




THE CITY OF SAN DIEGO

MEMORANDUM

DATE: May 24, 2021
TO: James Nagelvoort, Director and City Engineer, Engineering & Capital Projects
FROM: Cindy Crocker, Acting Deputy Director, Engineering & Capital Projects 
SUBJECT: Sole Source Agreement for Emergency Repair of Sewer Pump Station 1, Pump 5 & 6

Estimated Amount: \$500,000 (Not-to-Exceed)
Contractor: Orion Construction
Estimated Completion: December 31, 2023
Recommended Action: Approve Sole Source Request

Pursuant to SDMC §22.3108 (a), "Exceptions to Advertisement and Competitive Award of Engineering & Capital Projects Contracts", this is to certify that a sole source agreement with the contractor named above is necessary and that strict compliance with a competitive process would be unavailing or would not produce an advantage, and soliciting bids or proposals would be undesirable, impractical or impossible for the following reasons:

JUSTIFICATION:

As of October 1, 2020, at Pump Station No. 1, the City had 5 of 6 main pumps available and operational. While the pump station would be without any spare pumps, this would have been sufficient to handle the flow at full capacity and prevent the risk of a spill event. This situation changed and was exacerbated on December 16, 2020 when Main Pump No. 5 failed to be operational as well. The Public Utilities Department (PUD) staff has made many attempts to repair each of the pumps without success. We have determined that PUD does not currently have adequate resources to perform the necessary repairs.

PUD is requesting that an emergency project be initiated to acquire an engineer and/or contractor to perform inspections, develop a report of their findings, and perform the repairs of both main pumps numbers 5 and 6 at Pump Station 1. The need for this emergency project is acute, as a sewerage spill event would cause significant environmental damage, threaten wildlife habitat and endanger public health and safety.

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James Nagelvoort, Director and City Engineer
May 24, 2021


The necessary repair is beyond the capabilities of PUD; therefore, it is requested this project be designated an emergency and a sole source contract be approved.

Additional information related to this request can be found in Enclosure 1.

AGREEMENT VALUE & DURATION:

Unless a modification to the agreement and this sole-source request is issued, the total fee for these services shall not exceed the amount noted above. The term of the agreement will be in effect from date of the agreement execution and shall not exceed the contract completion date noted above.

APPROVED BY:



James Nagelvoort, Director, Engineering & Capital Projects

Date: 5/25/21

Enclosure: 1. Memorandum from Juan Guerreiro to James Nagelvoort dated January 8, 2021.

cc: Shauna Lorange, Director, Public Utilities Department
Juan Guerreiro, Interim Executive Assistant Director, Public Utilities Department
Myrna Dayton, Assistant Director, Engineering & Capital Projects
Craig Boyd, Interim Deputy Director, Public Utilities Department
Carrie Purcell, Interim Deputy Director, Engineering & Capital Projects
Surraya Rashid, Deputy Director, Public Utilities Department
Mike Rosenberg, Deputy Director, Public Utilities Department
Luis Schaar, Deputy Director, Engineering & Capital Projects
Nevien Antoun, Assistant Deputy Director, Engineering & Capital Projects
Abi Palaseyed, Assistant Deputy Director, Engineering & Capital Projects
Tom Rosales, Interim Assistant Director, Public Utilities Department
Stephen Cann, Senior Civil Engineer, Public Utilities Department
Jong Choi, Senior Civil Engineer, Engineering & Capital Projects
Catherine Dungca, Senior Civil Engineer, Engineering & Capital Projects
Vien Hong, Senior Civil Engineer, Public Utilities Department
Stephen Samara, Principal Contract Specialist, Engineering & Capital Projects
Manuel Gonzalez, Associate Civil Engineer, Engineering & Capital Projects



Enclosure

The City of San Diego
MEMORANDUM

DATE: January 8, 2021

TO: James Nagelvoort, Director, Engineering & Capital Projects Department

FROM: Juan Guerreiro, Interim Executive Assistant Director, Public Utilities Department

SUBJECT: Request of Emergency Declaration to Inspect & Repair Sewer Pump Station No. 1 Pump 5 & 6

This memorandum is to request your concurrence that the immediate inspection, assessment and repair of two (2) main pumps at Sewer Pump Station No. 1 is an emergency project, pursuant to CEQA Guidelines Section 15269. The Public Utilities Department believes that the project meets the CEQA guidelines definition of Emergency Projects in Section 15269 (b) and (c):

“(b) Emergency repairs to publicly or privately owned services facilities necessary to maintain service essential to the public health, safety, or welfare.

(c) Specific actions necessary to prevent or mitigate an emergency. This does not include long-term projects undertaken for the purpose of preventing or mitigating a situation that has a low probability of occurrence in the short-term.”

The City of San Diego’s Public Utilities Department (PUD) Wastewater Treatment & Disposal (WWTD) Division operates and maintains an extensive wastewater collections system that includes two (2) large sewer pumping stations and six (6) smaller sewer pumping stations. The capacity of each of the pumping stations is dependent on the number of pumps that are available and functional/operational. Pump Station No. 1 receives sewer flow from the South Metro Interceptor and pumps this flow to Pump Station No. 2. The average daily flow from Pump Station No. 1 is 50-75 MGD. The design capacity of Pump Station No. 1 is 155 MGD. Pump Station No. 1 requires five (5) duty and one (1) standby for a total of six (6) main pumps. Currently there are only four (4) main pumps available and operational. Main Pump No. 5 has been out of service since December 16, 2020 and needs an overhaul of its induction motor and Main Pump No. 6 has been out of service since March 16, 2020 and has motor starter issues. Pump Station No. 1 has reduced capacity due to these two (2) main pumps being out of service. It is crucial to have all main pumps available and operational to maintain the system at optimal levels and to avoid the risk of the possibility of a sanitary sewer overflow(s) (SSOs) due to the pump station being overwhelmed by flows due to heavy rainstorms.

The Public Utilities Department made preparations for the winter storm season, considered to run from October 1st through May 1st, in the summer months preceding the rainy period. Preparations included having pumping systems, major facilities and equipment ready for storm events that the City’s systems are designed and capable of handling. PUD’s pump stations are designed to carry their respective capacity reliably and without failure. On

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James Nagelvoort, Director, Engineering & Capital Projects Department
January 8, 2021

October 1, 2020, at Pump Station No. 1, the City had 5 of 6 main pumps available and operational. While the pump station would be without any spare pumps, this would have been sufficient to handle the flow at full capacity and prevent the risk of a spill event. This situation was changed and exacerbated on December 16, 2020 when Main Pump No. 5 failed to be operational as well. PUD staff has made many attempts to repair each of the pumps without success. We have determined that PUD does not currently have adequate resources to perform the necessary maintenance/repairs.

PUD is requesting that an emergency project be initiated to acquire an engineer and/or contractor to perform inspections, develop a report of their findings, and perform repairs of both Main Pump No. 5 and 6 at Pump Station No. 1. The need for this emergency project is acute, as a sewerage spill event would cause significant environmental damage, threaten wildlife habitat, and endanger public health and safety.

This emergency project is located at Sewer Pump Station No. 1, 3550 E. Harbor Drive, National City, CA 91950.

Thank you for your quick response to this request. If you have any questions or require additional information, please contact Tom Rosales, PUD Interim Assistant Director, at (858) 292-6418, or Craig Boyd, PUD Interim Deputy Director at (858) 654-4433.



Juan Guerreiro
Interim Executive Assistant Director

cc: Alia Khouri, Deputy Chief Operating Officer
Shauna Lorange, Director, Public Utilities Department
Tom Rosales, Interim Assistant Director, Public Utilities Department
Surraya Rashid, Deputy Director, Public Utilities Department
Mike Rosenberg, Deputy Director, Public Utilities Department
Craig Boyd, Interim Deputy Director, Public Utilities Department
Stephen Cann, Senior Civil Engineer, Public Utilities Department
Vien Hong, Senior Civil Engineer, Public Utilities Department

City of San Diego

CONTRACTOR'S NAME: Orion Construction Corporation
ADDRESS: 2185 La Mirada Drive Vista, CA 92081
TELEPHONE NO.: (760) 597-9660 **FAX NO.:** (714) 655-0878
CITY CONTACT: Juan E Espindola, Senior Contract Specialist, Email: JEEspindola@sandiego.gov
Phone No. (619) 533-4491
M. Gonzalez / A. Jaro / L. Ambriz

**CONTRACT
DOCUMENTS**

FINAL



FOR

**EMERGENCY CONSTRUCTION SERVICES FOR:
EMERGENCY REPAIR OF SEWER PUMP STATION 1, PUMP 5
AND 6**

RFQ NO.: K-18-1682-RFQ-3
BID NO.: K-21-2039-EMR-2
SAP NO. (WBS/IO/CC): 21005065
CLIENT DEPARTMENT: 2000
COUNCIL DISTRICT: 8
PROJECT TYPE: BP

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:



For City Engineer

6/24/2021

Date

Seal:



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CITY OF SAN DIEGO, CALIFORNIA

GENERAL

1. DESCRIPTION OF WORK:

- 1.1. The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the purpose of constructing this emergency project at the direction of the City Engineer.
- 1.2. The Work consists of repair and reconstruction of two main pumps at Sewer Pump Station 1. Construction will include inspection, assessment and repair of Pumps 5 and 6.
- 1.3. This solicitation is for a "Time-and-Materials" contract in accordance with the provisions set forth in 7-3.7, "Agreed Prices" of The GREENBOOK.
- 1.4. A time-and-materials contract provides for acquiring labor, material, equipment, and services that shall be paid for in accordance with 2-8, "EXTRA WORK" of The GREENBOOK and WHITEBOOK and as modified by the Supplementary Special Provisions.

2. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

- 2.1. **Prior** to the Award of the Contract or each Task Order, the Contractor must comply with the following registration requirements:
 - 2.1.1. This project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations (DIR). **Contractor and Subcontractor Registration Requirements** for compliance with those requirements are outlined in paragraph 8.9 of these "General Instructions."
 - 2.1.2. In addition, prior to award of the Contract or each Task Order, the Contractor and its Subcontractors and Suppliers **must register with Prism®**, the City's web-based contract compliance portal at:
<https://pro.prismcompliance.com/default.aspx>
 - 2.1.3. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

3. **EQUAL OPPORTUNITY:** For the City's Equal Opportunity Program requirements see Part 0 of the City of San Diego 2018 Whitebook and Exhibit I - Forms.

4. **CONTRACT TIME:** The Work shall be completed within **260 Working Days** from the date of issuance of the Notice to Proceed.

5. **CONTRACT PRICE:** The Engineer's Estimate of the Contract Price is **\$500,000**. The Contractor shall not perform Work that exceeds the Engineer's Estimate excluding Allowances without prior written notice from the City that sufficient additional funding has been secured.
6. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification: **A**
7. **PREVAILING WAGE RATES: Pursuant to San Diego Municipal Code section 22.3019,** construction, alteration, demolition, repair, and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
 - 7.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
 - 7.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
 - 7.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
 - 7.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.

- 7.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying, and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 7.3.1.** Contractor and their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 7.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 7.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 7.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 7.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."
- 7.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

- 7.9 Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 7.9.1.** Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 7.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 7.10 Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 7.11 List of all Subcontractors.** The Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.
- 7.12 Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:
- 7.12.1 Registration.** The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1).

7.12.2 Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).

7.12.3 List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 8.11 above. (Labor code section 1773.3).

8. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") http://www.greenbookspecs.org/	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* https://www.sandiego.gov/publicworks/edocref/greenbook	2018	PWPI010119-02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications – http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-05
CALTRANS Standard Plans http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 6 (CA MUTCD Rev 6) https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files	2014	PWPI060121-10
<p>NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml</p> <p>*Electronic updates to the Standard Drawings may also be found in the link above</p>		

9. INSURANCE REQUIREMENTS:

9.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.

9.2. Refer to sections within 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

10. SUBCONTRACTOR INFORMATION:

- 10.1. LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - Section 3-2, "SELF-PERFORMANCE", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor – regardless of tier** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.

- 10.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

- 11. SUBMITTAL OF "OR EQUAL" ITEMS:** See 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.

12. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" which requires the Contractor to perform not less than the amount therein stipulated with its own forces. Failure to comply with these requirements shall render the Bid non-responsive and ineligible for award.
13. **PLANS AND SPECIFICATIONS:** When provided by the City, questions about the meaning or intent of the Contract Documents relating to the scope of Work and technical nature shall be directed to the City's Project Manager prior to commencement of work. Interpretations or clarifications considered necessary by the City in response to such questions will be issued in writing. Oral and other interpretations or clarifications will be without legal effect. Any questions related to this proposal shall be addressed to the Engineering & Capital Projects Department, Contracts Division, 525 B Street, Suite 750, San Diego, CA 92101, Telephone No. (619) 533-3450.
14. **SAN DIEGO BUSINESS TAX CERTIFICATE:** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
15. **PROPOSAL FORMS:** The signature of each person signing may be in longhand or in electronic format as specified by the City. The Contractor shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
 - 15.1. The Bidder, by submitting electronically, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this contract are true and correct.
16. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel this request for proposal at any time, and further reserves the right to reject submitted proposals, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Contractor as a result of preparing its proposal shall be the sole responsibility of the Contractor.
17. **AWARD OF CONTRACT OR REJECTION OF PROPOSALS:**
 - 17.1. This contract may be awarded to a contractor selected from the City's as-needed emergency contractors list or may be awarded to another contractor in case the list of available emergency contractors list is exhausted.
 - 17.2. The City reserves the right to reject the proposal from the emergency list-selected contractor and request a proposal from the next contractor on the list when such rejection is in the best interests of the City.
18. **THE CONTRACT:** The Contractor shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance documents specified in 1-7.2, "CONTRACT BONDS," 5-4.2, "GENERAL LIABILITY INSURANCE," and 5-4.3 "WORKERS'

COMPENSATION INSURANCE" within **3 Working Days** after receipt by the Contractor of a form of contract for execution unless an extension of time is granted to the Contractor in writing. Bonds shall be in amount of the Contract Price for the Work included in the Bid.

The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder. If the Contractor fails to enter into the contract as herein provided, the award may be annulled. An award may be made to the next contractor on the shortlist or in the case the emergency contractor's list is exhausted to any other responsive contractor on a sole-source basis who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.

- 19. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Contractor shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms. The signing of the Contract shall be conclusive evidence that the Contractor has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Contract Documents.
- 20. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
 - 20.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
 - 20.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
 - 20.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
 - 20.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
 - 20.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
 - 20.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
 - 20.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

21. **WRITTEN AUTHORIZATION:** Prior to performing any Professional Services in connection with the Project, the Contractor shall obtain from the City a written authorization to proceed. Further, throughout the term of this Contract, the Contractor shall immediately advise the City in writing of any anticipated change in the scope of services [**Section 1 - Description of Work**], compensation and rate schedule [**Exhibit L**], or Time Schedule [**Section 4 - Contract Time**], and shall obtain the City's written consent to the change prior to making any changes. In no event shall the City's consent be construed to relieve the Contractor from its duty to render all Professional Services in accordance with applicable laws and accepted industry standards.

**AGREEMENT
FOR
EMERGENCY CONSTRUCTION SERVICES
BETWEEN
THE CITY OF SAN DIEGO
AND
Orion Construction Corporation**

This Emergency Construction Services Agreement (Agreement) is made and entered between THE CITY OF SAN DIEGO, herein called "City" and **Orion Construction Corporation** herein called "Contractor", for the purpose of performing emergency construction services for **Emergency Repair of Sewer Pump Station 1, Pump 5 and 6**, Bid No. **K-21-2039-EMR-2**, in the amount of **(\$500,000)** at the direction of the City Engineer. The City and the Contractor are referred to herein as the "Parties."

RECITALS

- A. The City desires to construct the emergency project identified in Section 1, Description of Work.
- B. The City desires to contract with a single entity for Emergency Construction Services, as set forth in this agreement.
- C. The City had previously issued a Request for Qualifications (RFQ), via **RFQ K-18-1682-RFQ -3**, for on-call emergency construction services.
- D. In accordance with this RFQ, Contractors submitted Statements of Qualifications (SOQ) for these services from which the City established a pre-qualified list of the most highly qualified contractors to perform emergency construction services as directed by the City.
- E. In accordance with said RFQ, the Contractor submitted an SOQ and is prepared to enter into this agreement.
- F. The City has selected the Contractor from the City's list of on-call contractors to perform, either directly or with Subcontracts hereinafter defined, the design, engineering, and construction services set forth in this agreement and the Contract Documents.
- G. The Contractor is ready, willing, and able to perform the emergency construction services required as specified in the Scope of Work and Services section of this agreement and in accordance with the terms and conditions of this agreement and under the direction of the Engineer.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows:

AGREEMENT


- A. The above referenced recitals are true and correct and are incorporated into this agreement by this reference.
- B. Exhibits referenced in this agreement are incorporated into the Agreement by this reference.
- C. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claim's incident to such performances.
- D. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- E. This agreement incorporates the Standard Specifications for Public Works Construction (The 2018 GREENBOOK), including those amendments set forth in the City of San Diego Supplement (The 2018 WHITEBOOK). All changes, additions, or both are stated herein, and all other provisions remain unchanged.
- F. The Contractor shall comply with City's Equal Opportunity Contracting Program Requirements set forth in the Contract Documents. See The WHITEBOOK Part 0.
- G. The Contractor, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Agreement can be executed.
- H. The Contractor shall ensure that all Subcontractors complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section. The Contractor shall include in each subcontract agreement, language which requires Subcontractors to abide by the provisions of City Municipal Code §22.3004.
- I. The Contractor's attention is directed to the provisions of the State of California Labor Code §1776 (Stats. 1978, Ch. 1249). The Contractor shall be responsible for the compliance with these provisions by Subcontractors.
- J. This contract is effective as of the date the City issued the Contractor a written notice to proceed (NTP), or the date of the last signatory below, whichever occurred first.
- K. The Contractor shall complete the work to be performed under this agreement and shall achieve Acceptance within the allowed number of Working Days from the NTP as specified in the Notice of Award, unless authorized otherwise by the Engineer. Time is of essence for the completion of the Work and the Project has critical milestones to be met as listed in the Notice of Award.
- L. Prior to NTP or as required by the City, the Contractor shall:
 - 1. File surety bonds with the City to be approved by the City in the amounts and for the purposes noted in the Notice Inviting Bids and
 - 2. Obtain the required insurance in accordance with 5-4.2, "GENERAL LIABILITY INSURANCE" and any additional insurance as may be specified in the Supplemental Special Provisions.

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, acting by and through its Mayor or designee, pursuant to the emergency contract provisions of City Charter 594 authorizing such execution, and by the Contractor.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By 

Mara W. Elliott, City Attorney
By 

Print Name: Stephen Samara
Principal Contract Specialist
Engineering & Capital Projects Department

Print Name: Cleone
Deputy City Attorney

Date: 10/21/2021

Date: 10/21/2021

CONTRACTOR

By 

Print Name: R. Dowsing

Title: President

Date: 07/01/2021

City of San Diego License No.: B199002970

State Contractor's License No.: A549309

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.


State of California
County of San Diego

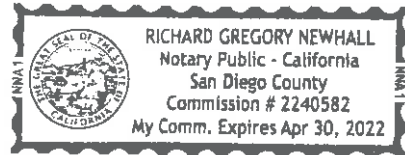
On 07/01/2021 before me, Richard Gregory Newhall - Notary Public
(insert name and title of the officer)

personally appeared Richard Dowsing - Orion President,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)



PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Orion Construction Corporation, a corporation, as principal, and
Western Surety Company, a corporation authorized to do
business in the State of California, as Surety, hereby obligate themselves, their successors and assigns,
jointly and severally, to The City of San Diego a municipal corporation in the sum of Five Hundred
Thousand Dollars and Zero Cents (\$500,000) for the faithful performance of the annexed contract,
and in the sum of Five Hundred Thousand Dollars and Zero Cents (\$500,000) for the benefit of laborers
and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise, it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise, it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

Dated July 1, 2021

Approved as to Form

Orion Construction Corporation


Principal

By 

Richard Dowsing, President

Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By 
Deputy City Attorney

Western Surety Company

Surety

By Lawrence F. McMahon Digitally signed by Lawrence F. McMahon
Date: 2021.07.01 11:10:49 -07'00'

Attorney-in-fact
Lawrence F. McMahon



Approved:

By  10/21/2021
Stephen Samara
Principal Contract Specialist
Engineering & Capital Projects Department

1455 Frazee Road, Suite 300

Local Address of Surety

San Diego, CA 92108

Local Address (City, State) of Surety

(619) 682-3510

Local Telephone No. of Surety

Premium \$ 5,000.00

Subject to adjustment based on final contract price.

Bond No. 30133692

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT Civil Code § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

County of San Diego

On July 1, 2021 before me, Maria Guise, Notary Public,
Date Insert Name of Notary exactly as it appears on the official seal

personally appeared Lawrence F. McMahon
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~is/~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature Maria Guise
Signature of Notary Public Maria Guise



Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer is Representing:
Surety Company

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer is Representing: _____

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Lawrence F Mc Mahon, Sarah Myers, Lilia De Loera, Janice Martin, Christopher J Conte, Rachel A Mullen, Individually

of San Diego, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 17th day of January, 2017.



WESTERN SURETY COMPANY

Paul T. Brufat
Paul T. Brufat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 17th day of January, 2017, before me personally came Paul T. Brufat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2021



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 1st day of July, 2021.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of San Diego

On 07/01/2021 before me, Richard Gregory Newhall - Notary Public
(insert name and title of the officer)

personally appeared Richard Dowsing - Orion President
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



(Seal)

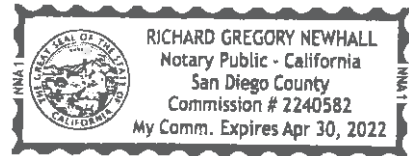


EXHIBIT A

DRUG-FREE WORKPLACE CERTIFICATION

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

EXHIBIT B

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

CONTRACTOR CERTIFICATION

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

EXHIBIT C

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, ("Contractor Standards and Pledge of Compliance"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

EXHIBIT D

EQUAL BENEFITS ORDINANCE CERTIFICATION

CONTRACTOR CERTIFICATION

EQUAL BENEFITS ORDINANCE CERTIFICATION

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

EXHIBIT E

AFFIDAVIT OF DISPOSAL

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, _____, the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

Emergency Repair of Sewer Pump Station 1, Pump 5 and 6

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-21-2039-EMR-2; (IO) 21005065**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

_____ Contractor

by

ATTEST:

State of _____

County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

EXHIBIT F

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23
UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23
UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

EXHIBIT G

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.


CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Orion Construction Corporation

Certified By Richard Dowsing Title President
Name

 Date 07/01/2021
Signature

USE ADDITIONAL FORMS AS NECESSARY

EXHIBIT H

MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal Name		DBA	
Orion Construction Corporation		Orion Construction Corporation	
Street Address	City	State	Zip
2185 La Mirada Drive	Vista,	CA	92081
Contact Person, Title		Phone	Fax
Richard Dowsing, President		(760) 597-9660	(760) 597-9661

Provide the name, identity, and precise nature of the interest* of all persons who are directly or indirectly involved** in this proposed transaction (SDMC § 21.0103).

* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction, the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and any
- philanthropic, scientific, artistic, or property interest in the transaction.

** Directly or Indirectly Involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City,
- or directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position
Richard Dowsing	President
City and State of Residence	Employer (if different than Bidder/Proposer)
Encinitas, CA	
Interest in the transaction	
President of Orion Construction Corporation	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

* Use Additional Pages If Necessary *

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Richard Dowsing, President

Print Name, Title



Signature

07/01/2021

Date

Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.

EXHIBIT I

FORMS

LIST OF SUBCONTRACTORS

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the special Provisions - General; Paragraph 3-2, "SELF-PERFORMANCE" which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WOSB, HUBZone, and SDVOSB subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WOSB, HUBZONE, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Koffler Electrical Mechanical Apparatus Repair, Inc. Address: 527 Whitney Street City: San Leandro State: CA Zip: 94577 Phone: (510) 567-0630 Email: info@koffler.com / charlie@koffler.com	Constructor	1000012364	722649	Electrical Repair	\$37,963.58	N/A	N/A	
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- MBE Certified Minority Business Enterprise
 - DBE Certified Disadvantaged Business Enterprise
 - OBE Other Business Enterprise
 - SLBE Certified Small Local Business Enterprise
 - WOSB Woman-Owned Small Business
 - SDVOSB Service-Disabled Veteran Owned Small Business
- As appropriate, Bidder shall indicate if Subcontractor is certified by:
- CITY City of San Diego
 - CPUC California Public Utilities Commission
 - CADOGS State of California's Department of General Services
 - CA State of California
 - State of California Department of Transportation
 - City of Los Angeles
 - U.S. Small Business Administration
 - CALTRANS
 - LA
 - SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES (MUST BE FILLED OUT)	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, D/VE, OBE, ELBE, SLBE, SDB, WOSB, HUBZone, OR SDVOSB [Ⓞ]	WHERE CERTIFIED [Ⓞ]
Name: _____ Address: _____ City: _____ State: _____ ZIP: _____ Phone: _____ Email: _____ Name: _____ Address: _____ City: _____ State: _____ ZIP: _____ Phone: _____ Email: _____						

- ① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WOSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |

- ② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:
- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | | |
| State of California's Department of General Services | CADOGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

DEBARMENT AND SUSPENSION CERTIFICATION

EFFECT OF DEBARMENT OR SUSPENSION

To promote integrity in the City's contracting processes and to protect the public interest, the City shall only enter into contracts with responsible bidders and contractors. In accordance with San Diego Municipal Code §22.0814 (a): *Bidders and contractors* who have been *debarred or suspended* are excluded from submitting bids, submitting responses to requests for proposal or qualifications, receiving *contract awards*, executing *contracts*, participating as a *subcontractor*, employee, agent or representative of another *person* contracting with the City.

