratings, Gates &	Check Valves @ SWJB	20 15-Mar-2023	13-Apr-2023	□ Install Alun	n. Stairs, Gratings, Gates & Check Valves @ \$WJB
	Site Sewer System			161 25-Nov-2022	20-Jul-2023		2023, Site Sewer System
	SUSS1000	Install 42" PE D.I. North Blower, Proce		25 25-Nov-2022	30-Dec-2022		D.I. North Blower, Process Reactor & Fine Screen
	SUSS1010	Install 42" PE D.I. South Blower, MBR	Service Bldg	22 9-Jan-2023	8-Feb-2023		D.I. South Blower, MBR Service Bldg
	SUSS1020	Install & Test 42" PE D.I. N. Riser & Tie		10 16-May-2023	30-May-2023		Test 42" PE D.I. N. Riser & Tie-in @ 6 Line Foundation Wall
	SUSS1030	Install & Test 42" PE D.I. S. Riser & Tie	e-in @ 9 Line Thru Stair Fndn Walls	10 7-Jul-2023	20-Jul-2023		& Test 42" PE D.I. S. Riser & Tie-in @ 9 Line Thru Stair Fndn Walls
	Site Process Piping			169 6-Jun-2023	8-Feb-2024		8-Feb-2024, Site Process Piping
	SUPP1000	Install & Test 14" Primary Sludge D.I.		31 6-Jun-2023	20-Jul-2023		% Test 14" Primary Sludge D.I.
	SUPP1010	Install & Test 14" Filtrate D.I. Line		46 21-Jul-2023	26-Sep-2023		all & Test 14" Filtrate D.I. Line
	SUPP1020	Install & Test 6" Thickened Primary Slu	·	32 27-Sep-2023	9-Nov-2023		stall & Test 6" Thickened Primary Sludge Line D.I.
	SUPP1030	Install & Test 6" Thickened Blended "A	-	30 13-Nov-2023	26-Dec-2023		nstall & Test 6" Thickened Blended "A" Sludge Line D.I.
	SUPP1040	Install & Test 6" Thickened Blended "I	B " Sludge Line D.I.	30 27-Dec-2023	8-Feb-2024		Install & Test 6" Thickened Blended "B " Sludge Line D.I.
	Site Water Lines	<u></u>	·	547 9-Mar-2023	21-May-2025		▼ 21-May-2025, Site Water Lines
	Remaining Level of Effort	Actual Work Critica	l Remaining Work	Page 5 of 27			
	Actual Level of Effort	Remaining Work ◆ ◆ Milest	one	-			

	Activity Name	Original Start Duration	Finish		2022 2023	2024	2025		2027 2028	
				QQ	Q Q3 Q Q Q Q Q Q				2 Q4 Q Q C	2 Q
SUWL1000	Exc. Water and Fire Lines	20 9-Mar-2023	6-Apr-2023		☐ Exc. Water	1 1 1	the state of the state of			
SUWL1010	Install Water and Fire Lines	20 10-Apr-2023	5-May-2023		□ Install Wa	i i i	i i i i			
SUWL1020	Test and Backfill Water and Fire lines	20 8-May-2023	5-Jun-2023		☐ Test and	Backfill V	/ater and Fire li			
SUWL1030	Install Utilities at Thickener Bldg After Backfill (C40-037)	70 10-Feb-2025	21-May-2025	_				Jtilities at Thickene	, Y , , ,	1,
SUPP1050	Install Utilities at IPS After Backfill (C40-042)	50 13-Feb-2025	28-Apr-2025	;				tilities at IPS After B		
Site Power & Comm. Duc	<u> </u>	735 25-May-2022	12-May-2025	4	V			y-2025, Site Power	& Comm. Ducto	anks, I
SUCD1070	UT1 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	10 25-May-2022	8-Jun-2022	_	Ⅱ UT1 Ductbank & Site I	10 10	1 1 1 1 1 1			
SUCD1080	UT5-1 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 9-Jun-2022	30-Jun-2022		■ UT5-1 Ductbank & Si					
SUCD1090	UT5-2 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 1-Jul-2022	22-Jul-2022	_	■ UT5-2 Ductbank & S					
SUCD1100	UT5-3 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 25-Jul-2022	12-Aug-2022		■ UT5-3 Ductbank & :					
SUCD1110	UT5-4 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 15-Aug-2022	6-Sep-2022	_	■ UT5-4 Ductbank &					
SUCD1120	UT5-5 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 7-Sep-2022	27-Sep-2022		■ UT5-5 Ductbank 8	1 1	1 - 1 1			
SUCD1130	UT5-6 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	20 28-Sep-2022	25-Oct-2022		□ UT5-6 Ductbank	1 1 1				
SUCD1140	UT5-7 Ductbank - Exc,Install,FRP, Backfill	15 26-Oct-2022	16-Nov-2022		□ UT5-7 Ductbanl	1 1 1	1 1 1 1			
SUCD1150	UT5-8 Ductbank - Exc,Install,FRP, Backfill	15 17-Nov-2022	8-Dec-2022		■ UT5-8 Ductban					
SUCD1160	UT6 Ductbank - Exc,Install,FRP, Backfill	10 9-Dec-2022	22-Dec-2022		■ UT6 Ductbank	1 1 1				
SUCD1170	UT7 Ductbank - Exc,Install,FRP, Backfill	10 23-Dec-2022	9-Jan-2023		□ UT7 Ductbanl	k - Exc,Ins	stall,FRP, Backfi			
SUCD1180	UT8-1 Ductbank - Exc,Install,FRP, Backfill	10 10-Jan-2023	24-Jan-2023		UT8-1 Ductba	ank - Exc	Install,FRP, Bac	kfill		
SUCD1190	UT8-2 Ductbank - Exc,Install,FRP, Backfill	10 25-Jan-2023	7-Feb-2023		I UT8-2 Ductb	ank - Exc	Install,FRP, Bad	:kfill		
SUCD1240	Site Lighting East & South of Borrow Pit - Exc,Install,FRP, Backfill	20 8-Feb-2023	8-Mar-2023		☐ Site Lighting	East & S	outh of Borrow	Pit - Exc,Install,FRF	, Backfill	
SUCD1200	UT2 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 13-Feb-2025	6-Mar-2025				UT2 Duc	bank & Site Ligthin	g - Exc,Install,FR	P, Bac
SUCD1210	UT3A Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 7-Mar-2025	28-Mar-2025	1			■ UT3ADı	ictbank & Site Ligth	ing - Exc,Install,F	RP, B
SUCD1220	UT3B Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 31-Mar-2025	21-Apr-2025				D UT3B C	uctbank & Site Ligt	hing - Exc,Install	,FRP, E
SUCD1230	UT4 Ductbank & Site Ligthing - Exc,Install,FRP, Backfill	15 22-Apr-2025	12-May-2025	1			UT4 D	uctbank & Site Ligth	ing - Exc,Install,F	FRP, B
Auger Cast Pile, Sub & Supe	<u>-</u>	770 11-May-2022	18-Jun-2025	4	V			ın-2025, Auger Cas	st Pile, Sub & Sur	ວer-Str
AUTS1000	Mobilize, Install Anchor & Load Test Piles	5 9-Aug-2022	15-Aug-2022		I Mobilize, Install Anch	nor & Loa	d Test Piles			
AUTS1010	Perform Load Test 7 days after Test Pile Installation	10 16-Aug-2022	30-Aug-2022		Perform Load Test	1 1				
IPS/Blower - Elevation -10		100 9-Feb-2023	6-Jul-2023			1 1		on -10.5' MSL Pad		
IPSBLW1040	Prep, Concrete/Gravel Base for Slab Work	30 9-Feb-2023	23-Mar-2023		☐ Prep, Conc			Work		
IPSBLW1050	FRP -10.5 Base Slab & Cure	35 10-Mar-2023	1-May-2023		☐ FRP-10.5	Base Sla	ab & Cure			
IPSBLW1060	FRP Lower Walls & Columns On -10.5 Slab	60 11-Apr-2023	6-Jul-2023		FRP Lo	wer Walls	s & Columns Or	ı -10.5 Slab		
IPSBLW1070	FRP Equipment Pads & & Conc. Slope Fills	15 15-Jun-2023	6-Jul-2023				Pads & & Conc	Slope Fills		
IPSBLW1090	Install 42" PE D.I. Wall Sleeves	5 29-Jun-2023	6-Jul-2023			1 1 1	. Wall Sleeves			
IPSBLW1100	Install 96" RCP Wall Sleeves	5 29-Jun-2023	6-Jul-2023		I Install 9	1 1 1	Vall Sleeves			
IPS/Blower-Elevation+2		407 3-Nov-2022	26-Jun-2024	4			+ +	Blower- Elevation -	-+	
	vation +2.5' MSL Level	355 3-Nov-2022	11-Apr-2024	4	V	1 1	1 1 1 1	wer North- Elevation	n +2.5' MSL Lev	el
IPSBLW1000	Install Auger Cast Pile North	14 3-Nov-2022	23-Nov-2022	_	□ Install Auger Ca					
IPSBLW1020	Excavate & Pile Cutoff N. Slab	24 25-Nov-2022	29-Dec-2022		☐ Excavate & Pile	1 1 1	1 1 1 1			
IPSBLW1160	Prep, Concrete/Gravel Base for N. Slab Work	25 3-Oct-2023	6-Nov-2023	_			the state of the state of	e for N. Slab Work		
IPSBLW1190	FRP +2.5 North Base Slab & Cure	30 7-Nov-2023	20-Dec-2023	1	<u> </u>		North Base Slal			.
IPSBLW1220	FRP Walls & Columns North +2.5 Level	45 21-Dec-2023	27-Feb-2024			1 1 1	The state of the state of	North +2.5 Level		
IPSBLW1240	Cure & Backfill +2.5' to +14.5' N. IPS/ Blower	30 28-Feb-2024	11-Apr-2024			: : :		+14.5' N. IPS/ Blo		
	vation +2.5' MSL Level	70 22-Jun-2023	2-Oct-2023	4		1 (1 1 1 1	e- Elevation +2.5' N		
IPSBLW1080	Shore, FRP W/ W.S. Structural Slab @ 2.5 Over -10.5	25 22-Jun-2023	27-Jul-2023					Slab @ 2.5 Over -1	0.5	
IPSBLW1110	FRP Wetwell Walls 2nd Lift	35 7-Jul-2023	25-Aug-2023				Valls 2nd Lift			
IPSBLW1120	FRP Raised Slab over 42" PE & Stairwell Walls	15 21-Jul-2023	10-Aug-2023		I FRP F	Raised Sla	h over 42" PF	& Stairwell Walls		1

	NSEL PHELPS Build. Manage.	Sand Island WWTP Secondar	ry irea	atment (Pha	se 1) - FINAL	RID SCHED(ULE Data Date: 11-Aug-20	Z1
	Activity Name		Original Duration	Start	Finish	2022	2023 2024 2025 2026 2027	2028
						Q Q Q Q3 Q	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Q Q Q Q
IPSBLW1130	FRP Columns & Corbels on C & D Lir	ne to 16.0' Elevation		28-Jul-2023	17-Aug-2023		☐ FRP Columns & Corbels on C & D Line to 16.0' Elevation	
IPSMEP1270	Install Slide Gate - SLG 4100A			21-Aug-2023	25-Aug-2023		I Install Slide Gate - SLG 4100A	
IPSMEP1280	Install Stop Log - SL 4100A			28-Aug-2023	1-Sep-2023		I Install Stop Log - SL 4100A	
IPSBLW1150	Prepare & Water Test Wetwell		20	5-Sep-2023	2-Oct-2023		☐ Prepare & Water Test Wetwell	
	evation +2.5' MSL Level			30-Nov-2022	26-Jun-2024	-	26-Jun-2024, IPS/Blower South- Elevation +2.	5' MSL Level
IPSBLW1010	Install Auger Cast Pile South		17	30-Nov-2022	22-Dec-2022	1 ' ' ' '	II Install Auger Cast Pile South	
IPSBLW1030	Excavate & Pile Cutoff S. Slab		26	23-Dec-2022	1-Feb-2023		□ Excavate & Pile Cutoff S. Slab	
IPSBLW1170	Prep, Concrete/Gravel Base for S. Sla	ab Work	25	3-Oct-2023	6-Nov-2023		□ Prep, Concrete/Gravel Base for S. Slab Work	
IPSBLW1210	FRP +2.5 South Base Slab & Cure		30	21-Dec-2023	5-Feb-2024		☐ FRP +2.5 South Base Slab & Cure	
IPSBLW1250	FRP Walls & Columns South +2.5 Lev	vel	62	28-Feb-2024	28-May-2024		FRP Walls & Columns South +2.5 Level	
IPSBLW1320	Cure & Backfill +2.5' to +14.5' S. IPS/	Blower	20	29-May-2024	26-Jun-2024	7	☐ Cure & Backfill +2.5' to +14.5' S. IPS/ Blower	
IPS/Blower-Elevation+1	6.0' MSL		389	21-Aug-2023	13-Mar-2025		▼ 13-Mar-2025, IPS/Blower- Elevation	-16.0' MSL
IPS/Blower North-Ele	evation +16.0' MSL Level		82	12-Apr-2024	8-Aug-2024		8-Aug-2024, IPS/Blower North- Elevation +16	.0' MSL Level
IPSBLW1290	FRP North IPS Str. Slab @ +16.0 Afte	r Backfill (9200sf)	25	12-Apr-2024	16-May-2024		□ FRP North IPS Str. Slab @ +16.0 After Backfill (92	200sf)
IPSBLW1310	FRP Col. & Walls @ Stair, Gen. & FP	Rms (Lower Lift to 27.0')	25	29-May-2024	3-Jul-2024		☐ FRP Col. & Walls @ Stair, Gen. & FP Rms (Low	er Lift to 27.0'
IPSBLW1340	FRP IPS/Blower Fuel Storage Pad		25	5-Jul-2024	8-Aug-2024		FRP IPS/Blower Fuel Storage Pad	
IPS/Blower Central Co	ore-Elevation +16.0' MSL Level		65	21-Aug-2023	21-Nov-2023		21-Nov-2023, IPS/Blower Central Core- Elevation +16.0	O' MSL Level
IPSBLW1140	FRP Columns & Corbels on C & D Lir	ne to +25.5' Elevation	15	21-Aug-2023	11-Sep-2023		FRP Columns & Corbels on C & D Line to +25,5' Elevation	
IPSBLW1180	FRP Wetwell Walls 3rd Lift		35	3-Oct-2023	21-Nov-2023		☐ FRP Wetwell Walls 3rd Lift	
IPS/Blower South-Ele	evation +16.0' MSL Level		70	27-Jun-2024	7-Oct-2024		▼ 7-Oct-2024, IPS/Blower \$outh- Elevation +	16.0' MSL Lev
IPSBLW1350	FRP South IPS Str. Slab @ +16.0 After	er Backfill	20	27-Jun-2024	25-Jul-2024		FRP South IPS Str. Slab @ +16.0 After Backfill	
IPSBLW1370	FRP Col. & Walls @ Stair, Storage Rr		50	26-Jul-2024	7-Oct-2024	1	FRP Col. & Walls @ Stair, Storage Rm & Ele	evators (Lowe
Exterior Diesel & Fou	Il Air Structures +16 Level North of BLW Building	, ,	20	13-Feb-2025	13-Mar-2025		▼ 13-Mar-2025, Exterior Diesel & Foul A	ir Structures +
IPSBLW1410	Install Auger Cast Pile for FA & Diesel			13-Feb-2025	20-Feb-2025		I Install Auger Cast Pile for FA & Diesel F	Pads
IPSBLW1420	Excavate & Cutoff Piles @ FA & Diese		5	21-Feb-2025	27-Feb-2025		Il Excavate & Cutoff Piles @ FA & Diese	l Pads
IPSBLW1430	FRP Pads for FA & Diesel Equipment			28-Feb-2025	13-Mar-2025	1		
IPS/Blower-Elevation +2				22-Nov-2023	3-Feb-2025		→ 3-Feb-2025, IPS/Blower- Elevation +27	7.0' MSL
IPS/Blower North-Ele	evation +27.0' MSL Level			5-Jul-2024	4-Dec-2024		4-Dec-2024, IP\$/Blower North- Elevation	+27.0' MSL L
IPSBLW1330	FRP North IPS Str. Slab @ +27.0 @	Electrical Rm & Roof	20	5-Jul-2024	1-Aug-2024		□ FRP North IPS Str. Slab @ +27.0 @ Electrica	IRm & Roof
IPSBLW1360	FRP Col. & Walls @ Stair, Gen. & Ele	ct. Rms (Upper Lift to 42.0')	40	8-Oct-2024	4-Dec-2024		FRP Col. & Walls @ Stair, Gen. & Elect. F	Rms (Upper Lif
IPS/Blower Central Co	ore-Elevation +27.0' MSL Level		80	22-Nov-2023	19-Mar-2024		19-Mar-2024, IPS/Blower Central Core- Elevation	+27.0' MSL Le
IPSBLW1200	Shore, FRP Central Core IPS Str. Sla	b @ +27.0' TALL SHORING	40	22-Nov-2023	22-Jan-2024		Shore, FRP Central Core IPS Str. Slab @ +27.0 TAL	LSHORING
IPSBLW1230	FRP Central Core Walls & Parapets A	Above Elevation +27.0'	30	23-Jan-2024	5-Mar-2024	1	☐ FRP Central Core Walls & Parapets Above Elevation	n +27.0'
IPSBLW1260	FRP Roof Curbs & Pads over Wetwe	II @ Elevation +27.0	10	6-Mar-2024	19-Mar-2024		I FRP Roof Curbs & Pads over Wetwell @ Elevation	+27.0
IPS/Blower South-Ele	evation +27.0' MSL Level		80	8-Oct-2024	3-Feb-2025		→ 3-Feb-2025, IPS/Blower South- Elevati	on +27.0! MSL
IPSBLW1390	FRP South IPS Str. Slab @ +27.0 Blo	wer, Office, Lab & Roof	35	8-Oct-2024	26-Nov-2024		FRP South IPS Str. Slab @ +27.0 Blower,	Office, Lab &
IPSBLW1440	FRP Col. & Walls @ Blower, Office & I	Lab Rms(Upper Lift to 42.0')	40	5-Dec-2024	3-Feb-2025	1	FRP Col. & Walls @ Blower, Office & La	ab Rms(Uppei
IPS/Blower-Roof Elevati			319	6-Mar-2024	18-Jun-2025		▼ 18-Jun-2025, IPS/Blower+ Roof E	levation +43.0
	of Elevation +43.0' MSL Level			5-Dec-2024	12-May-2025		12-May-2025, IPS/Blower North- R	1 1 1 1
IPSBLW1380	FRP North IPS Roof Str. Slab @ +43.	0		5-Dec-2024	3-Jan-2025		□ FRP North IPS Roof Str. Slab @ +43.0	
IPSBLW1400	FRP IPS North Roof Stair Walls & Par			4-Feb-2025	2-Apr-2025	1	FRP IPS North Roof Stair Walls & Pa	rapet
IPSBLW1450	FRP IPS North Stair Roof Str. Slab & \$	Sunshades	20	3-Apr-2025	1-May-2025	1	☐ FRP IPS North Stair Roof Str. Slab &	& Sunshades
IPSBLW1460	FRP IPS North Stair Roof Parapet Wa			2-May-2025	12-May-2025	1		1 1 1 1
	ore-Roof Elevation +43.0' MSL Level			6-Mar-2024	2-May-2024		2-May-2024, IPS/Blower Central Core- Roof Elev	
IPSBLW1270	Shore, FRP Central Core IPS Roof S	tr. Slab @ +43.0'		6-Mar-2024	27-Mar-2024		☐ Shore, FRP Central Core IPS Roof Str. Slab @ +43	
IPSBLW1280	FRP Central Core Roof Parapets Wa	-		28-Mar-2024	11-Apr-2024	1	I FRP Central Core Roof Parapets Walls Above Ele	
IPSBLW1300	·	bel for Str. Steel Near +43.0' Elevation		12-Apr-2024	2-May-2024	<u> </u>	FRP Central Core Sun Shades & Corbel for Str. S	1 1 1 1
Remaining Level of Effort I	Actual Work Critica Remaining Work ◆ Milest	I Remaining Work	Pag	e 7 of 27				

