

THE CITY OF SAN DIEGO

MEMORANDUM

DATE:	April 27, 2020
TO:	James Nagelvoort, Director, Public Works Department
FROM:	Claudia C. Abarca, Deputy Director, Public Works Department
SUBJECT:	Sole Source Agreement for Emergency Repair of Storm Drain at Rancho Mission Canyon

Estimated Amount:\$1,500,000 (Not-to-Exceed)Contractor:Orion ConstructionEstimated Completion:December 31, 2023

Recommended Action: Approve Sole Source Request

Pursuant to SDMC §22.3108 (a), "Exceptions to Advertisement and Competitive Award of Public Works 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:

A report was received by the Transportation and Storm Water Department on December 20, 2019, reporting a failing 36-inch corrugated metal pipe (CMP) storm drain located near the Rancho Mission Canyon Trailhead on Cabaret St.

The storm drain was inspected via CCTV on December 30, 2019 and found to be corroded and completely separated approximately forty feet from the end of Cabaret St. An additional report was received on January 30, 2020 stating that the failed storm drain was beginning to erode the adjacent slope at a substantial rate, formed a gully, and was threatening the adjacent hiking trail. Further, on February 20, 2020, it was discovered that the pipe separation was diverting flows north toward an adjacent 8-inch PVC sewer main. The erosion had exposed the main, including a joint, and impacted its stability.

With additional rain events, the pipe will continue to deteriorate, and the failure will continue to grow unless the pipe is repaired. The necessary repair is beyond the capabilities of the Transportation and Storm Water Department, Storm Water Division, therefore, it is requested this project be designated an emergency and a sole source contract be approved.

Page 2 James Nagelvoort, Director April 27, 2020

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:

Date: <u>4/28/20</u>20

James Nagelvoort, Director, Public Works

Enclosure:

1. Memorandum from Kris McFadden to James Nagelvoort dated March 16, 2020.

cc: Kris McFadden, Director, Transportation & Storm Water Department Andy Field, Director, Parks and Recreation Department Myrna Dayton, Assistant Director, Public Works Department Akram Bassyouni, Deputy Director, Public Works Department Drew Kleis, Deputy Director, Transportation & Storm Water Department Mark Nassar, Deputy Director, Public Works Department Luis Schaar, Deputy Director, Public Works Department Bethany Bezak, Assistant Deputy Director, Transportation & Storm Water Department Sumer Hasenin, Assistant Deputy Director, Transportation & Storm Water Department Benjamin Battaglia, Program Manager, Transportation & Storm Water Department Jong Choi, Senior Civil Engineer, Public Works Department Sara Dastgheibi, Senior Civil Engineer, Transportation & Storm Water Department Catherine Dungca, Senior Civil Engineer, Public Works Department Chris Gascon, Senior Civil Engineer, Public Works Department Stephen Samara, Principal Contract Specialist, Public Works Department Jeff Cramoline, Associate Civil Engineer, Public Works Department Manuel Gonzalez, Associate Civil Engineer, Public Works 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.**:

CITY CONTACT: Celina Suarez, Contract Specialist, Email: CSuarez@sandiego.gov Phone No. (619) 533-6678

J. Cramoline / E. Wildberger / B. Richardson

CONTRACT DOCUMENTS





FOR

EMERGENCY DESIGN AND CONSTRUCTION SERVICES FOR: RANCHO MISSION CANYON STORM DRAIN REPLACEMENT

RFQ NO.:	K-18-1682-RFQ-3
BID NO.:	K-21-1955-EMR-3
SAP NO. (WBS/IO/CC):	B-20124
CLIENT DEPARTMENT:	2116
COUNCIL DISTRICT:	7
PROJECT TYPE:	СА

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

6/3/20

Date

Seal:



TABLE OF CONTENTS

DESCRIPTION

PAGE

•	General	4
•	Agreement	13
•	Performance Bond and Labor and Materialmen's Bond	17
•	Exhibit A - Drug-Free Workplace Certification	19
•	Exhibit B - ADA Compliance Certification	21
•	Exhibit C - Contractor Standards - Pledge of Compliance	23
•	Exhibit D - Equal Benefits Ordinance Certification	25
•	Exhibit E - Affidavit of Disposal	27
•	Exhibit F - Non-Collusion Affidavit	29
•	Exhibit G - Contractors Certification of Pending Actions	31
•	Exhibit H - Mandatory Disclosure of Business Interest Forms	33
•	Exhibit I - Forms	35
•	Exhibit J - Supplementary Special Provisions	47
•	Exhibit K - Notice of Exemption	69
•	Exhibit L - Contractor's Compensation Rate Schedule	72
•	Exhibit M - Location Map	119
•	Exhibit N - Contractor's Notes for Emergency Projects	121
•	Exhibit O - Advanced Metering Infrastructure (AMI) Device Protection	124
•	Exhibit P - Sample City Invoice	131
•	Exhibit Q - Phased Funding Provisions	133
•	Exhibit R - Long-Term Maintenance and Monitoring Agreement Exhibit S - Scope of Work	

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 designing and constructing this emergency project at the direction of the City Engineer.
- **1.2.** The Work consists of design and replacement of **Rancho Mission Canyon Storm Drain Replacement**. Repairs will include but is not limited to replacement of 150 linear feet of 36-inch CMP storm drain with 36-RCP. Contractor to procure civil and geotechnical consultant to evaluate and design storm drain replacement. Additional inlets will be installed to capture surface flow and eliminate concrete swale. Harris & Associates to be retained as Engineer of Record to perform design services. Design will be completed within 88 working days. Contractor to procure consultant to design revegetation plan per City guidelines. After construction slope will be restored to original state and revegetated per plan.
- **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 WHITEBOOK.
- **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.
- **1.5.** The Design-Builder agrees to provide the required services for the terms and conditions noted in this contract and its exhibits. The agreement and other terms and conditions are included in this Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
- **1.6.** Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity. It is the responsibility of the Design-Build entity to obtain the required legal advice necessary to resolve such matters.

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 are outlined in paragraph 7.9 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.
 - **3.1.** The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

3.2. Design-Builder's Work Force

- **3.2.1.** The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.
- **3.2.2.** If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.
- **3.2.3.** The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

http://www.sandiego.gov/eoc/forms

- 4. **CONTRACT TIME**: The Work including the Plant Establishment Period shall be completed within **220 Working Days** from the date of issuance of the Notice to Proceed. Design will be completed concurrent with construction and be completed within the first 88 working days of the contract.
- **5. CONTRACT PRICE**: The Engineer's Estimate of the Contract Price is **\$1,200,000**. 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 found rate of per diem wages also may be 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 sections1810 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.** A 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 7.11 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") <u>http://www.greenbookspecs.org/</u>	2018	PWPI010119-01	
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")*	2018	PWPI010119 -02	
https://www.sandiego.gov/ecp/edocref/greenbook			
City of San Diego Standard Drawings* https://www.sandiego.gov/ecp/edocref/standarddraw	2018	PWPI010119 -03	
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/ecp/edocref/drawings	2018	PWPI010119 -04	
California Department of Transportation (CALTRANS) Standard Specifications	2018	PWPI030119-05	
https://dot.ca.gov/programs/design/ccs-standard-plans-and- standard-specifications			
CALTRANS Standard Plans	2018	PWPI030119-06	
https://dot.ca.gov/programs/design/ccs-standard-plans-and- standard-specifications			
California Manual on Uniform Traffic Control Devices Revision 5 (CA MUTCD 2014 Rev 5)	2014	PWPI042220-09	
<u>http://www.dot.ca.gov/programs/safety-</u> programs/camutcd/camutcd-rev5			
NOTE: *Available online under Engineering Documents and References at: https://www.sandiego.gov/ecp/edocref/			
*Electronic updates to the Standard Drawings may also be found in the link above			