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s)

The names of all persons interested in the foregoing proposal as Principals are as follows:

NAME	TITLE

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:


- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State or local agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State or local agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Contractor Name: Orion Construction Corporation

Certified By Richard Dowsing Title President

Name

Signature

Date 07/01/2021

NOTE: Providing false information may result in criminal prosecution or administrative sanctions.

**Names of the Principal Individual owner(s)
FOR SUBCONTRACTORS/SUPPLIERS/MANUFACTURERS**

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor, supplier, and/or manufacturer:**

SUBCONTRACTOR **SUPPLIER** **MANUFACTURER**

NAME	TITLE
Ren Anderson	Controller
Koffler Electrical Mechanical Apparatus Repair, Inc.	
527 Whitney Street	
San Leandro, Ca 94577	
(510) 567-0630 / ren@koffler.com	

SUBCONTRACTOR **SUPPLIER** **MANUFACTURER**

NAME	TITLE

SUBCONTRACTOR **SUPPLIER** **MANUFACTURER**

NAME	TITLE

SUBCONTRACTOR **SUPPLIER** **MANUFACTURER**

NAME	TITLE

Contractor Name: Orion Construction Corporation

Certified By Richard Dowsing Title President

Name



Signature

Date 07/01/2021

USE ADDITIONAL FORMS AS NECESSARY

EXHIBIT J

NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

(Check one or both)

TO: Recorder/County Clerk
P.O. Box 1750, MS A-33
1600 Pacific Hwy, Room 260
San Diego, CA 92101-2400

FROM: City of San Diego
Engineering & Capital Projects
525 B Street, Suite 750, MS 908A
San Diego, CA 92101

Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814

Project Name: Sewer Pump Station No. 1
(Motors 5 & 6) Emergency Repair

IO#: 21005065

Project Location-Specific: The project is located within Sewer Pump Station No. 1, 3550 E. Harbor Drive, National City, CA 91950 within the Military Facilities Planning Area (Council District 8).

Project Location-City/County: San Diego & National City / San Diego

Description of nature and purpose of the Project: The project will disconnect and transport two non-operational motors (Motors 5 and 6), housed within Pump Station No. 1, to a repair shop for: inspection; photo documentation of found condition; steam cleaning of windings and bake out; electrical testing of all windings; varnish treat windings using epoxy varnish; dynamically balance rotors with all rotating parts; inspect bearings and report condition; reassemble motors and test run at full voltage; and transport, reinstall and mechanically reconnect motors. No excavation is required.

Name of Public Agency Approving Project: City of San Diego

Name of Person or Agency Carrying Out Project: City of San Diego Engineering & Capital Projects
Contact: Jerry Jakubauskas, Senior Planner
Phone: (619) 533-3755
525 B Street, San Diego, CA 92101

Exempt Status: (CHECK ONE)

- Ministerial (Sec. 21080(b)(1); 15268)
- Declared Emergency (Sec. 21080(b)(3); 15269(a))
- Emergency Project (Sec. 21080(b)(4); 15269 (b)(c))
- Categorical Exemption:
- Statutory Exemption:

Reasons why project is exempt: Emergency repairs are required in order to protect public health, safety and property. This determination is supported by the expert opinion of the City Engineer. The City of San Diego conducted an environmental review which determined that the project meets the statutory exemption criteria set forth in CEQA State Guidelines, Section (SEC. 21080(b)(4); 15269 (b)(c)), which allows for actions necessary to prevent or mitigate an emergency.

Lead Agency Contact Person: Jerry Jakubauskas

Telephone: (619) 533-3755

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a notice of exemption been filed by the public agency approving the project? Yes No

It is hereby certified that the City of San Diego has determined the above activity to be exempt from CEQA.



Carrie Purcell, Assistant Deputy Director

May 21, 2021

Date

Check One:

Signed By Lead Agency

Signed by Applicant

Date Received for Filing with County Clerk or OPR:

EXHIBIT K

SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

- 1) The **2018 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
- 2) The **2018 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 1. General Provisions (A) for all Construction Contracts.

PART 0 – EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

SECTION A – GENERAL REQUIREMENTS

0-12 CONTRACT RECORDS AND REPORTS. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall maintain records of all subcontracts and invoices from your Subcontractors and Suppliers for work on this project. Records shall show name, telephone number including area code, and business address of each Subcontractor, Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.
2. You shall retain all records, books, papers, and documents pertinent to the Contract for a period of not less than 5 years after Notice of Completion and allow access to said records by the City's authorized representatives.
3. You shall submit the following reports using the City's web-based contract compliance (Prism® portal):
 - a) **Monthly Payment.** You shall submit Monthly Payment Reporting by the 10th day of the subsequent month. Incomplete and/or delinquent reporting may cause payment delays, non-payment of invoices, or both.
4. The records maintained under item 1, described above, shall be consolidated into a Final Summary Report, certified as correct by an authorized representative of the Contractor. The Final Summary Report shall include all subcontracting activities and be sent to the EOCP Program Manager prior to Acceptance. Failure to comply may result in assessment of liquidated damages or withholding of retention. The City will review and verify 100% of subcontract participation reported in the Final Summary Report prior to approval and release of final retention to you. In the event your Subcontractors are owed money for completed Work, the City may authorize payment to subcontractor via a joint check from the withheld retention.

SECTION 1 – GENERAL, TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS. To the “WHITEBOOK”, items 43, 56, 69, and 102, DELETE in their entirety and SUBSTITUTE with the following:

- 43. **Field Order** - A Field Order is a written agreement by the Engineer to compensate you for Work items in accordance with 2-8, “EXTRA WORK” or 2-9, “CHANGED CONDITIONS”. A Field Order does not change the Contract Price, Contract Time, or the scope intent of the Contract. The unused portion of the Field Order shall revert to the City upon Acceptance.
- 56. **Notice of Completion (NOC)** - A document recorded with the County of San Diego to signify that the Contract Work has been completed and accepted by the City.
- 69. **Punchlist** - A list of items of Work or corrections generated after a Walk-through that is conducted when you consider that the Work and Services are complete, and as verified by the Owner. The Punchlist may be completed in phases if defined in the Contract.
- 102. **Walk-through**- An inspection the City uses to verify the completion of the Project or phase of the Project and to generate a Punchlist prior to Acceptance.

To the “WHITEBOOK”, item 54, “Normal Working Hours”, ADD the following:

The **Normal Working Hours** are **8:00 AM to 4:00 PM**.

To the “WHITEBOOK”, ADD the following:

- 108. **Acceptance** – When all of the Contract Work, including all Punchlist items, is deemed officially complete by the City Asset Owning Department or Deputy City Engineer.
- 109. **Occupancy** – When the Owner deems a building is ready for use, the Owner will issue a certificate of Occupancy in writing.
- 110. **Substantial Completion** – When all Contract Work is deemed complete by the Contractor in writing, and as verified by the Owner. Substantial Completion may be completed in phases if defined in the Contract.

1-7.1.3 Requests for Information (RFI). To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Should You discover a conflict, omission, errors in the Contract Documents, differences with existing field conditions, or have any questions concerning interpretation or clarification of Contract Documents, or when you propose deviations to the standards or design, you shall submit a Request for

Information (RFI) to the City regarding your question or clarification within **1 Working Day**.

2. Your RFI shall meet the following requirements:
 - a) All RFIs, whether by You or your Subcontractor or supplier at any tier, shall be submitted by You to the City.
 - b) RFIs shall be numbered sequentially.
 - c) You shall clearly and concisely set forth the single issue for which interpretation or clarification is sought, indicate Specification Section numbers, Contract Drawing numbers, and details, or other items involved, and state why a response is required from the City.
 - d) RFIs shall be submitted within **1 Working Day** in order that they may be adequately researched and answered before the response affects any critical activity of the Work.
 - e) Should You believe that a response to an RFI causes a change to the requirements of the Contract, You shall, before proceeding, give written notice to the City, indicating that You believe that City response to the RFI to be a Change Order. Failure to give such written notice within **5 Working Days** of receipt of the City's response to the RFI shall waive Your right to seek additional time or cost.
3. The City will respond to RFIs within **5 Working Days** unless the City notifies You in writing that a response will take longer. The **5 Working Days** shall begin when the RFI is received and dated by the City. Responses from the City will not change any requirement of the Contract unless so noted by the City in the response to the RFI. The City will not issue a Change Order for Extra Work or additional time when the issue raised in the RFI was due to your fault, neglect, or any unauthorized deviations from the project design or specifications.
4. If You proceed in resolving a conflict, omission, or any error in the Contract Documents without sending the City an RFI in accordance with the requirements stated above, the City may require You to remove such work at Your cost or back charge You the cost to remove this work.

1-7.2 Contract Bonds. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Before execution of the Contract, file payment and performance bonds with the City to be approved by the Board in the amounts and for the purposes noted. Bonds shall be executed by a responsible surety as follows:
 - a) If the Work is being funded with state or local money, consistent with California Code of Civil Procedure §995.670, the Surety shall be an "admitted surety" authorized by the State of California Department of Insurance to transact surety insurance in the State.

- b) If the Work is being funded with federal money, the Surety shall be listed in the U.S. Treasury Department Circular 570 and shall be in conformance with the specified Underwriting Limitations.

To the "WHITEBOOK", item 2, subsection "a", subsection "i", DELETE in its entirety and SUBSTITUTE with the following:

- i. A "Payment Bond" (Materials and Labor Bond) is optional. If no bond is submitted, no payment shall be made until 35 Calendar Days after Acceptance and any lien requirements have been fulfilled. If a bond is submitted, progress payments shall be made in accordance with these Specifications.

To the "WHITEBOOK", item 2, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) For Contracts over \$100,000:
 - i. A "Payment Bond" (Materials and Labor Bond) for 100% of the Contract Price to satisfy claims of material Suppliers and of mechanics and laborers employed on the Work. You shall maintain the bond in full force and effect until Acceptance and until all claims for materials and labor are paid and shall otherwise comply with the Government Code.
 - ii. A "Faithful Performance Bond" for 100% of the Contract Price to guarantee faithful performance of Work, within the time prescribed and, in a manner, satisfactory to the City, that materials and workmanship shall be free from original or developed defects.

To the "WHITEBOOK", item 7, DELETE in its entirety and SUBSTITUTE with the following:

- 7. You shall require the Surety to mail its standard "Bond Status" form to the Engineer at the following address:
Deputy Director
Construction Management and Field Engineering Division
9573 Chesapeake Drive San Diego, CA 92123

SECTION 2 - SCOPE OF THE WORK

2-8

EXTRA WORK. To the "WHITEBOOK", ADD the following:

- 2. Compensation for "Time-and-Material" emergency Contracts.
 - a) You will be compensated for charges directly associated with the project. staff
 - b) Any invoiced off-site work shall include a summary of work.
 - c) Mark up for off-site work shall be the same as on-site work.

SECTION 3 – CONTROL OF THE WORK

3-3

SUBCONTRACTORS. To the "WHITEBOOK", ADD the following:

6. When a Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the City, you shall remove such Subcontractor immediately upon written request of the City and shall request approval of a replacement Subcontractor to perform the Work in accordance with California Public Contract Code (PCC), Subletting and Subcontracting, Section 4107, at no added cost to the City.

3-13.1

Completion. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall submit a written assertion that the Work has been completed and is ready for Owner Acceptance. If, in the Engineer's judgment, the Work has been completed in accordance with the Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date that you are relieved from responsibility to protect and maintain the Work and to which liquidated damages will be computed.

3-13.1.1

Requirements Before Requesting a Walk-through. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

3-13.1.1

Requirements Before Requesting Substantial Completion.

1. The following items are required prior to requesting a Substantial Completion:
 - a) Remove temporary facilities from the Site.
 - b) Thoroughly cleaning the Site and removing all mark outs and construction staking.
 - c) Provide completed and signed Red-lines in accordance with 3-7.3 "Redlines and Record Documents".
 - d) Provide all material and equipment maintenance and operation instructions and/or manuals.
 - e) Provide all tools which are permanent parts of the equipment installed in the Project.
 - f) Provide and properly identify all keys for construction and all keys for permanent Work.
 - g) Provide all final Special Inspection reports required by the applicable building Code.
 - h) Provide all items specified to be supplied as extra stock. Wrap, seal, or place in a container all items as necessary to allow for storage by the City for future use. Verify the specified quantities.

- i) Ensure that all specified EOCP and certified wage rate documentations covering the Contract Time have been submitted.
- j) If the Work includes installing an irrigation system, provide the spare parts for the proposed irrigation system as specified in the Special Provisions.
- k) If the Work includes sewer and storm drain installations, the inspection shall include televising in accordance with 306-18, "VIDEO INSPECTION".
- l) If the Work includes a Plant Establishment Period, Work in accordance with 801-6, "MAINTENANCE AND PLANT ESTABLISHMENT" shall be completed prior to requesting Substantial Completion, unless approved otherwise by the Owner.
- m) Notify the Engineer to arrange a final inspection of any permanent BMPs installed.

3-13.1.2 Walk-through and Punchlist Procedure. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall notify the Engineer 15 Working Days in advance of date of anticipated Substantial Completion to allow time for Engineer to schedule a Walk-through.
2. After you complete the requirements in 3-13.1.1, "Requirements Before Requesting Substantial Completion" and when you consider that the Work is Substantially Complete, you will notify the Engineer in writing that the Project is Substantially Complete and request a Walk-through. The Engineer will review your request and determine if the Project is ready for a Walk-through, by verifying whether you have completed all items as required by 3-13.1.1, "Requirements Before Requesting Substantial Completion". Within 7 Working Days, the City will either reject your request for a Walk-through in writing or schedule and conduct a Walk-through inspection. The Engineer shall facilitate the Walk-through.
3. The following documents shall be provided at the time of your Walk-through request: As-Built markup, Plans, specifications, technical data such as submittals and equipment manuals, draft final payment, warranties, material certifications, bonds, guarantees, maintenance service agreements, and maintenance and operating manuals.
4. Written warranties, except manufacturer's standard printed warranties, shall be on a letterhead addressed to you. Warranties shall be submitted in the format described in this section, modified as approved by the City, to suit the conditions pertaining to the warranty. Lack of submitting these items will delay start of Walk-through.
5. The Engineer will provide you with the Punchlist within 15 Working Days after the date of the Walk-through. The City shall not provide a preliminary Punchlist.

6. If the Engineer finds that the Project is not Substantially Complete as defined herein, the Engineer will terminate the Walk-through and notify you in writing.
7. If, at any time during the Engineer's evaluation of the corrective Work required by the Punchlist, the Engineer discovers that additional corrective Work is required, the Engineer may include that corrective Work in the Punchlist.
8. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, all operation and maintenance manuals have been approved, all necessary warranty letters have been received, and the work is formally accepted by the City.
9. The Engineer shall meet with you within 5 Working Days of notification that all Punchlist items are corrected. You shall complete the Punchlist within 30 Working Days and Working Days will continue to be counted until Acceptance of the Project.

3-13.2 Acceptance. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall provide the completed, signed, and stamped DS-563 to the Engineer prior to Acceptance.
2. You shall deliver the final As-builts and final billing prior to Acceptance.
3. You shall assemble and deliver to the Engineer a Final Summary Report and Affidavit of Disposal prior to Acceptance.
4. Acceptance shall occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, you have fully performed the Contract, the Engineer will recommend to the City Engineer that your performance of the Contract be accepted. You shall receive notification of Acceptance in writing from the Owner and counting of working days shall cease and Warranty begins.
5. Retention can be released 35 Calendar Days after NOC. Submit your request for retention to the Resident Engineer and they will mail to you a "Release of Claims" form which shall be completed and returned before the retention will be released.

3-13.3 Warranty. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City has Beneficial Use or takes Occupancy of the project earlier (excluding water, sewer, and storm drain projects).
2. You shall warranty the Work free from all latent defects for 10 years and patent defects for a period of 4 years.

3. The warranty period for specific items covered under manufacturers or suppliers' warranties shall commence on the date they are placed into service at the direction of the Engineer in writing.
4. All express warranties from Subcontractors, manufacturers', or Suppliers', of any tier, for the materials furnished and Work performed shall be assigned, in writing, to the City, and shall be delivered to the Engineer prior to the Acceptance of your performance of the Contract.
5. Replace or repair defective materials and workmanship in a manner satisfactory to the Engineer after notice to do so from the Engineer and within the time specified in the notice. If you fail to make such replacements or repairs within the time specified in the notice, the City may perform the replacement or repairs at your expense. If you fail to reimburse the City for the actual costs, your Surety shall be liable for the cost.
6. Items that shall be warrantied free from defective workmanship and materials for a period longer than 1 year are as follows:

Specified Item	Minimum Warranty Period
Detectable Warning Tile Construction	3 Years of Manufacturer's Warranty
All Work Under SECTION 500 – PIPELINE REHABILITATION	3 Years
Fiber Optic Interconnect Cables	2 Years
Luminaires*	10 Years of Manufacturer's Warranty
LED Signal Modules	3 Years of Manufacturer's Warranty
Field Devices Associated with 700-6.3, "Adaptive Control Note"	See 700-6.3.9, "Warranty"

* Provide documentation verifying that the induction luminaire models being offered for the Project are covered by the 10-year warranty.

7. If installed, you shall provide the City and property owner a copy of the manufacturer's warranty for private sewer pumps, including the alarm panel and all other accessories.
 - a) You shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
 - b) Nothing in here is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.

- c) The warranty shall include all components. The form of the warranty shall be approved by the Engineer in accordance with 3-13.3.2, "Warranty Format Requirements".
8. If, during the warranty period, any item of the Work is found to be Defective Work, you shall correct it promptly after receipt of written notice from the City to do so. The warranty period shall be extended with respect to portions of the Work corrected as part of the warranty requirements.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-4 INSURANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

5-4 INSURANCE.

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

5-4.1 Policies and Procedures.

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees, or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided, and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

5-4.2 Types of Insurance.

5-4.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

5-4.2.2 Commercial Automobile Liability Insurance.

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

5-4.2.3 Contractors Pollution Liability Insurance.

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.

2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor's insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

5-4.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.

1. You shall provide at your expense or require your Subcontractor to provide, as described below, Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. The deductible shall not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies shall be procured before the Work commences and

shall be maintained for the duration of this Contract. Claims Made policies shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work under this Contract without advancing the retroactive date.

5. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

5-4.3 Rating Requirements. Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

5-4.3.1 Non-Admitted Carriers. The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

5-4.4 Evidence of Insurance. Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer, or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

5-4.5 Policy Endorsements.

5-4.5.1 Commercial General Liability Insurance.

5-4.5.1.1 Additional Insured.

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,

- c) your Work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
- a) Ongoing operations performed by you or on your behalf,
 - b) your products, or
 - c) premises owned, leased, controlled, or used by you.

5-4.5.1.2 Primary and Non-Contributory Coverage. The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents, and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents, and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.1.3 Project General Aggregate Limit. The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

5-4.5.2 Commercial Automobile Liability Insurance.

5-4.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired, or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

5-4.5.3 Contractors Pollution Liability Insurance Endorsements.

5-4.5.3.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,

- c) your work, e.g., your completed operations performed by you or on your behalf, or
- d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

- 2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

5-4.5.3.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents, and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.3.3 Severability of Interest. For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

5-4.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.

5-4.5.4.1 Additional Insured.

- 1) The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,
 - c) your work, e.g., your completed operations performed by you or on your behalf, or

d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2) In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

5-4.5.4.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents, and representatives shall be in excess of your insurance and shall not contribute to it.

5-4.5.4.3 Severability of Interest. For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

5-4.6 Deductibles and Self-Insured Retentions. You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

5-4.7 Reservation of Rights. The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles, and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

5-4.8 Notice of Changes to Insurance. You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

5-4.9 Excess Insurance. Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

5-4.11

Workers' Compensation Insurance and Employers Liability Insurance.

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit
3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

5-4.11.1

Waiver of Subrogation. The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

5-10.2.1

Public Notice by Contractor. To the "WHITEBOOK", items 2 and 3, DELETE in their entirety and SUBSTITUTE with the following:

1. No less than 5 Working Days in advance of Project construction activities and utility service interruptions, you shall notify all critical facilities, businesses, institutions, property owners, residents, or any other impacted stakeholders within a minimum 300-foot (90 m) radius of the Project. Verbal and written notifications shall be sent to critical facilities (including but not limited to police stations, fire stations, hospitals, and schools). A copy of written notifications sent to any critical facility shall also be sent to the Resident Engineer. You shall keep records of the people contacted, along with the dates of notification, and shall provide the record to the Engineer upon request. You shall identify all other critical facilities that need to be notified.
2. Furnish and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets:
 - a) Where Work is to be performed at least Working 5 Working Days before starting construction or survey activities or impacting the community as approved by the Resident Engineer.

- b) Within 5 Working Days of the completion of your construction activities where Work was performed, you shall distribute public notices in the form of door hangers, which outlines the anticipated dates of Asphalt Resurfacing or Slurry Seal.
- c) 72 hours in advance of the scheduled resurfacing.

5-13 ELECTRONIC COMMUNICATION. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. Virtual Project Manager shall be used on this Contract.
- 2. You shall post all communications addressed to the Engineer concerning construction including RFIs, submittals, daily logs including the Weekly Statement of Working Days (WSWD), Storm Water, and transmittals to the Virtual Project Manager (VPM) website established for the Projects. This shall not supersede any Federal requirements.
- 3. Maintain a list of scheduled activities including planned and actual execution dates for all major construction activities and milestones defined in the approved Schedule.
- 4. Review and act on all communications addressed to you in the VPM project website.
- 5. A user's guide to the VPM system is available on the City's website and shall be provided to you at the Pre-construction Meeting. Refer to the VPM training videos and forms at the location below:
<https://www.sandiego.gov/ecp/edocref/>
- 6. Submit the Sensitive Information Authorization Acknowledgement Form and VPM User Agreement located in the VPM user's guide at the Pre-construction Meeting.

5-15.1 General. To the "WHITEBOOK", item 10, DELETE in its entirety and SUBSTITUTE with the following:

- 10. If your construction activities have encountered flammable liquids or other hazardous substances, you shall ensure that construction staff have the required Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. Construction staff shall include: City Engineers, City Laboratory Technicians, and City staff that perform onsite inspections.
 - a) If your Work encounters flammable liquids or other hazardous substances, you shall be responsible for scheduling training for all construction staff to attend and for submitting verification to the Engineer that construction staff have the required HAZWOPER certification prior to continuing that Work in that area. You shall maintain the HAZWOPER certifications annually until the construction activities triggering the requirement is complete, as approved by the Resident Engineer.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1.1 Construction Schedule. To the "GREENBOOK", paragraph (1), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

After notification of award of the Contract and prior to the start of any Work, you shall submit your proposed Cost Loaded Construction Schedule to the Engineer at the pre-construction meeting.

To the "WHITEBOOK", item 1, subsection "e", "s", and "h", DELETE in their entirety and SUBSTITUTE with the following:

- e) Monthly progress payments are contingent upon the submittal of an updated Schedule to the Engineer. The Engineer may refuse to process the whole or part of any monthly payment if you refuse or fail to provide an acceptable schedule.
- s) Refer to the Sample City Invoice materials in Exhibit O – Sample City Invoice and use the format shown.
- h) Your Schedule shall include 7 Working Days for the Engineer to schedule and conduct a Walk-through inspection and 15 Working Days for the generation of the Punchlist. You shall Work diligently to complete all Punchlist items within 30 Working Days after the Engineer provides the Punchlist.

6-1.1.2 Contracts More Than \$500,000 In Value. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

- 1. Provide the Schedule to the Engineer in accordance with 6-1.1, "Construction Schedule" and 6-1.2, "Commencement of the Work".

To the "WHITEBOOK", item 2, DELETE in its entirety.