	Activity Name		Original		Finish	2022 2023 2	2024 2025 2026 2027 2028
			Duration				22 Q Q Q Q Q Q4 Q Q Q Q Q Q Q Q Q Q Q Q
	oof Elevation +43.0' MSL Level			4-Feb-2025	18-Jun-2025		18-Jun-2025, IPS/Blower South- Roof Eleva
IPSBLW1470	FRP South IPS Roof Str. Slab @ +43.0			4-Feb-2025	4-Mar-2025		☐ FRP South IPS Roof Str. Slab @ +43.0
IPSBLW1480	FRP IPS South Roof Stair & Elevator Wa	•	20	3-Apr-2025	1-May-2025		☐ FRP IPS South Roof Stair & Elevator Walls & F
IPSBLW1490	FRP IPS South Stair & Elevator Roof Str.			2-May-2025	6-Jun-2025		□ FRP IPS South Stair & Elevator Roof Str. Slal
IPSBLW1500	FRP IPS South Stair & Elevator Roof Par	rapet Walls		9-Jun-2025	18-Jun-2025		FRP IPS South Stair & Elevator Roof Parape
	Distribution Structure +2.5' MSL Pad to Roof			8-Sep-2022	6-Oct-2023		-2023, Fine Screen Process & Distribution Structure +2.5 MSI
	in & Base Slab Structure			8-Sep-2022	4-Nov-2022		& FSD Foundatin & Base \$lab Structure
FSSTR1000	Install Auger Cast Pile Fine Screen			8-Sep-2022	16-Sep-2022	I Install Auger Cast Pil	
FSSTR1010	Excavate & Pile Cutoff Fine Screen Area			19-Sep-2022	30-Sep-2022	© Excavate & Pile Cuto	
FSSTR1020	Prep, Concrete/Gravel Base for Fine Scr	een Slab Work		3-Oct-2022	14-Oct-2022		avel Base for Fine Screen Slab Work
FSSTR1030	FRP +2.5 Fine Screen Slab & Cure			17-Oct-2022	4-Nov-2022	□ FRP +2.5 Fine Scre	
Fine Screen Proces				7-Nov-2022	6-Oct-2023		-2023, Fine \$creen Process Structure Area
FSSTR1050	FRP Stair & FS Tank Walls @ '1' & '2' Lin	e to +8.75		7-Nov-2022	29-Nov-2022		ank Walls @ '1' & '2' Line to +8.75
FSSTR1080	FRP FS Tank Slab @ +10.25			14-Dec-2022	22-Dec-2022	II FRP FS Tank Sla	
FSSTR1090	FRP Stair & FS Tank Walls to +18.5			23-Dec-2022	31-Jan-2023		Tank Walls to +18.5
FSSTR1120	Install & Test 72" Flanged Pipe Between		10	1-Feb-2023	14-Feb-2023		2" Flanged Pipe Between Walls @ '2' Line
FSSTR1240	Prep, Test Influent Box for 72" Pipe Conn	nection to Tank (Low Water)	10	15-Feb-2023	1-Mar-2023	□ Prep, Test Influ	uent Box for 72" Pipe Connection to Tank (Low Water)
FSSTR1130	Backfill Chambers @ 72" Pipe		5	2-Mar-2023	8-Mar-2023	I Backfill Chamb	bers @ 72" Pipe
FSSTR1140	Shore, FRP Bms & Slabs Under FS Wall	s @ +20.5'	20	9-Mar-2023	6-Apr-2023	☐ Shore, FRP E	Bms & Slabs Under FS Walls @ +20.5'
FSSTR1150	FRP Fine Screen Tank Walls to +25.5		15	10-Apr-2023	28-Apr-2023	☐ FRP Fine Sc	creen Tank Walls to +25.5
FSSTR1170	FRP FS & Stair Walls to +30.5' & +32'		25	6-Jun-2023	12-Jul-2023	□ FRPFS8	& Stair Walls to +30.5' & +32'
FSSTR1180	Shore, FRP +32' Str. Slab @ FS & Stairw	/ell	25	13-Jul-2023	16-Aug-2023	☐ Shore, F	FRP +32' Str. Slab @ FS & Stairwell
FSSTR1190	FRP Stair & Parapet Walls Above +32'		15	17-Aug-2023	8-Sep-2023	☐ FRP St	tair & Parapet Walls Above +32'
FSSTR1210	Prep, Test Fine Screen Tank & Channels			17-Aug-2023	15-Sep-2023	□ Prep.T	Test Fine Screen Tank & Channels
FSSTR1200	Shore, FRP Stair Roof Slab, Sun Shade			11-Sep-2023	6-Oct-2023		e, FRP Stair Roof Slab, Sun Shade & Parapet Walls @ +43'
FSSTR1220	Fine Screen Area Ready for Backfill & Co	· · · · · · · · · · · · · · · · · · ·	0		15-Sep-2023		creen Area Ready for Backfill & Coatings
Fine Screen Effluent			162	7-Nov-2022	5-Jul-2023		23, Fine Screen Effluent Distribution Area
FSSTR1040	FRP Walls Columns @ Influent Dist. Cha	nnel to +16' & Tank to +10'		7-Nov-2022	13-Dec-2022		nns @ Influent Dist. Channel to +16' & Tank to +10'
FSSTR1060	Cure, Backfill Walls Under FS Dist. Tank			30-Nov-2022	13-Dec-2022		lls Under FS Dist. Tank to +8.75
FSSTR1070	Shore, FRP Dist. Tank Slab @ +11.25			14-Dec-2022	28-Dec-2022		. Tank Slab @ +11.25
FSSTR1100	FRP Walls On Top of +11.25 Dist. Tank S	slab to +16'		29-Dec-2022	9-Jan-2023		op of +11.25 Dist. Tank Slab to +16'
FSSTR1160	Shore, FRP Roof Slabs @ +27'	10		1-May-2023	5-Jun-2023		P Roof Slabs @ +27'
FSSTR1110	Shore, FRP Struct. Dist. Channel Slab @) +18'		16-May-2023	14-Jun-2023		RP Struct. Dist. Channel Slab @ +18'
FSSTR1230	Prep, Test Distribution Tank & Channel	,		6-Jun-2023	5-Jul-2023		st Distribution Tank & Channel
FSSTR1250	Distribution Box & Channel Ready for Co	patings	0	3 55 2020	5-Jul-2023		on Box & Channel Ready for Coatings
Process Reactor +2.5'			333	19-Sep-2022	22-Jan-2024		2-Jan-2024, Process Reactor +2.5' MSL Pad
PR Foundation & Bas				19-Sep-2022	15-May-2023		23, PR Foundation & Base Slab Structure
PRSTR1000	Install Auger Cast Pile PR Area			19-Sep-2022	2-Nov-2022	Install Auger Cast F	- - - -
PRSTR1010	Excavate & Pile Cutoff PR Area			3-Nov-2022	18-Jan-2023	Excavate & Pile	
PRSTR1020	Install , Test, Conc Encase 12" PVC Drain	n Pipe @ -2.25		19-Dec-2022	2-Mar-2023		onc Encase 12" PVC Drain Pipe @ +2.25
PRSTR1030	Prep, Concrete/Gravel Base for PR Slab			19-Jan-2023	31-Mar-2023		ete/Gravel Base for PR Slab Work
PRSTR1040	FRP +2.5 PR Base Slab & Cure			16-Feb-2023	15-May-2023		PR Base Slab & Cure
PR Tank Walls				16-Feb-2023	21-Nov-2023		Nov-2023, PR Tank Walls
PRSTR1050	Fabricate Wall Forms for PR Channels			16-Feb-2023	16-Mar-2023		Il Forms for PR Channels
PRSTR1060	FRP Channel #1 Walls to +18' & +27' Str	: Slab		24-Mar-2023	17-Apr-2023		el #1 Walls to +18' & +27' Str. Slab
PRSTR1070	FRP Channel #2 Walls to +18' & +27' Str			18-Apr-2023	8-May-2023		nel #2 Walls to +18' & +27' Str. Slab
		·	10	p. 2020	Ja, 2020		

	Build. Manage. Activity Name	Original	Start	Finish	2022 2023	2024 2025 2026 2027 2028
_		Duration				
PRSTR1080	FRP Channel #1 Walls	50	18-Apr-2023	28-Jun-2023	☐ FRP.Cr	annel #1 Walls
PRSTR1090	FRP Channel #3 Walls to +18' & +27' Str. Slab	15	9-May-2023	30-May-2023		annel#3 Walls to +18! & +27! Str. Slab
PRSTR1100	FRP '4' Line Upper Wall +18' to +27' Channel #1	15	15-Jun-2023	6-Jul-2023	□ FRP'4'	Line Upper Wall +18 to +27 Channel #1
PRSTR1110	FRP Channel #2 Walls	50	29-Jun-2023	11-Sep-2023		Channel #2 Walls
PRSTR1120	FRP '4' Line Upper Wall +18' to +27' Channel #2	15	7-Jul-2023	27-Jul-2023		Line Upper Wall +18' to +27' Channel #2
PRSTR1130	FRP '4' Line Upper Wall +18' to +27' Channel #3	15	28-Jul-2023	17-Aug-2023	□ FRP'	4' Line Upper Wall +18' to +27' Channel #3
PRSTR1140	FRP Channel #3 Walls	50	12-Sep-2023	21-Nov-2023		RP Channel #3 Walls
PR Structure @ +2			12-Sep-2023	22-Jan-2024		22-Jan-2024, PR Structure @ +27"
PRSTR1150	Shore, FRP +27' Str. Slab Between Channels #1 & #2	20	12-Sep-2023	9-Oct-2023		ore, FRP +27' Str. Slab Between Channels #1 & #2
PRSTR1160	Prep, Test PR Channel #1	20	10-Oct-2023	6-Nov-2023		ep, Test PR Channel #1
PRMEP1320	Install Flap Gates	5	31-Oct-2023	6-Nov-2023		fall Flap Gates
PRSTR1170	PR Channel #1 Ready for Coatings	0		6-Nov-2023		Channel #1 Ready for Coatings
PRMEP1460	Install Influent Slide Gates - SLG 4301 A/B, 4302 A/B, 4303	3 AB (5) 10	7-Nov-2023	21-Nov-2023		stall Influent Slide Gates - SLG 4301 A/B, 4302 A/B, 4303 AB (5)
PRSTR1180	Prep, Test PR Channel #2	20	7-Nov-2023	6-Dec-2023		rep, Test PR Channel #2
PRMEP1390	Install Effluent Slide Gates - SLG 4301, 4302, 4303 C-F (1	,	22-Nov-2023	6-Dec-2023		stall Effluent Slide Gates - SLG 4301, 4302, 4303 C+F (12)
PRSTR1190	Shore, FRP +27' Str. Slab @ Channel #3	20	22-Nov-2023	20-Dec-2023		Shore, FRP +27' Str. Slab @ Channel #3
PRSTR1200	PR Channel #2 Ready for Coatings	0		6-Dec-2023		R Channel#2 Ready for Coatings
PRSTR1210	Prep, Test PR Channel #3	20	21-Dec-2023	22-Jan-2024		Prep, Test PR Channel #3
PRSTR1220	PR Channel #3 Ready for Coatings	0		22-Jan-2024	_	PR Channel #3 Ready for Coatings
MBR Tanks +2.5' MSL Pad to Roof Structure			3-Nov-2022	6-Mar-2025	<u> </u>	6-Mar-2025, MBR Tanks +2.5 MSL Pad to Roof
	Base Slab Structure		3-Nov-2022	19-May-2023		2023, MBR Foundation & Base Slab Structure
MBRSTR1000	J.		3-Nov-2022	19-Dec-2022	■ Install Auger Ca	
MBRSTR1020			19-Jan-2023	22-Feb-2023		Pile Cutoff MBR Slab
MBRSTR1030	• '		23-Feb-2023	6-Apr-2023		orete/Gravel Base for MBR Slab Work
MBRSTR1060			10-Apr-2023	19-May-2023		MBR Base Slab & Cure
MBR Channel Walk			8-May-2023	26-Feb-2024		' 26-Feb-2024, MBR Channel Walls
MBRSTR1080	·		8-May-2023	2-Aug-2023		1BR Channel Walls 1, 2 & 3 to +27'
MBRSTR1110	·		3-Aug-2023	27-Oct-2023		PMBR Channel Walls 4, 5 & 6 to +27
MBRSTR1120			3-Aug-2023	16-Aug-2023		FRP Str. Slab CH. 1, 2 & 3 on 8.1 Line @ +14.5
MBRSTR1150	· · · · · · · · · · · · · · · · · · ·		17-Aug-2023	31-Aug-2023		CH. 1, 2 & 3 Walls on +14.5' Slab on 8.1 Line
MBRSTR117(30-Oct-2023	26-Jan-2024		FRP MBR Channel Walls 7, 8 & 9 to +27'
MBRSTR1180			30-Oct-2023	13-Nov-2023		ore, FRP Str. Slab CH. 4, 5 & 6 on 8.1 Line @ +14.5'
MBRSTR1200	·		14-Nov-2023	28-Nov-2023		RP CH. 4, 5 & 6 Walls on +14.5' Slab on 8,1 Line
MBRSTR1250			29-Jan-2024	9-Feb-2024		Shore, FRP Str. \$lab CH. 7 8 & 9 on 8.1 Line @ +14.5
MBRSTR1270	·		12-Feb-2024	26-Feb-2024		FRP CH. 7, 8 & 9 Walls on +14.5' Slab on 8 1 Line
MBR Sloping Slab (3-Aug-2023	18-Mar-2024		▼ 18-Mar-2024, MBR Sloping Slab @ +/-14'
MBRSTR1130			3-Aug-2023	24-Aug-2023		Il Formsaver Dowels, FRP Channels 1, 2 & 3 Tank Slabs
MBRSTR1160 MBRSTR1210	·		25-Aug-2023	8-Sep-2023		ackfill MBR Channels 4, 5 & 6
	·		14-Nov-2023	5-Dec-2023		nstall Formsaver Dowels, FRP Channels 4, 5 & 6 Tank Slabs
MBRSTR1220	·		6-Dec-2023	19-Dec-2023		Backfill MBR Channels 7, 8 & 9
MBRSTR1280			12-Feb-2024	4-Mar-2024		
MBRSTR1330	·		5-Mar-2024	18-Mar-2024	<u> </u>	Install Formsaver Dowels, FRP Channels 7, 8 & 9 Tank Slabs
MBR Structure to + MBRSTR1230			20-Dec-2023	28-Aug-2024	<u> </u>	28-Aug-2024, MBR Structure to +27 Shore, FRP Str. Slab +27' Utility Corridor Between F & G Line
MBRSTR1350			20-Dec-2023 19-Mar-2024	11-Jan-2024 10-Apr-2024		Shore, FRP Str. Slab +27' Utility Corridor Between J & KiLine
MBRSTR1390			31-May-2024	28-Jun-2024		Prep & Water Test MBR Channels 1, 2 & 3
IVIDRO IR 1390	riep α vvaler restrict Charmers 1, 2 α 3		31-Way-2024	20-Jul1-2024		□ 1 Tep α vvalet test iviDi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

	Plan. B	uild. Manage.	10:: 10::	Finish		.00	0000 0004 0005 0000 0000
)		Activity Name	Original Start Duration	Finish		22	2023 2024 2025 2026 2027 2028
	MDDCTD4450	During O Marton Took MDD Chammala A. F. O. C.		20. 1.1.0004		Q3 Q	0 Q
	MBRSTR1450 MBRSTR1460	Prep & Water Test MBR Channels 4, 5 & 6	20 1-Jul-2024 0 1-Jul-2024	29-Jul-2024	-		MBR Channels 1, 2 & 3 Ready For Coatings
		MBR Channels 1, 2 & 3 Ready For Coatings		27 Aug 2024	1		□ Prep & Water Test MBR Channels 7,8 & 9
	MBRSTR1490	Prep & Water Test MBR Channels 7, 8 & 9	20 30-Jul-2024	27-Aug-2024	-		MBR Channels 4, 5 & 6 Ready For Coatings
	MBRSTR1500	MBR Channels 4, 5 & 6 Ready For Coatings	0 30-Jul-2024		-		◆ MBR Channels 7, 8 & 9 Ready For Coatings
	MBRSTR1550 MBR Roof Structural St	MBR Channels 7, 8 & 9 Ready For Coatings	0 28-Aug-2024 130 28-Aug-2024	6-Mar-2025			
	MBRSTR1620	Install Platform on Channels for Overhead Work	10 28-Aug-2024	11-Sep-2024			Install Platform on Channels for Overhead Work
	MBRSTR1480	Pre-Assemble Steel Roof Trusses	20 12-Sep-2024	9-Oct-2024	1		☐ Pre-Assemble Steel Roof Trusses
	MBRSTR1540	Set Columns & Brace Frames	10 10-Oct-2024	23-Oct-2024	1		Set Columns & Brace Frames
	MBRSTR1560	Set & Brace Roof Trusses	10 24-Oct-2024	6-Nov-2024	1		Set & Brace Roof Trusses
	MBRSTR1570	Set Bridge Crane Rails & Allign	5 7-Nov-2024	14-Nov-2024			■ Set Bridge Crane Rails & Allign
	MBRSTR1580	Plumb & Boltup Roof Structure (Ready for Bridge Crane)	15 15-Nov-2024	6-Dec-2024	1		Plumb & Boltup Roof Structure (Ready for Bridge Crane)
	MBRSTR1590	Set Bridge Crane & Protect	5 9-Dec-2024	13-Dec-2024	1		I Set Bridge Crane & Protect
	MBRSTR1600	Install Metal Decking	10 16-Dec-2024	30-Dec-2024	-		Install Metal Decking
	MBRSTR1610	Final Inspection & Signoff Steel Canopy	5 31-Dec-2024	7-Jan-2025	-		Final Inspection & Signoff Steel Canopy
	MBRSTR1630	Paint Steel & Install MEP R.I. & Trim & Remove Temp. Platform	40 8-Jan-2025	6-Mar-2025			□ Paint Steel & Install MEP R.I. & Trim & Remove Temp. F
		g +2.5 Pad to Roof Structure	450 20-Dec-2022	11-Oct-2024			11-Oct-2024, MBR Service & Gallery Bldg +2.5 Pad to Roof
	MBR Serv. & Gall. Bldg +		108 20-Dec-2022	26-May-2023		J	▼ 26-May-2023, MBR Serv. & Gall. Bldg +2.5 MSL Pad
	MBRSTR1010	Install Auger Cast Pile MBR Service & Gallery	11 20-Dec-2022	5-Jan-2023			■ Install Auger Cast Pile MBR Service & Gallery
	MBRSTR1040	Excavate & Pile Cutoff MBR Service & Gallery Slab	20 23-Feb-2023	22-Mar-2023	1		☐ Excavate & Pile Cutoff MBR Service & Gallery Slab
	MBRSTR1050	Prep, Concrete/Gravel Base for MBR Service & Gallery Slab Work	20 23-Mar-2023	21-Apr-2023			☐ Prep, Concrete/Gravel Base for MBR Service & Gallery Slab Work
	MBRSTR1070	FRP +2.5 MBR Service & Gallery Base Slab & Cure	25 24-Apr-2023	26-May-2023			☐ FRP +2.5 MBR \$ervice & Gallery Base \$lab & Cure
	FRP Walls to +13' MBR	·	180 15-May-2023	2-Feb-2024			2-Feb-2024, FRP Walls to #13"MBR Serv & Gall.
	MBRSTR1090	FRP Peri. & Int. Walls MBR Serv. & Gallery from +2.5' to +13'	20 15-May-2023	13-Jun-2023			☐ FRP Peri. & Int. Walls MBR Serv. & Gallery from +2.5' to +13'
	MBRSTR1100	FRP Columns MBR Serv. & Gallery from +2.5' to +13'	12 22-May-2023	7-Jun-2023	1		FRP Columns MBR Serv. & Gallery from +2.5' to +13'
	MBRSTR1140	FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 1, 2 & 3	5 3-Aug-2023	9-Aug-2023	1		I FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 1,2 & 3
	MBRSTR1190	FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 4, 5 & 6	5 30-Oct-2023	3-Nov-2023			I FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 4, 5 & 6
	MBRSTR1260	FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 7, 8 & 9	5 29-Jan-2024	2-Feb-2024	1		I FRP Lower Walls @ MBR End Wet Well @ 10 Line Channels 7,8 &
	MBR Serv. & Gall. Struc		70 12-Jan-2024	24-Apr-2024			24-Apr-2024, MBR Serv. & Gall. Structure @ +15'
	MBRSTR1240	Shore, FRP +12' & +15' Struct. Slab @ MBR Gallery & Serv. Bldg	25 12-Jan-2024	16-Feb-2024			☐ Shore, FRP +12' & +15' Struct, Slab @ MBR Gallery & Serv. Bldg
	MBRSTR1290	FRP Peri. & Int. Walls MBR Serv. & Gallery from +15' to +25.5'	30 20-Feb-2024	3-Apr-2024	1 : :		☐ FRP Peri. & Int. Walls MBR Serv. & Gallery from +15 to +25.5
	MBRSTR1300	FRP Columns MBR Serv. & Gallery from +15' to +25'	6 20-Feb-2024	27-Feb-2024			I FRP Columns MBR Serv. & Gallery from +15' to +25'
	MBRSTR1310	FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 1, 2 & 3	5 20-Feb-2024	26-Feb-2024	1		I FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 1, 2 &
	MBRSTR1320	FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 4, 5 & 6	5 27-Feb-2024	4-Mar-2024	1 : :		I FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 4, 5 8
	MBRSTR1340	FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 7,8 & 9	5 5-Mar-2024	11-Mar-2024	1		I FRP Upper Walls @ MBR End Wet Well @ 10 Line Channels 7, 8 &
	MBRSTR1360	Shore, FRP +20.5 Str. Slab @ Tunnel Connection	10 4-Apr-2024	17-Apr-2024			1 Shore, FRP +20.5 Str. Slab @ Tunnel Connection
	MBRSTR1370	FRP Walls From +20.5 to 25.5" Near Tunnel Connection	5 18-Apr-2024	24-Apr-2024			I FRP Walls From +20.5 to 25.5" Near Tunnel Connection
	MBR Serv. & Gall. Struc	ture @+27'	55 25-Apr-2024	15-Jul-2024			15-Jul-2024, MBR Serv. & Gall. Structure @ +27
	MBRSTR1380	Shore, FRP Level +27' Struct. Slab @ MBR Gallery & Serv. Bldg	25 25-Apr-2024	30-May-2024			Shore, FRP Level +27' Struct. Slab @ MBR Gallery & Serv. Bldg
	MBRSTR1400	FRP Peri. & Int. Walls MBR Serv. & Gallery from 27' to +41' & +42'	30 31-May-2024	15-Jul-2024			FRP Peri. & Int. Walls MBR Serv. & Gallery from 27' to +41' & +4
	MBRSTR1410	FRP Columns MBR Serv. & Gallery from +27' to +42'	5 31-May-2024	6-Jun-2024			I FRP Columns MBR Serv. & Gallery from +27' to +42'
	MBRSTR1420	FRP Equipment Pads @ MBR Serv. +27' Level	7 31-May-2024	10-Jun-2024			■ FRP Equipment Pads @ MBR Serv. +27' Level
	MBRSTR1430	Prep &Water Test MBR Serv. Bldg Effluent Tanks	20 31-May-2024	28-Jun-2024			□ Prep &Water Test MBR Serv. Bldg Effluent Tanks
	MBRSTR1440	MBR Serv. Building Tanks Ready for Coatings	0	28-Jun-2024			◆ MBR Serv. Building Tanks Ready for Coatings
	MBR Serv. & Gall. Struc	ture @ +43'	50 16-Jul-2024	25-Sep-2024			25-Sep-2024, MBR Serv. & Gall. Structure @ +43'
	MBRSTR1470	Shore, FRP Level +43' Struct. Slab @ MBR Gallery & Serv. Bldg	20 16-Jul-2024	12-Aug-2024			□ Shore, FRP Level +43' Struct. Slab @ MBR Gallery & Serv. Blo