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-PERFOMANCE", 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 the GREENBOOK and Special Provisions 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 and Capital Projects Contracts Branch, 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", and 5-4, "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. DESIGN SUBMITTALS:** The City's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.
- 22. 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 DESIGN AND CONSTRUCTION SERVICES BETWEEN THE CITY OF SAN DIEGO AND ORION CONSTRUCTION CORPORATION

This Phased-Funded Emergency Design and 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 designing (when required) and performing emergency construction services for **Rancho Mission Canyon Storm Drain Replacement**, Bid Number **K-21-1955-EMR-3**, in the amount of **\$1,200,000.00**, consisting of an amount not to exceed \$800,000.00 for Phase I and \$400,000.00 for Phase II 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 design and 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 claims 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 <u>the date the City issued the Contractor a written notice to proceed</u> (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.
- During the final design process (if any), if the Contractor modifies the Project such that a revision of the environmental document is required, the Contractor shall be responsible for all work required for implementing a revision, including preparation of revised documentation and coordination with City staff. Work shall not proceed on the project until the environmental requirements are met to the satisfaction of the City. There shall be no additional time allowed in the contract for processing and approval of revised permit documents.

- M. 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, "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 §94 authorizing such execution, and by the Contractor.

THE CITY OF SAN DIEGO

en By

Print Name: ______ Stephen Samara Principal Contract Specialist Engineering & Capital Projects Date: ______ 11-4-2020

CONTRACTOR

Βv

Print Name: Richard Dowsing

Title: President of Orion Construction Corp.

Date:

City of San Diego License No.: B199002970

State Contractor's License No.: 549309

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

Print Name: Mark M. Morce

City Attorney

Date

Rancho Mission Canyon Storm Drain Replacement Agreement (Rev. Mar. 2019)

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 San Diego Notary Public
on 11/03/2020 before me, Richard Gregory Newhall (insert name and title of the officer)
personally appeared Richard Dowsing - 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	. ,	а	corporation,	as	principal	, а	ind
Western Surety Company	. ,	а	corporation	aut	horized	to	do
business in the State of California, as Surety, hereby obligate th	nem	sel	ves, their succ	esso	rs and as	sign	IS,
jointly and severally, to The City of San Diego a municipal corp	ora	tio	n in the sum o	f <u>On</u>	e Million	Tw	/0
Hundred Thousand Dollars (\$1,200,000.00) for the faithful	per	for	mance of the	ann	exed con	trac	:t,
and in the sum of <u>One Million Two Hundred Thousand Do</u>	llar	s (\$1,200,000.00 <u>)</u>	for	the bene	fit d	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 September 30, 2020

Approved as to Form

Orion Construction Corporation

Principal

R

Richard Dowsing, President Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney By

Deputy City Attorney

Orion Construction Corporation

Surety

Lawrence F. McMahon By Digitally signed by Lawrence F. McMahon Date: 2020.09.30 11:59:47 -07'00'

> Attorney-in-fact Lawrence F. McMahon

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 \$13,910.00

Premium includes 25 months warranty and subject to adjustment based on final contract price.

Bond No. 30113582

Approved:

Stephen Samara Principal Contract Specialist Engineering & Capital Projects

Rancho Mission Canyon Storm Drain Replacement Agreement (Rev. Feb. 2019)

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 attac	ched, and not the truthfulness, accuracy or validity of that document.				
STATE OF CALIFORNIA	}				
County of San Diego	J				
On September 30, 2020 before me,	Maria Guise , Notary Public, Insert Name of Notary exactly as it appears on the official seal				
personally appeared	Name(s) of Signer(s)				
MARIA GUISE COMMISSION # 2283717 Notary Public - California ORANGE COUNTY My Comm Expires Apr. 14, 2023	who proved to me on the basis of satisfactory evidence to be the person(#) whose name(#) is/## subscribed to the within instrument and acknowledged to me that he/####################################				
	Witness my hand and official seal.				
	Signature Minilw				
Place Notary Seal Above	Signature of Notary Public Maria Guise				
and could prevent fraudulent remove Description of Attached Document Title or Type of Document:	by law, it may prove valuable to persons relying on the document al and reattachment of the form to another document.				
	Number of Pages:				
Signer(s) Other Than Named Above:					
Capacity(ies) Claimed by Signer(s)					
Signer's Name:	Signer's Name:				
	Individual				
Corporate Officer Title(s):	Corporate Officer Title(s):				
Partner Limited General	Partner Limited General				
Attorney in Fact	PRINT Attorney in Fact RIGHT THUMBERINT				
Trustee OF SIGNE					
Guardian or Conservator Top of thumb h	nere Guardian or Conservator Top or mumb here				
Other:	Other:				
Signer is Representing:	Signer is Representing:				
Surety Company					
l					

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.