6-1.2 Commencement of the Work. To the "WHITEBOOK", ADD the following:

- 5. You shall submit a Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule" at the scheduled pre-construction meeting.
- 6. If a Cost Loaded Construction Schedule is not provided, the pre-construction meeting will still be held. The Contract Time shall commence at issuance of the NTP, but you shall be limited to the following activities until the Cost Loaded Construction Schedule has been submitted to the Resident Engineer with no exceptions taken:
 - a) Mobilization of your trailers, associated utility setup, and grading for trailer area
 - b) Permit Procurement
 - c) Fencing and temporary utilities for your storage areas
 - d) Submittal of anticipated critical path submittals

6-1.5.2 Excusable Non-Compensable Delays. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

6-1.5.2 Excusable Non-Compensable and Concurrent Delays.

1. The City shall only issue an extension of time for Excusable Delays that meet the requirements of 6-4.2, "Extensions of Time" for the following circumstances:
 - a) Delays resulting from Force Majeure.
 - b) Delays caused by weather.
 - c) Delays caused by changes to County, State, or Federal law.
2. When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay.
3. When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time but shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable Compensable Delay.

6-4.2 Extensions of Time. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
 - a) If you believe this event requires a Change Order, you shall submit a written Change Order request with a report to the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.
3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
 - a) The event causing the delay impacted the activities along the Project's critical path.
 - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your

control and without your fault or negligence and that all project float has been used.

4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.
 - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

6-4.4 **Written Notice and Report.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with 6-4.2, "Extensions of Time", will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

ADD:

6-6.1.1 **Environmental Document.**

1. The City of San Diego prepared a **Notice of Exemption for Emergency Repair of Sewer Pump Station 1, Motors 5 and 6**, Project No. **21005065**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Exhibit J**.
2. Compliance with the City's environmental document shall be included in the Contract Price unless separate bid items have been provided.

SECTION 7 – MEASUREMENT AND PAYMENT

7-3.1 **General.** To the "GREENBOOK" and "WHITEBOOK", paragraph (8), DELETE in its entirety and SUBSTITUTE with the following:

If, within the time fixed by law, a properly executed notice to stop payment is filed with the City, due to your failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment in accordance with applicable laws.

To the "WHITEBOOK", ADD the following:

1. Unless specified otherwise, the Contract Price includes use, consumer, and other taxes mandated by applicable legal requirements.

2. As provided in §7105 of the California Public Contract Code, if the Contract is not financed by revenue bonds, you are not responsible for the cost of repairing or restoring damage to the Project when damage was proximately caused by an act of God, in excess of 5% of the Contract Price, if the following occur:
 - a) The Project damaged was built in accordance with the Contract requirements.
 - b) There are no insurance requirements in the Contract for the damages.
3. COST OVERRUN NOTIFICATION: You shall promptly notify the City in writing of any potential cost overruns. Cost overruns shall include, but are not limited to the following:
 - a) Where the total cost for the performance of the scope of services defined in Section 1 - Description of Work appears that it may be greater than the maximum compensation for this Contract.

7-3.2

Partial and Final Payment. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. The Final Payment, which is the release of Retention, shall be paid to you after you have successfully submitted the following required documents:
 - a) An affidavit that payrolls and bills for materials, equipment, and other indebtedness connected with the Work for which the City or the City's property might be responsible for or encumbered by.
 - b) A certificate evidencing that insurances required by the Contract Documents shall remain in force after Final Payment is currently in effect and shall not be canceled or allowed to expire until at least a 30 Calendar Days prior written notice has been given to the Engineer.
 - c) Consent of Surety to Final Payment.
 - d) If required by the Engineer, other data establishing payment or satisfaction of obligations such as receipts, releases and waivers of liens, claims, and security interests or encumbrances arising out of the Contract Documents. If a Subcontractor refuses to furnish a release or waiver required by the City, you may furnish a bond satisfactory to the Engineer to indemnify the City against such lien.
 - e) If required in the Contract Documents, the successful completion and submittal of the required reports such as construction demolition, waste recycling, and hydrostatic discharge reports.
 - f) Required EOCP Final Summary Report in accordance with Section 0-12, "Contract Records and Reports", record drawings, operations

manuals, test reports, warranty documentation, and UL labels shall be submitted before requesting the release of retention.

- g) Acceptance of the completed Project by the asset owning Department.

To the "WHITEBOOK", ADD the following:

- 2. Submit an invoice for payment after you successfully complete the required documents and the City will pay the invoice within 30 Calendar Days. The City will pay 6% annually for late retention payments.

7-3.2.1 Application for Progress Payment. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. The City shall not pay progress or partial payments until you submit to the Engineer an acceptable updated Schedule. It is solely your responsibility to prepare and submit the Schedule updates.

7-3.2.2 Amount of Progress Payments. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. The City will pay 6% annually for late progress payments.
- 2. Progress payments will be considered "late" if the following occur:
 - a) The City does not pay the contractor within 30 Calendar Days from receipt of an undisputed and properly submitted invoice. A properly submitted payment invoice means that the City has approved for payment the entire invoice amount or if the Resident Engineer has not disputed any portion of the application within 7 Calendar Days of the date of submission.
 - b) The application for payment does not require signing of a Contract Change Order.
- 3. The Engineer may withhold payment for any of the following reasons:
 - a) Defective or incomplete Work.
 - b) Not providing an updated and accurate Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule".
 - c) Stop notices, wage orders, or other withholdings required by Applicable Law. Your failure to comply with 5-3.3, "Payroll Records" and the Contractor Registration and Electronic Reporting System requirements of the Contract Documents.
- 4. The Engineer may back charge the contract for any of the following reasons:
 - a) Defective or incorrect Work not remedied.
 - b) Damage to City property or a third party's property that was caused by you.

c) Liquidated Damages.

7-3.2.3 Waiver of Claims at Final Payment. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your acceptance of Final Payment constitutes a waiver of affirmative Claims by you, except those previously made in writing and identified as unsettled at the time of Final Payment.

7-3.2.4 Withholding of Payment and Back Charge. To the "WHITEBOOK", DELETE in its entirety.

7-3.5.1 General. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Unit Bid prices shall not be subject to adjustment regardless of quantity used, or if none is used, for the following Bid items:
 - a) imported backfill
 - b) shoring
 - c) water services
 - d) house connection sewers
 - e) water pollution control items
2. Upon discovery and prior to the Work, you shall notify the Resident Engineer if there is a change in Bid item quantity that increases the total Contract Price by 5% or \$100,000 or more, whichever is less.

7-3.11 Compensation Adjustments for Price Index Fluctuations. To the "WHITEBOOK", ADD the following:

1. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

7-4.3 Markup. To the "WHITEBOOK", item 4, DELETE in its entirety and SUBSTITUTE with the following:

1. When a Subcontractor is performing Extra Work, the allowance for overhead and profit shall be applied to the labor, materials, and equipment costs of the Subcontractor as follows:

Regardless of the number of a Subcontractor's tasks for Extra Work, you may only apply 10% for the first \$50,000 of the Subcontractor's portion of accumulated total cost then 5% for any remaining costs. You shall not apply 10% to any costs after the first \$50,000 of accumulated total costs from performing Extra Work.

If the accumulated costs of single or subsequent tasks exceed the \$50,000 threshold, you shall instead only apply 5% to any amounts in excess of the \$50,000.

Regardless of the number of hierarchical tiers of Subcontractors, you may only markup a Subcontractor's Work once.

SECTION 1001 – CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

1001-1 **GENERAL.** To the "WHITEBOOK", ADD the following:

7. Based on a preliminary assessment by the City, this Contract is subject to **WPCP.**
-

EXHIBIT L

CONTRACTORS COMPENSATION RATE SCHEDULE



City of San Diego Emergency Project San Diego Station #1

COMPENSATION RATE SCHEDULE

ORION CONSTRUCTION			
Title/Classification	Standard Rate (\$)/Hour	Overtime Rate (\$)/Hour	Double-time Rate (\$)/Hour
Superintendent	140	210	280
Foreman	115	172	230
Operator Group 8	108	162	216
Group 1 Oiler/Grade Checker	98	147	196
Truck Driver	88	132	176
Laborer/Pipelayer	86	129	172
Carpenter	89	133	178
Mechanic	91	136	182
Apprentice Operator	89	133	178
Apprentice Laborer	47	70	94
Project Manager	175	N/A	N/A
Project Staff Engineer	125	N/A	N/A
Engineering Project Director	220	N/A	N/A
Engineer (P.E.) QA/QC	190	N/A	N/A
PM/Design Engineer	190	N/A	N/A
Sr. CADD Tech	125	N/A	N/A
Admin/Office	85	N/A	N/A
Environmental Engineer/SWPPP Coordinator	175	N/A	N/A

Travel Time: Customer will be advised if travel time is applicable

Overtime Rates: All hours outside regularly constituted shift shall be time and one half. Saturday is time and one half.

Sundays and holidays shall be paid at double time. Operators, Laborers, Teamsters, Cement Masons, Electricians - first four (4) hours outside regular shift and first twelve (12) hours on Saturday is time and one-half, all additional hours at double time including holidays.

Emergency "call out work" - Four (4) hour minimum for labor and equipment.

Markup: Material, subcontractors, subsistence, and outside rentals (including fuel costs), will be billed cost plus sales tax where applicable, plus mark-up of: **Labor: 20%, Material: 15%, Equipment 15%, Specialists Vendors 15% and Subcontractors 10% for the first \$50,000.00.**

2185 La Mirada Drive, Vista, CA 92081, (760) 597-9660 Phone (760) 597-9661 Fax



City of San Diego Emergency Project San Diego Station #1

COMPENSATION RATE SCHEDULE

ORION CONSTRUCTION			
Classification	Standard Rate (\$)/Hour	Overtime Rate (\$)/Hour	Double-time Rate (\$)/Hour
Specialist Vendors: Koffler Electrical (Induction Motor rebuild) C.T.I. Electric (Wire diagram, starter repair)	Rate Plus 15% markup	Rate Plus 15% markup	Rate Plus 15% markup
Materials (T.B.D.)	Cost-plus 15% markup	N/A	N/A
Subcontractor under \$50,000.00 (N/A)	Rate Plus 10% markup up to \$50,000.00	Rate Plus 10% markup up to \$50,000.00	Rate Plus 10% markup up to \$50,000.00
Subcontractor over \$50,000.00 (N/A)	Rate Plus 5% markup over \$50,000.00	Rate Plus 5% markup over \$50,000.00	Rate Plus 5% markup over \$50,000.00

- All subcontractor may have their own term and conditions associated with projects
- **Additional cost may incur for warranty packages** on said equipment, motors, electrical panels, etc
- **WARRANTY EXCLUSIONS:**
- Alterations to the Work not performed by the contractor (Orion Construction)
- Abuse of, or damage to, the Work caused by third parties
- Improper use of the material and equipment other than for its intended purpose
- The owner's failure to properly operate or maintain the Work, including monitoring or servicing equipment if required by the specifications
- Any/ all existing equipment not explicitly included in said contract
- Normal wear and tear

Travel Time: Customer will be advised if travel time is applicable

Overtime Rates: All hours outside regularly constituted shift shall be time and one half. Saturday is time and one half.

Sundays and holidays shall be paid at double time. Operators, Laborers, Teamsters, Cement Masons, Electricians - first four (4) hours outside regular shift and first twelve (12) hours on Saturday is time and one-half, all additional hours at double time including holidays.

Emergency "call out work" - Four (4) hour minimum for labor and equipment.

Markup: Material, subcontractors, subsistence, and outside rentals (including fuel costs), will be billed cost plus sales tax where applicable, plus mark-up of: **Labor: 20%, Material: 15%, Equipment 15%, Specialists Vendors 15% and Subcontractors 10% for the first \$50,000.00.**

2185 La Mirada Drive, Vista, CA 92081, (760) 597-9660 Phone (760) 597-9661 Fax

State of California
California State Transportation Agency

Department of Transportation
Division of Construction

Labor Surcharge and Equipment Rental Rates (Cost of Equipment Ownership)



Effective April 1, 2020 through March 31, 2021



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FOR DOUBLE-SIDED PRINTING

**USER'S GUIDE
FOR LABOR SURCHARGE AND EQUIPMENT RENTAL RATES
April 1, 2020 - March 31, 2021**

Equipment Rental Rates are available on the Internet at:

<http://www.dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge>

Miscellaneous Equipment Rental Rates are available on the Internet at:

<http://www.dot.ca.gov/programs/construction/miscellaneous-equipment-rental-rates-and-labor-surcharge>

The miscellaneous listing is updated daily.

Changes

Books are no longer available in hard copy and should be downloaded from the internet and printed.

Changes to the equipment rates in the April 1, 2020 book are the result of: 1) fuel costs increased; 2) interest rates decreased; 3) Producers' Price Index increased; 4) no change in sales tax; and 5) no change in freight (F.O.B.) rates.

Labor Surcharge

The labor surcharge compensates the contractor for statutory payroll items stipulated by various governmental agencies. The six items included are worker's compensation, social security, Medicare, Federal unemployment insurance, State unemployment insurance, and State training taxes. The general rate is an average of the job classifications common to Caltrans projects. The labor surcharges in the April 1, 2020 book are the result of some changes in worker's compensation rates. The rates were derived from using the pure premium rate approved by the Insurance Commissioner effective January 1, 2020 and increasing it by the historical statewide average expense. In the calculation of the labor surcharge for overtime work, the worker's compensation is not included on the premium portion of overtime, as provided by worker's compensation regulations.

The surcharge percentage to be applied to the actual wages paid as provided in Section 9-1.04B [9-1.03A(1b)] of the *Standard Specifications* will be **10 percent for regular time (R.T.) and 10 percent for overtime (O.T.)**.

Exceptions to the general rate are listed below. These classifications were chosen because of high worker's compensation insurance costs. Forward questions, regarding worker's compensation rating and proper labor surcharge usage, to the rental rate personnel in the Division of Construction.

A

EXCEPTIONS

<u>Type of Work Performed</u>	<u>Labor Surcharge Percent</u>	
	R.T.	OT
Concrete Construction - Bridge.....	10	10
Drilling	12	12
Fence & Guardrail Construction	10	10
Erection of structural metal for metal bridges, excluding sign bridge	13	12
Landscape Gardener	10	10
Mobil Crane & Hoist Service.....	12	12
Painting Steel Structures or Bridges	13	12
Pile Driving, not including drilled, cast-in-place concrete piles	18	16
Sign Erection or Repair	13	12
Wrecking & Demolition	12	12

An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act.

Background

By the authority described in Section 9-1.04 [9-1.03A] of the *Standard Specifications*, compensation for work paid by force account is determined to be the total of the direct equipment costs (rental rate) plus a 15 percent markup for all overhead not included as direct costs. The direct costs include fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance, depreciation, storage, cost of facilities capital, overhaul and all incidentals. The labor costs required to provide the above listed items are also included. The operator cost is not included in the equipment rate.

The calculated rate represents the cost of owning and operating the equipment, which is likely to be lower than the rate charged by a rental yard. The rental yard rate may include additional overhead and profit as well as a premium for short-term rentals. In certain situations, factors are applied to the calculated rates to provide ownership-only rates for delay situations or operating-only rates for overtime situations. The rates are calculated using factors for the direct cost items described above. The factors represent an average and are applied to all makes and models of equipment within the class. **All rates are hourly, unless stated otherwise.**

Overtime and Multiple Shifts

Certain equipment costs are fixed on an annual basis, no matter how many hours are worked. Once an estimate of the costs and hours of use is made, a rate can be determined. When more than the estimated number of hours are worked (Overtime or Multiple Shift), a duplication of payment occurs on the fixed cost portion of the equipment rate.

In order to avoid this duplication, Caltrans uses a reduced rate for the Overtime or Multiple Shift situations. The definition of Overtime or Multiple Shift periods is:

Overtime hours occur after the equipment has worked at force account, eight hours per day (or after the daily equivalent of forty hours per week for special work schedules - 4/10 or 9/80). Multiple shift hours will be paid at the same rate as overtime hours.

The hours shown on the Daily Extra Work Bill will determine when the Overtime and Multiple Shift is to be used. **When the hours worked on force account are eight or less, straight time rates will be used.** When the hours worked on force account are more than eight, Overtime and Multiple Shifts rates will be used. Saturday, Sunday or holiday work will be paid at the overtime rate except in those cases where these days are considered working days in the special provisions.

Be advised the computed overtime rates are no longer rounded and now equal the product of the straight time rate and overtime factor. The Overtime and Multiple Shift Factors are recalculated annually to reflect changes in the operating costs.

Delays

As described in Section 8-1.07C [8-1.09] of the *Standard Specifications*, the Delay Factor may be applied to the equipment rental rate. The Delay Factor may be the basis for compensation for idle equipment time on an excusable delay. The factor has been calculated to include the ownership costs without including operating costs. The Delay Factor recovers all the contractor's non-operating costs in an eight-hour day. If payment is made for equipment on an excusable delay, it is limited to eight hours per day or forty hours per week maximum.

The NONOP class for non-operated items and the TRAFIC class for traffic safety devices have been separated from traditional "rolling stock" equipment when calculating the Delay Factor. These classes are comprised of items whose depreciable lives are related to the number of uses per year, rather than the number of hours per year. Accordingly, the reasonable compensation for the contractor's actual loss has been estimated to equal the cost of facilities capital. **It should be recognized that these items must be out of service before the Delay Factor is applied. For example, if work behind K-rail is delayed, the K-rail should be paid straight time until it is no longer controlling traffic.**

Any use of this factor must have the prior approval of the resident engineer. The Delay Factor is recalculated annually to reflect changes in the operating costs.

Use of Daily Extra Work Bill

Identification codes and rates are intended to be used with the Department's Internet change order billing system. The class is abbreviated using a 5-digit alpha-code, the make (manufacturer), a 4-digit alpha-code, and the code a 7-digit alpha-numeric code. All three codes must be used to define the equipment when using the automated pay system. Since the majority of items are described by per hour rates, each line has an entry for hours with an allowable maximum of 24. Special items with other than hourly rates should be appropriately checked and then entered in the Regular Hours column. For example, 50 Traffic Cones used 3 days (converts to 1.5, 100-cone-days) requires 1.5 be entered in the Regular Hours column. Note that any entry in the Delay Factor column will automatically apply the Delay Factor to every equipment entry on the current report.

Whenever an identification code cannot be found or the rate for a particular date of work performed is not available, updated information should be requested from the resident engineer. It is the resident engineer's responsibility to establish rates for equipment not found in the *Labor Surcharge and Equipment Rental Rates* publication. Support for this determination is available from both District and Headquarters Construction Offices. **Rates are regularly superseded during contract periods, so avoid the use of old publications or expired rates.**

The equipment is presented with a standard configuration capable of performing work commonly encountered on Caltrans projects. Special attachments or accessories are described under the classification heading in the *Labor Surcharge and Equipment Rental Rates* publication. Attachments other than those described by these remarks will be paid only upon direction of the resident engineer.

EQUIPMENT RENTAL RATE

NOTE--THE FOLLOWING RATES ARE IN EFFECT FROM APRIL 1, 2020 THROUGH MARCH 31, 2021

ATTACHMENTS

TRACTOR ATTACHMENTS -including power control units and accessories necessary to provide a functional attachment. Dozer blades are included in the standard configuration for both crawler and heavy, rubber tire tractors. Rippers are listed from R1 to R8 and Winches for logging or towing are listed from S1 to S5. Equipment model groups are as follows:
 1. Case 300 Thru 800 Series, Cat D-2 thru D-4, Deere 400 & 450, Dresser TD-7, TD-8 and TD-9, Fiat-Allis FD-5 Thru FD-7, Komatsu D21E Thru D37P, Liebherr PR711 & PR721.

2. Case 1150, Cat D-5, Deere 750, Dresser TD-12, Fiat-Allis FD9 & 10, Komatsu D58P, Liebherr PR731.
3. Case 1450 and 1550, Cat D-6, Deere 850, Dresser TD-15, Komatsu D63PE Thru D68P, Liebherr PR741.
4. Cat D-7 & 814, Dresser TD-20, Fiat-Allis 14 & FD14, Komatsu D83P, Terex 82-30
5. Cat D-8 & 824, Dresser TD-25, Fiat-Allis FD20 Komatsu D135A, Terex 82-40 Michigan 280, Raygo CHD 17 & CD-500.
6. Cat D-9 & 834, Fiat-Allis FD30, Raygo CHD 24 & CD 800.
7. Cat D-10, Dresser TD-40, Fiat-Allis FD40, Komatsu 375, Michigan 380, Raygo C.D.H. 30.
8. Cat D-11, Fiat-Allis FD50, Komatsu 475

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Clam action bucket 1 CY & Less	C1	\$4.36
Clam action Over 1 CY to 2 CY	C2	\$7.66
Clam action Over 2 CY to 3.5 CY	C3	\$11.09
Clam action Over 3.5 CY to 5 CY	C4	\$15.81
Clam action bucket Over 5 CY	C5	\$21.86
Ripper on No. 1 models	R1	\$2.62
Ripper on No. 2 models	R2	\$3.43
Ripper on No. 3 models	R3	\$5.72
Ripper on No. 4 models	R4	\$6.47
Ripper on No. 5 models	R5	\$10.61
Ripper on No. 6 models	R6	\$16.78
Ripper on No. 7 models	R7	\$19.47
Ripper on No. 8 models	R8	\$32.44
Winch on No. 1 models	S1	\$3.11
Winch on No. 2 models	S2	\$4.64
Winch on No. 3 models	S3	\$6.14
Winch on No. 4 models	S4	\$7.89
Winch on No. 5 models	S5	\$13.81
Lift gate	TG	\$0.90
Pump, water truck only	TP	\$6.16
Winch, truck	TW	\$0.33
Gas welding hose per 15.2 m (50 lf)	WH	\$0.02
Elec welding lead per 30.5 m (100 lf)	WL	\$0.19

AIR COMPRESSOR

[AIRCP]

DELAY FACTOR = 0.14

OVERTIME FACTOR = 0.87

All types of self contained units, regardless of power (gas, diesel and lpg) or type of compression (reciprocating, screw and vane). The listed rates include 15.2 meters (50 lineal feet) of hose, all hose whips, fittings, couplings and any compressor attachments. Listed in accordance with mfr's rated capacity in liters per second (cubic feet per minute) at 7 bar (100 psi).

PORTABLE

[PORT]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	19 (40)	000-004	\$5.16
19 (40)	76 (160)	004-016	\$19.18
76 (160)	118 (250)	016-025	\$20.82
118 (250)	212 (450)	025-045	\$36.25
212 (450)	354 (750)	045-075	\$59.93
354 (750)	566 (1200)	075-120	\$87.54
566 (1200)	708 (1500)	120-150	\$114.01

AIR DRILLS, CRAWLER

[AIRDL]

DELAY FACTOR = 0.49

OVERTIME FACTOR = 0.55

All types, pneumatically propelled, including attachments. Expendable carbon drill steel, bits and shanks shall be paid by separate invoice. Rated in accordance with the cylinder bore diameter in millimeters(inches).

CRAWLER DRILLS

[CLR]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	100 (4)	0-4	\$26.98
100 (4)	& Over	5	\$27.62

AIR TOOLS

[AIRTO]

DELAY FACTOR = 0.61

OVERTIME FACTOR = 0.41

All types including paving breakers, clay spades and diggers, sinker rock drills, trench diggers, sheeting/spike drivers, backfill tampers and hand held grinding tools. Expendable drill steel, bits and breakers points, grinding wheels and shanks shall be paid by separate invoice. Rated by tool weight in kilograms (pounds), determined in accordance with the mfr's specifications.

AIR TOOLS

[ATOL]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	4.5 (10)	0-10	\$0.45
4.5 (10)	9.1 (20)	10-20	\$0.49
9.1 (20)	13.6 (30)	20-30	\$0.89
13.6 (30)	18.1 (40)	30-40	\$1.04
18.1 (40)	27.2 (60)	40-60	\$1.13
27.2 (60)	& Over	60	\$1.60

ASPHALT DIKE & SHOULDER PAVERS [ASDSP]

DELAY FACTOR = 0.11 OVERTIME FACTOR = 0.91
Includes all attachments, accessories and automatic grade and line control.

A.C. DIKE COMPANY [ACDC]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
No. 1	4050	\$77.43
No. 2	4052	\$61.82
Nos. 43, 44	4054	\$81.40

ASPHALT PAVING COMPANY [APCO]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
E-1	4000	\$103.97
E-2, E3	4002	\$186.15

BLAW-KNOX [B-K]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
RW-35 / 38	4075	\$72.27
RW-85	4077	\$38.65
RW-95	4079	\$61.88
RW-100	4081	\$105.50
RW-195D	4083	\$145.53

DELTA [DLTA]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
DC-1	4095	\$146.09

ASPHALT PAVERS [ASPAV]

DELAY FACTOR = 0.17 OVERTIME FACTOR = 0.87
Includes all attachments, accessories and automatic grade and line control.