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		Activity Name		Original Start Duration	Finish	2022 2023	2024 2025 2026 2027 2028 2
	MODOTO (540		0 (10) 50		25.0		
	MBRSTR1510	FRP Parapet Stairwell Walls @ MBR	Serv. from +43' to +53'	30 13-Aug-2024	25-Sep-2024		FRP Parapet Stairwell Walls @ MBR Serv. from +43' to +53'
	MBR Serv. & Gall. Stru MBRSTR1520		obrow @ MPD Son, Pldg @ ±54'	12 26-Sep-2024 7 26-Sep-2024	11-Oct-2024 4-Oct-2024	_	 ▼ 11-Oct-2024, MBR Serv. & Gall Structure @ +54 I Shore, FRP Stairwell Roof Slab & Eyebrow @ MBR Serv. Bld.
	MBRSTR1530	Shore, FRP Stairwell Roof Slab & Eye FRP MBR Serv Bldg Stairwell Roof P		5 7-Oct-2024	11-Oct-2024	\dashv \vdash \vdash \vdash \vdash \vdash \vdash \vdash	FRP MBR Serv Bldg Stairwell Roof Parapet Walls Above +54
L		nt Channel +2.5 MSL Pad	arapet walls Above +34	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 insta	allation	5 16-May-2022	20-May-2022	l Prepare Pad for Auger	
	UTEC1010	Install Auger Cast Pile for the +2.5 MS		15 18-Jan-2023	7-Feb-2023		Cast Pile for the +2.5 MSL Slab
	UTEC1020	Excavate & Cut off Pile	52 Glab	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 MSI	45 8-Jan-2024	12-Mar-2024		I FRP & Cure Utility Tunnel Base at +2.5 MSL
	UTEC1050	FRP & Cure Lower Utility Pipe Walls &		45 23-Jan-2024	27-Mar-2024		■ FRP & Cure Lower Utility Pipe Walls & Columns
	UTEC1060	FRP Effluent Channel Str. Floor	a columnic	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 Pine Roof Structure	45 6-Mar-2024	9-May-2024		Shore FRP & Cure Effluent Channel & Utility Pipe Roof Structure
	UTEC1090	FRP Parapet Walls	a carry i por cor or dotter	45 20-Mar-2024	23-May-2024		FRP Parapet Walls
		uent Channel +2.5 MSL Pad		623 23-May-2022	22-Nov-2024		22-Nov-2024, Utility Tunnel Without Effluent Channel +2.5 M
	UTUN1000	Prepare Pad for Auger Cast Pile insta	allation	15 23-May-2022	14-Jun-2022	☐ Prepare Pad for Auge	
	UTUN1020	Install Auger Cast Pile for the +2.5 MS		43 8-Feb-2023	12-Apr-2023		er Cast Pile for the +2.5 MSL Slab
	UTUN1030	Excavate & Cut off Pile		35 2-Mar-2023	21-Apr-2023	□ Excavate	
	UTUN1040	Install & Grade Gravel Sub-base		25 10-Apr-2023	12-May-2023		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	7	FRP & Cure Utility Pipe Walls
	UTUN1070	Shore FRP & Cure Utility Pipe Roof S	Structure	125 10-May-2024	7-Nov-2024	7	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 N
	EFTN1000	Prepare Pad for Auger Cast Pile insta	allation	3 11-May-2022	13-May-2022	Prepare Pad for Auger	
	EFTN1010	Install Auger Cast Pile for the +10 MS		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 a	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	7	☐ Shore FRP & Cure Effluent Channel Roof Structure
	EFTN1070	FRP Parapet Walls		30 25-Nov-2024	8-Jan-2025	7	☐ 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		-2023, Thickener- Elevation +2.5' MSL Basement
		Elevation +2.5' MSL - Basement		86 6-Jan-2023	11-May-2023		2023, Thickener/North - Elevation +2.5 MSL - Basement
		Install Auger Cast N. Slab Area		13 6-Jan-2023	25-Jan-2023		Cast N. Slab Area
		Excavate & Pile Cutoff N. Slab Area		3 26-Jan-2023	30-Jan-2023		Pile Cutoff N. Slab Area
		Prep, Concrete/Gravel Base for N. S	lab Work	8 31-Jan-2023	9-Feb-2023		ete/Gravel Base for N. Slab Work
		FRP -0.5 North Base Slab & Cure		10 10-Feb-2023	24-Feb-2023	; ; ; ; ; ; ; ; ;	orth Base Slab & Cure
		FRP +2.5 North Main Slab & Cure		20 27-Feb-2023	24-Mar-2023		North Main Slab & Cure
		FRP Col. & Walls +2.5 Level		12 28-Mar-2023	13-Apr-2023		& Walls +2.5 Level
		Cure Walls +2.5' to +16'		20 14-Apr-2023	11-May-2023		lls +2.5' to +16'
		Elevation +2.5' MSL - Basement		111 26-Jan-2023	7-Jul-2023	h	023, Thickener/South - Elevation +2.5' MSL - Basement
) Install Auger Cast Piles South		15 26-Jan-2023 4 16-Feb-2023	15-Feb-2023 22-Feb-2023		Cast Piles South
		Excavate & Pile Cutoff S. Slab					Pile Cutoff \$. Slab

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	Activity Name	Original Start Duration	Finish	2022	2023	2024 2025 2026 2027 2028 2
				Q Q Q Q3		
	Prep, Concrete/Gravel Base for S. Slab Work	10 23-Feb-2023	8-Mar-2023	_		crete/Gravel Base for S. Slab Work
	FRP +2.5 South Slab & Cure	20 28-Mar-2023	25-Apr-2023			5 South Slab & Cure
	FRP Walls & Columns South +2.5 Level	30 26-Apr-2023	7-Jun-2023			/alls & Columns South +2.5 Level
	Cure Walls +2.5' to +16'	20 8-Jun-2023	7-Jul-2023			Walls +2.5' to +16'
parameter and the second secon	e Tunnel - Elevation +2.5' Basement	103 16-Feb-2023	18-Jul-2023			I-2023, Thickener/Solids Pipe Tunnel - Elevation +2.5 Basement
	Install Auger Cast Piles - Solids Pipe Tunnel	3 16-Feb-2023	21-Feb-2023			er Cast Piles - Sólids Pipe Tunnel
	Excavate & Pile Cutoff S. Slab	1 23-Feb-2023	23-Feb-2023			Rile Cutoff \$. Slab
THRSTR1100	Prep, Concrete/Gravel Base for S. Slab Work	2 9-Mar-2023	10-Mar-2023			crete/Gravel Base for \$. Slab Work
THRSTR1110	FRP -0.5 Tunnel Base Slab & Cure	10 13-Mar-2023	24-Mar-2023			Tunnel Base Slab & Cure
THRSTR1170	FRP +2.5 Tunnel Slab & Cure	20 26-Apr-2023	23-May-2023			.5 Tunnel Slab & Cure
THRSTR1220	FRP Walls Tunnel +2.5 Level	7 8-Jun-2023	19-Jun-2023		■ FRP W	√a∥s Tunnel +2.5 Level
THRSTR1240	Cure Walls +2.5' to + 16' Tunnel	20 20-Jun-2023	18-Jul-2023	\Box	☐ Cure \	Walls +2.5' to +16' Tunnel
Thickener-Elevation +10	6.0' MSL Ground Floor	87 14-Apr-2023	17-Aug-2023			ug-2023, Thickener- Elevation +16.0' MSL Ground Floor
	vation +16.0' MSL - Ground Floor	36 14-Apr-2023	5-Jun-2023			2023, Thickener/North - Elevation +16.0! M\$L - Ground Floor
	Shore, FRP North Thickener Str. Slab @ +16.0	10 14-Apr-2023	27-Apr-2023		1 1 1 1 1 1	RP North Thickener Str. Slab @ +16.0
THRSTR1180	Cure North Thickener Str. Slab @ +16.0	10 28-Apr-2023	11-May-2023		Cure No	orth Thickener Str. Slab @ +16.0
THRSTR1190	FRP Col. & Walls	12 18-May-2023	5-Jun-2023		■ FRP Co	ol.¦& Walls
Thickener/South - Ele	evation +16.0' MSL - Ground Floor	44 8-Jun-2023	10-Aug-2023		▼ 10-A	ug-2023, Thickener/South - Elevation +16.0' MSL - Ground Floor
THRSTR1210	Shore, FRP South Thickener Str. Slab @ +16.0	5 8-Jun-2023	15-Jun-2023		■ Shore,	FRP South Thickener Str. Slab @ +16.0
THRSTR1230	Cure South Thickener Str. Slab @+16.0	10 16-Jun-2023	29-Jun-2023		1 Cure S	South Thickener Str. Slab @+16.0
THRSTR1280	FRP Walls	25 7-Jul-2023	10-Aug-2023		■ FRP	Walls
Thickener/Solids Pipe	e Tunnel-Elevation +16.0' MSL - Ground Floor	42 20-Jun-2023	17-Aug-2023		▼▼ 17-A	aug-2023, Thickener/Solids Pipe Tunnel-Elevation +16.0' MSL - Ground F
· Processor	Shore, FRP Pipe Tunnel Str. Slab @ +14.0	5 20-Jun-2023	26-Jun-2023			, FRP Pipe Tunnel Str. Slab @ +14.0
	FRP Walls @ Tunnel Stair	5 11-Aug-2023	17-Aug-2023		L' L '	Walls @ Tunnel Stair
Thickener-Elevation +29	•	70 21-Aug-2023	29-Nov-2023			29-Nov-2023, Thickener- Elevation +29.0' MSL Second Floor
Thickener/North - Ele	vation +29.0' MSL - Second Floor	55 21-Aug-2023	6-Nov-2023		1 1 1 1 1	-Nov-2023, Thickener/North - Elevation +29.0' MSL - Second Floor
THRSTR1270	Shore, FRP North Thickener Str. Slab @ +29.0	15 21-Aug-2023	11-Sep-2023			ore, FRP North Thickener Str. Slab @ +29.0
THRSTR1300	Cure North Thickener Str. Slab @ +29.0	20 12-Sep-2023	9-Oct-2023		C u	re North Thickener Str. Slab @ +29.0
	FRP Col., Walls, Curbs & Pedestals (to 44.0')	15 10-Oct-2023	30-Oct-2023		■ FF	RP Col., Walls, Curbs & Pedestals (to 44.0')
	Prep, Test Sludge Wetwell	20 10-Oct-2023	6-Nov-2023		1 1 1 1 1	rep, Test Sludge Wetwell
	Sludge Wetwell Ready for Coatings	0	6-Nov-2023			ludge Wetwell Ready for Coatings
	vation +29.0' MSL - Second Floor	55 12-Sep-2023	29-Nov-2023			29-Nov-2023, Thickener/South- Elevation +29.0' MSL - Second Floor
parameters.	Shore, FRP South Thickener Str. Slab @ +29.0	15 12-Sep-2023	2-Oct-2023	-		ore, FRP South Thickener Str. Slab @ +29.0
	Cure South Thickener Str. Slab @ +29.0	20 3-Oct-2023	30-Oct-2023			ure South Thickener Str. Slab @ +29.0
	FRP Walls @ Electrical Rm (to 44.0')	5 31-Oct-2023	6-Nov-2023	$\exists \ \mid \ \mid \ \mid \ \mid$		RP Walls @ Electrical Rm (to 44.0')
	Prep, Test Blend Tanks	20 31-Oct-2023	29-Nov-2023	-		Prep, Test Blend Tanks
	Blend Tanks Ready for Coatings	0	29-Nov-2023	-		Blend Tanks Ready for Coatings
Thickener-Elevation +44	, ,	30 7-Nov-2023	20-Dec-2023			20-Dec-2023. Thickener- Elevation +44.0' MSL Roof
	vation +44.0' MSL - Roof	30 7-Nov-2023 22 7-Nov-2023	8-Dec-2023			8-Dec-2023, Thickener/North - Elevation +44.0 MSL Roof
	Shore, FRP North Thickener Roof Str. Slab @ +44.0'	15 7-Nov-2023	29-Nov-2023			Shore, FRP North Thickener Roof Str. Slab @ +44.0'
	FRP North Roof Parapets Walls Above Elevation +44.0		8-Dec-2023			FRP North Roof Parapets Walls Above Elevation +44.0'
	evation +44.0' MSL - Roof	15 30-Nov-2023	20-Dec-2023			20-Dec-2023, Thickener/South - Elevation +44.0' MSL - Roof
	Shore, FRP South Thickener Roof Str. Slab @ +44.0'	10 30-Nov-2023	13-Dec-2023			Shore, FRP South Thickener Roof Str. Slab @ +44.0'
	FRP South Roof Parapets Above Elevation +44.0'	5 14-Dec-2023	20-Dec-2023			FRP South Roof Parapets Above Elevation +44.0
Thickener-Elevation +5	·	10 21-Dec-2023	5-Jan-2024			5-Jan-2024, Thickener- Elevation +55.0' MSL Stair Roof
	vation +55.0' MSL - Stair Roof	10 21-Dec-2023	5-Jan-2024			5-Jan-2024, Thickener/North - Elevation +55.0' MSL - Stair Roof
	Shore, FRP Stair Roof Str. Slab @ +55.0'	7 21-Dec-2023	2-Jan-2024	7		Shore, FRP Stair Roof Str. Slab @ +55.0'
1111 (011 (1720		7 21 000-2020	_ COLIT LULT			