State of South Dakota County of Minnehaha } \$

On this 17th day of January, 2017, before me personally came Paul T. Bruflat, 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 NOTAVY FUELC

9	.7	John)

WESTERN SURETY COMPANY

CERTIFICATE

J. Mohr, Notary Public

Bruflat, Vice President

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 _____30th _____day of ______September ______, 2020



WESTERN SURETY COMPANY



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.

CALIFORNIA CERTIFICATE OF ACKNOWLEDGMENT

	ASIMILIA CHINOMI ELIOMENI MUKADMERDAMENIAR KIIOMELI JOMENI AUKOMENI AUKOMERDAMENI AUKOMERDOMENI AUKOMI EDOMENI B				
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 <u>San Diego</u> ,	Votary Public				
County of <u>San Diego</u>) On <u>09/30/2020</u> before me, <u>Richard</u>	Sregory Newhall				
personally appeared Richard DOWSing	inserviciame and title of the officer)				
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(jes), 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.	Notary Public - California San Diego County Commission # 2240582 My Comm. Expires Apr 30, 2022				
Optional Information					
Although the information in this section is not required by law, it could prevent fraudulent removal ar unauthorized document and may prove useful to persons relying on the attached document.					
Description of Attached Document	1				
The preceding Certificate of Acknowledgment is attached to a document	Additional Information Method of Signer Identification				
titled/for the purpose of	Proved to me on the basis of satisfactory evidence: () form(s) of identification () credible witness(es)				
containing pages, and dated	Notarial event is detailed in notary journal on: Page # Entry #				
The signer(s) capacity or authority is/are as:	Notary contact:				

Other

Additional Signer(s) Signer(s) Thumbprint(s)

Corporate Officer(s)	
	Title(s)
Guardian/Conservator	
Partner - Limited/Genera Trustee(s)	i
Other:	
representing:	
	Name(s) of Person(s) or Entity(ies) Signer is Representing

Individual(s)

Attorney-in-Fact

© Copyright 2007-2017 Notary Rotary, PO Box 41400, Des Moines, IA 50311-0507. All Rights Reserved.	Item Number 101772. Please contact your Authorized Reseller to purchase copies of this form.
--	--

EXHIBIT A

DRUG-FREE WORKPLACE 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

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 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:

Rancho Mission Canyon Storm Drain Replacement

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-21-1955-EMR-3**; SAP No. (WBS) **B-20124**; 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

CONTRACTOR'S 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.

- $\mathbf{\nabla}$ 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.
- П 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
					- 10

Contractor Name: Orion Construction Corporation

Certified By

Richard Dowsing

Title President

Name

Signature

9/20/2020 Date

USE ADDITIONAL FORMS AS NECESSARY

EXHIBIT H

MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal Na	ame	DBA					
Orion Construction Corporation	Orion Construction Corporation						
Street Address	City	State	Zip				
2185 La Mirada Drive	Vista	California	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 of Orion Construction Corporation				
City and State of Residence	Employer (if different than Bidder/Proposer)				
Encinitas, CA					
Interest in the transaction					
President					

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

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.

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal N	lame		DBA	
Street Address	City	State	Zip	
Contact Person, Title		Phone	Fax	

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

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.