BARBER-GREENE [B-G]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BG 220	0805	\$90.99
BG 225	0810	\$98.49
BG 240	0815	\$107.31
BG 245	0820	\$117.15
BG 260	0825	\$138.59
BG 260B	0826	\$177.49
BG 265	0830	\$156.06
RT 435, 4wd	0905	\$115.45
RT 445, 4wd	0925	\$111.73
RT 455, 4wd	0945	\$109.77
RT 455, 4wd, 10-20' screed	0955	\$113.54
RT 465, 4wd	0965	\$145.60
SA 125	1419E	\$87.05
SB 131	1420	\$107.72
SB 140	1425	\$133.59
SA 141	1430	\$92.03
SA 145	1432	\$114.71

SB 170 1440 \$147.95

BLAW-KNOX [B-K]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PF-22	1490	\$40.89
PF-35	1550	\$72.95
PF-115	1750	\$115.05
PF-120H	2010	\$105.76
PF-171	2090	\$160.05
PF-180	2100	\$71.64
PF-180H	2204	\$168.22
PF-200	2250	\$167.73
PF-200, 18' screed	2252	\$170.64
PF-220	2300	\$170.69
PF-400A	2350	\$148.30
PF-500	2404	\$185.17
PF-500, 18' screed	2406	\$188.29
PF-510, 18' screed	2407	\$194.96
PF-3172, 18' screed	2408	\$160.84
PF-3200	2410	\$216.84
PF-5510	2415	\$227.29

CATERPILLAR [CAT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
AP-200	2420	\$45.67
AP-800	2430	\$115.84
AP-1050	2431	\$180.59
AP-1000	2435	\$177.20
AP-1000 4wd	2436	\$183.25
AP-1055B	2438	\$226.48
AP-1055D	2438D	\$285.35
AP-1200	2440	\$148.13

CEDAR RAPIDS [CEDR]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BSF-2H	2550	\$96.30
BSF-3R	2600	\$106.08
CR-351	2668A	\$151.57
CR-351 4wd	2668B	\$156.38
CR-361R (RUBBER TRACK)	2668R	\$185.78
CR-431	2669	\$127.75
CR-551	2670	\$204.23
CR-461	2672	\$202.09
CR-561	2674	\$214.27

LAYTON [LYTN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
F-525	2680	\$22.99
D-550	2682	\$25.50
H-500B	2684	\$7.20

SA 150

1435

\$145.22

ASPHALT WINDROW PICKUP MACHINE [ASPWP]

DELAY FACTOR = 0.08 OVERTIME FACTOR = 0.94
 Includes all attachments and accessories.

ATHEY			[ATHY]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
7-11	5000	\$95.37	
BARBER-GREENE			[B-G]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
BG-610H	5100	\$66.36	
CATERPILLAR			[CAT]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
WE-601B	5200	\$74.12	
CLARK'S WELDING COMPANY			[CLAR]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
500	5300	\$56.42	
601	5304	\$52.03	
Lincoln 660	5305	\$100.19	
C.M.I.			[CMI]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
851	5405	\$93.70	

AUGERS, CRAWLER MOUNTED [AUGCL]

DELAY FACTOR = 0.28 OVERTIME FACTOR = 0.74
 Includes carrier, attachments and accessories with up to 6.1 meters(20 feet) of auger flights. Consumable bits or tips to be paid by separate invoice.

BAYSHORE			[BYSH]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
8400 TD limited access	1500	\$118.69	
TEXOMA			[TXMA]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
TAURUS	2010	\$244.79	
700CL	2100	\$139.11	
WATSON			[WATS]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
2000CM	2500	\$107.59	
2500CM	2505	\$165.86	
3000CM	2510	\$188.16	
3100CM	2515	\$195.27	

AUGERS, HORIZONTAL [AUGHZ]

DELAY FACTOR = 0.27 OVERTIME FACTOR = 0.76
 Includes all attachments and accessories with up to 9.1 meters(30 feet) of auger flight, track and/or pipe pusher. Consumable bits or tips shall be paid by separate invoice. Power unit is included.

AKKERMAN			[AKMN]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
360	5000	\$111.45	
420 series 1250	5002	\$114.34	
AMERICAN AUGER			[AMAU]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
36-350	5014	\$30.29	
BORZALL			[BORZ]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
2300-10	5040	\$10.35	
4265-10	5042	\$14.42	
DITCH WITCH			[D-W]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
2510	5040	\$47.34	

AUGERS, TRUCK MOUNTED [AUGTK]

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.80
 Includes truck/carrier, all attachments and accessories with up to 6.1 meters(20 feet) of auger flight. Consumable bits or tips shall be paid by separate invoice.

ATLANTIC			[ATLN]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
LDH-80	5000	\$181.49	
LDH-100	5005	\$152.51	
LLDH-80	5010	\$193.60	
LLDH-120	5015	\$206.66	
CALWELD			[CALW]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
150-A	5050	\$99.40	
200	5052	\$118.33	
4500LH	5054	\$197.07	
HUGHES			[HUGH]
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
EZ 112	5070	\$64.49	
EZ 120	5071	\$72.80	
LDH-100	5072	\$118.35	
LDH-80	5074	\$116.82	
LLDH-120	5076	\$171.70	
LLDH-80	5078	\$159.04	

P.D.E.	[P.D.E.]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
M-100	5084	\$45.95	
M-400 with hammer	5085	\$35.28	

TEXOMA	[TXMA]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
Economatic 115	5087	\$99.71	
Super Economatic	5089	\$100.86	
80	5090	\$137.37	
270	5093	\$100.57	
330	5095	\$105.31	
330 with hammer	5095B	\$116.75	
500 with hammer	5096B	\$118.60	
600	5097	\$124.43	
700	5099	\$189.81	

WATSON	[WATS]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
1000	6010	\$86.16	
2000	6012	\$154.30	
3000	6014	\$182.41	

BITUMINOUS DISTRIBUTORS [BITDT]

DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.87
 Includes all equipment for handling bituminous materials under pressure.
 Includes pumps, spray bars and other attachments and accessories.

TRAILER MOUNTED	[TLMD]		
Does not include towing unit. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	1136 (300)	0-300	\$7.20

TRUCK MOUNTED	[TRMD]		
Including truck. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	3028 (800)	00-08	\$72.88
3028 (800)	5299 (1400)	08-14	\$90.84
5299 (1400)	6831 (1800)	14-18	\$93.07
6831 (1800)	11355 (3000)	18-30	\$95.00
11355 (3000)	15140 (4000)	30-40	\$99.07

BROOMS & SWEEPING EQUIPMENT [BRMSW]

DELAY FACTOR = 0.15 OVERTIME FACTOR = 0.86
 Includes all attachments and accessories with brooms of any type. Includes broom wear.

BROOMS - MOUNTED & TOWED	[MTTD]		
Includes traction, P.T.O. or engine driven.			
<u>Model</u>		<u>Code</u>	<u>Rate</u>
ALL		ALL	\$30.36

BROOMS - SELF PROPELLED		<u>Code</u>	<u>Rate</u>
<u>Model</u>		ALL	\$44.40
ALL			

SWEEPERS - SELF PROPELLED, PICK UP	[SWSP]		
Rated in accordance with hopper size in cubic meters (cubic yards).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	2.3 (3.0)	0-3	\$102.55
2.3 (3.0)	4.6 (6.0)	3-6	\$136.59
4.6 (6.0)	6.9 (9.0)	6-9	\$159.53

BRUSH CHIPPING & SHREDDING MACHINES [BRUCP]

DELAY FACTOR = 0.08 OVERTIME FACTOR = 0.93
 Includes all attachments, accessories and power unit. Rated in accordance with the cutter head width in millimeters(inches)

BRUSH CHIP & SHRED	[BCSM]		
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	230 (9)	00-09	\$30.46
230 (9)	300 (12)	09-12	\$47.48
300 (12)	405 (16)	12-16	\$46.83

COMPACTORS, HAND GUIDED [COMHG]

DELAY FACTOR = 0.20 OVERTIME FACTOR = 0.82
 Includes pan, vibrating plate, rammer and jumping jack type compactors(gas or diesel). Includes all attachments and accessories. Listed in accordance with the weight in kilograms(pounds)

COMPACTORS	[COMP]		
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	113 (250)	0-250	\$4.05
113 (250)	& Higher	250	\$9.82

CONCRETE MIXERS

[CONMX]

DELAY FACTOR = 0.12

OVERTIME FACTOR = 0.89

STATIONARY OR PORTABLE [SORP]

Rated by Mfr's capacity in cubic meters (sacks or cubic feet).

OVER	TO	Code	Rate
0	0.10 (3.5)	0-3.5	\$2.22
0.10 (3.5)	0.17 (6.0)	03.5-6	\$3.23
0.17 (6.0)	0.31 (11)	06-11	\$4.16
0.31 (11)	0.45 (16)	11-16	\$5.90

TRANSIT MIX [TRMX]

P.T.O. type, including carrier. Rated by Mfr's capacity in cubic meters (cubic yards).

OVER	TO	Code	Rate
6.4 (9)	7.6 (10)	09-10	\$153.51
7.6 (10)	9.2 (12)	10-12	\$153.60

CONCRETE PUMPS

[CONPM]

DELAY FACTOR = 0.17

OVERTIME FACTOR = 0.85

Includes truck/carrier or self powered trailer mounted units. Including attachments, accessories and hoses.

ELBA	[ELBA]	Code	Rate
<u>Model</u>		<u>Code</u>	<u>Rate</u>
K-8020		1000	\$96.35

MAYCO [MACO]

Model	Code	Rate
C-30HD	1020	\$17.93
LST-30/60S	1024	\$30.50

SCHWING [SHWG]

Model	Code	Rate
BPA-1000	1050	\$35.73
WP-1000X	1052	\$48.77
WP-1250X	1054	\$63.17
900-1200 w/28 m boom	1055	\$95.21
900-1200 w/32 m boom	1057	\$111.99
BPL 1200 w/36 m boom	1058	\$119.28

THOMSEN [THOM]

Model	Code	Rate
A-3.75 w/ mixer	1070	\$23.89
A-7 Emergency Inspection and Repair Sewer PS 1-1 Pump 5 and 6 Exhibit M - Contractor's Compensation Rate Schedule	1072	\$21.18
11 pump w/28 m boom	1078	\$117.50
12 pump w/32 m boom	1082	\$134.81

CONCRETE SLIPFORM PAVERS

[CONSF]

DELAY FACTOR = 0.19

OVERTIME FACTOR = 0.85

Includes all attachments and accessories. Detached, independently powered finished bridges or spray/tyne machines are not included.

C.M.I. [CMI]

Model	Code	Rate
SF-250	2002	\$163.05
SF-350 series 2	2004	\$260.54
SF-550	2006	\$348.53

GOMACO [GOMA]

Model	Code	Rate
GP-2000	2020	\$165.45
GP-2500	2022	\$185.60
GP-3500	2024	\$263.89

CONCRETE VIBRATORS

[CONVB]

DELAY FACTOR = 0.33

OVERTIME FACTOR = 0.69

Includes all attachments and accessories. Includes vibrator motor but independent power, whether air or electric, shall be paid as a separate item.

CONCRETE VIBRATORS [CVIB]

Model	Code	Rate
Each Vibrating Head	EVHD	\$1.11

CURB EXTRUSION MACHINES

[CRBEX]

DELAY FACTOR = 0.23

OVERTIME FACTOR = 0.81

Self propelled for asphalt or concrete curb and gutter section. Includes attachments, accessories and molds. Rated by Mfr's maximum width recommendations in millimeters (inches).

CURB EXTRUSION MACHINE [C.E.M.]

OVER	TO	Code	Rate
0	460 (18)	0-18	\$33.59
460 (18)	& Over	18 PLUS	\$97.07

CONCRETE BARRIER SLIPFORM PAVERS

[CRBSF]

DELAY FACTOR = 0.20

OVERTIME FACTOR = 0.84

Includes all attachments, accessories and barrier or curb molds.

C.M.I. [CMI]

Model	Code	Rate
SF-175	3000	\$120.50

CURBMASTER

[CURB]

GOMACO	[GOMA]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
GT-6000-(78&90)	3040	\$83.73	
COMMANDER II	3045	\$95.49	
COMMANDER III	3050	\$132.09	

MILLER FORMLESS	[MILL]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
M-7500	3063	\$98.16	
M-8100	3065	\$138.19	
M-8800	3067	\$173.81	

ELECTRIC GENERATORS & LIGHT PLANTS	[ELGEN]
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DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.88
 Rates are for gas or diesel power and alternating or direct current.

GENERATOR [GEN]
 Rated in accordance with Mfr's output in kilowatts.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	1	000-001	\$0.87
1	3	001-003	\$2.02
3	7.5	003-008	\$4.17
7.5	15	008-015	\$9.34
15	25	015-025	\$14.65
25	50	025-050	\$14.86
50	100	050-100	\$26.67
100	200	100-200	\$53.72
200	300	200-300	\$91.30
300	400	300-400	\$124.52
400	500	400-500	\$156.06

LIGHTS [LITE]
 Includes trailer, pole and generator.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2 Light Set	2 LIGHT	\$4.25
4 Light Set	4 LIGHT	\$8.66

ELECTRIC POWERED HAND TOOLS	[ELTOL]
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DELAY FACTOR = 0.62 OVERTIME FACTOR = 0.41
 Includes electric powered, hand held tools not listed elsewhere in this book. Expendable bits, blades, discs, wheels, etc. shall be paid by separate invoice. Rated in accordance with Mfr's suggested retail price.

TOOLS [TOOL]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
450	600	045-060	\$0.32
600	800	060-080	\$0.43

Emergency Inspection and Repair Sewer PS 1 Pump 5 and 6
 Exhibit M - Contractor's Compensation Rate Schedule

FORK LIFT TRUCKS	[FKLFT]
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DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79
 Includes attachments and accessories. Listed in accordance with the Mfr's maximum rated capacity in kilograms(pounds).

FORK LIFT TRUCKS	[F.L.T.]		
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
454 (1000)	1814 (4000)	010-040	\$29.85
1814 (4000)	2722 (6000)	040-060	\$39.74
2722 (6000)	3629 (8000)	060-080	\$44.83
3629 (8000)	5443 (12000)	080-120	\$61.98
5443 (12000)	7258 (16000)	120-160	\$65.33
7258 (16000)	9072 (20000)	160-200	\$76.60
9072 (20000)	11340 (25000)	200-250	\$75.95
11340 (25000)	13608 (30000)	250-300	\$83.71
13608 (30000)	18144 (40000)	300-400	\$106.92
18144 (40000)	22680 (50000)	400-500	\$128.62
22680 (50000)	34020 (75000)	500-750	\$175.66

GRADERS	[GRADR]
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DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90
 Includes ripper and scarifier attachments and all accessories. Electronic blade control and specialty cutting tools shall be paid separately.

BLADE-MOR [BMOR]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
727	2173	\$26.28
747	2178	\$37.89

CATERPILLAR [CAT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
120G 87V serial	2685	\$71.11
130G 74V serial	2695	\$78.76
12E 99E serial	2710	\$50.24
12F 73G serial	2768	\$76.10
12F 13K serial	2826	\$58.68
12F 89H serial	2884	\$59.17
12G 61M serial	2890	\$80.53
12H	2895	\$92.40
14E 72G serial	3174	\$78.33
14G	3180	\$119.99
14H	3185	\$132.34
140 14U serial	3250	\$79.37
140G 72V serial	3260	\$87.13
140H	3265	\$93.13
143H	3267	\$104.09
16 49G serial	3290	\$102.24
16 49G800 serial	3348	\$149.61
16 G93U serial	3360	\$166.92

800

1000

080-100

\$0.54

160H	3385	\$109.54
163H	3390	\$115.19

ALLIED STEEL & TRACTOR	[AS&T]
<u>Model</u>	<u>Code</u>
	<u>Rate</u>

JOHN DEERE	[DEER]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-570A	3890	\$46.87
JD-570B	3892	\$54.40
JD-670	3900	\$60.93
JD-670A	3905	\$66.98
JD-670CH	3907	\$86.98
JD-770	3910	\$69.26
JD-770A, 770A-H	3915	\$81.16
JD-770B	3916	\$88.46
JD-772CH	3930	\$105.78

800	0300	\$57.49
HYRAM 720	0310	\$6.38
HYRAM 725	0320	\$12.24
HYRAM 730	0330	\$14.72
HYRAM 740	0340	\$21.03
HYRAM 750	0350	\$23.20
HYRAM 77	0360	\$9.53
HYRAM 770	0370	\$23.13
HYRAM 780	0380	\$38.03
HYRAM 790	0390	\$49.26
HYRAM 88	0400	\$16.01

GALION	[GALN]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-400E	4940	\$65.60
T-400A	4980	\$62.96
T-500C	5150	\$73.00
T-500L	5204	\$72.50
T-500M	5210	\$75.05

DELMAG	[DELM]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-12	0500	\$24.77
D-16	0510	\$36.55
D-22	0520	\$58.11
D-30	0530	\$42.98
D-30-32	0540	\$63.20
D-36-32	0560	\$82.21
D46-32	0570	\$97.26
D62-22	0580	\$158.51
D100-13	0590	\$250.83

KOMATSU	[KOMA]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
GD 505A-2	8980	\$68.55
GD 515A-1	8986	\$71.12
GD 605A-2	9000	\$75.67
GD 615A-1	9005	\$82.45
GD 625A-1C	9007	\$106.40
GD 655A-2	9010	\$84.10

FOSTER	[FOST]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
1700	0600	\$138.90
4030	0630	\$194.80
FNV-1800	0660	\$115.97
FNV-4150	0693	\$249.54

HAMMERS, DEMOLITION & PILE [HAMMR]

DELAY FACTOR = 0.23 OVERTIME FACTOR = 0.80
 ABI includes attachments, accessories and power unit. Does not include carrier.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HVR-60	0100	\$38.36

AMERICAN PILE DRIVING EQUIPMENT	[APE]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	0010	\$163.97
180	0050	\$225.85
200/500	0060	\$251.89
300 VIBRO	0075	\$280.18
400B VIBRO	0085	\$449.51

HYDRAULIC POWER SYS	[HPSI]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	0420	\$97.90
260	0430	\$155.01
300	0440	\$186.10

I.C.E.	[ICE]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
44-50	0450	\$234.81
216	0460	\$84.37
416L	0470	\$140.26
812	0480	\$220.45

KENT	[KENT]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
KHB10G	0700	\$19.88
KHB 15G	0710	\$30.73
KHB 30G	0750	\$31.48
KHB 40G	0760	\$54.36

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4XE	0795	\$17.20
6XA	0800	\$13.73
H-10XB	0810	\$37.34
H-12X	0815	\$38.06
H-16X	0820	\$33.14
H-20X	0840	\$36.72
H4X,HXA	0860	\$11.69
H7X	0880	\$14.67

<u>Model</u>	<u>Code</u>	<u>Rate</u>
UB-5	0900	\$8.17
UB-8	0950	\$16.09

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S-84	1000	\$32.81

S-86	1050	\$35.48
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<u>Model</u>	<u>Code</u>	<u>Rate</u>
MB250	1100	\$6.47
MB2900	1120	\$24.78

MB4900	1140	\$43.99
MB550	1160	\$10.21
MB800	1180	\$15.10

<u>Model</u>	<u>Code</u>	<u>Rate</u>
950X	1190	\$35.99
TB1025	1195	\$39.64
TB1425X	1200	\$36.12
TB2225X	1220	\$67.47
TB425	1240	\$14.70
TB825X	1260	\$25.27

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BRH1100	1300	\$38.71
BRH125	1310	\$12.01
BRH250	1320	\$13.36
BRH400	1330	\$12.68
BRH620	1340	\$25.64
BRH750	1350	\$22.76
BRV950	1360	\$23.95

<u>Model</u>	<u>Code</u>	<u>Rate</u>
40.01	1400	\$174.89
40.05	1450	\$174.89
60.05	1460	\$154.09

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1	1500	\$27.15
010	1520	\$39.25
100C	1540	\$41.43
2300	1560	\$149.88
80C	1580	\$31.97

HYDRAULIC CRANES & EXCAVATORS, CRAWLER MOUNTED

DELAY FACTOR = 0.18 OVERTIME FACTOR = 0.84
Includes all attachments and accessories required for lifting or digging.
Pavement breaker or compactor attachments are not included.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 266	0680	\$85.87
C 366	0690	\$99.36
C 744	1075	\$64.78

<u>Model</u>	<u>Code</u>	<u>Rate</u>
9030B	0100B	\$97.81
9040	0110	\$98.68
9060B	0120B	\$205.25
40E E-Boom	1600	\$78.86
40E Y-Boom	1601	\$79.24
50E	1602	\$99.81
125B	1602H	\$80.53
170C	1602N	\$112.43
220B	1602R	\$143.74
880B Y-Boom	1609	\$56.29
980B	1615	\$87.19
1080	1615E	\$76.58
1080B	1615J	\$78.16
1280	1616	\$104.54
1280B	1616E	\$98.54

<u>Model</u>	<u>Code</u>	<u>Rate</u>
304 CR	0200	\$31.61
305C CR	0250	\$42.83
308E2 CR SB	0270	\$48.77
312	0300	\$51.16
312C	0300C	\$62.05

314CL CR	0302CLR	\$63.19	E 300	1657	\$112.23
315L	0305	\$61.88	E 300B	1657B	\$124.53
320	0310	\$81.43	EL 300	1658	\$114.09
320BL	0312	\$85.68	EL 300B	1658B	\$126.53
320C	0312C	\$96.87	CATERPILLAR	308DCR	\$43.37
320CL	0312CL	\$109.26	CATERPILLAR	336EL	\$186.97
320L	0315	\$82.85	CATERPILLAR	336F	\$186.94
321C LCR	0320R	\$118.45	JOHN DEERE	[DEER]	
321D LCR	0321R	\$116.62	<u>Model</u>	<u>Code</u>	<u>Rate</u>
322L	0325	\$101.53	225D LC	1575D	\$109.51
325	0330	\$107.45	330C LC	1600C	\$157.11
325BL	0335	\$125.60	450LC	1645	\$191.94
325L	0340	\$112.03	490	1660	\$42.79
328D LCR	0343DR	\$144.75	490E	1660E	\$54.14
330BL	0345	\$154.07	690A	1685	\$60.15
330CL	0345CL	\$167.40	690B	1695	\$73.34
330D L	0345DL	\$198.59	690C	1697	\$67.69
330L	0350	\$141.61	690D	1697D	\$70.74
345BL	0355	\$198.24	690E LC	1697ELC	\$81.24
350L	0360	\$210.12	790	1698	\$85.21
375L	0365	\$332.19	790D	1698D	\$90.57
205	1617	\$34.92	790E LC	1698ELC	\$99.28
211	1617E	\$52.10	792	1699	\$100.76
213	1617H	\$57.30	890	1700	\$136.29
215	1618	\$57.92	890A	1705	\$124.14
215B LC	1619E	\$65.04	892D LC	1708	\$115.39
215C	1619F	\$71.63	990	1720	\$148.14
215D	1619G	\$79.43	992D LC	1722	\$166.99
225	1620	\$82.70	30	1725	\$20.46
225LC	1621	\$83.22	50	1730	\$32.67
225D LC	1622	\$104.29	70	1735	\$29.96
227	1623	\$86.20	200LC	1745	\$92.93
229	1625	\$112.12	DROTT	[DROT]	
231D	1630	\$127.94	<u>Model</u>	<u>Code</u>	<u>Rate</u>
231DLC	1635	\$129.48	35D E boom	1835	\$59.65
235	1640	\$131.74	35D Y boom	1845	\$60.06
235B	1642	\$146.51	40D E boom	1930	\$75.28
235 Front Shovel	1645	\$141.30	40D Y boom	1965	\$80.29
235B Front Shovel	1647	\$157.33	50D	2005	\$97.43
235C	1648	\$166.90	FIAT-ALLIS	[F-A]	
235DLC	1649	\$172.62	<u>Model</u>	<u>Code</u>	<u>Rate</u>
245	1650	\$221.83	FE 18	9000	\$53.55
245B	1650B	\$244.58	FE 20 HD	9010	\$67.56
245 Front Shovel	1652	\$233.34	FE 20 LC	9020	\$63.79
245B Front Shovel	1652B	\$259.66	FE 28	9030	\$89.81
E 180	1653	\$69.61	FE 40 L	9040	\$153.76
EL 180	1654	\$70.72			
EL 200B	1654E	\$75.40			
E 240	1655	\$89.43			
EL 240	1656	\$90.87			