T tull. Dt	uild. Manage.		Original	Start	Finish	2022 2023	2024 2025 2026 2027 2028 2
	,		Duration				
THRSTR1430	FRP Stair Roof Parapet Walls Above Ele	evation +55.0'	3	3-Jan-2024	5-Jan-2024		FRP Stair Roof Parapet Walls Above Elevation +55.0'
Thickener Bldg Odor Contr				10-Jun-2024	29-Jul-2024		▼▼ 29-Jul-2024, Thickener Bldg Odor Control +16.25 MSL Pad
Thickener Bldg Odor Co	ontrol - Elevation +16.25' MSL		34	10-Jun-2024	29-Jul-2024		▼▼ 29-Jul-2024, Thickener Bldg Odor Control - Elevation +16.25' M
	r Control - Elevation +16.25' MSL - Slab			10-Jun-2024	29-Jul-2024		29-Jul-2024, Thickener Bldg Odor Control - Elevation +16.25' N
	Install Auger Cast Slab Area			10-Jun-2024	21-Jun-2024		Install Auger Cast Slab Area
THODR1010	Excavate & Pile Cutoff Slab Area			24-Jun-2024	26-Jun-2024		l Excavate & Pile Cutoff Slab Area
THODR1020	Prep, Concrete/Gravel Base for Slab W			27-Jun-2024	3-Jul-2024		Prep, Concrete/Gravel Base for Slab Work
THODR1030	FRP +16.25 Slab, trench drain, drain su	ımp		5-Jul-2024	25-Jul-2024		☐ FRP +16.25 Slab, trench drain, drain sump
THODR1040	FRP Pads		2	26-Jul-2024	29-Jul-2024		I FRP Pads
North & South Ramps @ IP				14-Oct-2024	21-Apr-2025		21-Apr-2025, North & South Ramps @ IPS/Blower
RAMP1000	North Ramp- Install Auger Cast Pile			14-Oct-2024	16-Oct-2024		I North Ramp- Install Auger Cast Pile
RAMP1010	North Ramp- Excavate & Pile Cutoff			17-Oct-2024	23-Oct-2024		I North Ramp- Excavate & Pile Cutoff
RAMP1020	South Ramp- Install Auger Cast Pile			17-Oct-2024	21-Oct-2024		I South Ramp- Install Auger Cast Pile
RAMP1030	South Ramp- Excavate & Pile Cutoff			22-Oct-2024	28-Oct-2024		South Ramp- Excavate & Pile Cutoff
RAMP1040	North Ramp-FRP Cont. Foundation Sla			24-Oct-2024	6-Nov-2024		North Ramp- FRP Cont, Foundation Slab
RAMP1050	South Ramp- FRP Cont. Foundation Sla	ab		29-Oct-2024	12-Nov-2024		South Ramp- FRP Cont. Foundation Slab
RAMP1060	North Ramp- FRP Walls		20	7-Nov-2024	6-Dec-2024		■ North Ramp+ FRP Walls
RAMP1070	North Ramp- Cure Walls & Backfill		15	9-Dec-2024	30-Dec-2024		North Ramp- Cure Walls & Backfill
RAMP1080	North Ramp-FRP Ramp Sloping Slab 8	& Walls	20	31-Dec-2024	29-Jan-2025		□ North Ramp- FRP Ramp Sloping Slab & Walls
RAMP1090	South Ramp- FRP Walls		20	30-Jan-2025	27-Feb-2025		□ South Ramp-FRP Walls
RAMP1100	South Ramp- Cure Walls & Backfill		15	28-Feb-2025	20-Mar-2025		□ South Ramp- Cure Walls & Backfill
RAMP1110	South Ramp- FRP Ramp Sloping Slab	& Walls	20	21-Mar-2025	21-Apr-2025		□ South Ramp-FRP Ramp Sloping Slab & Walls
Retaining Walls By#				25-Nov-2022	16-Jan-2025	▼	▼ 16-Jan-2025, Site Retaining Walls By #
	ickener Building) +5.25 MSL			22-Feb-2023	9-May-2024		9-May-2024, Retaining Wall #1 (Near Thickener Building) +5.25 M
RT#1000	RW#1- Install Auger Cast Pile			22-Feb-2023	10-Mar-2023		nstall Auger Cast Pile
RT#1010	RW#1- Excavate & Pile Cutoff			13-Mar-2023	11-Apr-2023	_	Excavate & Pile Cutoff
RT#1020	FRP RW#1 Cont. Foundation			23-Jan-2024	27-Feb-2024		□ FRP RW#1 Cont. Foundation
RT#1030	FRP RT#1 Wall			28-Feb-2024	9-May-2024		FRP RT#1 Wall
	ickener Building) +5.25 MSL			25-Oct-2024	16-Jan-2025		16-Jan-2025, Retaining Wall #2 (Near Thickener Building
RT#21000	RW#2- Install Auger Cast Pile			25-Oct-2024	1-Nov-2024		I RW#2- Install Auger Cast Pile
RT#21010	RW#2- Excavate & Pile Cutoff			4-Nov-2024	18-Nov-2024		I RW#2- Excavate & Pile Cutoff
RT#21020	FRP RW#2 Cont. Foundation			19-Nov-2024	10-Dec-2024		■ FRP RW#2 Cont. Foundation
RT#21030	FRP RT#2 Wall			11-Dec-2024	16-Jan-2025		FRP RT#2 Wall
Retaining Wall #3 (Near Die				25-Nov-2022	4-Apr-2024	1 D/V/#3 lasts	4-Apr-2024, Retaining Wall #3 (Near Diesel Storage)
RT#31000	RW#3- Install Auger Cast Pile			25-Nov-2022	29-Nov-2022	_	avate & Pile Cutoff
RT#31010	RW#3- Excavate & Pile Cutoff			30-Nov-2022	8-Dec-2022 12-Mar-2024	I NVV#3- EXC	.
RT#31020 RT#31030	FRP RW#3 Cont. Foundation FRP RT#3 Wall			28-Feb-2024 13-Mar-2024			FRP RW#3 Cont. Foundation FRP RT#3 Wall
R1#31030 Retaining Wall#4 (Near IP				5-Apr-2024	4-Apr-2024 25-Apr-2024		▼ 25-Apr-2024, Retaining Wall #4 (Near IPS Odor Control Pad)
RT#41000	Install RW#4 MSE Wall w/ Backfill			5-Apr-2024 5-Apr-2024	25-Apr-2024 25-Apr-2024		■ 25-Apr-2024, Retaining Wall#4 (Near IPS Odol Control Pad) □ Install RW#4 MSE Wall w/ Backfill
Retaining Wall#5 (Southwe				23-Dec-2022	30-Aug-2024		30-Aug-2024, Retaining Wall #5 (Southwest of IPS Blower Bld
RT#51000	RW#5- Install Auger Cast Pile			23-Dec-2022	28-Dec-2022	I RW#5-Inst	all Auger Cast Pile
RT#51010	RW#5- Excavate & Pile Cutoff			29-Dec-2022	9-Jan-2023		cavate & Pile Cutoff
RT#51020	FRP RW#5 Cont. Foundation			26-Jul-2024	8-Aug-2024	1	I FRP RW#5 Cont. Foundation
RT#51030	FRP RT#5 Wall			9-Aug-2024	30-Aug-2024	1	□ FRP RT#5 Wall
Retaining Walls 6 Thru 9 @				23-Feb-2024	18-Dec-2024		18-Dec-2024, Retaining Walls 6 Thru 9 @ Road "S" +4.25
RT#61000	RW#6,7, 8, 9 - Install Auger Cast Pile			23-Feb-2024	7-Mar-2024		RW#6,7,8,9 - Install Auger Cast Pile
	, , , , 3	1		e 13 of 27			

		NSEL PHELPS Build. Manage.		Coolinary 110	aurioni (i rio	30 1) 1 IIIVAL	. BID SCHEDULE	Data Date: 11-Aug-2021
)	Ttuii.	Activity Name		Original	Start	Finish	2022 2023	2024 2025 2026 2027 2028 202
				Duration			0 0 0 0 0 0 0 0	
	RT#61010	RW#6, 7, 8, 9 - Excavate & Pile Cuto	off	20	8-Mar-2024	8-Apr-2024		RW#6, 7, 8, 9 - Excavate & Pile Cutoff
	RT#61020	FRP RW#6, 7, 8, 9 - Cont. Foundation			3-Sep-2024	7-Oct-2024	_	FRP RW#6, 7, 8, 9 - Cont. Foundation
	RT#61030	FRP RT#6, 7, 8, 9 - Wall			8-Oct-2024	18-Dec-2024	7	FRP RT#6, 7, 8, 9 - Wall
	Site Backfill & Structure Ba				30-Jun-2023	3-Jun-2025	 	3-Jun-2025. Site Backfill & Structure Backfill
	IPS/Blower - Elevation -1	0.5' MSL Pad			3-Oct-2023	27-Feb-2024		27⊦Feb-2024, IPS/Blower - Elevation:-10.5' MSL Pad
	BCKFIL1060	Backfill North Core Wall After Wet We	ell Tank test to -1.5		3-Oct-2023	23-Oct-2023		Backfill North Core Wall After Wet Well Tank test to -1.5
	BCKFIL1070	Backfill South Core Wall After Wet We	ell Tank test to -1.5	15	3-Oct-2023	23-Oct-2023		Backfill South Core Wall After Wet Well Tank test to -1.5
	BCKFIL1090	Backfill Exterior Walls West Side After	r Wet Well Tank Test	15	6-Feb-2024	27-Feb-2024	7	Backfill Exterior Walls West Side After Wet Well Tank Test
	BCKFIL1100	Backfill 96" PE To Grade		1	6-Feb-2024	6-Feb-2024	7	I Backfill 96" PE To Grade
	IPS/Blower-Elevation+				26-Jul-2024	15-Aug-2024		▼ 15-Aug-2024, IPS/ Blower-Elevation +2.5' MSL Pad
	BCKFIL1180	Backfill IPS/Blower Building & Remov	ve Temporary Shoring		26-Jul-2024	15-Aug-2024		Backfill IPS/Blower Building & Remove Temporary Shoring
	Fine Screen Structure +		, , ,		30-Jan-2025	3-Feb-2025		▼ 3-Feb-2025, Fine Screen Structure +2.5' MSL Pad
	BCKFIL1040	Backfill Fine Screen Structure to Exist	ting Grade		30-Jan-2025	3-Feb-2025		Backfill Fine Screen Structure to Existing Grade
	Process Reactor +2.5'				23-Jan-2024	25-Jan-2024		▼ 25-Jan-2024, Process Reactor +2.5' MSL Pad
	BCKFIL1160	Backfill Outside of the Process React	tor to Existing Grade	3	23-Jan-2024	25-Jan-2024		I Backfill Outside of the Process Reactor to Existing Grade
	MBR Tanks +2.5' MSL P			145	3-Aug-2023	4-Mar-2024		▼ 4-Mar-2024, MBR Tanks +2.5 M\$L Pad
	BCKFIL1110	Backfill MBR Tanks		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	Backfill Outside of the MBR Service E	Building to Existing Grade	3	20-Feb-2024	22-Feb-2024		I Backfill Outside of the MBR Service Building to Existing Grade
	Utility Tunnel Sub-Struct				24-May-2024	6-Feb-2025		6-Feb-2025, Utility Tunnel Sub-Structure +2.5 MSL Pad
	BCKFIL1050	Backfill Utility Tunnel & Effluent Chann	nel	20	24-May-2024	24-Jun-2024		□ Backfill Utility Tunnel & Effluent Channel
	BCKFIL1130	Backfill Utility Tunnel	50 25-Nov-2024 6-Feb-2025	Backfill Utility Tunnel				
Ш	Effluent Tunnel Sub-Stru	ucture +10 MSL Pad		5	24-Dec-2024	31-Dec-2024		▼ 31-Dec-2024, Effluent Tunnel Sub-Structure +10 MSL Pad
	BCKFIL1140	Backfill Effluent Channel		5	24-Dec-2024	31-Dec-2024		I Backfill Effluent Channel
н	Area 46 Thickener Build				30-Jun-2023	13-Feb-2025	<u> </u>	13-Feb-2025, Area 46 Thickener Building
	BCKFIL1080	Backfill Thickener West Elevation for			30-Jun-2023	5-Jul-2023	I Bad	ckfill Thickener West Elevation for Access
	BCKFIL1120	Backfill Thickener North, East, South	Elevations		7-Feb-2025	13-Feb-2025	_	Backfill Thickener North, East, South Elevations
	Area 46A Thickener Blo	<u> </u>			6-Jul-2023	19-Jul-2023	1 9	-Jul-2023, Area 46A Thickener Bldg Odor Control
	BCKFIL1000	Backfill Thickener Building Odor Conf	trol		6-Jul-2023	19-Jul-2023	U Ba	ckfill Thickener Building Odor Control
		Thickener Building) +5.25 MSL			10-May-2024	7-Jun-2024		▼ 7-Jun-2024, Retaining Wall #1 (Near Thickener Building) +5.25 MS
	BCKFIL1170	Cure & Backfill @ Thickner Building V	Vest Side & RT#1			7-Jun-2024		□ Cure & Backfill @ Thickner Building West Side & RT#1
		Thickener Building) +5.25 MSL			17-Jan-2025	7-Feb-2025	_	7-Feb-2025, Retaining Wall #2 (Near Thickener Building)
	BCKFIL1190	Backfill Retaining Wall #2			17-Jan-2025	7-Feb-2025	_	Backfill Retaining Wall #2
	Retaining Wall #3 (Near				30-Jan-2025	12-Feb-2025		▼ 12-Feb-2025, Retaining Wall #3 (Near Diesel Storage)□ Backfill Retaining Wall #3
	BCKFIL1200	Backfill Retaining Wall #3			30-Jan-2025	12-Feb-2025	_	■ 9-May-2024, Retaining Wall #4 (Near IPS Odor Control Pad)
	Retaining Wall #4 (Near BCKFIL1030	Backfill Retaining Wall #4			26-Apr-2024 26-Apr-2024	9-May-2024	-	Backfill Retaining Wall #4 Backfill Retaining Wall #4
	Retaining Wall #5 (South	ū			20-Apr-2024 22-Apr-2025	9-May-2024 5-May-2025	-	▼ 5-May-2025, Retaining Wall #5 (South of IPS Blower B
	BCKFIL1210	Backfill Retaining Wall #5			22-Apr-2025 22-Apr-2025	5-May-2025 5-May-2025	-	Backfill Retaining Wall #5
		@Road "S" +4.25' MSL			6-May-2025	3-Jun-2025	-	■ 3-Jun-2025, Retaining Walls 6 Thru 9 @ Road: "S" +4
	BCKFIL1220	Backfill Retaining Wall #6			6-May-2025	12-May-2025	-	I Backfill Retaining Wall #6
	BCKFIL1230	Backfill Retaining Wall #7			13-May-2025	19-May-2025		Backfill Retaining Wall #7
	BCKFIL1240	Backfill Retaining Wall #8			20-May-2025	27-May-2025		I Backfill Retaining Wall #8
	BCKFIL1250	Backfill Retaining Wall #9			28-May-2025	3-Jun-2025		Backfill Retaining Wall #9
^	rchitectural & MEP Builde	ū			19-Jul-2023	22-Jan-2026		22 Jan 2026 'Archite'ctural & MED Buildout F
A	Area 41 IPS/Blower	Juliby Flocess			3-Oct-2023	22-Jan-2026 22-Dec-2025		
	Basement (-10.5')				3-Oct-2023	27-Sep-2024		22-Dec-2025, Area 41 IPS/Blower 27-Sep-2024, Basement (-10.5')
	Wet Well				3-Oct-2023	28-Dec-2023		▼ 28-Dec-2023, Wet Well
				- 50	3 331 2020	20 200 2020		; _p _, = p = p = p = p = p = p = p = p = p =

IPS	PSMEP1240 PSMEP1250 PSMEP1260 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1110 PSMEP1110	Activity Name Prepare Surface and Coat Wet Well (PC-2) Install 42" PE D.I. Install 14" Foul Air Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs Install 8" SCN D.I. Piping	Original Duration Start Duration Start Duration Start Duration 3-Oct- 10 30-Not 10 14-Dec 28-Ma 20 28-Ma 20 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun- 10 24-Jul 30-Not 3-Oct 3	2023 2 v-2023 1 c-2023 2 ir-2024 2 ir-2024 2 r-2024 2 ir-2024 2 iy-2024 2 iy-2024 3 iy-2024 3 iy-2024 2 iy-2024 6	29-Nov-2023 3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024 24-Jun-2024	Q Q Q Q3	Q Q Q Q Q Q Q2 Prepa Insta In	2024
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	40 3-Oct- 10 30-Nc 10 14-De 126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 10 7-Jun-	v-2023 1 c-2023 2 ir-2024 2 ir-2024 9 r-2024 2 iy-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 3 iy-2024 4 iy-2024 6	3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024	Q Q Q Q3	Prepa I Insta	are Surface and Coat Wet Well (PC-2) III 42" PE D.I. III 14" Foul Air ✓ 27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 30-No 10 14-De 126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	v-2023 1 c-2023 2 ir-2024 2 ir-2024 9 r-2024 2 iy-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 3 iy-2024 4 iy-2024 6	3-Dec-2023 28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024		Prepa I Insta	are Surface and Coat Wet Well (PC-2) III 42" PE D.I. III 14" Foul Air ✓ 27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1250 PSMEP1260 PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1030 PSMEP1050 PSMEP1050 PSMEP1060 PSMEP1060 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 42" PE D.I. Install 14" Foul Air Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 14-De 126 28-Ma 20 28-Ma 20 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun-10 7-Jun-10 7-Jun-	c-2023 2 ir-2024 2 ir-2024 2 r-2024 9 r-2024 2 iy-2024 2 iy-2024 3 iy-2024 2 iy-2024 4 iy-2024 6	28-Dec-2023 27-Sep-2024 25-Apr-2024 23-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024		I Insta	all 14" Foul Air 27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
Pump	PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 10 7-Jun	r-2024 2 r-2024 9 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 3 ry-2024 4 ry-2024 6	27-Sep-2024 25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			27-Sep-2024, Pump Room Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
Pump	PSMEP1000 PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	126 28-Ma 20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 10 7-Jun	r-2024 2 r-2024 9 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 3 ry-2024 4 ry-2024 6	27-Sep-2024 25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1010 PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 28-Ma 10 26-Ap 20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 r-2024 2 r-2024 2 ry-2024 2 ry-2024 2 ry-2024 3 ry-2024 2 ry-2024 4 ry-2024 6	25-Apr-2024 2-May-2024 23-May-2024 23-May-2024 23-May-2024 24-Jun-2024			Prepare Surface and Paint Pump Room Form and Place Pump Pedestal & Equpiment Pads Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1020 PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 ny-2024 2 ny-2024 2 ny-2024 3 ny-2024 2 ny-2024 4 ny-2024 6	23-May-2024 23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Install & Test OH Fire Protection & Standpipe Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 26-Ap 10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	r-2024 2 ny-2024 2 ny-2024 2 ny-2024 3 ny-2024 2 ny-2024 4 ny-2024 6	23-May-2024 23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1030 PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 10-Ma 10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun-	y-2024 2 y-2024 2 y-2024 3 y-2024 2 2024 4 2024 6	23-May-2024 23-May-2024 31-May-2024 24-Jun-2024		0	Set IPS Pumps - PUM 4101, 4102, 4103 Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1040 PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 10-Ma 5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	2 hy-2024 2 hy-2024 2 hy-2024 4 hy-2024 6	23-May-2024 31-May-2024 24-Jun-2024		0	Install Pipe Supports Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1050 PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP11100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Tank Drain Pumps - PUM 4121, 4122 Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	5 24-Ma 20 24-Ma 2 3-Jun 2 5-Jun 10 7-Jun	iy-2024 3 iy-2024 2 -2024 4 -2024 6	31-May-2024 24-Jun-2024			Set Tank Drain Pumps - PUM 4121, 4122
IPS	PSMEP1070 PSMEP1060 PSMEP1080 PSMEP1090 PSMEP11100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install OH Electrical Rough In & Lighting Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	20 24-Ma 2 3-Jun- 2 5-Jun- 10 7-Jun-	y-2024 2 -2024 4 -2024 6	24-Jun-2024			
IPS	PSMEP1060 PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Secondary Scum Pumps - PUM 4131, 4132 Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	2 3-Jun- 2 5-Jun- 10 7-Jun-	-2024 4 -2024 6		1 1 1		Install OH Electrical Rough In & Lighting
IPS	PSMEP1080 PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Set Fine Screen Pumps - PUM 4141, 4142 Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	2 5-Jun 10 7-Jun	-2024 6		T::		Set Secondary Scum Pumps - PUM 4131, 4132
IPS IPS IPS IPS IPS IPS IPS IPS IPS	PSMEP1090 PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 12" D.I. Drain Piping Install 12" SCN D.I. Piping Install Control Panels & VFDs	10 7-Jun		6-Jun-2024	1		Set Fine Screen Pumps - PUM 4141, 4142
IPS IPS IPS IPS IPS IPS IPS IPS IPS	PSMEP1100 PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install 12" SCN D.I. Piping Install Control Panels & VFDs		.2024 ⊥2	21-Jun-2024	1		Install 12" D.I. Drain Piping
IPS IPS IPS IPS IPS IPS IPS IPS	PSMEP1110 PSMEP1120 PSMEP1130 PSMEP1140	Install Control Panels & VFDs	10 24-30		3-Jul-2024	1 1 1 1		I Install 12" SCN D.I. Piping
IPS IPS IPS IPS IPS IPS IPS IPS	PSMEP1120 PSMEP1130 PSMEP1140		20 25-Ju		23-Jul-2024	-		□ Install Control Panels & VFDs
IPS IPS IPS IPS IPS IPS	PSMEP1130 PSMEP1140		5 9-Jul-2		5-Jul-2024			1 Install 8" SCN D.I. Piping
IPS IPS IPS IPS IPS	PSMEP1140				9-Jul-2024	-		I Install 6" EFW D.I. Piping
IPS IPS IPS IPS		Install 6" EFW D.I. Piping	10 16-Ju			-		
IPS IPS IPS		Install 4" EFW D.I. Piping	5 30-Jul		5-Aug-2024	-		I Install 4" EFW D.I. Piping
IPS IPS		Install 4" DRA PVC Piping	5 6-Aug		2-Aug-2024	1 1 1 1 1		I Install 4" DRA PVC Piping
IPS IPS		Install 1 1/2" EFW SS Piping	10 13-Au	•	27-Aug-2024			II Install 1 1/2" EFW SS Piping
IPS		Test Piping	5 28-Au	-	-Sep-2024			Il Test Piping
		Coat Piping / Touchup	2 28-Au	-	29-Aug-2024			I Coat Piping / Touchup
IPS		Install Aluminum Railings, Grating, Ladders	5 30-Au		S-Sep-2024			I Install Aluminum Railings, Grating, Ladders
		Terminate & Test Electrical and Controls	15 5-Sep		25-Sep-2024			Terminate & Test Electrical and Controls
		Install Aluminum Stair 5	5 9-Sep		3-Sep-2024	ļ		I Install Aluminum Stair 5
		Install Aluminum Stair 2	5 16-Se		20-Sep-2024			I Install Aluminum Stair 2
		Seal Concrete Floor	5 23-Se		27-Sep-2024			l Seal Concrete Floor
	ediate Floor (+2.5')		224 26-Ap		20-Mar-2025			20-Mar-2025, Intermediate Floor (+2.5')
	Gallery		224 26-Ap		20-Mar-2025			20-Mar-2025, Pipe Gallery
		Prepare Surface and Paint	20 26-Ap		23-May-2024		 	Prepare Surface and Paint
		Install & Test OH Fire Suppression	15 24-Ma	•	7-Jun-2024			I Install & Test OH Fire Suppression
		Install Pipe Supports & Racks	15 24-Ma		7-Jun-2024			I Install Pipe Supports & Racks
		Install 14"-18" Foul Air PVC Piping	10 18-Ju		-Jul-2024			Install 14"-18" Foul Air PVC Piping
		Install 36" PE D.I. Piping	10 5-Sep		8-Sep-2024			II Install 36" PE D.I. Piping
		Install 72" PE CS Piping	20 19-Se		6-Oct-2024			□ Install 72" PE CS Piping
		Install 30" PASS Piping	15 17-Oc		5-Nov-2024			Install 30" PA SS Piping
IPS	PSMEP1520	Install 16" FLT D.I. Piping, Valves & App	10 7-Nov	-2024 2	21-Nov-2024			□ Install 16" FLT D.I. Piping, Valves & App
IPS	PSMEP1560	Install 12" Drain D.I. Piping	5 22-No		29-Nov-2024			II Install 12" Drain D.I. Piping
IPS	PSMEP1570	Install 12" SSC D.I. Piping	10 2-Dec	-2024 1	3-Dec-2024]		II Install 12" SSC D.I. Piping
IPS	PSMEP1610	Install 8" SW D.I. Piping	10 16-De	c-2024 3	0-Dec-2024			I Install 8" SW D.I. Piping
IPS	PSMEP1630	Install 6" - 10" EFW D.I. Piping & Valves	5 31-De	c-2024 7	′-Jan-2025			I Install 6" - 10" EFW D.I. Piping & Valves
IPS	PSMEP1640	Install 6" Drain D.I. Piping, Meters, Valves	10 8-Jan	2025 2	22-Jan-2025			I Install 6" Drain D.I. Piping, Meters, Valves
IP9	PSMEP1660	Install 4" PASS Piping	10 23-Ja	n-2025 5	5-Feb-2025	1		II Install 4" PASS Piping
		Install 1 1/2" EFW SS Piping	5 6-Feb		2-Feb-2025	1		I Install 1 1/2" EFW SS Piping
IPS		Install Ductwork & Fans	10 13-Fe		7-Feb-2025	1		I Install Ductwork & Fans