Print Name, Title

Signature

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 GREENBOOK and Special Provisions Section 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, 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 SDVOSBO	WHERE CERTIFIED ©	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Helix Environmental Planning, Inc. Address: 7578 El Cajon Blvd. City: La Mesa State: CA Zip: 91942 Phone: (619) 462-1515 Email: ShelbyH@helixepi.com	Consultant	1000015953	N/A	Consultant	\$51,760.00	N/A	N/A	N/A
Name: Aqua Community Relations Address: 4452 Park Blvd. #208 City: San Diego State: CA Zip: 92116 Phone: (619) 794-6406 Email: paula@aquacrg.com	Consultant	N/A	11HC0124	Community Outreach	\$4,000.00	ELBE SLBE	CITY	N/A

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):

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		
Ø As appropriate, Bidder shall indicate if Subcontractor is certified b	y:		
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

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 GREENBOOK and Special Provisions Section 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, WaSB, HUBZone, OR SDVOSBO	WHERE CERTIFIED Ø	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Robert Rose Construction Address: 4203 Genesee Ave #103-445 City: San Diego State: CA Zip: 92117 Phone: (858) 874-8424 Email: jeremy@robertroseconstruction.com	Constructor	1000007322	642557	Constructor	\$108,503.00	N/A	N/A	N/A
Name: Harris & Associates, Inc. Address: 600 B Street Suite 2000 City: San Diego State: CA Zip: 92101 Phone: (619) 481-5000 Email: Frank.Lopez@weareharris.com	Designer	N/A	N/A	Designer	\$82,400.00	N/A	N/A	N/A

D 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):

	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	
1	Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone	
	Service-Disabled Veteran Owned Small Business	SDVOSB			
	Ø As appropriate, Bidder shall indicate if Subcontractor 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	

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 GREENBOOK and Special Provisions Section 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, 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 SDVOSBØ	WHERE CERTIFIED ©	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Ninyo & Moore Address: 5710 Ruffin Road City: San Diego State: Zip: 92123 Phone: (858) 576-1000 Email: Wmorrison@ninyoandmoore.com	Designer	1000004481	697063	Consultant	\$55,000.00	MBE	CPUC	N/A
Name:								

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):

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		
As appropriate, Bidder shall indicate if Subcontractor 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

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, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSE®	WHERE CERTIFIED@
Name: Vulcan Materials Company Address: 10051 Black Mountain Road City: San Diego State: CA Zip: 92126 Phone: (858) 530-9498 Email: espinozaa@vmcmail.com	Materials	\$6,000.00	Yes	Yes	N/A	N/A
Name: Oldcastle Infrastructure Address: 10441 Vine Street City: Lakeside State: CA Zip: 92040 Phone: (619) 240-8000 Email: Curtis. Mumford@oldcastle.com	Supplier	\$10,645.00	Yes	Yes	N/A	N/A

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): \odot **Certified Minority Business Enterprise Certified Woman Business Enterprise** MBE WBE Certified Disadvantaged Business Enterprise DBE DVBE Certified Disabled Veteran Business Enterprise Other Business Enterprise OBE Certified Emerging Local Business Enterprise ELBE Certified Small Local Business Enterprise **\$LBE** Small Disadvantaged Business SDB Woman-Owned Small Business WoSB **HUBZone Business** HUBZone Service-Disabled Veteran Owned Small Business SDVOSB

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

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	
Richard Dowsing	President of Orion Construction Corporation

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a copartnership, 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.

initiating agency,	considered in determining bidder responsibility. and dates of action. Orion Construction Corporation	For any exception noted above, indicate below to whom it applies,
Certified By	Richard Dowsing	Title President

9/28/2020 Date _____ Signature

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
Niny	NAME o & Moore - Kenneth Ma	nsir Jr.		Principal	TITLE
$\mathbf{\nabla}$	SUBCONTRACTOR		SUPPLIER		MANUFACTURER
	NAME				TITLE
Land	Surveying Consultants,	Inc Da	ale K. Brewer	President	
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER
	NAME				
Robe	ert Rose Construction - J	eremey	Rose	Vice Preside	ent
<u> </u>					
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER
	NAME				TITLE
Aqua	a Community Relations -	Paula F	Roberts	President	
Contra	ctor Name: Orion Const	ruction	Corporatio	n	
Certifie	d By: Richard Dowsing	9			Title President
	5	R	Name	>	Date 9/28/2020