GRADALL			[GRAD]			KOBELCO			[KOBL]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
G 660	0150	\$72.47	SK200LC MARK III	4687	\$81.76	K 903B	4688	\$38.24	G 660B	0160	\$92.37
G 660C	0170	\$93.10	K 904D	4693	\$41.48	K 904E	4694	\$43.65	G 880B	0210	\$99.05
G 880C	0215	\$94.76	K 904 Mark II	4694A	\$43.44	K 905	4695	\$46.86	XL4200	0260	\$98.48
G 1000	0230	\$155.87	K 905A LC	4697	\$50.51	K 907C	4700	\$67.62	XL5200	0280	\$119.77
HITACHI			[HIT]			K 907D	4702	\$72.73	KOEHRING		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	K 907 LC	4704	\$73.46	<u>Model</u>	<u>Code</u>	<u>Rate</u>	[KOEH]		
UH 07LC	2630	\$70.07	K 909A	4710	\$94.18	366 post 1980	4752	\$116.30	[KOEHRING]		
UH 062	2660	\$76.56	K 909 LC	4711	\$96.66	466E	4990	\$134.00	[KOEHRING]		
UH 172	2695	\$137.54	K 912A	4712	\$111.59	566	5160	\$145.29	[KOEHRING]		
UH 122	2750	\$91.87	K 914	4715	\$133.20	666, 666E	5225	\$183.96	[KOEHRING]		
EX 150	2797	\$64.16	K 916	4717	\$149.26	866, 866E	5235	\$215.13	[KOEHRING]		
EX 200 LC	2800	\$78.21	SK270LC MARK IV	4720	\$116.11	6611	6000	\$43.45	[KOEHRING]		
EX 270 LC	2806	\$114.81	SK400LC MARK IV	4725	\$205.06	6614	6005	\$53.33	[KOEHRING]		
EX 300LC-2	2807	\$135.69				6612	6010	\$51.87	[KOEHRING]		
EX 300LC-3	2807A	\$139.10				6620	6015	\$74.14	[KOEHRING]		
EX 330LC-5	2807B	\$160.66				6625	6020	\$90.21	[KOEHRING]		
EX 370-5	2807F	\$160.21				6633	6029	\$128.35	[KOEHRING]		
EX 400 LC	2808	\$179.70				6644	6040	\$170.26	[KOEHRING]		
EX 450LC-5	2808K	\$220.93				KOMATSU			[KOMA]		
EX 550LC	2809	\$261.07				RATE INCLUDES THUMB.			[KOMA]		
EX 700	2810	\$312.33				<u>Model</u>	<u>Code</u>	<u>Rate</u>	[KOMA]		
EX 750-5	2815	\$351.55				KOMATSU	300LC7T	\$168.42	[KOMA]		
EX 1100	2880	\$406.73				PC 120-5	9485	\$55.45	[KOMA]		
HYUNDAI			[HYUN]			PC 150-1	9490	\$49.92	[KOMA]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>				PC 150-3	9495	\$61.39	[KOMA]		
200LC	2950	\$78.13				PC 200 LC-2	9500	\$62.35	[KOMA]		
210LC-3	2952C	\$95.91				PC 200-5	9504	\$80.78	[KOMA]		
280LC	2960	\$115.84				PC 200 LC-3	9505	\$75.08	[KOMA]		
290LC	2970	\$120.51				PC 200 LC-5	9506	\$81.90	[KOMA]		
450LC	3010	\$180.58				PC 220 LC-2	9510	\$80.44	[KOMA]		
INTERNATIONAL			[INTL]			PC 220 LC-3	9515	\$93.14	[KOMA]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>				PC 220 LC-5	9516	\$100.51	[KOMA]		
630	4250	\$55.54				PC 220 LC-6	9516F	\$108.77	[KOMA]		
640 HD	4260	\$72.96				PC 220 LC-7	9516G	\$117.23	[KOMA]		
650 HD	4280	\$82.11							[KOMA]		
KATO			[KATO]						[KOMA]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>							[KOMA]		
HD450 VII	3050	\$52.73							[KOMA]		
HD700 VII LC	3060	\$76.26							[KOMA]		
HD1250 VII LC	3080	\$128.45							[KOMA]		

PC 280 LC-3	9517	\$105.27	MASSEY FERGUSON	[M-F]	
PC 300 LC-1, LC-2	9520	\$103.91	<u>Model</u>	<u>Code</u>	<u>Rate</u>
PC 300 LC-3	9525	\$123.66	MF 450D	6245	\$44.48
PC 300 LC-5	9526	\$140.12	MF 450S	6250	\$47.81
PC 300 LC-6	9526A	\$152.41	MITSUBISHI	[MITS]	
PC 360 LC-3	9527	\$140.91	<u>Model</u>	<u>Code</u>	<u>Rate</u>
PC 400 LC-1	9530	\$140.86	MS 090	6290	\$31.60
PC 400 LC-3	9535	\$165.06	MS 180-3	6295	\$60.38
PC 400 LC-5	9536	\$184.44	MS 180 LC-8	6296	\$68.30
PC 400 LC-6	9537	\$207.97	MS 230 LC-3	6300	\$78.72
PC 600 LC-6	9539	\$288.51	MS 240 LC-8	6305	\$85.12
PC 650-1	9540	\$257.55	MS 280-2	6310	\$96.42
PC 650-1 Front Shovel	9550	\$272.00	MS 380-2	6320	\$135.15
PC 650-3	9552	\$272.95	MS 450-8	6330	\$156.04
PC 750-6	9555	\$347.81	NORTHWEST	[NW]	
PC 1000-1	9560	\$414.30	<u>Model</u>	<u>Code</u>	<u>Rate</u>
PC 1000 LC-1	9565	\$426.59	35 DH	6335	\$122.23
PC 1100 LC-6	9575LC	\$477.86	45 DH	6340	\$133.35
LINK-BELT	[L-B]		55 DH	6345	\$141.09
<u>Model</u>	<u>Code</u>	<u>Rate</u>	55 DH Series II	6360	\$241.62
LS 1600	5390	\$33.00	P&H	[P&H]	
LS 2650	5395	\$45.99	<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 2700C II	5398	\$62.20	H 750	6628	\$58.26
2700 QUANTUM	5399	\$68.52	H 1250	6630	\$98.05
LS 2800	5400	\$54.06	H 1750	6635	\$121.61
LS 2800A	5402	\$62.23	H 2500	6645	\$156.00
LS 2800A PL	5404	\$54.00	HS 2500	6650	\$160.71
LS 2800 PL	5405	\$51.22	TAKEUCHI	[TAKU]	
LS 2800B	5410	\$68.21	<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 3400	5475	\$90.32	TB 15	7686	\$13.45
LS 3400C II	5477	\$96.08	TB 025	7686A	\$22.73
LS 4300	5660	\$113.95	TB 045	7686E	\$37.62
LS 4300C II	5662	\$125.46	TB 070	7686H	\$38.49
LS 4800	5750	\$131.13	TB 10S	7688	\$10.74
LS 4800 PL	5755	\$117.90	TB 35S	7690	\$21.34
LS 5400	5805	\$152.47	TB 68S	7692	\$30.87
LS 5800	5810	\$158.60	TB 800	7695	\$15.03
LS 5800A	5812	\$167.29			
LS 5800C II	5814	\$174.94			
LS 6400	5820	\$234.71			
LS 7400	5830	\$233.72			
LS 7400A	5840	\$284.50			

**HYDRAULIC CRANES & EXCAVATORS, [HCESP]
SELF PROPELLED.**

DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.88
Includes all attachments and accessories required for lifting or digging.
Pavement breaker or compactor attachments are not included.

BUCYRUS-ERIE	[B-E]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
300C/SP	1670	\$70.47	
320C	1672	\$70.65	
360C	1678	\$70.99	

BADGER	[BAGR]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
4425/30	1565	\$94.92	
4435	1570	\$105.23	
4435B	1573	\$106.51	
4435C	1573C	\$115.70	
4445	1574	\$144.99	
4450	1575	\$111.91	
4450B	1577	\$118.45	
4455	1579	\$145.71	

CASE	[CASE]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
40E E-Boom, Cruz Air	1685	\$60.61	
40E Y-Boom, Cruz Air	1687	\$60.83	
40F E-Boom, Cruz Air	1687H	\$62.85	
40F Y-Boom, Cruz Air	1687K	\$63.67	
45 E-Boom, Cruz Air	1688	\$78.48	
45 Y-Boom, Cruz Air	1689	\$83.21	
45B E-Boom, Cruz Air	1689H	\$82.94	
45B Y-Boom, Cruz Air	1689K	\$83.68	
880R E-Boom	1690	\$54.61	
880R Y-Boom	1695	\$54.74	
1085 E-Boom, Cruz Air	1696E	\$62.71	
1085 Y-Boom, Cruz Air	1696Y	\$63.01	
1085B Y-Boom, Cruz Air	1696Z	\$70.56	
1285 E-Boom, Cruz Air	1697E	\$79.26	
1285 Y-Boom, Cruz Air	1697Y	\$79.41	
3330 Low Profile	1698E	\$32.37	
3330B	1698H	\$32.62	

CATERPILLAR	[C.A.T.]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
206	1699	\$43.61	
212	1699E	\$55.85	
214	1699H	\$60.34	
224	1699J	\$74.28	

GRADALL	[GRAD]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
G 3WD, 4x4	0110	\$91.24	

GROVE	[GROV]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
24	3820	\$34.62	
36	3830	\$56.67	
68	3850	\$65.37	
1012	3870	\$78.25	
2535	3880	\$103.02	
RT-48	4030	\$59.82	
RT-49	4115	\$60.10	
RT-58	4285	\$61.33	
RT-418	4354	\$75.28	
RT-420	4356	\$75.28	
RT-422	4358	\$75.28	
RT-500D	4359	\$103.92	
RT-525	4360	\$70.53	
RT-525B	4362	\$73.40	
RT-525C	4363	\$90.30	
RT-527.5	4365	\$71.37	
RT-528B	4370	\$73.40	
RT-528C	4372	\$90.79	
RT-60	4520	\$71.39	
RT-60S	4540	\$73.31	
RT-515	4606	\$70.37	
RT-518	4607	\$72.29	
RT-520	4608	\$73.80	
RT-522	4609	\$73.05	
RT-522C	4609G	\$88.53	
RT-625	4630	\$79.57	
RT-630	4635	\$79.57	
RT-630B	4637	\$85.12	
RT-635	4640	\$90.57	
RT-65 S	4700	\$95.61	
RT-740	4710	\$106.67	
RT-745	4715	\$134.99	
RT-75 S	4720	\$101.57	
RT-755	4725	\$114.76	
RT-760	4727	\$165.13	
RT-865	4730	\$141.65	
RT-865B	4732	\$193.52	
RT-875	4735	\$174.42	
RT-980	4750	\$169.12	
RT-990	4760	\$195.23	
RT-9100	4790	\$249.08	

KOMATSU			[KOMA]	P&H		
<u>Model</u>	<u>Code</u>	<u>Rate</u>		<u>Model</u>	<u>Code</u>	<u>Rate</u>
PW 210-1	9580	\$100.25		OMEGA 14	5790	\$65.41
				OMEGA 15	5792	\$65.41
				OMEGA 18	5794	\$65.84
LINK-BELT	[L-B]			OMEGA 25	5795	\$87.83
<u>Model</u>	<u>Code</u>	<u>Rate</u>		OMEGA 20	5796	\$66.52
HSP 15	5500	\$68.42		OMEGA 23	5796E	\$69.27
HSP 18	5505	\$68.42		OMEGA 30	5796J	\$90.26
HSP 20	5510	\$74.40		OMEGA 35	5796P	\$91.22
HSP 22	5530	\$75.80		OMEGA 40	5797	\$122.87
HSP 25	5535	\$80.62		OMEGA 45	5797E	\$124.59
HSP 8015	5538	\$79.05		OMEGA 50	5797J	\$125.97
HSP 8018	5538E	\$79.05		OMEGA 60	5798	\$129.96
HSP 8018XL	5538G	\$96.22		OMEGA 65	5799	\$152.87
HSP 8018C	5538H	\$72.06		OMEGA 114	5799C	\$74.36
HSP 8025	5538P	\$82.64		OMEGA 114D	5799G	\$72.41
HSP 8025 S	5538PF	\$83.67		OMEGA 118	5799Q	\$75.87
HSP 8030	5538Q	\$94.69		OMEGA 118D	5799S	\$72.55
HSP 8035	5538R	\$137.78		OMEGA 120	5799U	\$77.51
HSP 8040	5538S	\$137.92		OMEGA 120D	5799W	\$73.26
HSP 8050	5538T	\$140.06		OMEGA 122	5799X	\$78.50
HSP 8055	5538V	\$126.18		OMEGA 122D	5799Y	\$73.84
HSP 8060	5539	\$153.67		OMEGA 125	5799Z	\$78.88
LORAIN	[LORN]			OMEGA 128	5799ZA	\$77.37
<u>Model</u>	<u>Code</u>	<u>Rate</u>		R 150	5890	\$55.84
LRT 15H	5730	\$69.83		R 150-1	5910	\$55.35
LRT 15U	5735	\$71.09		R 180	5975	\$56.17
LRT 18U	5740	\$71.56		R 200	6060	\$56.49
LRT 35U	5745	\$104.34		OMEGA S-15	6062	\$90.54
LRT 40U	5750	\$105.13		OMEGA S-18	6063	\$90.54
LRT 150	5755	\$69.11		OMEGA S-20	6064	\$93.11
LRT 150D	5756	\$84.46		S-35	6064E	\$127.77
LRT 180	5760	\$69.08		PETTIBONE		
LRT 180D	5760D	\$84.46		<u>Model</u>	<u>Code</u>	<u>Rate</u>
LRT 200	5765	\$68.89		16 MK P Series	6500	\$60.85
LRT 200D	5765D	\$84.63		20 MK P Series	6580	\$61.48
LRT 220	5767	\$71.34		25	6740	\$57.58
LRT 230	5768	\$75.73		25 MK P Series	6750	\$62.26
LRT 230D	5768D	\$84.65		29 MK P Series	6880	\$63.30
LRT 250	5769	\$75.76		30	6900	\$57.58
LRT 250D	5769D	\$84.65		30 MK P Series	6903	\$64.29
LRT 275	5770	\$75.76		30 SC, 30 SC P Series	6910	\$89.54
LRT 275D	5770D	\$84.65		60 SC	6990	\$95.63
LRT 330	5772	\$97.66		60 SC P Series	6995	\$102.09
LRT 400	5773	\$111.93		70	7100	\$101.28
LRT 450	5774	\$115.08		70 SC	7165	\$101.57
LRT 500	5775	\$118.11		70 SC P Series	7170	\$107.61
LRT 550	5790	\$123.38		80 MK P Series	7250	\$100.09

80 S.C. P Series 7260 \$101.49

R.O. PRODUCTS [ROP]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MC 5A	8005	\$36.68
MC 50B	8175	\$58.29
MC 50C	8260	\$59.62

HYDRAULIC CRANES & EXCAVATORS, TRUCK MTD. W/ CARRIER	[HCETD]
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DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.89

Includes truck/carrier. Includes all attachment and accessories required for lifting or digging. Pavement breaker or compactor attachments are not included.

BUCYRUS-ERIE [B-E]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
25 XC	1360	\$85.38
30 XC	1370	\$86.02
40 C	1475	\$77.44
60 XC	1590	\$138.42
65 C	1592	\$119.55
90 XC	1600	\$149.84

BADGER [BAGR]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 Hydro-Scopic	0550	\$58.71
460 Hydro-Scopic	0555	\$71.93
666 Hydro-Scopic	0560	\$106.34
888 Hydro-Scopic	0600	\$111.99

BANTAM [BANT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
T 744 Teleskoop	1285	\$69.06
T 888	1310	\$100.40
T 888B	1315	\$117.10

DEVAULT [DVUT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TK 15-10	1900	\$51.35

GRADALL [GRAD]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
G 3W	0120	\$71.74
G 660	0170	\$69.60
G 660B	0180	\$90.55
G 660C	0190	\$87.78
G 800	0210	\$60.67
G 880B	0220	\$98.84
G 880C	0230	\$95.58
G 1000	0240	\$105.25

GROVE

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TD 520	2221	\$106.01
TD 522	2223	\$106.01
TD 525	2224	\$106.91
TMS 250	2850	\$99.58
TMS 250A	2860	\$100.06
TMS 250B	2870	\$100.06
TMS 250C	2875	\$137.67
TMS 300	2922	\$119.01
TMS 300B	2923	\$136.36
TMS 760	3180	\$208.87
TMS 865	3378	\$156.38
TM 875	3380	\$180.82
TMS 875	3385	\$181.69
TM 890	3387	\$197.42
TM 1075	3390	\$163.61

HIAB [HIAB]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
100 AW	3850	\$46.63
1165	3852	\$43.66
170 thru 174	3854	\$42.17
175 thru 177	3855	\$42.32
550, 5501	3857	\$45.01
650	3859	\$45.92

KOEHRING [KOEH]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4460 Teleskoop	4400	\$69.66
4465 Teleskoop	4405	\$70.87
4470 Teleskoop	4410	\$82.39
4475 Teleskoop	4415	\$83.58

LINK-BELT [L-B]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HTC 14	4505	\$97.16
HTC 25	4507	\$97.16
HTC 35	4509	\$106.95
HTC 50	4510	\$141.74
HTC 50W	4520	\$136.33
HTC 814	4530	\$127.44
HTC 814XL	4531	\$132.42
HTC 822 S	4532	\$119.12
HTC 825	4535	\$111.38
HTC 825 S	4536	\$120.18
HTC 830	4537	\$129.37
HTC 835	4539	\$136.32
HTC 835XL	4539C	\$154.10
HTC 840	4539E	\$157.55
HTC 850	4539G	\$162.65

HTC 855	4539H	\$143.08	T-300A	5665	\$114.96
HTC 860	4539J	\$165.39	OMEGA T-400	5666M	\$141.32
HTC 1040	4540	\$155.19	OMEGA T-450	5669	\$143.02
HTC 1050	4545	\$157.49	T-600 XL	5670	\$165.19
HTC 1055	4550	\$146.76	OMEGA T-500	5680	\$143.01
HTC 1060	4555	\$162.12	OMEGA T-650	5745	\$193.19
HTC 11100	4600	\$284.33	T-750	5780	\$135.41

LORAIN [LORN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MCH 140	4942	\$113.73
MCH 150	4946	\$106.47
MCH 180	4947	\$106.47
MCH 300	4953	\$124.34
MCH 350	4955	\$99.47
MCH 400	4957	\$135.90
MCH 500	4960	\$108.62

MANITEX [MANX]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1161	4980	\$49.80
1770	4985	\$82.15
2284	4990	\$84.90
2592	4995	\$86.82

NATIONAL [NATL]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Ser 4/400, 11.3 m (37') boom	4983	\$46.46
Ser 4/400, 14.0 m (46') boom	4984	\$46.66
Ser 4/400, 16.8 m (55') boom	4985	\$46.83
Ser 5/500A/B, 14.3 m (47') boom	4986	\$51.65
Ser 5/500A/B, 17.1 m (56') boom	4987	\$52.25
Ser 6/600, 14.3 m (47') boom	4989	\$51.19
Ser 6/600, 17.1 m (56') boom	4990	\$51.55
856	4995	\$52.05

856B	4996	\$51.22
875	4997	\$52.79
875B	4998	\$54.21
Series 85	4999	\$48.00

P&H [P&H]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
ALPHA 100 ton	5000	\$262.65
CN T-280	5005	\$141.96
T-150	5290	\$104.13
T-180	5380	\$104.57
T-200	5470	\$105.09
T-250	5560	\$122.46
CN T-250	5561	\$144.31
OMEGA T-250	5570	\$116.31

PITMAN [P.I.T.]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Hydralift HL 40 thru 95	6670	\$42.56
Hydralift HL 100 thru 170	6675	\$45.81
HL 857	6685	\$50.78
HL 1200, 1545-T2 or 1580	6695	\$53.13
POLECAT	6697	\$53.92
PELICAN	6699	\$56.78

R.O. PRODUCTS [R.O.P.]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TC-40	6860	\$43.52
TC-50	6862	\$45.09
TC-70	6864	\$46.46
TC-80	6866	\$46.53
TC-85	6868	\$46.05
TC-110	6870	\$50.08
TC-120	6872	\$50.67
TC-125	6874	\$50.33
TC-145	6876	\$53.27
TC-150	6878	\$51.65

**HYDRAULIC CRANES & EXCAVATORS, [HCETG]
TRUCK MTD. LESS CARRIER.**

DELAY FACTOR = 0.10 OVERTIME FACTOR = 0.91
Includes all lifting and digging attachments and accessories. Truck/carrier to be paid separately. Pavement breaker or compactor attachments are not included.

BUCYRUS-ERIE [B-E]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
H-3 series two	1000	\$42.09
H-5 series two	1300	\$49.64

GALION [GALN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
125 P	1970	\$51.08
150 P	1980	\$61.08

GROVE [GROV]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TM 100C	2020	\$73.00
TM 200C	2040	\$58.87

OMEGA T-300	5580	\$119.57
OMEGA T-350	5585	\$120.78

**HYDRAULIC PERSONNEL LIFTS & [HYLFT]
AERIAL WORK PLATFORMS**

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79

Includes self propelled and power take off(P.T.O.) units whether gas, diesel or electric. Rates for any truck or carrier mounted units shall pay for the truck separately. Reach is rated by Mif's maximum extension in meters(feet).

BOOM TYPE		[BOOM]	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	7.6 (25)	00-24	\$16.04
7.6 (25)	15.2 (50)	25-49	\$37.89
15.2 (50)	22.9 (75)	50-74	\$53.10

SCISSOR TYPE		[SCIS]	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	6.1 (20)	00-20	\$17.44
6.4 (21)	9.1 (30)	21-30	\$20.99
9.4 (31)	15.2 (50)	31-50	\$31.23

LOADERS, CRAWLER [LDRCL]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90

Includes all attachments and accessories excluding clam-action buckets and backhoe(see attachment class).

CASE [CASE]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
350B	2370	\$34.85
450B	2610	\$31.98
455B	2620	\$33.74
455C	2620A	\$37.58
1155D	3555	\$65.40
1155E	3556	\$72.17
1450	3560	\$71.99
1450B	3565	\$79.81
1455B	3568	\$80.70

CATERPILLAR [C.A.T.]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
CATERPILLAR	259D	\$42.11
CATERPILLAR	289D	\$44.45
CATERPILLAR	299D2	\$55.12
931B	3735	\$36.00
931C	3735C	\$38.24
931 LGP	3740	\$33.92
931B LGP	3745	\$37.10
935B	3845	\$42.85
935C	3845C	\$45.50
939C	3900	\$64.77
943	4130	\$55.23
943 LGP	4135	\$52.09
951C 86J 1992 serial	4200	\$49.12
951C 86J 2598 serial	4210	\$54.50

951C LGP 86J 2598 ser	4215	\$55.34
953	4220	\$74.50
953 LGP	4230	\$69.57
955L 85J 6247 serial	4675	\$69.56
955L 85J 13X10129 ser	4680	\$75.43
955L LGP 85J 13X10129	4685	\$75.77
963	4690	\$102.84
963 LGP	4693	\$93.36
973	4695	\$158.33
973 LGP	4698	\$131.44
977K	5014	\$80.82
977K 11K serial	5092	\$85.06
977L 11K 3919 serial	5170	\$99.15
977L 11K 5083 serial	5180	\$108.33
977L 14X serial	5185	\$112.80
977L LGP	5190	\$112.46
983	5248	\$153.55
983B	5265	\$165.31

JOHN DEERE [DEER]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD 350C	5420	\$36.85
JD 450C (4 speed PS)	5805	\$36.95
JD 455D	5807	\$38.89
JD 455E	5809	\$39.41
JD 455G	5809A	\$48.39
JD 555	5810	\$41.73
JD 555A	5812	\$46.09
JD 555B	5814	\$45.32
JD 555G	5814A	\$65.71
JD 655	5815	\$66.05
JD 655B	5817	\$76.12
JD 755	5820	\$62.12
JD 755A	5822	\$77.45
JD 755B	5824	\$87.84
JD 855	5830	\$117.21

DRESSER [DRES]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
100E (PS)	9000	\$38.29
100G	9005	\$44.30
125E (PS)	9010	\$47.23
125G	9015	\$53.60
175C (PS)	9020	\$94.27
200	9025	\$108.96
250C (PS)	9030	\$110.94
250E (PS)	9035	\$127.83

KOMATSU

[KOMA]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D 53S-16	7878	\$63.02
D 53S-17	7878A	\$75.69
D 55S-2	7900	\$64.56
D 55S-3	7978	\$64.56
D 57S-1	8000	\$87.54
D 65S-6	8017	\$84.90
D 66S-1	8020	\$118.30
D 75S-2	8056	\$92.09
D 75S-3	8060	\$114.91
D 75S-5	8061	\$168.48
D 155S-1	8080	\$224.70

LOADERS, RUBBER TIRE	[LDRRT]
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DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.89

Includes all attachments and accessories. Clam-action buckets, 4WD and

backhoes are excluded unless otherwise noted.