T Call. I	Build. Manage.	Orderin all Chart	Timinh	1 2000	2024 2025 2026 2027 2028	
	Activity Name	Original Start Duration	Finish		2024	
IPSMEP1690	Test Piping	5 13-Feb-2025	20-Feb-2025		I Test Piping	
IPSMEP1700	Paint Process Piping	10 21-Feb-2025	6-Mar-2025	1	Paint Process Piping	
IPSMEP1710	Set IPS Pump Crane & Intermediate Floor Equipment Crane	10 28-Feb-2025	13-Mar-2025	1 : : : : : : : : : : :	Set IPS Pump Crane & Intermediate Floor Equipme	
IPSMEP1820	Seal Concrete Floor	5 14-Mar-2025	20-Mar-2025	1	Seal Concrete Floor	
Ground Floor (+16')	Scal Condictor Floor	130 6-Jan-2025	15-Jul-2025		▼ 15-Jul-2025, Ground Floor (+16')	
	05, Corridor 41-04, Stair 1	54 6-Jan-2025	24-Mar-2025		24-Mar-2025, Fuel Pump Room 41-05, Corridor 4	
IPSMEP1770	Paint Walls/Ceilings on Ground Floor	5 6-Jan-2025	10-Jan-2025	7	Paint Walls/Ceilings on Ground Floor	
IPSMEP1830	Install & Test OH Fire Protection	5 13-Jan-2025	17-Jan-2025	7	I Install & Test OH Fire Protection	
IPSMEP1850	Install HVAC Ductwork & Fans	5 21-Jan-2025	27-Jan-2025	7	I Install HVAC Ductwork & Fans	
IPSMEP1880	Install Electrical Rough-in	10 28-Jan-2025	10-Feb-2025	7	Install Electrical Rough-in	
IPSMEP2000	Install (2) Day Tanks	10 11-Feb-2025	25-Feb-2025		I Install (2) Day Tanks	
IPSMEP2010	Install Windows	5 11-Feb-2025	18-Feb-2025	1 : : : : : : : : : :	I Install Windows	
IPSMEP2020	Install Louvers	5 11-Feb-2025	18-Feb-2025	1	I Install Louvers	
IPSMEP2190	Install Outlets and Lighting	5 19-Feb-2025	25-Feb-2025	-	I Install Outlets and Lighting	
IPSMEP2140	Pull and Terminate Electrical	5 26-Feb-2025	4-Mar-2025	1	Pull and Terminate Electrical	
IPSMEP2150	Install Doors and Hardware	5 26-Feb-2025	4-Mar-2025		I Install Doors and Hardware	
IPSMEP2860	Test Electrical and Controls	5 5-Mar-2025	11-Mar-2025		Test Electrical and Controls	
IPSMEP2210		2 21-Mar-2025	24-Mar-2025		Seal Floors & Sealants	
	Seal Floors & Sealants				■ 18-Mar-2025, Storage 41-07	
Storage 41-07 IPSMEP2110	Paint Walls/Ceilings & Sealants	45 13-Jan-2025 5 13-Jan-2025	18-Mar-2025 17-Jan-2025		Paint Walls/Ceilings & Sealants	
					I Install Fire Protection	
IPSMEP1760	Install Fire Protection	5 21-Jan-2025	27-Jan-2025		I Install HVAC Ductwork & Fans	
IPSMEP1810	Install HVAC Ductwork & Fans	5 28-Jan-2025	3-Feb-2025	_		
IPSMEP1940	Install Louvers	5 28-Jan-2025	3-Feb-2025		I Install Louvers	
IPSMEP1930	Install Windows	5 4-Feb-2025	10-Feb-2025		I Install Windows	
IPSMEP1860	Install Electrical Rough-in	10 11-Feb-2025	25-Feb-2025	_{	Install Electrical Rough-in	
IPSMEP1910	Pull and Terminate Electrical	5 26-Feb-2025	4-Mar-2025		Pull and Terminate Electrical	
IPSMEP2030	Install Outlets and Lighting	5 5-Mar-2025	11-Mar-2025	_	I Install Outlets and Lighting	
IPSMEP1920	Install Doors and Hardware	5 12-Mar-2025	18-Mar-2025		I Install Doors and Hardware	
IPSMEP2870	Test Electrical	5 12-Mar-2025	18-Mar-2025		I Test Electrical	
Generator Room 41-0	06	130 6-Jan-2025	15-Jul-2025		▼ 15-Jul-2025, Generator Room 41-06	
IPSMEP2230	Install CMU Walls	20 6-Jan-2025	3-Feb-2025		■ Install CMU Walls	
IPSMEP2820	Paint Walls/Ceilings & Sealants	10 4-Feb-2025	18-Feb-2025		Paint Walls/Ceilings & Sealants	
IPSMEP1750	Install Fire Protection	10 19-Feb-2025	4-Mar-2025		I Install Fire Protection	
IPSMEP1800	Install HVAC Ductwork & Fans	10 5-Mar-2025	18-Mar-2025		I Install HVAC Ductwork & Fans	
IPSMEP1840	Install Electrical Rough-in	15 19-Mar-2025	9-Apr-2025		☐ Install Electrical Rough-in	
IPSMEP1890	Pull and Terminate Electrical	10 10-Apr-2025	24-Apr-2025		Pull and Terminate Electrical	
IPSMEP1900	Install Equipment Pads	10 25-Apr-2025	8-May-2025		Install Equipment Pads	
IPSMEP1980	Install (2) 11.5kV Generators	10 9-May-2025	22-May-2025		I Install (2) 11.5kV Generators	
IPSMEP1990	Install Neutral Ground Resistor (NGR)	5 9-May-2025	15-May-2025		I Install Neutral Ground Resistor (NGR)	
IPSMEP2060	Install Fuel Oil Lines	10 23-May-2025	6-Jun-2025		I Install Fuel Oil Lines	
IPSMEP2070	Install Windows	5 23-May-2025	30-May-2025		I Install Windows	
IPSMEP2080	Install Acoustical Louvers	5 23-May-2025	30-May-2025	7	Install Acoustical Louvers	
IPSMEP2090	Install Platform & Stairway	5 23-May-2025	30-May-2025	7	II Install Platform & Stairway	
IPSMEP2100	Install Generator Exhaust Ductwork	15 23-May-2025	16-Jun-2025	7	☐ Install Generator Exhaust Ductwork	
IPSMEP2130	Install Outlets and Lighting	5 2-Jun-2025	6-Jun-2025	7	I Install Outlets and Lighting	
IPSMEP2180	Terminate Connection Between Gear and Generator	10 9-Jun-2025	23-Jun-2025	T	Terminate Connection Between Gear and Ger	

	A official A laman	Original Start		1 1 2022 1 2022 1		
	Activity Name	Onginal Start Duration	Finish	2022 2023	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	
IPSMEP2200	Install Doors and Hardware	5 17-Jun-2025	23-Jun-2025		I Install Doors and Hardware	
IPSMEP2880	Test Electrical	15 24-Jun-2025	15-Jul-2025		Test Electrical	
Second Floor (+27')	lost Electrical	377 12-Apr-2024	16-Oct-2025		16-Oct-2025, Second Floor (+27')	
Electrical Room 41-10		97 4-Feb-2025	25-Jun-2025		25-Jun-2025, Electrical Room 41-10	
IPSMEP2830	Install CMU Walls	20 4-Feb-2025	4-Mar-2025		□ Install CMU Walls	
IPSMEP1720	Paint Walls	2 5-Mar-2025	6-Mar-2025	7	I Paint Walls	
IPSMEP1790	Install and Test Fire Protection	10 7-Mar-2025	20-Mar-2025	7	I Install and Test Fire Protection	
IPSMEP1740	Install Equipment Pads	5 21-Mar-2025	28-Mar-2025		I Install Equipment Pads	
IPSMEP2120	Install Generator Swgr, Main Swgr, Battery systems - 4011	20 31-Mar-2025	28-Apr-2025	7	☐ Install Generator Swgr, Main Swgr, Battery systems - 40	
IPSMEP1870	Install Electrical Rough-in	10 29-Apr-2025	12-May-2025		Install Electrical Rough-in	
IPSMEP2270	Install Aluminum Grating, Exterior Stairs, and Railings	5 29-Apr-2025	5-May-2025	1	I Install Aluminum Grating, Exterior Stairs, and Rallings	
IPSMEP2260	Install Translucent Wall Panels, doors (3), and overhead door	10 6-May-2025	19-May-2025	1 : : : : : : : : : : :	I Install Translucent Wall Panels, doors (3), and overhea	
IPSMEP1730	Install outlets and lighting	10 13-May-2025	27-May-2025	1	Install outlets and lighting	
IPSMEP1970	Install HVAC and ductwork	10 13-May-2025	27-May-2025		Install HVAC and ductwork	
IPSMEP2900	Pull Electrical Wire & Terminate	10 28-May-2025	10-Jun-2025		Pull Electrical Wire & Terminate	
IPSMEP2250	Test Electrical	10 26-Way-2025	25-Jun-2025		Test Electrical	
Electrical Room 41-11	lest Electrical	135 12-Apr-2024	24-Oct-2024	_	▼ 24-Oct-2024, Electrical Room 41-11	
IPSMEP2840	Install CMU Walls	20 12-Apr-2024	9-May-2024	-	Install CMU Walls	
IPSMEP1330	Install & Test OH Fire Protection	10 10-May-2024	23-May-2024		I Install & Test OH Fire Protection	
IPSMEP1390		·	-		I Install Equipment pads	
	Install Equipment pads Paint Walls	5 24-May-2024	31-May-2024		I Paint Walls	
IPSMEP1340		5 3-Jun-2024	7-Jun-2024			
IPSMEP1590	Install Switchboards, PLC, MCC	30 3-Jun-2024	16-Jul-2024		□ Install Switchboards, PLC, MCC	
IPSMEP1410	Install HVAC and Ductwork	10 10-Jun-2024	24-Jun-2024		II Install HVAC and Ductwork	
IPSMEP1440	Install Electrical Rough-in	10 17-Jul-2024	30-Jul-2024		II Install Electrical Rough-in	
IPSMEP1510	Install Doors, OH Doors, and Hardware	10 17-Jul-2024	30-Jul-2024	4	I Install Doors, OH Doors, and Hardware	
IPSMEP1550	Install Outlets and Lighting	10 31-Jul-2024	13-Aug-2024	_	Install Outlets and Lighting	
IPSMEP1480	Pull and Terminate Electrical	10 14-Aug-2024	28-Aug-2024	_	Pull and Terminate Electrical	
IPSMEP2890	Test Electrical	10 29-Aug-2024	12-Sep-2024	_	Test Electrical	
IPSMEP1650	Install ACT Ceiling	30 13-Sep-2024	24-Oct-2024		□ Install ACT Ceiling	
Restrooms 41-14 & 41-		60 5-Mar-2025	30-May-2025		30-May-2025, Restrooms 41-14 & 41-15	
IPSMEP2300	Install Fire Protection	5 5-Mar-2025	11-Mar-2025	4	I Install Fire Protection	
IPSMEP2310	Install HVAC Ductwork & Exhaust Fan	5 12-Mar-2025	18-Mar-2025		I Install HVAC Ductwork & Exhaust Fan	
IPSMEP2330	Install Electrical Roughin, Pull, Terminate Test	10 19-Mar-2025	2-Apr-2025		Install Electrical Roughin, Pull, Terminate Test	
IPSMEP2360	Install Plumbing (Water & Drain)	10 3-Apr-2025	16-Apr-2025		II Install Plumbing (Water & Drain)	
IPSMEP2440	Install Doors & Hardware	5 17-Apr-2025	24-Apr-2025		I Install Doors & Hardware	
IPSMEP2480	Install Floor & Wall Tile	20 25-Apr-2025	22-May-2025		☐ Install Floor & Wall Tile	
IPSMEP2650	Install Toilet Partitions & Accessories	5 23-May-2025	30-May-2025		I Install Toilet Partitions & Accessories	
	1-17 & Control Station 41-16	67 12-Mar-2025	18-Jun-2025		18-Jun-2025, Break/Meeting Room 41-17 & Control	
IPSMEP2320	Install Fire Protection	5 12-Mar-2025	18-Mar-2025		I Install Fire Protection	
IPSMEP2340	Install Plumbing	5 19-Mar-2025	25-Mar-2025		I Install Plumbing	
IPSMEP2370	Install HVAC Ductwork & Fans	5 27-Mar-2025	2-Apr-2025		I Install HVAC Ductwork & Fans	
IPSMEP2400	Install Electrical Rough-in	10 3-Apr-2025	16-Apr-2025		I Install Electrical Rough-in	
IPSMEP2460	Pull, Test, and Terminate Electrical	10 17-Apr-2025	1-May-2025		Pull, Test, and Terminate Electrical	
IPSMEP2510	Install Doors, OH Doors, and Hardware	5 2-May-2025	8-May-2025		I Install Doors, OH Doors, and Hardware	
IPSMEP2570	Install Framing & Drywall	5 9-May-2025	15-May-2025		I Install Framing & Drywall	
IPSMEP2600	Paint Drywall & Sealants	5 16-May-2025	22-May-2025	7	I Paint Drywall & Sealants	

Plan. Build. Manage. Activity Name	Original Start	Finish	2022 2023 2	2024 2025 2026 2027 2028 2029
,	Duration			
IPSMEP2380 Install Windows	5 20-May-2025	27-May-2025		I Install Windows
IPSMEP2410 Install Outlets and Lighting	5 28-May-2025	3-Jun-2025		Install Outlets and Lighting
IPSMEP2640 Frame Ceiling	5 4-Jun-2025	10-Jun-2025		I Frame Ceiling
IPSMEP2670 Install Office Furniture	5 12-Jun-2025	18-Jun-2025		II Install Office Furniture
Janitor 41-20, Storage 41-19 & Process Lab 41-18	100 19-Mar-2025	12-Aug-2025		12-Aug-2025, Janitor 41-20, Storage 41-19 & Proce
IPSMEP2350 Install Fire Protection	10 19-Mar-2025	2-Apr-2025		I Install Fire Protection
IPSMEP2420 Install Plumbing	10 3-Apr-2025	16-Apr-2025		Install Plumbing
IPSMEP2520 Install HVAC Ductwork & Fans	10 17-Apr-2025	1-May-2025		□ Install HVAC Ductwork & Fans
IPSMEP2530 Install Windows	10 17-Apr-2025	1-May-2025		Install Windows
IPSMEP2610 Install Electrical Rough-in	10 2-May-2025	15-May-2025		Install Electrical Rough-in
IPSMEP2620 Install Outlets and Lighting	10 2-May-2025	15-May-2025		Install Outlets and Lighting
IPSMEP2680 Test and Terminate Electrical	10 16-May-2025	30-May-2025		Test and Terminate Electrical
IPSMEP2720 Install Doors, OH Doors, and Hardware	10 2-Jun-2025	16-Jun-2025		Install Doors, OH Doors, and Hardware
IPSMEP2740 Install Framing & Drywall	10 17-Jun-2025	30-Jun-2025		Install Framing & Drywall
IPSMEP2770 Paint Drywall & Sealants	10 1-Jul-2025	15-Jul-2025		Paint Drywall & Sealants
IPSMEP2780 Frame Ceiling	10 16-Jul-2025	29-Jul-2025		Frame Ceiling
IPSMEP2810 Install Office Furniture	10 30-Jul-2025	12-Aug-2025	7 : : : : : : : : : : :	Install Office Furniture
Blower Room 41-09	155 5-Mar-2025	16-Oct-2025		▼ 16-Oct-2025, Blower Room 41-09
IPSMEP2850 Install CMU Walls	20 5-Mar-2025	2-Apr-2025		☐ Install CMU Walls
IPSMEP1290 Prepare Surface and Paint	10 3-Apr-2025	16-Apr-2025		Prepare Surface and Paint
IPSMEP1310 Place Equipment Pads	10 17-Apr-2025	1-May-2025		Place Equipment Pads
IPSMEP1380 Install Electrical Rough-In & Mount VFDs	10 24-Jun-2025	8-Jul-2025		I Install Electrical Rough-In & Mount VFDs
IPSMEP1430 Install Turbo Blowers - BLW 4101, 4102, 4103 A) 10 9-Jul-2025	22-Jul-2025		I Install Turbo Blowers - BLW 4101, 4102, 4103 A/B (3)
IPSMEP1450 Install Displacement Blowers - BLW 4131, 4132,	1, 4142 5 23-Jul-2025	29-Jul-2025		I Install Displacement Blowers - BLW 4131, 4132, 4141
IPSMEP1320 Install 14" -18" Foul Air FRP Piping	5 30-Jul-2025	5-Aug-2025		I Install 14" -18" Foul Air FRP Piping
IPSMEP1470 Install 30" PA SS Piping	5 6-Aug-2025	12-Aug-2025		II Install 30" PASS Piping
IPSMEP1490 Install 14" PA SS Piping & Valves	5 13-Aug-2025	20-Aug-2025		I Install 14" PASS Piping & Valves
IPSMEP1500 Install 2", 4",8" PASS Piping	5 21-Aug-2025	27-Aug-2025	7	II Install 2", 4",8" PASS Piping
IPSMEP1530 Test Piping	5 28-Aug-2025	4-Sep-2025		I Test Piping
IPSMEP1540 Terminate & Test Power & Control to Instrumenta	and Equipment 15 5-Sep-2025	25-Sep-2025		☐ Terminate & Test Power & Control to Instrumentation
IPSMEP1580 Paint Process Piping	5 26-Sep-2025	2-Oct-2025	7 : : : : : : : : : : :	Paint Process Piping
IPSMEP1600 Install Ductwork	5 3-Oct-2025	9-Oct-2025	7	I Install Ductwork
IPSMEP1620 Install Louvers & Doors	5 10-Oct-2025	16-Oct-2025	7 : : : : : : : : : :	I Install Louvers & Doors
MBR Operation 41-13 & Office Storage 41-12	70 3-Apr-2025	15-Jul-2025		▼ 15-Jul-2025, MBR Operation 41-13 & Office Storage 4
IPSMEP2390 Install Fire Protection	5 3-Apr-2025	9-Apr-2025		Install Fire Protection
IPSMEP2450 Install Plumbing	5 10-Apr-2025	16-Apr-2025		I Install Plumbing
IPSMEP2490 Install HVAC Ductwork & Fans	5 17-Apr-2025	24-Apr-2025		II Install HVAC Ductwork & Fans
IPSMEP2500 Install Windows	5 17-Apr-2025	24-Apr-2025		I Install Windows
IPSMEP2550 Install Electrical Rough-in	5 25-Apr-2025	1-May-2025		I Install Electrical Rough-in
IPSMEP2560 Install Outlets and Lighting	5 25-Apr-2025	1-May-2025	7 : : : : : : : : : :	I Install Outlets and Lighting
IPSMEP2590 Test and Terminate Electrical	10 2-May-2025	15-May-2025		Test and Terminate Electrical
IPSMEP2630 Install Doors, OH Doors, and Hardware	5 16-May-2025	22-May-2025	7	I Install Doors, OH Doors, and Hardware
IPSMEP2660 Install Framing & Drywall	15 23-May-2025	16-Jun-2025		☐ Install Framing & Drywall
IPSMEP2700 Paint Drywall & Sealants	5 17-Jun-2025	23-Jun-2025		Paint Drywall & Sealants
IPSMEP2710 Frame Ceiling	10 24-Jun-2025	8-Jul-2025		I Frame Ceiling
IPSMEP2730 Install Office Furniture	5 9-Jul-2025	15-Jul-2025	7	I Install Office Furniture