Signature

USE ADDITIONAL FORMS AS NECESSARY

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	$\mathbf{\nabla}$	SUPPLIER		MANUFACTURER				
	NAME				TITELE	_			
Oldc	astle Infrastructure - Too	ld Ebber	t	Vice President					
Vulc	an Materials Company -	Alvaro E	Espinoza	Businesss Representative					
L									
			<u></u>						
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER				
	NAME				TITLE				
Sea	right Paving, Inc Moni	que Vas	quez	Vice Presid					
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER				
	NAME				TITLE				
Helix	Environmental Planning	- Shelb	y Howard	Vice Presid	ent				
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER				
	NAME				TITLE				
Harri	s & Associates, Inc Ga	ary Yaga	de	Vice Presid	ent				
Contra	ctor Name: Orion Const	ruction	Corporatio	n					
Cartific	d By:Richard Dowsi	ng			Title President				
Gerune	м ву		Name			_			

Signature.

Date 9/28/2020

USE ADDITIONAL FORMS AS NECESSARY



EQUAL OPPORTUNITY CONTRACTING (EOC)

1200 Third Avenue, Suite 200 • San Diego, CA 92101

Phone: (619) 236-6000 • Fax: (619) 236-5904

WORK FORCE REPORT

The objective of the *Equal Employment Opportunity Outreach Program*, San Diego Municipal Code Sections 22.3501 through 22.3517, is to ensure that contractors doing business with the City, or receiving funds from the City, do not engage in unlawful discriminatory employment practices prohibited by State and Federal law. Such employment practices include but are not limited to unlawful discrimination in the following: employment, promotion or upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation, and selection for training, including apprenticeship. Contractors are required to provide a completed *Work Force Report (WFR)*.

					WILL BE ACC					
Type of Contractor:	Construction Consultant Orion Construction Corporatio	□ Ven □ Gra	dor/Supplier Image: Financial Institution nt Recipient Insurance Compare			 Lessee/Lessor Other 				
Name of Company: ADA/DBA:										
			2185	a Mira	da Drive					
City: Vista	eadquarters, where applicab		Oce D				State:	California		081
Telephone Number:	(760) 597-9660				Fax Number	. (76	60) 597			
Name of Company CE	:O: Richard Dowsi	ng	_							
Address(es), phone ar	nd fax number(s) of company	facilities l	ocated in	San Diego	County (if di	fferent	from ab	ove):		
Address:										
City:		County:					State:		_ Zip:	
Telephone Number:		Fax N	lumber:							
Type of Business:	General Contractor				Type of Lice	nse:	A & B			
The Company has app	pointed: Richard Dov	wsing								
affirmative action poli	ent Opportunity Officer (EEO cies of this company. The EE a Mirada Drive Vista,	OO may b	e contact		authority to e	stablish,	dissemir	nate and enforce equ	ual employm	nent and
Telephone Number: (<u>)</u> (760) 597-9660	Fax	Number:	(760) 5	597-9661		_ Email:	Richard.Dowsing	g@orionco	nstruction.com
		Branch Manag Check	Work Fo ing Offic the box o	orce * e Work F above the	orce It applies to t	his WF	R.	k Force - Mandato	-	
*S I, the undersigned rep	ubmit a separate Work Force presentative of Orion Con	Report for struction Co				ie WFRs	if more t	han one branch per	county.	
San Diego		, <u>c</u>	alifornia	(Fin	m Name)		hereby c	ertify that information	on provided	
•	County) rect. This document was exe	cuted on t	his	(State)	25th	_ day of	Sept	ember	, 20	.20
	104				Richard C	3. New	hall - Or	ion Construction (Contracts /	Administrator
(Ai	ithorized Signature)				(F	rint Aut	horized S	lignature Name)		

WORK FORCE REPORT - Page 2

Orion Construction Corporation NAME OF FIRM:

OFFICE(S) or BRANCH(ES):