ALLIS-CHALMERS

[A-C]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
710C	0747	\$35.64
714B	0750	\$34.74
714C w/ backhoe	0752	\$37.23
715B w/ backhoe	0765	\$36.64
715C w/ backhoe	0767	\$37.49

CASE

[CASE]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
W-11	1365	\$33.34
W-11B	1368	\$40.63
W-18	1444	\$56.35
W-18 9213140 serial	1450	\$59.82
W-18B	1460	\$64.55
W-20	1472	\$59.94
W-20B	1480	\$60.71
W-20C	1482	\$65.34
W-30	1565	\$89.55
480B	1636	\$28.34
480B w/ backhoe	1640	\$29.63
480C	1650	\$36.60
480C w/ backhoe	1660	\$38.14
480D	1662	\$41.00
480D w/ backhoe	1664	\$42.92
480E w/ backhoe	1666	\$35.19
480E LL	1667	\$33.99
480F w/ backhoe	1668	\$36.48
480F LL	1669	\$34.74
480LL	1677	\$41.05

580B w/ backhoe	1705	\$37.20
580C	1710	\$29.66
580C w/ backhoe	1715	\$31.53
580D	1717	\$30.99
580D w/ backhoe	1720	\$33.45
580 Super D	1725	\$33.83
580 Super D w/ backhoe	1727	\$36.34
580 Super E	1731	\$34.78
580 Super E w/ backhoe	1735	\$37.48
580K w/ backhoe	1739	\$37.77
580K 4WD w/ backhoe	1740	\$38.84
580 Super K w/ backhoe	1742	\$41.73
580L w/ backhoe	1743	\$41.99
580 Super L 4WD w/ backhoe	1744	\$48.77
590 Turbo w/ backhoe	1745	\$51.01
590 Super L 4WD w/ backhoe	1746	\$53.40
621	1750	\$68.84
721	1752	\$83.62
821	1754	\$102.29
680E w/ backhoe	1840	\$47.90
680G w/ backhoe	1850	\$46.60
680H w/ backhoe	1852	\$49.45
680K w/ backhoe	1854	\$53.97
680L w/ backhoe	1856	\$54.69
680L 4WD w/ backhoe	1857	\$55.48
780 w/ backhoe	1864	\$61.45
780B w/ backhoe	1866	\$65.86
780C w/ backhoe	1867	\$67.03
780D w/ backhoe	1868	\$67.78
780D 4WD w/ backhoe	1869	\$69.15

CATERPILLAR

[CAT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
416 w/ backhoe	1860	\$37.74
416 Series II w/ backhoe	1860A	\$37.96
416B 4WD w/ extend-a-hoe	1861A	\$46.74
416C 4WD w/ backhoe	1861C	\$48.44
416D w/ backhoe	1861D	\$43.66
416D 4WD w/ backhoe	1861D4	\$44.74
420D w/ backhoe	1861M	\$48.96
420D 4WD w/ backhoe	1861M4	\$50.05
420E	1861N	\$59.04
426 w/ backhoe	1862	\$42.66
426 Series II w/ backhoe	1862A	\$42.88
426C w/ backhoe	1862C	\$53.38
426C 4WD w/ backhoe	1862C4	\$54.78
428 w/ backhoe	1864	\$42.63
428 Series II w/ backhoe	1864A	\$42.86
430D	1865D	\$59.23

570L XT 4WD

1690

\$39.90

430E

436 w/ backhoe

1865E

\$62.66

1866

\$46.48

436 Series II w/ backhoe	1866A	\$46.66	IT 18B	2475	\$59.23
446 w/ backhoe	1868	\$60.13	IT 28	2476	\$63.41
446B w/ backhoe	1868B	\$66.43	IT 28B	2477	\$68.77
446D	1868D	\$68.91	IT 28F	2477G	\$79.65
450E	1869E	\$83.12	IT 28G	2478	\$82.85
910	1870	\$40.23	IT 38G	2480	\$95.43
910E	1870E	\$47.34	IT 62G	2482	\$131.27
916	1885	\$53.63	CATERPILLAR	415F2	\$48.07
920	1894	\$49.09	CATERPILLAR	420F2	\$69.55
926	2065	\$62.94	CATERPILLAR	950M	\$161.25
926E	2067	\$68.05	CATERPILLAR	972M	\$207.57
928G	2070G	\$81.45	CLARK	[CLRK]	
930 41K serial	2088	\$60.16	<u>Model</u>	<u>Code</u>	<u>Rate</u>
930G	2088G	\$96.60	35C	2484	\$50.14
936	2100	\$76.33	45C	2486	\$58.60
936E	2110	\$83.20	55C	2488	\$70.78
936F	2120	\$86.45	75C	2491	\$92.38
938F	2130	\$88.25	125B	2492	\$119.07
938G	2130G	\$99.78	275B	2496	\$206.68
950 90A serial	2228	\$64.76	275C	2497	\$225.33
950 31K & 81J serial	2270	\$77.64	JOHN DEERE	[DEER]	
950B	2272	\$95.46	<u>Model</u>	<u>Code</u>	<u>Rate</u>
950E	2300	\$101.48	JD-210C	2485	\$31.85
950F	2301	\$106.90	JD-210C w/ backhoe	2490	\$31.86
950F Series II	2303	\$110.60	JD-210LE	2495	\$41.80
950G	2310	\$118.79	JD-310A w/ backhoe	2504	\$33.40
950H	2310H	\$137.65	JD-310B w/ backhoe	2506	\$34.09
962G	2320G	\$129.99	JD-310C w/ backhoe	2507	\$37.57
966C	2340	\$113.27	JD-310D w/ backhoe	2507D	\$42.27
966D	2350	\$125.20	JD-310E w/ backhoe	2507E	\$43.26
966E	2360	\$138.19	JD-310SE w/ backhoe	2507F	\$48.45
966F	2361	\$141.22	310G	2507G	\$44.39
966G	2362	\$158.50	JD-315SE w/ backhoe	2507H	\$49.08
966H	2362H	\$184.41	JD-410 w/ backhoe	2508	\$36.50
966K	2362K	\$188.84	JD-410B w/ backhoe	2508B	\$37.20
970F	2370	\$165.79	JD-410C w/ backhoe	2508C	\$43.71
972G	2372G	\$176.79	JD-410D w/ backhoe	2508D	\$51.98
980B	2376	\$144.51	JD-410E w/ backhoe	2508E	\$54.58
980C	2378	\$176.01	410G	2508G	\$55.78
980F	2381	\$181.38	410J 4WD	2508J	\$64.28
980G	2382	\$199.91	410K	2508K	\$68.49
980H	2382H	\$218.32	JD-444	2510	\$48.57
988 87A6868 serial	2398	\$176.77	JD-444C	2515	\$50.57
988B 50W serial	2436	\$252.27	JD-444D	2520	\$52.14
992B 25K serial	2460	\$314.75	JD-444E	2521	\$56.58
992C	2470	\$481.62	JD-500C w/ backhoe	2592	\$47.39
IT 12	2472	\$41.00	JD-510 w/ backhoe	2620	\$43.97
IT 12B	2472B	\$47.75	JD-510B w/ backhoe	2625	\$42.32
IT 14F	2473	\$55.32	JD-510C w/ backhoe	2630	\$49.93
IT 18	2474	\$52.39			

JD-510D w/ backhoe	2630D	\$59.06	FR 35	3052	\$223.19
JD-544B	2660B	\$60.20	FORD	[FORD]	
JD-544C	2660C	\$61.82	Model	Code	Rate
JD-544D	2660D	\$60.72	545C	3054	\$34.34
JD-544E	2660E	\$67.15	650 w/ backhoe	3056	\$37.93
JD-544G	2660G	\$73.97	655A w/ backhoe	3056F	\$42.34
544J	2660J	\$96.67	655C w/ backhoe	3056G	\$46.42
544K	2660K	\$107.96	750 w/ backhoe	3057	\$49.58
JD-610B w/ backhoe	2690	\$48.39	755 w/ backhoe	3061	\$52.75
JD-610C w/ backhoe	2691	\$55.19	755B w/ backhoe	3063	\$60.00
JD-624E	2700	\$80.39	755A w/ backhoe	3065	\$58.60
JD-624G	2700G	\$90.94	A-62	3114	\$51.59
JD-624H	2700H	\$99.58	A-64	3116	\$62.61
JD-644B	2710	\$83.22	A-66	3118	\$81.54
JD-644C	2715	\$86.15	FURUKAWA	[FURU]	
JD-644D	2717	\$89.06	Model	Code	Rate
JD-644E	2719	\$96.26	FL 320A	3120M	\$115.39
JD-644G	2719B	\$109.30	FL 330	3120S	\$125.82
JD-644H	2719H	\$117.09	HOUGH	[HOUG]	
644J	2719J	\$129.81	Model	Code	Rate
JD-710B w/ backhoe	2720	\$61.93	H65C	3578	\$80.28
JD-710C w/ backhoe	2721	\$68.78	H-90E	3884	\$138.84
JD-710D w/ backhoe	2722	\$74.78	H-100C	3954	\$163.35
JD-710D 4WD w/ backhoe	2722D	\$76.73	INTERNATIONAL	[INTL]	
710G	2722G	\$79.29	Model	Code	Rate
JD-744H	2723	\$159.31	260A	2260	\$36.77
744J	2723J	\$187.84	260A w/ backhoe	2270	\$38.44
JD-844	2725	\$153.86	270A w/ backhoe	2280	\$42.35
DRESSER	[DRES]		280A w/ backhoe	2285	\$51.96
Model	Code	Rate	J C B	[JCB]	
510B	2310	\$47.25	Model	Code	Rate
510C	2310C	\$63.07	214S w/ backhoe	4430	\$50.75
515B	3517	\$61.38	215S w/ backhoe	4435	\$55.74
515C	3517C	\$74.58	217S w/ backhoe	4440	\$59.06
520B	3519	\$70.96	3C 1550 2WD w/ hoe	4448	\$36.25
520C	3519C	\$88.87	3D 1700 4WD w/ hoe	4450	\$48.39
530	3520	\$99.40	1400B w/ backhoe	4455	\$41.07
530C	3520C	\$108.17	1550B w/ backhoe	4457	\$47.02
540	3530	\$136.39	1600B w/ backhoe	4458	\$54.10
550	3540	\$136.47	1700B w/ backhoe	4459	\$55.17
FIAT-ALLIS	[F-A]		KAWASAKI	[KAWA]	
Model	Code	Rate	Model	Code	Rate
545B	3042	\$58.01	60Z IV	4300	\$69.55
745C	3046	\$113.86	65Z IV	4310	\$77.70
FR 10	3049H	\$61.27	KSS 80Z II	4330	\$99.95
FR 10B	3049I	\$66.63	80Z III	4335	\$116.03
FR 20	3050	\$128.65	80Z IV	4340	\$118.11
FR 30	3051	\$168.09			
FR 20B	3051B	\$143.05			

85Z IV	4345	\$148.33
90Z III	4350	\$164.26
90Z IV	4355	\$168.37
95Z IV-2	4360	\$215.89

KOMATSU [KOMA]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
W 120-3	4520	\$116.93
W 180-1	4525	\$165.67
WA 200-1	4536	\$66.00
WA 250-1	4537	\$90.31
WA 300-1	4538	\$86.16
WA 320-1	4539	\$105.67
WA 350-1	4540	\$101.65
WA 380-1	4541	\$125.87
WA 380-3	4541C	\$125.78
WA 400-1	4542	\$121.26
WA 420-3	4543C	\$144.56
WA 450-1	4544	\$150.59
WA 450-2	4544B	\$169.57
WA 450-3	4544C	\$172.10
WA 470-1	4545	\$165.43
WA 500-1	4546	\$199.62
WA 600-1	4550	\$293.89
WB 140-2 4WD	4700	\$53.32
WB 150-2 4WD	4710	\$61.44

MASSEY FERGUSON [M-F]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
M.F. 44C	5143	\$62.53
M.F. 50H Series S	5150	\$37.09
M.F. 50H Series S, 4WD	5152	\$37.78
MF 50HX Series S	5154	\$40.01
MF 50HX Series S, 4WD	5156	\$40.88
MF 55C	5170	\$80.25
MF 60 w/ backhoe	5171	\$39.18
MF 60H Series S w/ hoe	5172	\$42.28
MF 66C	5174	\$102.46
MF 80 w/ backhoe	5182	\$55.97
M.F. 88	5184	\$162.69
640	6000	\$37.27
650	6010	\$39.94

NEW HOLLAND [NHND]

TEREX [TERX]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
70C	7938	\$145.92
72-61	8036	\$179.20
72-71B	8055	\$233.60
72-81	8080	\$275.93

VOLVO-MICHIGAN-EUCLID [VME]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
175B	6186	\$147.54
175C	6186C	\$168.85
275B	6330	\$187.87
275C	6330C	\$225.33
L-70C	9570C	\$76.01
L-90	9575	\$91.09
L-120	9595	\$118.26
L-120C	9595C	\$122.61
L-150C	9598C	\$152.62
L-160	9600	\$158.93
L-180C	9602C	\$171.55
L-190	9605	\$184.70
VOLVO MACHINERY	L250G	\$277.79

LEADS, PILE DRIVING [LEADS]

DELAY FACTOR = 0.47 OVERTIME FACTOR = 0.58

FIXED [FIXD]

Includes headblock, taper top, tip sled and connector, foot yoke, foot yoke sheave, intermediate flights, and all attachments and accessories. Rated in accordance with height of the lead measured in meters (linear feet)

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	16.8 (55) (w/o spotter)	0100	\$20.66
16.8 (55)	32.0 (105) (w/o spotter)	0200	\$26.33
over	32.0 (105) (w/o spotter)	0300	\$32.98
0	16.8 (55) (w/ spotter)	1100	\$34.93
16.8 (55)	32.0 (105) (w/ spotter)	1200	\$41.68
over	32.0 (105) (w/ spotter)	1300	\$49.41

SWINGING [SWNG]

Includes headblock, taper top, tip sled and connector, foot yoke, foot yoke sheave, intermediate flights, and all attachments and accessories. Rated in accordance with the height of the lead measured in meters (linear feet).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
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<u>Model</u>	<u>Code</u>	<u>Rate</u>					
			0	16.8 (55)	(w/o spotter)	0400	\$13.69
545D	0100	\$35.72	16.8 (55)	32.0 (105)	(w/o spotter)	0500	\$19.06
575E w/ backhoe	0110	\$50.25	over	32.0 (105)	(w/o spotter)	0600	\$25.71
655D w/ backhoe	0120	\$45.18	0	16.8 (55)	(w/ spotter)	1400	\$27.97
655E w/ backhoe	0130	\$54.06	16.8 (55)	32.0 (105)	(w/ spotter)	1500	\$34.41
675D 4WD w/ backhoe	0140	\$52.16	over	32.0 (105)	(w/ spotter)	1600	\$42.13
675E 4WD w/ backhoe	0150	\$61.81					

NON-OPERATED EQUIPMENT (DAILY [NONOP] RATES)

DELAY FACTOR = 0.56 OVERTIME FACTOR = 1.00

Note various units for different items. The following allowance is entered on the extra work bill by using the (unit listed x number of days) in the hours worked column. The following list is limited to items with long estimated lives. Additional traffic related items such as cones and barricades, are still listed under TRAFIC in this publication. Other non-operated items with short estimated lives should be treated as materials and should not be "rented". Non rented items are 1) intended to be job specific (amortized over the life of the project) and 2) have an estimated life measured by number of uses rather than a length of time.

MISCELLANEOUS

[MISC]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Casing, 450 mm dia, per 0.3 m (Casing, 18" dia, per lf)	0120	\$0.04
Casing, 650 mm dia, per 0.3 m (Casing, 26" dia, per lf)	0130	\$0.06
Casing, 900 mm dia, per 0.3 m (Casing, 36" dia, per lf)	0140	\$0.09
Casing, 1800 mm dia, per 0.3 m (Casing, 72" dia, per lf)	0150	\$0.21
Casing, 2400 mm dia, per 0.3 m (Casing, 96" dia, per lf)	0160	\$0.26
Casing, 2700 mm dia, per 0.3 m (Casing, 108" dia, per lf)	0170	\$0.30
Casing, 3000 mm dia, per 0.3 m (Casing, 120" dia, per lf)	0180	\$0.40
Pile, all depths "H" pile, per 45.0 kg (Pile, all depths "H" pile, per hundred-weight)	0190	\$0.04
Pipe, 250-300 mm dia, per 0.3 m (Pipe, 10-12" dia, per lf)	0200	\$0.02
Plate, 22 mm thick, per 9.3 sm (Plate, 7/8" thick, per 100 sf)	0210	\$1.27
Plate, 25 mm thick, per 9.3 sm (Plate, 1" thick, per 100 sf)	0220	\$1.45
Plate, 38 mm thick, per 9.3 sm (Plate, 1.5" thick, per 100 sf)	0230	\$2.18

SCAFFOLDING, SHORING, FALSEWORK

[SSFW]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Metal form, 1.8 m x3.0 m, per 14.6 m (Metal form, 6x10 box culvert, per 48 lf)	0310	\$44.37
Metal form, 2.4 m x3.7 m, per 15.2 m (Metal form, 8x12 box culvert, per 50 lf)	0320	\$49.17
Metal form, 2.1 m x4.3 m, per 15.2 m (Metal form, 7x14 box culvert, per 50 lf)	0330	\$54.04
Metal form, type 25 barrier, per 3.0 m (Metal form, type 25 barrier, per 10 lf)	0340	\$2.70
Metal form, type 26 barrier, per 3.0 m (Metal form, type 26 barrier, per 10 lf)	0350	\$2.86
Metal form, type 27 barrier, per 3.0 m (Metal form, type 27 barrier, per 10 lf)	0360	\$2.46
Metal form, type 50 barrier, per 3.0 m (Metal form, type 50 barrier, per 10 lf)	0370	\$2.66
Metal form, 1.8 m x 3.7 m girder panel, per 0.1 sm (6x12 girder panel, per sf)	0380	\$0.17

Metal form, all heights paving, per 3.0 m (Metal form, all heights paving, per 10 lf)	0390	\$0.04
Scaffolding, 1.5 m section, per section (Scaffolding, 5' section, per section)	0410	\$0.55
Scaffolding, 3.0 m section, per section (Scaffolding, 10' section, per section)	0420	\$1.24
Scaffolding, 4.6 m section, per section (Scaffolding, 15' section, per section)	0430	\$1.63
Scaffolding, bottom/top section, per 1.5 m section (per 5 ft section)	0440	\$0.77
Scaffolding, 2.1 m high, rolling (Scaffolding, 7' high, rolling)	0450	\$1.16
Scaffolding, spider staging, plus air compressor	0460	\$24.69
Shoring, 1.1 m deep x 2235 mm wide, per section (Shoring, 3.5' deep x 88" wide trench, per section)	0510	\$1.27
Shoring, 1.2 m deep x 3.7 m wide box, per 7.3 m (Shoring, 4' deepx12' wide trench box, per 24')	0515	\$11.69
Shoring, 1.5 m deep x 2235 mm wide, per section (Shoring, 5' deep x 88" wide trench, per section)	0520	\$1.34
Shoring, 2.1 m deep x 1397 mm wide, per section (Shoring, 7' deep x 55" wide trench, per section)	0530	\$1.18
Shoring, 2.1 m deep x 2235 mm wide, per section (Shoring, 7' deepx88" wide trench, per section)	0540	\$1.41
Shoring, 2.4 m deep x 4.6 m wide, per 3.0 m (Shoring, 8' deepx15' wide trench box, per 10')	0550	\$9.64
Shoring, 2.4 m deep x 2.4 m max width, per 7.3 m(8' deep x 8' max width trench box, per 24')	0560	\$19.01
Shoring, 3.0 m deep x 2.4 m max box, per 4.9 m (Shoring, 10' deepx8' max trench box, per 16')	0570	\$17.07
Shoring, 3.0 m deep x 2.4 m max box, per 4.9 m (Shoring, 10' deepx8' max trench box, per 16')	0580	\$38.76
Wood, 50 mm x305 mm, per 30.5 m (Wood, 2"x12", per 100 lf)	0610	\$0.20
Wood, 100mm x100mm, per 30.5 m (Wood, 4"x4", per 100 lf)	0615	\$0.14
Wood, 100 mm x150 mm, per 30.5 m (Wood, 4"x6", per 100 lf)	0620	\$0.20
Wood, 100 mm x205 mm, per 30.5 m (Wood, 4"x8", per 100 lf)	0625	\$0.28
Wood, 100 mm x305 mm, per 30.5 m (Wood, 4"x12", per 100 lf)	0630	\$0.42
Wood, 150 mm x305 mm, per 30.5 m (Wood, 6"x12", per 100 lf)	0635	\$0.70
Wood, 150 mm x455 mm, per 30.5 m (Wood, 6"x18", per 100 lf)	0640	\$1.12
Wood, 205 mm x405 mm, per 30.5 m (Wood, 8"x16", per 100 lf)	0645	\$1.38
Wood, 305 mm x455 mm, per 30.5 m (Wood, 8"x18", per 100 lf)	0650	\$1.55

Wood, 305 mm x305 mm, per 30.5 m (Wood, 12"x12", per 100 lf)	0655	\$1.34
Wood form, type 27 barrier, per 2.4 m (Wood form, type 27 barrier, per 8 lf)	0660	\$0.29
Wide flange beam, all depths, per 45 kg (Wide flange beam, all depths, per hundred wt.)	0670	\$0.04

TANK [TANK]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Tank, metal, 0-2270 liters (0-600 gallons)	0710	\$0.76
Tank, metal, 2270-4540 liters (600-1200 gal)	0720	\$1.03
Tank, metal, 4540-9840 liters (1200-2600 gal)	0730	\$2.56
Tank, metal, 22 710 liters (6000 gallons)	0740	\$5.15
Tank, metal, 28 390 liters (7500 gallons)	0750	\$6.46
Tank, metal, 30 280 liters (8000 gallons)	0760	\$6.83
Tank, metal, 37 850 liters (10000 gallons)	0770	\$7.58

TRAFFIC SAFETY [TRAF]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Crash cushion barrel, filled, each	0810	\$1.23
K-rail, temporary concrete barrier, per 6.1 m (20 lf)	0820	\$0.49

PAVEMENT GRINDERS, DIAMOND BLADES [PGDIA]

DELAY FACTOR = 0.09 OVERTIME FACTOR = 0.92

Includes water (but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Replacement blades are included in the rates listed

CONCUT [CCUT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BC-38 (136 blades)	0500	\$182.26
BC-244 (187 blades)	0505	\$225.42
BC-1268 (48 blades)	0510	\$70.11

CUSHION CUT [CUCT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HG-130A (127 blades)	0600	\$174.56
PC-390(171 blades)	0610	\$270.74

PENHALL [PENH]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
G-38 (172 blades)	0800	\$345.00

TARGET [TARG]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CG-65 (41 blades)	0900	\$106.97
PRM-3804 (170 blades)	0905	\$379.90

PAVEMENT GRINDERS, TUNGSTEN-CARBIDE BITS [PGT-C]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90

Includes water (but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Replacement bits or tips are included in the rates listed below.

BARBER-GREENE

[B-G]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
RX-20	0100	\$179.57
RX-30	0105	\$285.07
RX-40B	0110	\$330.52
RX-50	0115	\$388.49
RX-80B	0120	\$647.16

CATERPILLAR

[CAT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PM-800	0200	\$503.64
PR-105	0201	\$87.58
PR-275	0205	\$239.49
PR-450	0210	\$350.38
PR-750	0215	\$512.94
PR-750B	0216	\$537.64
PR-1000	0220	\$704.20

C.M.I.

[CMI]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PR-275 RT	0150	\$227.80
PR-375	0155	\$290.40
PR-450	0160	\$332.97
PR-525	0165	\$359.47
PR-500FL	0170	\$393.29
PR-750	0175	\$495.72
PR-800-7	0177	\$541.68
PR-1000	0180	\$594.03

INGERSOLL-RAND

[I-R]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MW-175	0280	\$100.01
MW-250	0285	\$108.00
MW-250C	0286	\$130.12
MT-6520 (crawler)	0300	\$323.36
MW-6520	0305	\$233.13
MW-6520HC	0310	\$299.43
MT-7000	0315	\$409.11

WIRTGEN

[WIRT]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300VC	0380	\$38.80
1000VC	0390	\$148.33
1900DC	0395	\$344.76
2000VC	0400	\$335.21
2100VC	0402	\$433.27
2200VC	0405	\$564.97
3500VC	0410	\$577.46
4200VC	0420	\$595.07

PUMPS, WATER HOSE

[PUMWA]

DELAY FACTOR = 0.36 OVERTIME FACTOR = 0.67

Centrifugal and diaphragm types (including submersibles). Rate includes power (gas, diesel or electric generator), 7.6 meters(25 lineal feet) of suction hose, 15.2 meters (50 lineal feet) of discharge hose, foot valve and all fittings, attachments and accessories.