		Activity Name	Origina		Finish	2022 2023	2024 2025 2026 2027 2028	
		·	Duration					
	Elevator		55	2-May-2025	22-Jul-2025		▼ 22-Jul-2025, Elevator	
	IPSMEP2430	Install Elevator Hoist Beams	5	2-May-2025	8-May-2025		I Install Elevator Hoist Beams	
	IPSMEP2470	Install Elevator Rails & Platforms	5	9-May-2025	15-May-2025		I Install Elevator Rails & Platforms	
	IPSMEP2540	Install Electrical Rough-In	5	16-May-2025	22-May-2025	7	I Install Electrical Rough-In	
	IPSMEP2580	Install Elevator & Cab Walls	35	23-May-2025	15-Jul-2025		Install Elevator & Cab Walls	
	IPSMEP2750	Install Finishes	5	16-Jul-2025	22-Jul-2025	7	I Install Finishes	
	Roof (44')		128	19-Jun-2025	22-Dec-2025		22-Dec-2025, Roof (44')	
	IPSMEP2690	Cure Concrete Before Roof Application	28	19-Jun-2025	29-Jul-2025		☐ Cure Concrete Before Roof Application	
	IPSMEP2760	Install TPO Roofing	20	17-Oct-2025	14-Nov-2025		□ Install TPO Roofing	
	IPSMEP2790	Install Scuppers, Ladders, Coping	5	17-Nov-2025	21-Nov-2025	7	I Install Scuppers, Ladders, Coping	
	IPSMEP2800	Install PV Panels & Supports	20	24-Nov-2025	22-Dec-2025		☐ Install PV Panels & Supports	
	Area 41 A IPS/Blower Odor C		168	13-Feb-2025	16-Oct-2025		16-Oct-2025, Area 41A IPS/Blower Odor Co	
Γ	Ground Floor (+16')			13-Feb-2025	16-Oct-2025		16-Oct-2025, Ground Floor (+16')	
	IPSMEP1780	Install Equipment Pads	10	13-Feb-2025	27-Feb-2025		Install Equipment Pads	
	IPSMEP1960	Prepare Surface and Traffic Coating	5	14-Mar-2025	20-Mar-2025		Prepare Surface and Traffic Coating	
	IPSMEP2280	Install Biotrickling Filter Tanks - OCU 4161, 4162	10	21-Mar-2025	4-Apr-2025	7	Install Biotrickling Filter Tanks - OCU 4161, 4162	
	IPSMEP2050	Install Foul Air Ductwork Supports	10	6-Aug-2025	20-Aug-2025		I Install Foul Air Ductwork Supports	
	IPSMEP2170	Install 18" - 24" Foul Air Ductwork & Instruments	15	21-Aug-2025	11-Sep-2025		□ Install 18" - 24" Foul Air Ductwork & Instrument	
	IPSMEP2240	Install Foul Air Fans - OCF 4161, 4162		12-Sep-2025	25-Sep-2025		I Install Foul Air Fans - OCF 4161, 4162	
	IPSMEP2290	Install Electrical Rough-In, Terminate, Test	15	26-Sep-2025	16-Oct-2025	7	🗓 Install Electrical Rough-In, Terminate, Test	
_	Area 41B IPS/Blower Fuel St			14-Mar-2025	12-May-2025		12-May-2025, Area 41B IPS/Blower Fuel Storage	
Γ	Ground Floor (+16')			14-Mar-2025	12-May-2025		▼▼ 12-May-2025, Ground Floor (+16')	
	IPSMEP1950	Prepare Surface and Traffic Coating	5	14-Mar-2025	20-Mar-2025		Prepare Surface and Traffic Coating	
	IPSMEP2040	Install Fuel Piping	10	21-Mar-2025	4-Apr-2025	7	Install Fuel Piping	
	IPSMEP2160	Install Fuel Storage Tanks	10	7-Apr-2025	21-Apr-2025		🗓 Install Fuel Storage Tanks	
	IPSMEP2220	Install Electrical Rough-In, Termination, Test	15	22-Apr-2025	12-May-2025	7	 Install Electrical Rough-In, Termination, Test 	
_	Area 42 Fine Screen Structu		245	17-Aug-2023	12-Aug-2024	<mark>-</mark>	12-Aug-2024, Area 42 Fine Screen Structure	
Г	Intermediate Floor (+2.5')			17-Aug-2023	12-Aug-2024		12-Aug-2024, Intermediate Floor (+2.5')	
	FSMEP1310	Install Stop Log - 4303 B (1) & Weirs	5	17-Aug-2023	24-Aug-2023		Stop Log - 4303 B (1) & Weirs	
	FSMEP1320	Install 12" SS Sluice Way	5	25-Aug-2023	31-Aug-2023	I Insta	I 12" SS Sluice Way	
	FSMEP1330	Install Slides Gates & Actuators - SLG4201, 4202, 4203 A/B (6)	10	1-Sep-2023	15-Sep-2023	I Insta	Il Slides Gates & Actuators - SLG4201, 4202, 4203 A/B (6)	
	FSMEP1340	Install Slides Gates & Actuators - SLG 4301, 4302, 4303 B (3)	5	18-Sep-2023	22-Sep-2023	l Insta	II Slides Gates & Actuators - SLG 4301, 4302, 4303 B (3)	
	FSMEP1290	Prepare Surface and Coat	15	25-Sep-2023	13-Oct-2023	0 Pre	pare Surface and Coat	
	FSMEP1300	Install Fine Screens - SCR 4201, 4202 (2)	10	16-Oct-2023	27-Oct-2023	I (ns	tall Fine Screens - SCR 4201, 4202 (2)	
	FSMEP1350	Install Pipe Supports & Racks	10	30-Oct-2023	13-Nov-2023	1 Ins	stall Pipe Supports & Racks	
	FSMEP1360	Install 72" PE CS Piping	10	14-Nov-2023	28-Nov-2023	0 In	stall 72" PE C\$ Piping	
	FSMEP1380	Install 42" RAS D.I. Piping		29-Nov-2023	12-Dec-2023	0 Ir	nstall 42" RAS D.I. Piping	
	FSMEP1390	Install 30" PA SS Piping		13-Dec-2023	27-Dec-2023		nstall 30" PASS Piping	
	FSMEP1400	Install 16" PASS Piping		28-Dec-2023	11-Jan-2024		install 16" PASS Piping	
	FSMEP1410	Install 8" PASS Piping		12-Jan-2024	26-Jan-2024		Install 8" PASS Piping	
	FSMEP1420	Install 8" SCN D.I. Piping		29-Jan-2024	9-Feb-2024		Install 8" SCN D.I. Piping	
	FSMEP1430	Install 4" SW D.I. Piping		12-Feb-2024	26-Feb-2024		Install 4" SW D.I. Piping	
	FSMEP1440	Install 4" EWF D.I. Piping		27-Feb-2024	11-Mar-2024		Install 4" EWF D.I. Piping	
	FSMEP1450	Install 4" - 10" EFW D.I. Piping		12-Mar-2024	18-Mar-2024	_	I Install 4" - 10" EFW D.I. Piping	
	FSMEP1460	Install Small Bore SS / PVC Piping		19-Mar-2024	25-Mar-2024	7	Install Small Bore SS / PVC Piping	
	FSMEP1470	Install Fine Bubble Disk Diffusers		27-Mar-2024	3-Apr-2024	7	Install Fine Bubble Disk Diffusers	
	I GIVILI 1470			LI WIGHTZUZ	0 / WI-2024		F	

rtaii.	Build. Manage. Activity Name	Original Start	Finish	2022 2023	2024 2025 2026 2027 2028
	Activity Name	Duration	Fillisii		QQ2 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
FSMEP1370	Install 6" - 10" Foul Air Piping	10 4-Apr-2024	17-Apr-2024		Install 6" - 10" Foul Air Piping
FSMEP1490	Test Piping	5 18-Apr-2024	24-Apr-2024		I Test Piping
FSMEP1540	Coat Piping	5 25-Apr-2024	1-May-2024	7	I Coat Piping
FSMEP1480	Install Louvers	5 25-Apr-2024	1-May-2024		■ Install Louvers
FSMEP1550	Install Stair & Railings	5 2-May-2024	8-May-2024	\dashv \vdash \vdash \vdash \vdash \vdash \vdash \vdash \vdash	I Install Stair & Railings
FSMEP1500	Install Electrical Rough-In	15 2-May-2024	22-May-2024		Install Electrical Rough-In
FSMEP1560	Install Aluminum Gratings for Trench Drain	·	-		Install Aluminum Gratings for Trench Drain
	·	10 9-May-2024	22-May-2024		Install Flat Aluminum Panel Covers
FSMEP1570	Install Flat Aluminum Panel Covers	10 23-May-2024	6-Jun-2024		
FSMEP1520	Install Lighting	10 23-May-2024	6-Jun-2024		II Install Lighting
FSMEP1580	Install Aluminum Hatches	5 7-Jun-2024	14-Jun-2024	_	I Install Aluminum Hatches
FSMEP1600	Pull Electrical Wire & Terminate	10 7-Jun-2024	21-Jun-2024		Pull Electrical Wire & Terminate
FSMEP1590	Install Traffic Coating & Paint	10 17-Jun-2024	28-Jun-2024		I Install Traffic Coating & Paint
FSMEP1530	Install LCP, PLC & Instrumentation	20 24-Jun-2024	22-Jul-2024		☐ Install LCP, PLC & Instrumentation
FSMEP1610	Test Electrical and Controls	15 23-Jul-2024	12-Aug-2024		Test Electrical and Controls
Area 43 Process Reactor		271 23-Jan-2024	24-Feb-2025		▼ 24-Feb-2025, Area 43 Process Reactor
Ground Floor (+16')		236 23-Jan-2024	2-Jan-2025		2-Jan-2025, Ground Floor (+16')
PRMEP1290	Prepare Surface and Coat	30 23-Jan-2024	5-Mar-2024		■ Prepare Surface and Coat
PRMEP1300	Install Pipe Supports & Weirs	5 25-Apr-2024	1-May-2024		Install Pipe Supports & Weirs
PRMEP1310	Install 30" & 36" RAS D.I. Piping	32 2-May-2024	18-Jun-2024		☐ Install 30" & 36" RAS D.I. Piping
PRMEP1340	Install 16" PASS Piping	20 19-Jun-2024	17-Jul-2024		□ Install 16" PASS Piping
PRMEP1330	Install 6" - 10" EFW D.I. Piping	10 18-Jul-2024	31-Jul-2024		II Install 6" - 10" EFW D.I. Piping
PRMEP1350	Install 8" SW D.I. Piping	10 1-Aug-2024	14-Aug-2024		II Install 8" SW D.I. Piping
PRMEP1360	Install 6" Drain D.I. Piping	5 15-Aug-2024	22-Aug-2024	7	I Install 6" Drain D.I. Piping
PRMEP1370	Install 4" EFW D.I. Piping	5 23-Aug-2024	29-Aug-2024	7	I Install 4" EFW D.I. Piping
PRMEP1380	Install Small Bore Piping & Spray Nozzles	20 30-Aug-2024	27-Sep-2024	7 : : : : : : : : :	☐ Install Small Bore Piping & Spray Nozzles
PRMEP1400	Install Fine Bubble Disk Diffusers	20 30-Sep-2024	25-Oct-2024	7	☐ Install Fine Bubble Disk Diffusers
PRMEP1410	Test Piping	5 28-Oct-2024	1-Nov-2024		I Test Piping
PRMEP1440	Coat Piping	5 4-Nov-2024	8-Nov-2024	\dashv \vdots \vdots \vdots \vdots \vdots \vdots	I Coat Piping
PRMEP1430	Install Electrical Rough-In	10 4-Nov-2024	18-Nov-2024		Install Electrical Rough-In
	·				I Install Lighting & Convenience Recaptagles
PRMEP1470	Install Lighting & Convenience Recaptacles	5 19-Nov-2024	25-Nov-2024	-	
PRMEP1550	Pull Electrical Wire & Terminate	10 26-Nov-2024	10-Dec-2024		Pull Electrical Wire & Terminate
PRMEP1560	Test Electrical & Controls	15 11-Dec-2024	2-Jan-2025	_	Test Electrical & Controls
Second Floor (+27')		75 4-Nov-2024	24-Feb-2025	-	24-Feb-2025, Second Floor (+27)
PRMEP1420	Install Mixers - MXR 4301, 4302 ,4303	10 4-Nov-2024	18-Nov-2024		II Install Mixers - MXR 4301, 4302, 4303
PRMEP1480	Install Inlet Stop Logs - SL 4301 A/B, 4302 A/B, 4303 A (5)	15 4-Nov-2024	25-Nov-2024		Install Inlet Stop Logs - SL 4301 A/B, 4302 A/B, 4303 A (5
PRMEP1490	Install Outlet Stop Logs - SL 4301, 4302, 4303 C-F (12)	20 26-Nov-2024	24-Dec-2024		☐ Install Outlet Stop Logs - \$L 4301, 4302, 4303 C-F (12)
PRMEP1500	Install 6" - 10" Foul Air FRP Piping & Supports	10 26-Dec-2024	9-Jan-2025	4	Install 6" - 10" Foul Air FRP Piping & Supports
PRMEP1570	Install Electrical Rough-In	10 3-Jan-2025	16-Jan-2025	_	Install Electrical Rough-In
PRMEP1510	Install Davit Cranes	5 10-Jan-2025	16-Jan-2025	_	I Install Davit Cranes
PRMEP1520	Install Traffic Coating	10 17-Jan-2025	31-Jan-2025		Install Traffic Coating
PRMEP1580	Pull Electrical Wire & Terminate	10 17-Jan-2025	31-Jan-2025		Pull Electrical Wire & Terminate
PRMEP1530	Install Aluminum Flat Covers	10 3-Feb-2025	14-Feb-2025		I Install Aluminum Flat Covers
PRMEP1590	Test Electrical & Controls	15 3-Feb-2025	24-Feb-2025		☐ Test Electrical & Controls
PRMEP1540	Install Aluminum Railings	5 18-Feb-2025	24-Feb-2025	7	I Install Aluminum Railings
Area 44 MBR Tanks		399 31-May-2024	8-Jan-2026		▼ 8-Jan-2026, Area 44 MBR Tanks
Utility Corridor (+2.5')		151 31-May-2024	8-Jan-2025		▼ 8-Jan-2025, Utility Corridor (+2.5')
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	Plan. B	Build. Manage.	l Control Cont	Tiniak	0000	00 0000 0000 0000 0000
		Activity Name	Original Start Duration	Finish	2022	22 2023 2024 2025 2026 2027 2028 Q3 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
	MBRMEP2040	Install Slide Gates - SLG 4401-4408 (8)	8 31-May-2024	12-Jun-2024		II Install Slide Gates - SLG 4401-4408 (8)
	MBRMEP2050	Install Weir Gates - WG 4311 A/B/C (3)	3 13-Jun-2024	17-Jun-2024	1	I Install Weir Gates - WG 4311 A/B/C (3)
	MBRMEP1460	Install Pipe Supports & Racks	40 18-Jun-2024	13-Aug-2024		Install Pipe Supports & Racks
	MBRMEP1900	Install 36" RAS D.I. Piping	15 14-Aug-2024	5-Sep-2024	$\dashv \mid \mid \mid \mid \mid$	□ Install 36" RAS D.I. Piping
	MBRMEP1960	Install 30" RAS D.I. Piping	15 6-Sep-2024	26-Sep-2024	-	II Install 30" RAS D.I. Piping
	MBRMEP2020	Install 16" PASS Piping	15 27-Sep-2024	17-Oct-2024		☐ Install 16" PASS Piping
	MBRMEP2070	Install 12" SSC D.I. Piping	40 18-Oct-2024	16-Dec-2024	\dashv \vdots \vdots	☐ Install 12" S\$C D.I. Piping
	MBRMEP2030	Install Small Bore Piping	15 17-Dec-2024	8-Jan-2025	-	□ Install Small Bore Piping
	Second Floor (+27')	Install Small Bore Fibring	339 28-Aug-2024	8-Jan-2026		▼ 8-Jan-2026, Second Floor (+27!)
	MBRMEP1290	Prepare Surface and Coat Tanks (9)	60 28-Aug-2024	21-Nov-2024		Prepare Surface and Coat Tanks (9)
	MBRMEP2060	Install Pipe Supports & Racks	40 17-Jul-2025	12-Sep-2025		☐ Install Pipe Supports & Racks
	MBRMEP2090	Install 12" PASS & 16" PER SS Piping	15 15-Sep-2025	3-Oct-2025		☐ Install 12" PASS & 16" PER SS Piping
	MBRMEP2080	Install Cassettes (104)	20 6-Oct-2025	31-Oct-2025		☐ Install Cassettes (104)
	MBRMEP2120	Install Flat Aluminum Covers	10 6-Oct-2025	17-Oct-2025	1 1 1 1	1 Install Flat Aluminum Covers
	MBRMEP2130	Install Traffic Coating	10 20-Oct-2025	31-Oct-2025		I Install Traffic Coating
	MBRMEP2140	Install Louvered Penthouses	10 3-Nov-2025	17-Nov-2025		□ Install Louvered Penthouses
	MBRMEP2100	Install Electrical Rough-In	10 3-Nov-2025	17-Nov-2025	1	I Install Electrical Rough-In
	MBRMEP2170	Final Connection to Cassettes (Ready for Testing)	15 3-Nov-2025	24-Nov-2025		☐ Final Connection to Cassettes (Ready for Te
	MBRMEP2110	Install Aluminum Trench Drain Gratings	5 18-Nov-2025	24-Nov-2025	1	I Install Aluminum Trench Drain Gratings
	MBRMEP2150	Install Aluminum Railing	5 18-Nov-2025	24-Nov-2025		I Install Aluminum Railing
	MBRMEP2160	Install Lighting	10 25-Nov-2025	9-Dec-2025		□ Install Lighting
	MBRMEP2180	Pull Electrical Wire and Terminate	10 10-Dec-2025	23-Dec-2025		Pull Electrical Wire and Terminate
	MBRMEP2190	Test Electrical and Controls	10 24-Dec-2025	8-Jan-2026	-	Test Electrical and Controls
	Area 45 MBR Service Buildir			23-Jul-2025		23-Jul-2025, Area 45 MBR Service Building & G
	Intermediate Floor (+2.5)	ig a cultury		21-Mar-2025		21-Mar-2025, Intermediate Floor (+2.5)
Ìſ	MBRSER1000	Install Equipment Pads	5 13-Aug-2024	20-Aug-2024		Install Equipment Pads
	MBRSER1020	Prepare Surface and Paint	5 21-Aug-2024	27-Aug-2024		I Prepare Surface and Paint
	MBRSER1050	Install Fire Protection	15 28-Aug-2024	18-Sep-2024	1	Install Fire Protection
	MBRSER1700	Test Fire Protection	5 19-Sep-2024	25-Sep-2024	1	Test Fire Protection
	MBRSER1070	Install Electrical Rough-In	15 26-Sep-2024	16-Oct-2024	7 1 1 1	□ Install Electrical Rough-In
	MBRSER1660	Install Lighting	5 17-Oct-2024	23-Oct-2024	T	I Install Lighting
	MBRSER1690	Pull Electrical Wire and Terminate	15 24-Oct-2024	14-Nov-2024	1	☐ Pull Electrical Wire and Terminate
	MBRSER1240	Install OH Doors	10 15-Nov-2024	29-Nov-2024	1	I Install OH Doors
	MBRSER1320	Install Doors & Hardware	5 2-Dec-2024	6-Dec-2024	-	Ⅰ Install Doors & Hardware
	MBRSER1100	Install RAS Pumps - PUM 4501R-4508R (8)	10 9-Jan-2025	23-Jan-2025	1	II Install RAS Pumps - PUM 4501R-4508R (8)
	MBRSER1160	Install 20" - 30" RAS Piping, Meters & Valves	15 24-Jan-2025	13-Feb-2025		□ Install 20" - 30" RAS Piping, Meters & Valves
	MBRSER1010	Install 42" PER SS Piping	5 24-Jan-2025	30-Jan-2025		I Install 42" PER SS Piping
	MBRSER1690	Test Electrical and Controls	5 24-Jan-2025	30-Jan-2025	\dashv \vdash \vdash \vdash	I Test Electrical and Controls
	MBRSER1030	Install Package Water Pumping System - Air Gap Tank &		3-Feb-2025		I Install Package Water Pumping System - Air Gap Tank
	MBRSER1040	Install 16" FLT D.I. Piping	5 4-Feb-2025	10-Feb-2025	1	I Install 16" FLT D.I. Piping
	MBRSER1060	Install 12" SSC D.I. Piping	5 11-Feb-2025	18-Feb-2025		■ Install 12" SSC D.I. Piping
	MBRSER1280	Install Pipe Supports & Rack	10 14-Feb-2025	28-Feb-2025	1	☐ Install Pipe Supports & Rack
	MBRSER1090	Install RAS Pump Bridge Crane	15 19-Feb-2025	11-Mar-2025	1	☐ Install RAS Pump Bridge Crane
	MBRSER1360	Install 12" WAS D.I. Piping	5 3-Mar-2025	7-Mar-2025	\dashv \vdots \vdots	I Install 12" WAS D.I. Piping
	MBRSER1390	Install Small Bore Piping	10 10-Mar-2025	21-Mar-2025		□ Install Small Bore Piping
	MBRSER1200	Install Aluminum Trench Grating	5 12-Mar-2025	18-Mar-2025		I Install Aluminum Trench Grating
	IVIDROEK 1200	install Authinum Trendt Graung	5 12-IVIAI-2025	10-IVIAI-2025		i ilipai/Admillam Hendi Graung