DATE: 09/25/2020 San Diego

COUNTY: INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

(5)

(1) Black or African-American

(2) Hispanic or Latino

(3) Asian

(4) American Indian or Alaska Native

(6) White (7) Other race/ethnicity; not falling into other groups

Native Hawaiian or Pacific Islander

Definitions of the race and ethnicity categories can be found on Page 4

ADMINISTRATION OCCUPATIONAL CATEGORY	Black	(1) (2) Black or African American			(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)		(M)	(F)
Management & Financial					1	2			1		1			
Professional	6			6 1 1	1					1	2			1 1 1
A&E, Science, Computer											5	2		
Technical				1										1
Sales														1
Administrative Support				3							1	1		1 1 4
Services														
Crafts														
Operative Workers				P L										8 8 8
Transportation			8								2	1		
Laborers*			2								3			

*Construction laborers and other field employees are not to be included on this page

			1			
Totals Each Column	l i	10 3	2 ¦ 2	1	14 4	

Grand Total All Employees	30	6				
Indicate by Gender and Ethnicity th	he Number of Above	Employees Who	Are Disabled:			
Disabled		1			1	
Non-Profit Organizations Only:						
Board of Directors			8	1		
Volunteers						
Artists			1	1		

WORK FORCE REPORT - Page 3

NAME OF FIRM: Orion	Construction Corporation		DATE:	09/25/2020	
OFFICE(S) or BRANCH(ES):		COUNTY:	San Di	egó	

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

(1) Black or African-American

(2) Hispanic or Latino

(3) Asian

(4) American Indian or Alaska Native

Definitions of the race and ethnicity categories can be found on Page 4

TRADE OCCUPATIONAL CATEGORY	Blac Afr	1) ck or ican erican	Hispa	2) anic or tino		3) ian	Indiar	rican	Pac	5) cific nder		5) nite	Other	7) Race/ nicity
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Brick, Block or Stone Masons														
Carpenters				1 4 4				8 8 9 9		5 1 1 1				
Carpet, Floor & Tile Installers Finishers				4 4 4				0 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14))))		8 8 8 8		
Cement Masons, Concrete Finishers														
Construction Laborers	3		27	1						1	11			
Drywall Installers, Ceiling Tile Inst		8								1		P 		
Electricians						P P P								
Elevator Installers						1 6 1								
First-Line Supervisors/Managers		1		1										
Glaziers		1												
Helpers; Construction Trade		-												
Millwrights		1 1 1		8 9 1						8 8 9				
Misc. Const. Equipment Operators	1	4	13								14			
Painters, Const. & Maintenance			3	1 4 4						T 				
Pipe layers, Plumbers, Pipe & Steam Fitters				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
Plasterers & Stucco Masons														
Roofers		8		4 4 4										
Security Guards & Surveillance Officers				1 1 1										
Sheet Metal Workers		8 8 8												
Structural Metal Fabricators & Fitters		1 1 1												
Welding, Soldering & Brazing Workers														
Workers, Extractive Crafts, Miners		5 5 1 9												
Totals Each Column	4		43	1							25			
Grand Total All Employees		73												
ndicate By Gender and Ethnicity the Numbe	r of Abov	e Emplo	oyees W	ho Are I	Disablec	:						!	1	
Disabled														

(5) Native Hawaiian or Pacific Islander

Other race/ethnicity; not falling into other groups

(6) White

(7)

The City of SAN DIEGO

Work Force Report

<u>History</u>

The Work Force Report (WFR) is the document that allows the City of San Diego to analyze the work forces of all firms wishing to do business with the City. We are able to compare the firm's work force data to County Labor Force Availability (CLFA) data derived from the United States Census. CLFA data is a compilation of lists of occupations and includes the percentage of each ethnicity we track (American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Pacific Islander, White, and Other) for each occupation. Currently, our CLFA data is taken from the 2010 Census. In order to compare one firm to another, it is important that the data we receive from the consultant firm is accurate and organized in the manner that allows for this fair comparison.