A PUMP

[APMP]

Listed by Mfr's rated capacity measured in thousands of liters per minute (thousands of gallons per Hour) at 3.0 meters (10 feet) of suction head.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	0.6 (10)	000-010	\$3.58
0.6 (10)	1.3 (20)	010-020	\$5.55
1.3 (20)	1.9 (30)	020-030	\$6.50
1.9 (30)	3.2 (50)	030-050	\$23.90
3.2 (50)	7.9 (125)	050-125	\$28.22
7.9 (125)	15.8 (250)	125-250	\$33.25

INLET-SUCTION HOSE

[INHS]

Additional 7.6 meter (25 foot) lengths of suction hose shall be paid based on the inside hose diameter in millimeters (inches).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	60 (2.5)	0-2.5	\$0.07
60 (2.5)	80 (3)	2.5-3.5	\$0.13
80 (3)	100 (4)	3.5-4	\$0.18
100 (4)	150 (6)	4-6	\$0.29

OUTLET-DISCHARGE HOSE

[OUHS]

Additional 15.2 meter (50 foot) lengths of discharge hose shall be paid based on the inside hose diameter in millimeters (inches).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	60 (2.5)	0-2.5	\$0.05
60 (2.5)	90 (3.5)	2.5-3.5	\$0.10
90 (3.5)	100 (4)	3.5-4	\$0.15
100 (4)	150 (6)	4-6	\$0.20

ROLLERS, TANDEM STEEL WHEELS

[ROL-2]

DELAY FACTOR = 0.11

OVERTIME FACTOR = 0.91

Includes all attachments and accessories.

BOMAG

[BMAG]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
DW-4AS	1150	\$24.95
BW-6AS	1155	\$26.56
BW-10AS	1160	\$45.29
BW-12AS	1165	\$46.06

DRESSER

[DRES]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S3-5B	2500	\$32.59
S8-12A	2520	\$43.05
S10-14A	2525	\$43.81

FERGUSON

[FERG]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	4048	\$19.98
3-5A	4048A	\$21.24
4-6A	4142A	\$21.38
5-8 ton	4236	\$47.66
5-8A	4240	\$36.52
8-12 ton	4424	\$37.81
8-12B	4424B	\$39.97
8-12A	4430	\$37.50
10-14 ton	4450	\$38.70
10-14A	4455	\$38.02
10-14B	4455B	\$40.53

GALION

[GALN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton roll-o-static	4650	\$31.32
S4-6A, S4-6B	4670	\$33.87
5-8 ton roll-o-static	4800	\$36.57
S5-8A	4820	\$39.24
8-10.5 ton roll-o-static	4988	\$37.22
S8-10.5A	5000	\$39.94
8-12 ton roll-o-static	5176	\$37.52
S8-12A	5190	\$40.59

HYSTER

[HYST]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 330A 3-5 ton	6520	\$33.63
C 330B 3-5 ton (Hypac)	6520B	\$26.13
C 330A 4-6 ton	6525	\$34.98
C 330B 4-6 ton (Hypac)	6526	\$28.25
C 340A 5-8 ton	6530	\$41.16
C 340A 8-10 ton	6540	\$41.71
C 340B 5-8 ton	6545	\$36.76

C 340C 5-8 ton (Hypac)	6546	\$39.21
C 340B 8-10 ton	6548	\$37.47
C 340C 8-10 ton (Hypac)	6549	\$39.68
C 350B 8-12 ton	6710	\$42.60
C 350B 10-14 ton	6740	\$43.09
C 350C 8-12 ton	6750	\$38.74
C 350C 10-14 ton	6755	\$39.44
C 350D 8-12 ton	6757	\$40.20

INGRAM [INGM]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton FB	6900	\$25.58
5-6.5 ton FB	6965	\$27.12
8-12 ton HB	7175	\$37.67
10-14 ton HB	7275	\$38.28

REXNORD [RXND]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	8566	\$24.47
4-6 ton	8572	\$25.05
5-8 ton	8578	\$55.52
7-10 ton	8584	\$55.71
8-12 ton	8590	\$56.06
10-14 ton	8596	\$56.40

ROLLERS, RUBBER TIRE, SELF PROPELLED [ROLRT]

DELAY FACTOR = 0.16 OVERTIME FACTOR = 0.86
Includes all attachments and accessories.

BUFFALO-BOMAG [B-B]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
B.W. 20R	2624	\$41.18

CATERPILLAR [C.A.T.]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PS 110	3460	\$42.03
PS 130	3465	\$41.45
PS 180	3470	\$43.65
PS 200B	3480	\$55.08

DYNAPAC [DYPC]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CP 15	3500	\$40.37
CP 21	3510	\$49.97
CP 27	3520	\$64.36

GALION [GALN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3500	4310	\$41.69
P 3000	4315	\$38.29
P 3500A	4320	\$42.10

HYSTER [HYST]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 530A	5401	\$41.30
C 550A	5494	\$46.36

ROLLER-TAMPING, SEGMENTED, SHEEPSFOOT, SELF PROPELLED [ROTAM]

DELAY FACTOR = 0.10 OVERTIME FACTOR = 0.92

Includes all attachments and accessories.

BUFFALO-BOMAG [B-B]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
K 300	1630	\$80.85
K 301	1635	\$90.90
K 401	1638	\$107.84

CATERPILLAR [C.A.T.]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
815	2300	\$94.78
815B	2310	\$140.30
815F	2320	\$152.84
825B	2500	\$159.09
825C	2510	\$207.80
835	2700	\$202.28

RAYGO [RAGO]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
30	6490	\$79.00
45	6500	\$119.63
RAM PAK 45	6505	\$128.34

REXNORD [RXND]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-30	7120	\$95.17
3-35 PACTOR	7127	\$116.67
3-45 PACTOR	7130	\$148.77
3-50, 3-50A PACTOR	7140	\$165.36
3-55, 3-55B PACTOR	7150	\$199.33

**ROLLERS-TAMPING, SEGMENTED, [ROTAT]
SHEEPSFOOT, TOWED**

DELAY FACTOR = 0.45 OVERTIME FACTOR = 0.60

Includes all attachments and accessories. Listed by drum dimensions in millimeters (feet) in either direction. The first digit is the diameter and the second digit is the length of each drum.

SINGLE DRUM UNIT		[ADRU]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
1220 mm x1220 mm (4'X4') & under	4X4	\$1.93
over 1220 mm (4') - not over 1520 mm (5')	4X5	\$2.19
over 1520 mm (5')	5	\$3.97

DOUBLE DRUM UNIT		[DDRU]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
1220 mm x1220 mm (4'X4') & under, each	4X4	\$4.68
over 1220 mm (4') - not over 1520 mm (5'), each	4X5	\$14.16
over 1520 mm (5'), each	5	\$26.11

**ROLLERS, VIBRATORY, SELF [ROVIB]
PROPELLED**

DELAY FACTOR = 0.17 OVERTIME FACTOR = 0.85

Includes all attachments and accessories.

BUFFALO-BOMAG		[B-B]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 210	2060	\$62.11
BW 210A	2070	\$64.10
BW 213	2080	\$63.21
BW 214	2090	\$64.95

BOMAG		[BMAG]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 35	0700	\$6.63
BW 60, 60S	0800	\$10.16
BW 65, 65S	0900	\$7.07
BW 75, 75S	1000	\$11.36
BW 85T	1200	\$20.13
BW 90	1300	\$13.21
BW 100AD-3	1325C	\$33.79
BW 120AD	1350	\$34.28
BW 142PD	1359	\$39.93
BW 151AD	1365	\$57.46
BW 170AD, D	1380	\$50.15
BW 172AD, D	1385	\$50.53
BW 202AD	1400	\$78.61

CASE		[CASE]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
50B	2228	\$7.29
W 251	2400	\$24.17
252, W 252	2405	\$31.29
752, W 752	2450	\$54.70
1102, W 1102	2500	\$72.02
1102D, W 1102D	2505	\$73.26
602D	2510	\$49.48
752B	2520	\$57.62

CATERPILLAR		[C.A.T.]
<u>Model</u>	<u>Code</u>	<u>Rate</u>
C.B. 54	7000	\$98.25
CS 56	7020	\$108.01
C.B. 64	7400	\$113.60
CB 214	8025	\$30.33
CB 214B	8026	\$31.55
CB 224	8030	\$31.43
CB 224B	8031	\$33.40
CB 224C	8031C	\$34.20
CB 224E	8031E	\$36.84
CB 314	8035	\$33.20
CP 323 padfoot drum	8040	\$53.72
CS 323 smooth drum	8042	\$52.02
CB 414	8045	\$51.66
CS 431	8050	\$47.90
CS 431B	8051	\$65.41
CP 433 padfoot drum	8055	\$54.33
CP 433B padfoot drum	8056	\$71.70
CP 433E	8056E	\$86.74
CS 433 smooth drum	8060	\$54.63
CS 433B smooth drum	8061	\$68.77
CB 434	8062	\$59.81
CB 434D	8062D	\$72.82
CB 514	8065	\$65.57
CB 534	8067	\$84.24
CB 534C	8067C	\$82.19
CB 534D OR XW	8067D	\$104.31
CS 551	8070	\$91.68
CP 553 padfoot drum	8075	\$96.45
CS 553 smooth drum	8080	\$92.91
CP 563 padfoot drum	8082	\$99.08
CS 563 smooth drum	8083	\$95.25

BROS	[BROS]			
<u>Model</u>	<u>Code</u>	<u>Rate</u>		
VM 255	2023	\$50.71	CS 563C	8083C \$100.80
VM 268, VM 268H	2024	\$62.47	CB 614	8085 \$102.63
VM 278	2025	\$95.41	CB 634	8095 \$101.27
			CB 634C	8095C \$102.56

DYNAPAC			HYSTER		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
LR 90	2401	\$14.40	C 612B	3450	\$56.27
A 36V, A 36D	2405	\$34.78	C 610A	3500	\$42.25
CA 12	2409A	\$45.84	C 610B	3540	\$54.50
CA 12D	2409B	\$39.40	C 615B	3562	\$56.62
CA 12PD	2409E	\$39.89	C 617B	3563	\$57.13
CA 12PDB strikeoff blade	2409H	\$38.03	C 620B	3566	\$56.01
CA 15	2410	\$61.06	C 625B	3570	\$57.73
CA 15A	2420	\$54.01	C 627B	3572	\$58.41
CA 15D	2421	\$64.53	C 727A	3572E	\$81.98
CA 20D	2422	\$53.15	C 748A (Hypac/Hyster)	3572F	\$36.28
CA 15PD	2425	\$54.78	C 766A	3572G	\$72.72
CA 25	2430	\$78.33	C 766B (Hypac/Hyster)	3572H	\$87.42
CA 25S	2440	\$76.58	C 850A	3572J	\$86.95
CA 25A, CA 25D	2450	\$81.34	C 850B (Hypac/Hyster)	3572K	\$101.90
CA 25PD	2455	\$84.26	C 852A	3572N	\$92.47
CA 25T	2460	\$70.39	C 852B (Hypac/Hyster)	3572P	\$105.40
CA 30	2462	\$82.55	C 860A	3572S	\$91.17
CA 30D	2464	\$87.05	C 860B (Hypac/Hyster)	3572T	\$99.69
CA 51S, CA 51D	2466	\$103.01	INGERSOLL-RAND		
CA 55D	2468	\$105.88	[I-R]		
CA 151PDB	2469	\$75.81	<u>Model</u>	<u>Code</u>	<u>Rate</u>
CC 10, CC 10 series II	2470	\$31.13	DD 22	3565	\$40.20
CC 10A	2472	\$27.02	DD 23	3570	\$29.75
CC 102	2472C	\$33.45	DD 24	3572	\$39.39
CC 12	2472E	\$34.17	DA 30	3573	\$31.27
CC 14	2473	\$49.20	DD 35	3573C	\$32.75
CC 21	2474	\$51.07	DA 40	3573E	\$56.14
CC 21 II	2474B	\$54.19	DA 41	3573G	\$58.49
CC 211	2474C	\$62.59	DD 34HF	3573HF	\$48.49
CC 42 II Dynatronic	2475	\$82.21	DA 48	3573M	\$77.83
CC 42A	2476	\$81.15	DA 50	3574	\$78.64
CC 50	2482	\$88.94	DD 65	3574A	\$61.06
CC 50A	2488	\$100.94	DF 84	3574B	\$128.36
CC 50PD	2488E	\$157.81	DS 84	3574C	\$125.10
CC 50S	2489	\$149.64	DD 90	3574D	\$84.66
DD 18	2498	\$12.41	DD 110	3574F	\$93.80
300V	2499E	\$16.14	DD 130	3574H	\$124.59
2100V	2499H	\$15.35	DD 145	3574J	\$106.92
ESSICK			SPA 56	3810	\$60.79
[ESIK]			SP 48	3880	\$58.92
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SP 48DD	3885	\$60.53
VR 30RE	2700	\$9.42	SPF 48	3890	\$62.83
VR 42RE	2820	\$24.06	SPF 48B	3892	\$64.04
V 30WR, V 30W2-R	2902	\$10.29	SP 54	4000	\$59.96
			SP 54DD	4005	\$61.97
			SPA 54	4010	\$60.85
			SPF 54	4020	\$66.31
			SP 56	4030	\$70.22

SP 56DD	4035	\$73.11	RAYGO	[RAGO]	
SP 56DH	4037	\$98.96	<u>Model</u>	<u>Code</u>	<u>Rate</u>
SPF 56	4040	\$75.01	1-36 REBEL	4805	\$14.28
SPF 56B	4050	\$77.93	2-36 ROMPER	4810	\$31.20
SPF 56DH	4080	\$100.46	2-66 RANGER	4820	\$80.08
SPF 56DHB	4090	\$104.36	2-84 RANGER	4830	\$110.97
SP 60	4100	\$125.13	220A RASCAL	4840	\$46.82
SP 84	4105	\$103.75	320A RASCAL	4876	\$56.49
SP 60DD	4110	\$147.24	320S RASCAL	4890	\$53.75
SPF 60	4120	\$151.92	400A RASCAL	5010	\$56.33
SPF 60B	4130	\$159.91	404B RUSTLER	5110	\$61.68
SPF 60C	4132	\$139.62	410A RASCAL	5150	\$59.91
SPF 84	4133	\$105.46	600A RASCAL	5220	\$75.87
SPF 84B	4134	\$109.93	4000 RASCAL	5235	\$82.51
SD 40D	4138	\$54.04	4200 RASCAL	5236	\$88.50
SD 40F w/ blade	4138FB	\$55.56	4404 RUSTLER	5236E	\$32.93
SD 70	4139	\$61.93	RAMMAX	[RAMX]	
SD 100	4140	\$78.97	<u>Model</u>	<u>Code</u>	<u>Rate</u>
SD 100D	4140D	\$95.41	P 33/24	4605	\$18.71
SD 100F	4140F	\$95.96	P 33/24 w/ remote	4606	\$18.00
SD 115D	4141D	\$118.11	P 51	4625	\$71.55
SD 150D	4143D	\$127.27	S 51	4630	\$37.21
KOEHRING-BOMAG	[KOBO]		P 47	5290	\$36.11
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SAKAI	[SAKI]	
BW 120AC	4168E	\$33.76	<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 120AD	4169	\$34.25	SV 70	8025	\$56.72
BW 121AD	4193	\$30.75	SV 70D	8026	\$59.07
BW 130AD	4193E	\$36.07	SV 91	8050	\$84.84
BW 140AD	4194	\$56.04	SV 91D	8051	\$86.81
BW 141AC	4194B	\$55.40	SV 200D	8060	\$43.08
BW 141AD	4194E	\$50.42	TAMPO	[TAMP]	
BW 142D	4194H	\$38.44	<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 172	4212	\$47.66	RP 16D (HD)	5990	\$54.12
BW 172D	4212E	\$50.22	RP 28D	5995	\$72.22
BW 213D	4237	\$79.40	RP 48D	6110	\$93.79
BW 214D	4238	\$97.53	RP 58D	6115	\$86.18
BW 215D	4240	\$96.08	RS 16 (HD)	6170	\$51.24
BW 217D	4242	\$120.91	RS16A (HD)	6180	\$53.20
BW 220D	4250	\$90.31	RS 16D (HD)	6185	\$53.70
MIKASA	[MIKA]		RS 28C	6315	\$68.10
<u>Model</u>	<u>Code</u>	<u>Rate</u>	RS 28D	6320	\$69.33
MDR 7DW	4404	\$8.36	RS 58D	6327	\$84.71
MDR 9G	4405	\$12.01	RS 156A	6340	\$56.70
MDR T38S	4407	\$8.50	RS 166A	6350	\$74.47
MRV 10GA	4409	\$13.54	RS 188A	6370	\$94.82
			RS 210	6400	\$73.69

WACKER

[WACK]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
R 900	7850	\$20.93
R 1000	7855	\$33.59
W 55T	7860	\$10.65
W 74L, W 74T	7880	\$10.52
W 74	7890	\$10.19
W 75	7900	\$10.73
WDH 84	7910	\$14.84
WDH 86-110	7912	\$18.59
WHK 90, WHK 90L	7915	\$18.23

SHOVELS & CRANES CRAWLER [S&CCL]

DELAY FACTOR = 0.19 OVERTIME FACTOR = 0.84

Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (not including leads or driving equipment).

LINK-BELT [L-B]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 78	4702	\$67.06
LS 78 pipeliner	4724	\$69.07
LS 98	4826	\$75.67
LS 98 pipeliner	4852	\$81.87
LS 98A	4924	\$76.75
LS 108B	4980	\$86.02
LS 108D	4981	\$112.45
LS 118	4998	\$123.70
LS 218H	5010	\$206.03
LS 318	5012	\$123.53
LS 338	5020	\$134.76
LS 518	5124	\$198.59

MANITOWOC [MTWC]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
222EX (WEST)	5600	\$249.17
2900 WC	5764	\$109.48
3000 W	5812	\$136.89
3900B (100 ton)	6036	\$180.67
3900 W VICON series 2	6132	\$240.03
4000 W VICON	6180	\$216.72
4100 W VICON series 1	6196	\$327.89
4100 W VICON series 2	6198	\$337.22
4600 VICON series 1	6328	\$493.23
4600 VICON series 3	6332	\$558.48

P&H [P&H]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
535	7716	\$108.92
550	7748	\$114.96

Emergency Inspection and Repair Sewer PS 1 Pump 5 and 6
Exhibit M - Contractor's Compensation Rate Schedule

SHOVELS & CRANES, TRUCK MOUNTED [S&CTK]

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.81

Includes truck/carrier. Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (leads and driving equipment not included).

AMERICAN HOIST & DERRICK [AMHD]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
5470	1015	\$111.58
5530	1080	\$194.54
7450	1130	\$107.57
7460	1140	\$153.65
7530	1170	\$172.26
8460	1178	\$218.93
8470	1179	\$348.39

LINK-BELT [L-B]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HC 48A	4332	\$66.60
HC 108B	4960	\$80.19
HC 108C	4970	\$117.61
HC 138	4992	\$86.95
HC 138A	4995	\$188.16
HC 218	5050	\$113.80
HC 218A	5051	\$187.44
HC 228H	5054	\$231.93
HC 238A, 238B	5065	\$191.38

P&H [P&H]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
440 TC	7240	\$83.73
650A TC	7720	\$118.20
670 TC	7790	\$121.81
790 TC	7880	\$113.24
8115A TC	7950	\$155.75

SANBLASTING EQUIPMENT [SANBL]

DELAY FACTOR = 0.52 OVERTIME FACTOR = 0.51

Includes helmets, gauntlets, 30.5 meters(100 feet) of hose, pot, all control valves, nozzles and other attachments and accessories. Rated in accordance with the capacity of the pot measured in kilograms(pounds)of sand.

REMOTE CONTROL ONLY [REMC]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
45 (100)	159 (350)	010-035	\$1.68
159 (350)	272 (600)	035-060	\$2.22
272 (600)	454 (1000)	060-100	\$2.25
454 (1000)	680 (1500)	100-150	\$2.82
680 (1500)	907 (2000)	150-200	\$3.15

670 WLC

7892

\$134.65

SAWS, CHAIN AND EARTH AUGER ATTACHMENT [SAWCH]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.89

Hand held type, one or two man, gas, air or electric powered including all attachments and accessories. Blades, chains and tips shall be paid separately. Saws which cost less than \$500 are considered minor tools and are no longer listed. Rated in accordance with Mfr's kilowatts (horsepower).

SAWS		[S.A.W.]	
Model		Code	Rate
>3.7 (5)	30 amps @ 120V	5-HP	\$2.87

SAWS, CONCRETE AND MASONRY [SAWCO]

DELAY FACTOR = 0.16 OVERTIME FACTOR = 0.85

Self powered gas, air or electric powered. Includes water (but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Saw blades or abrasive discs shall be paid in accordance with the following sawkerf codes.

SINGLE & MULTI-BLADE OPERATION [ABOP]

Listed in accordance with Mfr's rated kilowatts (horsepower).

OVER	TO	Code	Rate
0	7.5 (10)	0-10	\$3.40
7.5 (10)	14.9 (20)	10-20	\$7.66
14.9 (20)	24.6 (33)	20-33	\$15.21
24.6 (33)	33.6 (45)	33-45	\$17.56
33.6 (45)	48.5 (65)	45-65	\$21.24

BLADE SAWKERF [ABSK]

The following allowance is entered on the extra work bill by using the length x depth per blade.

UNITS	Code	Rate
Rate /blade/ 30.5 m (100 lin ft) / 25 mm (inch) depth	100'/IN	\$18.00
Rate/blade/ 0.3 m (lin ft) / 25 mm (inch) depth	LF-INDE	\$0.18

SCRAPERS, SELF PROPELLED [SCRSP]

DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.87

Includes all attachments and accessories.

CATERPILLAR		[CAT]	
Model		Code	Rate
613		1395	\$66.79
613B		1400	\$75.04
613C		1402	\$94.06
615		1415	\$129.64
615C		1416	\$141.73
621B	Emergency Inspection and Repair Sewer PS 1, Pump 5 and 6	1680	\$164.76
623B	Exhibit M - Contractor's Compensation Rate Schedule	1700	\$170.01
623E		1703	\$201.82

627E non push-pull	1772	\$233.33
627E push-pull	1773	\$237.91
631C 67M5012 serial	2170	\$187.83
631D	2180	\$233.09
631E	2185	\$256.08
633C non cushion hitch	2305	\$183.57
633C cushion hitch	2315	\$183.38
633C 66M693 serial	2320	\$193.09
633D	2330	\$242.66
637 cushion, non-push-pull	2375	\$276.95
637 non-cushion, push-pull	2410	\$279.11
637D non push-pull	2460	\$338.88
637D push-pull	2470	\$342.70
639D	2475	\$352.10
637E	2476	\$370.99
637E push-pull	2477	\$376.21
641B non cushion hitch	2620	\$233.72
641B cushion hitch	2655	\$275.67
651B non cushion hitch	2935	\$281.13
651B cushion hitch	2970	\$283.50
651E	2975	\$350.76
657B non cushion, non p-p	3360	\$444.76
657B cushion, push-pull	3370	\$451.01
657E non push-pull	3375	\$526.49
657E push-pull	3380	\$544.77
660B	3470	\$260.34
666B	3600	\$414.31

JOHN DEERE [DEER]

Model	Code	Rate
JD 760A	3845	\$66.37
JD 762	3860	\$82.23
JD 762A	3865	\$86.29
JD 762B	3866	\$101.29
JD 860A	3920	\$97.60
JD 860B	3930	\$102.57
JD 862	3940	\$121.77
JD 862B	3942	\$149.09

INTERNATIONAL		[INTL]	
Model		Code	Rate
412B		5631	\$83.22
431B		5637	\$162.28
433B		5643	\$236.41

TEREX	[TERX]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
S 11EB	8245	\$66.52	
S 23E 33TOT-H-93SH, elev	8250	\$156.97	
S 24 49LOT-76SH serial	8260	\$200.61	
S 24B 023-024 serial	8270	\$243.50	
S 24C	8275	\$264.85	

WABCO	[W.A.B.]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
101F	8570	\$76.24	
101G	8575	\$77.25	
111A	8640	\$72.62	
222G	8700	\$142.44	
222H	8704	\$161.24	

TRACTORS, CRAWLER	[TRACC]
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DELAY FACTOR = 0.15 OVERTIME FACTOR = 0.87
 Includes all attachments and accessories such as dozer blade and power control blocks when needed, but does not include backhoe, winch or ripper units listed elsewhere in this schedule.