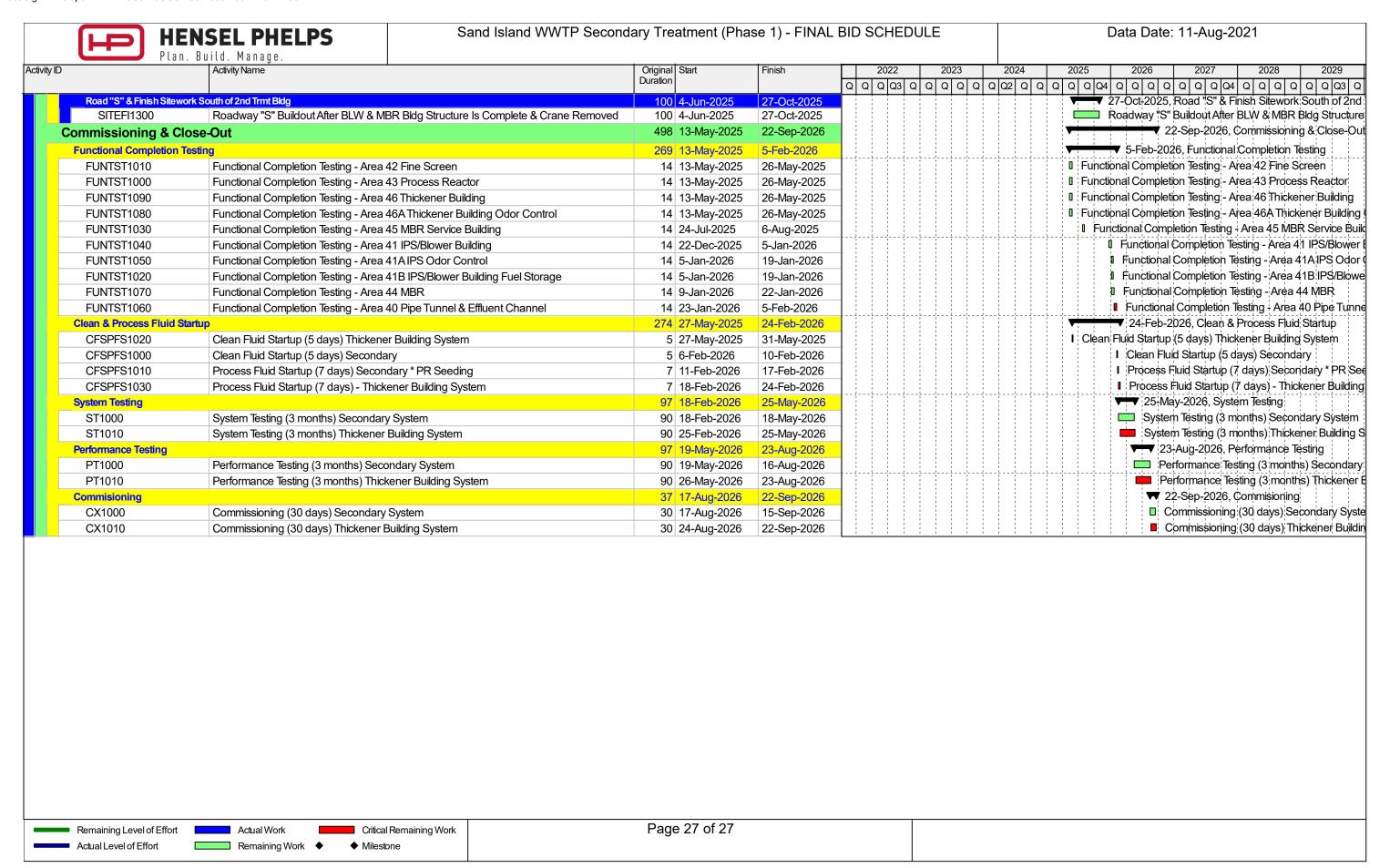
	Activity Name	Original Start	Finish	2022 2023	2024 2025 2026 2027 2028 2		
		Duration	1				
Ground Floor (+16')		194 28-Aug-2024	9-Jun-2025		9-Jun-2025, Ground Floor (+16')		
MBRSER1680	Prepare Surface and Paint	5 28-Aug-2024	4-Sep-2024	7	Prepare Surface and Paint		
MBRSER1080	Install Fire Protection	15 26-Sep-2024	16-Oct-2024	7	🗓 Install Fire Protection		
MBRSER1710	Test Fire Protection	5 17-Oct-2024	23-Oct-2024	7	I Test Fire Protection		
MBRSER1130	Install Equipment Pads	5 24-Oct-2024	30-Oct-2024		I Install Equipment Pads		
MBRSER1110	Install Electrical Rough-In	15 15-Nov-2024	6-Dec-2024	7	□ Install Electrical Rough-In		
MBRSER1670	Install Lighting	5 9-Dec-2024	13-Dec-2024		I 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		I Install OH Doors		
MBRSER1570	Install Doors & Hardware	5 23-Jan-2025	29-Jan-2025		I 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	7	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	7	I Install 42" PER SS Piping		
MBRSER1490	Install 30" PASS Piping	10 23-Apr-2025	6-May-2025		Install 30" PASS Piping		
MBRSER1500	Install 16" PER SS Piping	5 7-May-2025	13-May-2025	_	I Install 16" PER SS Piping		
MBRSER1510	Install Small Bore Piping	10 14-May-2025	28-May-2025	7	I Install Small Bore Piping		
MBRSER1520	Install Weir Gates - WG 4401-4408 (8)	6 29-May-2025	5-Jun-2025		I 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		I Install Chemical Cleaning System PUM 4501-4502		
Second Floor (+27')	inclair of one in ing System on 1001 1002/11/(1)	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	T	I Prepare Surface and Paint		
MBRSER1120	Install Fire Protection	5 24-Oct-2024	30-Oct-2024		I Install Fire Protection		
MBRSER1740	Test Fire Protection	5 31-Oct-2024	6-Nov-2024	7	I 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	7 : : : : : : : :	I Install Lighting		
MBRSER1750	Pull Electrical Wire & Terminate	10 2-Dec-2024	13-Dec-2024		Il Pull Electrical Wire & Terminate		
MBRSER1600	Install OH Doors	5 16-Dec-2024	20-Dec-2024		I 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		I Install Doors & Hardware		
MBRSER1760	Test Electrical and Controls (All Rooms 2nd Floor)	15 21-Feb-2025	13-Mar-2025	7	■ Test Electrical and Controls (All Rooms 2nd Floor)		
MBRSER1540	Install Blowers - BLW 4501-4508 (8)	10 10-Jun-2025	24-Jun-2025		I 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		I Install 16" PER SS Piping		
MBRSER1590	Install 12" PASS Piping	5 10-Jul-2025	16-Jul-2025		I Install 12" PA SS Piping		
MBRSER1650	Install Auto Sampler	5 17-Jul-2025	23-Jul-2025		Install Auto Sampler		
Communication Room 4	·	110 12-Sep-2024	20-Feb-2025		20+Feb-2025, Communication Room 45+08 & Corridor 4		
MBRSER1370	Surface Prep and Paint	5 12-Sep-2024	18-Sep-2024		I 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	7	I Install Electrical Rough-In		
MBRSER1260	Install Ductwork & Fans	10 31-Dec-2024	14-Jan-2025	1	I Install Ductwork & Fans		
MBRSER1770	Pull Electrical Wire & Terminate	10 31-Dec-2024	14-Jan-2025	1	Pull Electrical Wire & Terminate		
MBRSER1310	Install Equipment Pad	10 15-Jan-2025	29-Jan-2025		I Install Equipment Pad		
MBRSER1340	Install PLCs	15 30-Jan-2025	20-Feb-2025		□ Install PLCs		
Electrical Room 45-07	INDUME I LOS	100 19-Sep-2024	12-Feb-2025		12-Feb-2025, Electrical Room 45-07		

	I (all. D)	uild. Manage. Activity Name	Original Start		2022 2023 2024 2025 2026 2027 2028		
		Activity Name	Duration	Finish		23	
	MBRSER1460	Surface Prep and Paint	5 19-Sep-2024	25-Sep-2024		It Surface Prep and Paint	
	MBRSER1150	Install Fire Protection	5 15-Nov-2024	21-Nov-2024		I Install Fire Protection	
	MBRSER1180	Install Electrical Rough-In	5 22-Nov-2024	29-Nov-2024		Install Electrical Rough-In	
	MBRSER1210	Install Equipment Pad	5 2-Dec-2024	6-Dec-2024		I Install Equipment Pad	
	MBRSER1420	Install Lighting	5 2-Dec-2024	6-Dec-2024		I Install Lighting	
	MBRSER1250	Install Switchboard	5 9-Dec-2024	13-Dec-2024		I Install Switchboard	
	MBRSER1780	Pull Electrical Wire & Terminate	10 9-Dec-2024	20-Dec-2024		Pull Electrical Wire & Terminate	
	MBRSER1300	Install VFDs	5 16-Dec-2024	20-Dec-2024		I Install VFDs	
	MBRSER1330	Install MCC	10 23-Dec-2024	7-Jan-2025		Install MCC	
	MBRSER1400	Install OH Doors	5 8-Jan-2025	14-Jan-2025	\dashv \vdots \vdots \vdots \vdots \vdots	I Install OH Doors	
	MBRSER1430	Install Doors & Hardware	5 6-Feb-2025	12-Feb-2025		Install Doors & Hardware	
1	HVAC 45-10	Install Books & Hardware	100 26-Sep-2024	20-Feb-2025		▼ 20-Feb-2025, HVAC 45-10	
	MBRSER1440	Surface Prep and Paint	5 26-Sep-2024	2-Oct-2024		Surface Prep and Paint	
	MBRSER1230	Install Fire Protection	5 22-Nov-2024	29-Nov-2024		I Install Fire Protection	
	MBRSER1270	Install Electrical Rough-In	5 2-Dec-2024	6-Dec-2024		I Install Electrical Rough∔In	
	MBRSER1290	Install Ductwork & Fans	5 9-Dec-2024	13-Dec-2024	\dashv \vdots \vdots \vdots \vdots \vdots	I Install Ductwork & Fans	
	MBRSER1350	Install Lighting	5 16-Dec-2024	20-Dec-2024		I Install Lighting	
	MBRSER1380	Install Access Hatches	5 23-Dec-2024	30-Dec-2024	\dashv \vdots \vdots \vdots \vdots \vdots	I Install Access Hatches	
	MBRSER1790	Pull Electrical Wire & Terminate	10 23-Dec-2024	7-Jan-2025		Pull Electrical Wire & Terminate	
	MBRSER1410	Install Doors & Hardware	5 13-Feb-2025	20-Feb-2025		I Install Doors & Hardware	
	Roof (+44')	Ilistali Dools & Flatuwale	15 14-Oct-2024	1-Nov-2024		▼ 1-Nov-2024, Roof (+44')	
	MBRMEP1660	Install Roof & Drains	15 14-Oct-2024 15 14-Oct-2024	1-Nov-2024		□ Install Roof & Drains	
Ulti	lity Tunnel Sub-Structure	I I Stall I Col & Dialis	297 8-Nov-2024	22-Jan-2026		▼ 22-Jan-2026, Utility Tunnel Sub-Structure	
	TUNMEP1290	Rub & Finish Paint Interior Utility Tunnel Walls	50 8-Nov-2024	23-Jan-2025		Rub & Finish Paint Interior Utility Tunnel Walls	
	TUNMEP1310	Install Piping Support Racks	50 27-Dec-2024	11-Mar-2025		■ Install Piping Support Racks	
	TUNMEP1300	Install Aluminum Stairs & Gratings @ Utility Tunnels	20 24-Jan-2025	21-Feb-2025		☐ Install Aluminum Stairs & Gratings @ Utility Tunnels	
	TUNMEP1320	Install Sump Pumps 4091 & 4092 & Piping	3 24-Feb-2025	26-Feb-2025	\dashv \vdots \vdots \vdots \vdots \vdots	I Install Sump Pumps 4091 & 4092 & Piping	
	TUNMEP1330	Install 12" SSL D.I.	35 12-Mar-2025	1-May-2025		■ Install 12" SSL D.I.	
	TUNMEP1340	Install 8" SW D.I.	35 2-May-2025	23-Jun-2025		Install 8"SW D.II.	
	TUNMEP1350	Install 10" EFW D.I.	35 24-Jun-2025	12-Aug-2025	\dashv \vdots \vdots \vdots \vdots \vdots	■ Install 10" EFW D.I.	
	TUNMEP1360	Install 16" FLT D.I.	35 13-Aug-2025	2-Oct-2025		□ Install 16" FLT D.I.	
	TUNMEP1370	Utility Tunnel Electrical, Lighting & Controls	100 28-Aug-2025	22-Jan-2026	\dashv \vdots \vdots \vdots \vdots \vdots	Utility Tunnel Electrical, Lighting & Controls	
	TUNMEP1380	Install Removable Skylights	40 26-Sep-2025	21-Nov-2025	\dashv \vdots \vdots \vdots \vdots \vdots	Install Removable Skylights	
	fluent Tunnel Sub-Structure		238 24-Dec-2024	9-Dec-2025		9-De¢-2025; Effluent Tunnel Sub-Structure	
	EFFMEP1290	Prepare Surface and Coat	40 24-Dec-2024	21-Feb-2025		Prepare Surface and Coat	
	EFFMEP1300	Install Stop Logs 4000A & 4000B & Slide Gates 4004 &		28-Feb-2025	\dashv \vdots \vdots \vdots \vdots \vdots	I Install Stop Logs 4000A & 4000B & Slide Gates 4004 &	
	EFFMEP1310	Install Traffic Coating	10 25-Nov-2025	9-Dec-2025		I Install Traffic Coating	
	ea 46 Thickener Building	matal frame coating	394 19-Jul-2023	18-Feb-2025		▼ 18-Feb-2025, Area 46 Thickener Building	
	Basement (+2.5')		212 19-Jul-2023	23-May-2024		23-May-2024, Basement (+2.5')	
	Pump Room 46-01		99 14-Dec-2023	8-May-2024		8-May-2024, Pump Room 46-01	
	THRMEP1650	Install Stair 1	5 14-Dec-2023	20-Dec-2023		I Install Stair 1	
	THRMEP1710	Install Fire Protection	5 21-Dec-2023	28-Dec-2023	7	I Install Fire Protection	
	THRMEP1750	Install HVAC Ductwork	5 29-Dec-2023	5-Jan-2024	7	I Install HVAC Ductwork	
	THRMEP1810	Install Electrical Roughin	5 8-Jan-2024	12-Jan-2024		I Install Electrical Roughin	
	THRMEP1850	Install TSL Pump Hoist & Carrying Beams	10 16-Jan-2024	29-Jan-2024	7	■ Install TSL Pump Hoist & Carrying Beams	
	THRMEP1940	Install Progressive Cavity Pumps (PUM 4621, 4622, 46		5-Feb-2024	7	I Install Progressive Cavity Pumps (PUM 4621, 4622, 4623)	
		5, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·	5 55 557 202 1				