CASE	[CASE]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
350	1820	\$30.50	
350B	1825	\$32.49	
450	1868	\$26.44	
450B	1869	\$30.16	
450C	1869E	\$33.98	
475	1870	\$43.99	
550	2000	\$35.53	
650	2100	\$41.95	
850	2128	\$35.65	
850B	2130	\$38.61	
850C	2135	\$42.33	
850D	2140	\$44.74	
1150B	2250	\$53.47	
1150C	2255	\$58.86	
1150D	2257	\$60.61	
1150E	2258	\$62.80	

CATERPILLAR	[C.A.T.]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
D-3	2340	\$30.96	
D-3B	2345	\$34.29	
D-3 LGP	2350	\$31.58	
D-3B LGP	2355	\$35.50	
D-3B SA	2370	\$38.24	
D-3C	2380	\$36.41	
D4C Series III	2450	\$46.68	
D-4D	2655	\$37.33	

D-4E direct drive	2660	\$39.29
D-4E power shift	2665	\$40.54
D-4H	2670	\$51.14
D-4H LGP	2675	\$51.05
D-4H Series II	2680	\$52.31
D-4E SA	2772	\$47.45
D-4E LGP power shift	2780	\$40.73
D-4E LGP direct drive	2782	\$40.73
D-4G XL	2790XL	\$47.45
D-5	3194	\$53.70
D-5B power shift	3206	\$56.87
D-5B SA	3325	\$61.92
D-5B LGP	3345	\$59.45
D-5C	3346	\$50.65
D-5H	3347	\$67.98
D-5H Series II	3348	\$71.82
D-5H LGP	3350	\$70.91
D-6C direct drive	3645	\$69.59
D-6C power shift	3688	\$70.20
D-6C LGP	3710	\$72.63
D-6D	3720	\$80.58
D-6D SA	3725	\$90.41
D-6D LGP	3730	\$81.01
D-6H	3732	\$91.58
D-6H Series II	3733	\$96.03
D-6H LGP	3735	\$95.97
D-6M LGP	3745	\$89.31
D-6N XL	3755	\$92.02
D-6R DS	3800	\$101.64
D-6R XL	3815	\$106.73
D-7G	4180	\$121.43
D-7G LGP	4200	\$117.38
D-7G SA	4210	\$128.81
D-7H	4215	\$125.37
D-7H Series II	4216	\$134.48
D-7H LGP	4220	\$131.61
D-8K	4858	\$160.78
D-8L	4862	\$193.39
D-8L SA	4863	\$208.94
D-8N	4864	\$173.71
D-8R	4870	\$191.18
D-9H	5160	\$213.99
D-9L	5165	\$256.45
D-9N	5170	\$219.63
D-9R	5175	\$257.30
D-10	5220	\$393.25
D-10N	5225	\$317.82
D-10R	5227	\$354.89
D-11N	5230	\$495.53
D8T	D8T	\$236.74

<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JOHN DEERE	[DEER]		31	6061	\$228.20
			F.D.	6061E	\$260.81
			40		
JD 350C	5360	\$33.94	KOMATSU	[KOMA]	
JD 350D	5365	\$38.03			
JD 400G	5405	\$32.16			
JD 450C	5474	\$34.32	D 21P-6	7965	\$37.08
JD 450D	5476	\$35.63	D 31A-16	7970	\$32.48
JD 450E	5478	\$36.17	D 31A-17	7972	\$35.69
JD 450G	5479	\$39.23	D 31E-17	7976	\$37.18
JD 450J LT/LGP	5479J	\$48.08	D 31E-18	7977	\$39.50
JD 550	5480	\$38.75	D 31P-16	7980	\$32.86
JD 550A	5481	\$41.99	D 31P-17	7981	\$36.40
JD 550B	5483	\$40.77	D 31P-17B	7981E	\$38.17
JD 550G	5484	\$45.75	D 58E-1	8003	\$72.22
JD 650G	5484A	\$51.20	D 58P-1	8003H	\$79.93
JD 650H LGP	5484H	\$54.98	D 65E-6	8070	\$83.35
JD 750	5485	\$60.63	D 65E-7, E-8	8072	\$92.98
JD 750B	5486	\$66.50	D 65P-6	8080	\$86.00
JD 750 LGP	5487	\$63.47	D 65P-7 / D 65P-8	8082	\$96.35
JD 750B LGP	5488	\$80.85	D 68P-1	8083	\$106.20
JD 850	5490	\$79.28	D 68E-1	8085	\$101.17
JD 850B	5491	\$91.36	D 83E-1	8087	\$123.63
JD 850 LGP	5492	\$83.87	D 83P-1	8088	\$124.97
JD 850B LGP	5495	\$98.33	D 85P-18	8090	\$133.33
			D 85A-18	8114	\$166.54
DRESSER	[DRES]		D 85E-18	8140	\$126.54
			D 135A-1	8150	\$162.68
<u>Model</u>	<u>Code</u>	<u>Rate</u>	D 155A-1	8160	\$188.11
TD 7E	9100	\$35.30	D 155A-2	8161	\$187.71
TD 7G	9102	\$39.24	D 375A-1	8175	\$298.72
TD 8E	9105	\$43.06	D 375A-2	8176	\$332.17
TD 8G	9107	\$46.31	D 455A-1	8180	\$366.43
TD 12	9110	\$61.97	D 475A-2	8186	\$519.84
TD 12 LGP	9115	\$70.78			
TD 15C	9120	\$87.41			
TD 15E	9122	\$106.31			
TD 15C LGP	9125	\$84.63			
TD 20E	9130	\$117.11			
T.D. 20G	9135	\$142.31			
T.D. 20G LGP	9137	\$149.71			
TD 25E	9139	\$166.76			
TD 25G	9140	\$207.08			
FIAT-ALLIS	[F-A]				
<u>Model</u>	<u>Code</u>	<u>Rate</u>			
10C	6043	\$68.73			
10C LGP	6044	\$69.59			
14C	6048	\$86.66			
FD 20	6056	\$124.39			
21C	6060	\$143.63			
FD 30	6060E	\$168.09			

TRACTORS, HEAVY	[TRACH]
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DELAY FACTOR = 0.15 OVERTIME FACTOR = 0.86
 Includes all attachments and accessories such as dozer blade, power control units and push blocks, when needed, but does not include backhoe, winch or ripper units listed elsewhere in this schedule.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
814	1400	\$110.70
814B	1410	\$162.70
824B	1720	\$179.33
824C	1730	\$219.27
834B	2010	\$330.98

**TRACTORS, RUBBER TIRE, [TRACS]
INDUSTRIAL, FARM & SKID STEER**

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.89

37.3 kW (50 HP) OR LESS [<50]

Including, but not limited to the following:
Bobcat--440B, 443B, 450, 453, 542B, 543B, 553, 742B, 743B,
753, 763, 773, 1840, 7753
Case-- 1818, 1825, 1835C, 1838
Deere-- 3375, 4475, 5200, 5575, 6675, 7775
Ford-- L250, L454, L455, L553, L555, L781
Gehl-- SL3310, SL3410, SL3725, SL3825, SL4525, SL4625
Hydra-Mac-- 1300, 1600, 1700D

JCB-- 165Robot, 165Robot Ser II
Massey-Ferguson-- MF30E

Mahto-- LS70, LS75, L933
Mustang-- 920, 920E, 921, 930A, 930AE, 940, 940E, 910, 911,
2040
New Holland-- 1220, 1320, 1620, 1920, 2120, 3415, 3930, L250,

L255, L465, LX465, LX485, L565, LX565, LX665
Ramrod-- 230B, 300B, 584B, 784B, 550, 750, 1350, 1550
Thomas-- T-82, T-83, T-83S, T-103, T-132, T-133, T-133S
Trak-- 1300HD, 1300C, 1300CX, 1500C

<u>Model</u>	<u>Code</u>	<u>Rate</u>
with loader or dozer	A	\$27.25
auger, w/ or w/o loader or dozer	B	\$27.70
backhoe, w/ or w/o loader or dozer	C	\$29.34

OVER 37.3 kW (50 H.P.) [>50]

Including, but not limited to the following:
Bobcat-- 853, 863, 873, 943, 953, 980
Case-- 1845C
Deere-- 5300, 5400, 6200, 6300, 6400, 8875

Ford-- L783, L785, 250C, 260C
Gehl-- SL5625, SL6625, SL6635

Hydra-Mac-- 1850, 2650, 2650D
J.C.B.-- 185Robot
Massey-Ferguson-- MF40E, MF50EX
Mustang-- 960, 2060

New Holland-- 4630, 5030, 5640, 6640, 7740, 7840, 8240, 8340,
L865, LX865, LX885, 345D, 545D
Ramrod-- 1750, 1950
Thomas-- T-173HL, T-173HLS, T173HLS II, T-203HD, T-
233HD

<u>Model</u>	<u>Code</u>	<u>Rate</u>
with loader or dozer	A	\$36.50
Generator	GEN1	\$14.99
auger, w/ or w/o loader or dozer	B	\$37.06
Generator w/ cell remote	GEN2	\$16.36
backhoe, w/ or w/o loader or dozer	C	\$38.77
Solar	SOL1	\$10.51
Solar w/ cell remote	SOL2	\$11.87

CHANGEABLE MESSAGE SIGN [CMSN]

FLASHING ARROW SIGN [FLAS]

Including supplies, replacements and servicing.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Roof mounted	R.M	\$0.93
Trailer mounted	TM	\$3.47

**TRAFFIC CONTROL & SAFETY DEVICES [TRAF]
(DAILY RATES)**

DELAY FACTOR = 0.72 OVERTIME FACTOR = 1.00

Includes supplies and servicing. The following allowance is entered on the extra work by using days instead of hours worked. Crash cushion barrels and K-rail sections are now listed with Non-Operated items[NONOP].

(1) BARRICADES [1BAR]

(A) 750 mm to 900 mm high & 600 mm to 900 mm wide (30 to 36 inches high & 24 to 36 inches wide)
(B) 1500 mm high by 1200 mm wide min. (60" high by 48" wide min.)

<u>Model</u>	<u>Code</u>	<u>Rate</u>
each with flasher	A1	\$0.51
each without flasher	A2	\$0.26
each	B3	\$1.16

(2) TRAFFIC CONES [2TC]

Lost or destroyed are no longer paid on invoice.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
450 mm (18") high, per 100	A100	\$9.24
700 mm (28") high, per 100	B100	\$16.04
700 mm (28") high w/ refl sleeve, per 100	D100	\$24.84
1,050 mm (42") high w/ refl sleeve, per 100	E100	\$41.32

(3) PORTABLE DELINEATOR [3DEL]

Lost or destroyed are no longer paid on invoice.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
per 100	100	\$26.31

**TRAFFIC CONTROL & SAFETY DEVICES [TRAF]
(HOURLY RATES)**

DELAY FACTOR = 0.36

OVERTIME FACTOR = 0.68

<u>Model</u>	<u>Code</u>	<u>Rate</u>
incl 900 mm x900 mm (3'x3') sign & batteries	D	(6) FLAG/SIGN STAN D
(5) FLASH 117		Model

incl sign, stand & 3 flags
(7) DELINEATOR DRUM
Model
 Del. drum w/ base per 100

	[4SIG]	
<u>Code</u>		<u>Rate</u>
	12V	\$6.43
	[5BEA]	
<u>Code</u>		<u>Rate</u>
	12V	\$6.57
	[6FSS]	
<u>Code</u>		<u>Rate</u>
	EACH	\$2.97
	[7DDR]	
<u>Code</u>		<u>Rate</u>
100		\$65.54

TRAILERS, EQUIPMENT, LOW BED [TRAIL]

DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.62

Includes all attachments and accessories related to hauling. The rates cover drop deck type with and without folding/removable gooseneck or oscillating trunion. Pilot vehicles are extra. Listed in accordance with number of axles and tires per axle. Includes jeeps, booster axles, and dollies. All loads shall be hauled legally or within Caltrans Permit Policy.

LOW BED A [LB-A]		<u>Code</u>	<u>Rate</u>
2 axle			
<u>Model</u>			
4 Tires per axle		100	\$15.46
8 Tires per axle		200	\$19.49
LOW BED B [LB-B]		<u>Code</u>	<u>Rate</u>
3 axle			
<u>Model</u>			
4 Tires per axle		300	\$20.76
8 Tires per axle		400	\$24.06
LOW BED C [LB-C]		<u>Code</u>	<u>Rate</u>
4 axle			
<u>Model</u>			
4 Tires per axle		500	\$33.29
8 Tires per axle		600	\$41.31
LOW BED D [LB-D]		<u>Code</u>	<u>Rate</u>
6 axle			
<u>Model</u>			
8 Tires per axle		700	\$66.18

TRAILERS, EQUIPMENT, TILT BED [TRAIT]

DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.62

Includes all attachments and accessories related to hauling. Pilot vehicles are extra. Listed in accordance with the Mfr's rated capacity in tonnes(tons).

TILT BED 1 AXLE [TB-1]		<u>Code</u>	<u>Rate</u>
<u>OVER</u>	<u>TO</u>		
0	1.8 (2)	00-02	\$0.82
1.8 (2)	3.6 (4)	02-04	\$0.88
TILT BED 2 AXLES [TB-2]		<u>Code</u>	<u>Rate</u>
<u>OVER</u>	<u>TO</u>		
3.6 (4)	5.4 (6)	04-06	\$1.46
7.3 (8)	9.1 (10)	08-10	\$4.53
9.1 (10)	10.9 (12)	10-12	\$5.22
10.9 (12)	12.7 (14)	12-14	\$5.87
12.7 (14)	14.5 (16)	14-16	\$6.52
14.5 (16)	16.3 (18)	16-18	\$6.31
16.3 (18)	18.1 (20)	18-20	\$6.09
18.1 (20)	20.0 (22)	20-22	\$6.98
20.0 (22)	22.7 (25)	22-25	\$6.78

TRENCHING MACHINES [TRENC]

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90

Includes all attachments and accessories. When used, tungsten carbide tips shall be replaced by separate invoice.

BOBCAT [BCAT]		<u>Code</u>	<u>Rate</u>
<u>Model</u>			
T 116		2000	\$13.02
T 135		2010	\$30.04
T 136		2020	\$30.37
T 208		2030	\$6.74
3022		2040	\$30.82
CASE [CASE]		<u>Code</u>	<u>Rate</u>
<u>Model</u>			
TL 70		9051	\$5.49
TL 100		9053	\$7.90
TL 120		9055	\$9.54
TL 200		9070	\$9.71
16+4		9120	\$14.05
25+4		9170	\$19.46
25 + 4 XP		9171	\$24.68
30+4 standard		9224	\$27.49
DH 4		9255	\$37.01
DH 4B		9256	\$40.62
DH 5		9257	\$35.62
DH 5 QUAD		9259	\$36.46
DH 7		9261	\$42.16
360		9263	\$29.61
ROAD RUNNER 380		9277	\$40.35
TF 300		9374	\$18.51
TF 700		9398	\$25.00
TF 800		9405	\$32.60
TF 1000		9460	\$37.87
760		9465	\$39.14
DITCH WITCH [D-W]		<u>Code</u>	<u>Rate</u>
<u>Model</u>			
R 30		5390	\$25.21
R 36D		5400	\$31.21
R 40		5432	\$32.69
R 65		5556	\$33.67
R 100		5565	\$81.11
V 30		5618	\$24.05
1410		5620	\$9.86
1420		5625	\$10.53
1500		5630	\$7.33
1620		5635	\$13.76
1810		5640	\$14.12
2020		5645	\$17.68

2200	5650	\$10.72
2300	5660	\$25.26
2310	5662	\$26.57
3210	5670	\$28.76
3210 Combo	5675	\$29.63
3500	5676	\$33.90
4010	5677	\$43.49
4010 Combo	5678	\$33.71
5010	5679	\$33.82
6510	5680	\$40.28
6510 Combo	5685	\$43.38

MIDMARK [MDMK]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 A	7945	\$25.03
321	7950	\$26.30
400 A	7955	\$31.97
440	7960	\$40.20

VERMEER [VERM]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CC-135	8350	\$88.06
M 220	8380	\$16.68
M 455 / M455A	8480	\$39.19
M 475	8570	\$41.42
M 475A	8571	\$46.99
M 485	8580	\$45.26
M 495	8585	\$73.49
T 300B, T 300A	8718	\$25.84
T 400C, T 400B, T 400A	8781	\$56.17
T 600D, C, B, A	8842	\$80.98
T 650	8843	\$136.31
T 800B, T 800A, T800	8870	\$129.70
T 800C	8871	\$141.57
T 850	8875	\$252.30
V 430	8950	\$29.48
V 430A	8951	\$33.12
V 434 / M 434	9000	\$28.43
V 440	9015	\$31.49
V 450	9017	\$37.21
V 454	9020	\$32.33
V 1550	9025	\$15.58

**TRUCK, TRUCK TRAILERS, EXCL. [TRUCK]
DUMP TRUCKS & EQPT TRAIL**

DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.19
Includes all attachments and accessories related to hauling, with and without trailers as needed. Includes water trucks, freight trucks and passenger vehicles, including 4wd option. Listed by Mfr's Gross Vehicle Weight in Kilograms(pounds). For tractor-trailer units, the gross vehicle weight of the cargo carrying unit or units will control. In the case of water trucks, the tank capacity expressed in kilograms (pounds) of water plus 20%, will determine the gross vehicle weight. For attachment allowance, see attachment class.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
CARS , LIGHT TRUCKS			
3175 (7000)	5443 (12000) No small pickups	00-06	\$27.42
		06-12	\$31.00
5443 (12000)	9072 (20000)	12-20	\$40.16
9072 (20000)	12701(28000)	20-28	\$42.49
12701 (28000)	16330 (36000)	28-36	\$47.91
16330 (36000)	21773 (48000)	36-48	\$64.07
21773 (48000)	27216 (60000)	48-60	\$70.62
27216(60000) & Over		00	\$79.48

TRUCKS, OFF-HIGHWAY [TRUOF]

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.80
Includes all attachments and accessories. Includes end dump, belly dump and earthmover types. Listed in accordance with Mfr's rated capacity in tonnes (tons). In the case of earthmover types, rated by Mfr's volumetric capacity, a factor of 1.4 tonnes per cubic meter (1-1/2 tons per cubic yard) of struck capacity shall be used.

<u>TRUCK OFF-HIGHWAY</u>		<u>[T.R.U.]</u>	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
9.1 (10)	13.6 (15)	10-15	\$49.67
16.3 (18)	20.0 (22)	18-22	\$88.77
20.0 (22)	24.5 (27)	22-27	\$110.88
24.5 (27)	29.0 (32)	27-32	\$126.75
29.0 (32)	36.3 (40)	32-40	\$172.22
36.3 (40)	49.9 (55)	40-55	\$255.55
49.9 (55)	60.8 (67)	55-67	\$286.99

TRUCKS, DUMP, ON-HIGHWAY [TRUON]

DELAY FACTOR = 0.18 OVERTIME FACTOR = 0.83
 Includes all end dump, side dump and belly dump types; including all attachments and accessories.

TRUCK ON-HIGHWAY [TRUN]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2 axles	2AXL	\$54.69
3 axles	3AXL	\$71.55
4 axles	4AXL	\$80.63
5 axles	5AXL	\$90.06

WELDING EQUIPMENT [WELD]

DELAY FACTOR = 0.20 OVERTIME FACTOR = 0.83

ARC WELDING MACHINES [A.W.M.]

Diesel, gas or electric powered. Includes helmets, holders, cable and all attachments and accessories. Rate capacity in amps.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	250	0-250	\$6.13
250	500	250-500	\$11.85
over	500	500	\$12.27

GAS WELDING OUTFIT [G.W.O.]

Includes regulator, 7.6 meters (25 feet) of hose, torch, goggles, lighter and attachments and accessories. Gas and rod shall be paid separately.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
ALL	ALL	\$0.29

EXHIBIT M
LOCATION MAP

Inspection and Repair of Sewer Pump Station No. 1
Pump 5 and 6

SENIOR ENGINEER
 Jong Choi
 619-533-5493

PROJECT MANAGER
 Manuel Gonzalez
 619-533-3471

FOR QUESTIONS ABOUT THIS PROJECT
 Call: 619-533-4207
 Email: engineering@sandiego.gov



Legend

 Area of Work



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EXHIBIT N

CONTRACTOR'S NOTES FOR EMERGENCY PROJECTS

CONTRACTOR'S NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
2. CONSTRUCTION STORM WATER PROTECTION NOTES
 - a. TOTAL SITE DISTURBANCE AREA: **0 (ACRES)**
 - b. HYDROLOGIC UNIT/WATERSHED: **Pueblo San Diego HU/ San Diego Bay Watershed**
 - c. HYDROLOGIC SUBAREA NAME & NO: **Toyan - 908.31**
 - d. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
 - MWPCP
 - WPCP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
 - WPPP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ
TRADITIONAL: RISK LEVEL 1 2 3
LUP: RISK TYPE 1 2 3
 - e. CONSTRUCTION SITE PRIORITY
 - ASBS HIGH MEDIUM LOW

3. ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. CONTRACTOR TO EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE EXACT SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
5. CITY FORCES, WHERE CALLED OUT SHALL MAKE PERMANENT CUTS & PLUGS, CONNECTIONS, ETC. EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING.
6. STORM DRAIN INLETS ARE TO REMAIN FUNCTIONAL/OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A ONE FOOT VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
8. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A 6-INCH VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN UTILITIES OTHER THAN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
9. CONTRACTOR TO MAINTAIN A MINIMUM 3' OF COVER OVER TOP OF WATER MAIN.
10. CONTRACTOR SHALL RESTORE ALL TRENCHES ON THE PAVEMENT WORKED BY CITY FORCES AFTER FINAL CONNECTION.
11. CONTRACTOR SHALL PROVIDE A 1-FOOT SAND CUSHION OR A MINIMUM 6-INCH SAND CUSHION WITH 1-INCH NEOPRENE PAD FOR ALL CROSSINGS WHERE VERTICAL CLEARANCE BETWEEN CROSSINGS IS 1-FOOT OR LESS.
12. POTHOLE ALL UTILITIES THAT CROSS PROPOSED WATER MAIN BEFORE TRENCHING
13. WHEN APPLICABLE, EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT EXACT.
14. FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (16 INCHES OR LARGER), CONTACT THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR AT (616) 524-7438. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 16 INCHES), CONTACT THE CITY'S WATER OPERATIONS DISTRICT MANAGER AT (619) 527-3945.

EXHIBIT O

SAMPLE CITY INVOICE

City of San Diego, CM&FS Div., 9753 Chesapeake Drive, SD CA 92123

Project Name:

Work Order No or Job Order No.

City Purchase Order No.

Resident Engineer (RE):

RE Phone#: Fax#:

Contractor's Name:

Contractor's Address:

Contractor's Phone #:

Contractor's fax #:

Contact Name:

Invoice No.

Invoice Date:

Billing Period: (To)

Item #	Item Description	Unit	Price	Contract Authorization Qty	Extension	Previous Totals To Date Amount	% / QTY	This Estimate Amount	% / QTY	Totals to Date Amount
1						\$	0.00%	\$	0.00%	\$
2						\$	0.00%	\$	0.00%	\$
3						\$	0.00%	\$	0.00%	\$
4						\$	0.00%	\$	0.00%	\$
5						\$	0.00%	\$	0.00%	\$
6						\$	0.00%	\$	0.00%	\$
7						\$	0.00%	\$	0.00%	\$
8						\$	0.00%	\$	0.00%	\$
9						\$	0.00%	\$	0.00%	\$
10						\$	0.00%	\$	0.00%	\$
11						\$	0.00%	\$	0.00%	\$
12						\$	0.00%	\$	0.00%	\$
13						\$	0.00%	\$	0.00%	\$
14						\$	0.00%	\$	0.00%	\$
15						\$	0.00%	\$	0.00%	\$
16						\$	0.00%	\$	0.00%	\$
17	Field Orders					\$	0.00%	\$	0.00%	\$
CHANGE ORDER No.										
Total Authorized Amount (including approved Change Order)						\$		\$		\$
SUMMARY										

A. Original Contract Amount	\$		
B. Approved Change Order #00 Thru #00	\$		
C. Total Authorized Amount (A+B)	\$		
D. Total Billed to Date	\$		
E. Less Total Retention (5% of D)	\$		
F. Less Total Previous Payments	\$		
G. Payment Due Less Retention	\$0.00		
H. Remaining Authorized Amount	\$0.00		

I certify that the materials have been received by me in the quality and quantity specified

Resident Engineer _____

Construction Engineer _____

Retention and/or Escrow Payment Schedule	
Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
Add'l Amt to Withhold in PO/Transfer in Escrow:	\$0.00
Amt to Release to Contractor from PO/Escrow:	

Contractor Signature and Date: _____

NOTE: CONTRACTOR TO CALCULATE TO THE 2ND DECIMAL PLACE.

EXHIBIT P
SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** The work includes the inspection, assessment, and repair of two (2) main pumps at sewer Pump Station 1. Construction will include, but is not limited to, inspection, assessment, and repair of Pumps 5 and 6.
2. **LOCATION OF WORK:** The location of the Work is as follows:

See **Exhibit M – Location Map**
3. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **260 Working Days**.