U	Plan. Build. Ma	PHELPS nage. Sand Island WW1		•		
	Activity Na		Original Start	Finish	2022 20	023 2024 2025 2026 2027 2028
			Duration		Q Q Q Q3 Q Q	
	THRMEP2010 Install Ce	entrifugal Pump (PUM 4631)	5 6-Feb-2024	12-Feb-2024		I Install Centrifugal Pump (PUM 4631)
	THRMEP2070 Install Su	mp Pumps (PUM 4691, 4692)	2 13-Feb-2024	14-Feb-2024		I Install Sump Pumps (PUM 4691, 4692)
	THRMEP2100 Install Pig	pe Hangers & Supports	5 15-Feb-2024	22-Feb-2024		I Install Pipe Hangers & Supports
		"SSLD.I.	5 23-Feb-2024	29-Feb-2024		I Install 12" SSL D.I.
	THRMEP2200 Install 6"	BLS D.I.	5 1-Mar-2024	7-Mar-2024		I Install 6" BLS D.I.
	THRMEP2240 Install 6"		5 8-Mar-2024	14-Mar-2024		I Install 6" TP\$ D.I.
		TBLS D.I.	5 15-Mar-2024	21-Mar-2024		I Install 6"TBLS D.I.
		TBLS D.I.	3 22-Mar-2024	27-Mar-2024		I Install 4" TBLS D.I.
	THRMEP2310 Install 4"		3 28-Mar-2024	2-Apr-2024		I Install 4" SW D.I.
		nall Bore Seal Water Piping	3 3-Apr-2024	5-Apr-2024		I Install Small Bore Seal Water Piping
		ntrol Panels & Electrical Terminations	10 8-Apr-2024	19-Apr-2024		Install Control Panels & Electrical Terminations
	THRMEP2370 Install Lig		5 22-Apr-2024	26-Apr-2024	-	I Install Lighting
		·	·			I Install Aluminum Trench Grating
		minum Trench Grating	5 29-Apr-2024	3-May-2024		I Install Doors & Hardware
		ors & Hardware	3 6-May-2024	8-May-2024		
	Solids Pipe Tunnel 46-02	fore and Daint Towns	211 19-Jul-2023	22-May-2024		■ 22-May-2024, Solids Pipe Tunnel 46-02 ■ Prep Surface and Paint Tunnel
		face and Paint Tunnel	5 19-Jul-2023	25-Jul-2023	_	
		air 2 (2.5'-16')	10 26-Jul-2023	8-Aug-2023		II Install Stair 2 (2.5-16')
		e Protection Standpipe & Main	10 9-Aug-2023	23-Aug-2023		Install Fire Protection Standpipe & Main
		ectrical Rough-In	5 24-Aug-2023	30-Aug-2023		I Install Electrical Rough-In
		mp Pumps (PUM 4693, 4694)	2 8-Apr-2024	9-Apr-2024		I Install Sump Pumps (PUM 4693, 4694)
		SPD PVC	2 10-Apr-2024	11-Apr-2024		I Install 3" SPD PVC
		" EFW D.I.	5 12-Apr-2024	18-Apr-2024		I Install 10" EFW D.I.
	THRMEP1390 Install 6"	TBLS D.I. & Tie in from Civil	5 19-Apr-2024	25-Apr-2024		I Install 6" TBLS D.I. & Tie in from Civil
	THRMEP1430 Install Alu	minum Trench Grating	5 26-Apr-2024	2-May-2024		Install Aluminum Trench Grating
	THRMEP1470 Install Do	ors & Hardware	5 9-May-2024	15-May-2024		I Install Doors & Hardware
	THRMEP1500 Install Lig	hting	5 16-May-2024	22-May-2024		I Install Lighting
	Sludge Wetwell 10		130 7-Nov-2023	16-May-2024		▼ 16-May-2024, Sludge Wetwell 10
	THRMEP1440 Prep Sui	face and Coat Wetwell	10 7-Nov-2023	21-Nov-2023		Prep Surface and Coat Wetwell
	THRMEP1510 Install 6-	8" BLS D.I.	15 26-Apr-2024	16-May-2024		Install 6-"8" BLS D.I.
	Blend Tanks 46-03, 46-04, 46-05		120 30-Nov-2023	23-May-2024		▼ 23-May-2024, Blend Tanks 46-03, 46-04, 46-05
	THRMEP1550 Prep Sui	face and Coat Blend Tank 1, 2, 3	30 30-Nov-2023	12-Jan-2024		Prep Surface and Coat Blend Tank 1, 2, 3
	THRMEP1800 Install 6"	PV D.I.	5 17-May-2024	23-May-2024		I Install 6" PV D.I.
_	Ground Floor (16')		252 10-Oct-2023	14-Oct-2024		▼ 14-Oct-2024, Ground Floor (16')
	Pump Room 46-08 & Polymer Conta		252 10-Oct-2023	14-Oct-2024		14-Oct-2024, Pump Room 46-08 & Polymer Containmen
	THRMEP1330 Install Sta	air 1	5 10-Oct-2023	16-Oct-2023		I Install Stair 1
	THRMEP1350 Prepare	Surface and Coat	5 17-Oct-2023	23-Oct-2023		Prepare Surface and Coat
	THRMEP1380 Install Alu	minum Bar Grating & Hatch	5 24-Oct-2023	30-Oct-2023		I Install Aluminum Bar Grating & Hatch
	THRMEP1400 Install Lo	uvers	5 31-Oct-2023	6-Nov-2023		I Install Louvers
	THRMEP1450 Install Fir	e Protection	5 7-Nov-2023	14-Nov-2023		Il Install Fire Protection
		/AC Ductwork & Supply/Exhaust Fans	5 15-Nov-2023	21-Nov-2023		I Install HVAC Ductwork & Supply/Exhaust Fans
		ectrical Roughin	5 22-Nov-2023	29-Nov-2023		I Install Electrical Roughin
		BT Pump Hoist & Carrying Beams	10 30-Nov-2023	13-Dec-2023		I Install GBT Pump Hoist & Carrying Beams
		ogressive Cavity Pumps (PUM 4601, 4602, 4603, 4604)	5 24-May-2024	31-May-2024		I Install Progressive Cavity Pumps (PUM 4601, 4602, 4603, 460
		Line Grinders (GDR 4601, 4602, 4603)	3 3-Jun-2024	5-Jun-2024		I Install In-Line Grinders (GDR 4601, 4602, 4603)
		ckage Water System & Tanks (PMR 4681, 4682)	5 6-Jun-2024	13-Jun-2024	+	I Install Package Water System & Tanks (PMR 4681, 4682)
		lymer Blending Skid (PMR 4601, 4602, 4603)	5 14-Jun-2024	20-Jun-2024	\dashv	I Install Polymer Blending Skid (PMR 4601, 4602, 4603)
	ILLINIVILE I / 40 ILLISIALI PU	1911 O DISTIMING ONIA (1 1911 \ 400 1 , 4002 , 4003)	J 14-Jul1-2024	20-JUH-2024		install digital bioliding did (1 WIX #001, #002, #003)

Activity Name	Original Start Duration	Finish	Q Q
THRMEP1790 Install Pipe Hangers & Supports	5 21-Jun-2024	27-Jun-2024	I Install Pipe Hangers & Supports
THRMEP1840 Install 12" SSL D.I.	5 28-Jun-2024	5-Jul-2024	I Install 12" SSL D.I.
THRMEP1890 Install 12" TBLS D.I.	5 8-Jul-2024	12-Jul-2024	1 Install 12" TBLS D.I.
THRMEP1930 Install 12"-16" FLT/BLS D.I.	5 15-Jul-2024	19-Jul-2024	I Install 12"-16" FLT/BLS D.I.
THRMEP2000 Install 8" SSL & SW D.I.	5 22-Jul-2024	26-Jul-2024	I Install 8" SSL & SW D.I.
THRMEP2060 Install 6" SSL D.I.	5 29-Jul-2024	2-Aug-2024	I Install 6" SSL D.I.
THRMEP2110 Install 6" BLS D.I.	3 5-Aug-2024	7-Aug-2024	I Install 6" BLS D.I.
THRMEP2160 Install 4" SW D.I.	5 8-Aug-2024	14-Aug-2024	I Install 4" SW D.I.
THRMEP2190 Install 3" SPD PVC	5 15-Aug-2024	22-Aug-2024	I Install 3" SPD PVC
THRMEP2230 Install 2" EFW SS	5 23-Aug-2024	29-Aug-2024	I Install 2" EFW SS
THRMEP2260 Install Small Bore Seal Water Piping	3 30-Aug-2024	4-Sep-2024	I Install Small Bore Seal Water Piping
THRMEP2280 Install Control Panels & Electrical Terminations	10 5-Sep-2024	18-Sep-2024	Install Control Panels & Electrical Terminations
THRMEP2290 Install 12"-18" Foul Air Ductwork	10 5-Sep-2024	18-Sep-2024	I Install 12"-18" Foul Air Ductwork
THRMEP2330 Install Lighting	5 19-Sep-2024	25-Sep-2024	I Install Lighting
THRMEP2350 Install Doors & Hardware	3 26-Sep-2024	30-Sep-2024	I Install Doors & Hardware
THRMEP2360 Install Overhead Door	5 1-Oct-2024	7-Oct-2024	I Install Overhead Door
THRMEP2380 Install Exterior Stair & Handrail	5 8-Oct-2024	14-Oct-2024	Install Exterior Stair & Handrail
Restroom 46-09	34 31-Oct-2023	19-Dec-2023	▼ 19-Dec-2023, Restroom 46-09
THRMEP1410 Install Fire Protection	34 31-Oct-2023 3 31-Oct-2023	2-Nov-2023	I Install Fire Protection
THRMEP1420 Install HVAC Ductwork & Exhaust Fan	5 3-Nov-2023	9-Nov-2023	I Install HVAC Ductwork & Exhaust Fan
THRMEP1460 Install Electrical Roughin	3 13-Nov-2023	15-Nov-2023	I Install Electrical Roughin
THRMEP1490 Install Plumbing (Water & Drain)	5 16-Nov-2023	22-Nov-2023	I Install Plumbing (Water & Drain)
THRMEP1530 Install Doors & Hardware	3 24-Nov-2023	28-Nov-2023	I Install Doors & Hardware
THRMEP1540 Install Floor & Wall Tile	10 29-Nov-2023	12-Dec-2023	I Install Floor & Wall Tile
THRMEP1600 Install Toilet Accessories	5 13-Dec-2023	19-Dec-2023	I Install Toilet Accessories
Second Floor (+29")	302 30-Nov-2023	18-Feb-2025	▼ 18-Feb-2025, Second Floor (+29')
Gravity Belt Thickener Room 46-10 & Vestibule 46-11	250 30-Nov-2023	2-Dec-2024	2-Dec-2024, Gravity Belt Thickener Room 46-10 &
THRMEP1580 Install Stair 1	5 30-Nov-2023	6-Dec-2023	I Install Stair 1
THRMEP1590 Install Aluminum Bar Grating & Hatch	5 7-Dec-2023	13-Dec-2023	I Install Aluminum Bar Grating & Hatch
THRMEP1630 Install Fire Protection	5 14-Dec-2023	20-Dec-2023	I Install Fire Protection
THRMEP1670 Install HVAC Ductwork & Supply Fan	5 21-Dec-2023	28-Dec-2023	I Install HVAC Ductwork & Supply Fan
THRMEP1720 Install Electrical Roughin	5 29-Dec-2023	5-Jan-2024	I Install Electrical Roughin
THRMEP1760 Install Gravity Belt Thickener (GBT 4601, 4602, 4603)	8 19-Sep-2024	30-Sep-2024	■ Install Gravity Belt Thickener (GBT 4601, 4602, 4603)
THRMEP1860 Install Pipe Hangers & Supports	5 1-Oct-2024	7-Oct-2024	I Install Pipe Hangers & Supports
THRMEP1870 Install Translucent Panels (Removable - Access)	10 1-Oct-2024	14-Oct-2024	Install Translucent Panels (Removable - Access)
THRMEP1900 Install 6"-10" Foul Air Ductwork	10 8-Oct-2024	21-Oct-2024	Install 6"-10" Foul Air Ductwork
THRMEP1950 Install Exterior Stair, Handrail & Hatches	5 15-Oct-2024	21-Oct-2024	I Install Exterior Stair, Handrail & Hatches
THRMEP2020 Install 4" SW D.I.	5 22-Oct-2024	28-Oct-2024	I Install 4" SW D.I.
THRMEP2030 Install Exterior Traffic Coating on Deck	5 22-Oct-2024	28-Oct-2024	I Install Exterior Traffic Coating on Deck
THRMEP2080 Install 2" EFW SS	5 29-Oct-2024	4-Nov-2024	■ Install 2" EFW SS
THRMEP2120 Install Control Panels & Electrical Terminations	10 5-Nov-2024	19-Nov-2024	I Install Control Panels & Electrical Terminations
THRMEP2210 Install Lighting	5 20-Nov-2024	26-Nov-2024	I Install Lighting
THRMEP2250 Install Doors & Hardware	3 27-Nov-2024	2-Dec-2024	I Install Doors & Hardware
Electrical Room 46-12	65 14-Dec-2023	19-Mar-2024	→ 19-Mar-2024, Electrical Room 46-12
THRMEP1640 Install Fire Protection	5 14-Dec-2023	20-Dec-2023	I Install Fire Protection
THRMEP1690 Install Manual Transfer Switch (MTS)	5 21-Dec-2023	28-Dec-2023	I Install Manual Transfer Switch (MTS)

		SEL PHELPS Jild. Manage. Sand Island WWTP Sec	condary Treatment (Pha	se 1) - FINAL	L BID SCHEDULE Data Date: 11-Aug-2021	
	Plan. D	Activity Name	Original Start	Finish	2022 2023 2024 2025 2026 2027 2028	
		, serily const	Duration			l Q Q
	THRMEP1730	Install Switchboard 4611 A/B	5 29-Dec-2023	5-Jan-2024	Install Switchboard 4611 A/B	
	THRMEP1770	Install MCC 4611	5 8-Jan-2024	12-Jan-2024	I Install MCC 4611	
	THRMEP1820	Install PLC 4601	5 16-Jan-2024	22-Jan-2024	II Install PLC 4601	
	THRMEP1880	Install Panelboards LP 4611 A/B, DP 4611 A/B	5 23-Jan-2024	29-Jan-2024	I Install Panelboards LP 4611 A/B, DP 4611 A/B	
	THRMEP1910	Install GBT & Wetwell Pump VFDs (4601, 4602, 4603, 4604)	5 30-Jan-2024	5-Feb-2024	I Install GBT & Wetwell Pump VFDs (4601, 4602, 4603, 4604)	
	THRMEP1960	Install GBT Control Panels 1, 2, 3	5 6-Feb-2024	12-Feb-2024	I Install GBT Control Panels 1, 2, 3	
	THRMEP2040	Install Mini Power Centers 4611 A/B	5 13-Feb-2024	20-Feb-2024	I Install Mini Power Centers 4611 A/B	
	THRMEP2090	Install Electrical Roughin	5 21-Feb-2024	27-Feb-2024	I Install Electrical Roughin	
	THRMEP2130	Terminate Electrical & LV	10 28-Feb-2024	12-Mar-2024	Terminate Electrical & LV	
	THRMEP2140	Install HVAC Ductwork	5 28-Feb-2024	5-Mar-2024	I Install HVAC Ductwork	
	THRMEP2180	Install Package AC Units	5 6-Mar-2024	12-Mar-2024	Install Package AC; Units	
	THRMEP2220	Install Translucent Panel, Doors & Hardware	5 13-Mar-2024	19-Mar-2024		
	Blend Tank Deck	mode nanodonti ano, poolo a narawaro	70 5-Nov-2024	18-Feb-2025		
	THRMEP1560	Install Mixers (4621, 4622, 4623)	15 5-Nov-2024	26-Nov-2024		
	THRMEP1680	Install 12" Foul Air Ductwork	15 27-Nov-2024	18-Dec-2024		
	THRMEP1830	Install Electrical Rough-In & Terminate	15 19-Dec-2024	10-Jan-2025	Install Electrical Rough-In & Terminate	ļ <u>-</u>
	THRMEP1970	Install Hatches	15 13-Jan-2025	3-Feb-2025	Install Hatches	
	THRMEP2150	Install Exterior Traffic Coating on Deck	10 4-Feb-2025	18-Feb-2025		
4	Roof (44')	I I I Stall Exterior Traile Coating on Deck	35 3-Dec-2024	23-Jan-2025		
	THRMEP1780	Install TPO Roofing on Rigid Insulation	15 3-Dec-2024	23-Dec-2024		
	THRMEP1920	Install Aluminum Coping & Ladder	5 24-Dec-2024	31-Dec-2024		
	THRMEP1980	Install PV Panels	5 2-Jan-2025	8-Jan-2025	I Install PV Panels	
	THRMEP1990	Install Down Spouts & Splash Blocks			Il Install Down Spouts & Splash Blocks	
		·	5 2-Jan-2025	8-Jan-2025	Apply Water Repellent Coating to Exterior Walls	
	THRMEP2050 rea 46A Thickener Bldg Ode	Apply Water Repellent Coating to Exterior Walls	10 9-Jan-2025	23-Jan-2025		1 1
	THRODR1290	Install Structural Steel	128 30-Jul-2024 10 30-Jul-2024	3-Feb-2025 12-Aug-2024	3-Feb-2025, Area 46A Thickener Bldg Odor Co	IIIOI
	THRODR1290					
	THRODR1310	Apply Traffic Coating Install Pumps (OCP 4631, 4632)	5 13-Aug-2024 5 5-Nov-2024	20-Aug-2024 12-Nov-2024		
	THRODR1320	Install Fans (OCF 4631, 4632)	5 13-Nov-2024	19-Nov-2024		
	THRODR1330	Install BTF Tanks (OCU 4631A, 4632A)	5 20-Nov-2024	26-Nov-2024		
	THRODR1340	Install Activated Carbon Tanks (OCU 4631B, 4632B)	5 27-Nov-2024	4-Dec-2024	■ Install Activated Carbon Tanks (OCU 4631B, 4632	(B)
	THRODR1350	Install Small Bore Piping & Instrumentation	5 5-Dec-2024	11-Dec-2024	I Install Small Bore Piping & Instrumentation	
	THRODR1360	Install Nutrient Dosing Panels	5 12-Dec-2024	18-Dec-2024		
	THRODR1370	Install 18"-24" Foul Air Ductwork	5 19-Dec-2024	26-Dec-2024		l i
	THRODR1380	Install Electrical Roughin	5 27-Dec-2024	3-Jan-2025	I Install Electrical Roughin	¦
	THRODR1390	Terminate & Test Power and Controls	5 6-Jan-2025	10-Jan-2025		
	THRODR1400	Biological Acclimation Period	15 13-Jan-2025	3-Feb-2025	Biological Acclimation Period	
	THRODR1410	Install Lighting	5 13-Jan-2025	17-Jan-2025		
	sh Site Work By Areas		148 22-May-2025	24-Dec-2025		: :
٤	ITEFI1320	Overall Site Punch & Signoff w/ ENV	20 26-Nov-2025	24-Dec-2025		
F	inish Sitework @ Thickener		80 22-May-2025	17-Sep-2025		
	A1000	Site Finishes & Crane Pads @ Thickener Bldg	80 22-May-2025	17-Sep-2025		1 1
F	oad "U" & Finish Sitework V		80 19-Jun-2025	13-Oct-2025		
	SITEFI1310	Roadway "U" Buildout After BLW Bldg Structure Is Complete & Crane Removed	80 19-Jun-2025	13-Oct-2025	Roadway "U" Buildout After BLW Bldg	1 1
F		ework North of 2nd Trmt Bldg	120 4-Jun-2025	25-Nov-2025		J L
_	SITEFI1290	Roadway "K & W" Buildout After BLW & MBR Bldg Structure Is Complete & Crane Ro	emo 120 4-Jun-2025	25-Nov-2025	Roadway "K & W" Buildout After BLW	اM به ب



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Browsers:	Final release versions of Internet Explorer® 6.0		
	or above (Windows only); Mozilla Firefox 2.0		
	or above (Windows and Mac); Safari TM 3.0 or		
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