WORK FORCE & BRANCH WORK FORCE REPORTS

When submitting a WFR, especially if the WFR is for a specific project or activity, we would like to have information about the firm's work force that is actually participating in the project or activity. That is, if the project is in San Diego and the work force is from San Diego, we want a San Diego County Work Force Report¹. By the same token, if the project is in San Diego, but the work force is from another county, such as Orange or Riverside County, we want a Work Force Report from that county². If participation in a San Diego project is by work forces from San Diego County and, for example, from Los Angeles County and from

Sacramento County, we ask for separate Work Force Reports representing your firm from each of the three counties.

MANAGING OFFICE WORK FORCE

Equal Opportunity Contracting may occasionally ask for a Managing Office Work Force (MOWF) Report. This may occur in an instance where the firm involved is a large national or international firm but the San Diego or other local work force is very small. In this case, we may ask for both a local and a MOWF Report^{1, 3}. In another case, when work is done only by the Managing Office, only the MOWF Report may be necessary.³

TYPES OF WORK FORCE REPORTS:

Please note, throughout the preceding text of this page, the superscript numbers one ¹, two ² & three ³. These numbers coincide with the types of work force report required in the example. See below:

- ¹ One San Diego County (or Most Local County) Work Force –
- Mandatory in most cases
- ² Branch Work Force *
- ³ Managing Office Work Force
- *Submit a separate Work Force Report for all participating branches. Combine WFRs if more than one branch per county.

RACE/ETHNICITY CATEGORIES

American Indian or Alaska Native – A person having origins in any of the peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.

Asian – A person having origins in any of the peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Black or African American – A person having origins in any of the Black racial groups of Africa.

Native Hawaiian or Pacific Islander – A person having origins in any of the peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

White - A person having origins in any of the peoples of Europe, the Middle East, or North Africa.

Hispanic or Latino – A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin.

Rancho Mission Canyon Storm Drain Replacement Exhibit I ~ Forms (Rev. Aug. 2018)

Exhibit A: Work Force Report Job Categories – Administration Refer to this table when completing your firm's Work Force Report form(s). Management & Financial

Advertising, Marketing, Promotions, Public Relations, and Sales Managers

Business Operations Specialists

Financial Specialists

Operations Specialties Managers

Other Management Occupations

Top Executives

Professional

Art and Design Workers

Counselors, Social Workers, and Other Community and Social Service Specialists

Entertainers and Performers, Sports and Related Workers

Health Diagnosing and Treating Practitioners

Lawyers, Judges, and Related Workers

Librarians, Curators, and Archivists

Life Scientists

Media and Communication Workers

Other Teachers and Instructors

Postsecondary Teachers

Primary, Secondary, and Special Education School Teachers

Religious Workers

Social Scientists and Related Workers

Architecture & Engineering, Science, Computer Architects, Surveyors, and Cartographers

Computer Specialists

Engineers

Mathematical Science Occupations

Physical Scientists

Technical

Drafters, Engineering, and Mapping Technicians Health Technologists and Technicians Life, Physical, and Social Science Technicians Media and Communication Equipment Workers

Sales

Other Sales and Related Workers Retail Sales Workers Sales Representatives, Services Sales Representatives, Wholesale and Manufacturing

Supervisors, Sales Workers

Administrative Support

Financial Clerks

Information and Record Clerks

Legal Support Workers

Material Recording, Scheduling, Dispatching, and Distributing Workers

Other Education, Training, and Library Occupations

Other Office and Administrative Support Workers

Secretaries and Administrative Assistants

Supervisors, Office and Administrative Support Workers

Services

Building Cleaning and Pest Control Workers

Cooks and Food Preparation Workers

Entertainment Attendants and Related Workers

Fire Fighting and Prevention Workers

First-Line Supervisors/Managers, Protective Service Workers

Food and Beverage Serving Workers

Funeral Service Workers

Law Enforcement Workers

Nursing, Psychiatric, and Home Health Aides

Occupational and Physical Therapist Assistants and Aides

Other Food Preparation and Serving Related Workers

Other Healthcare Support Occupations

Other Personal Care and Service Workers

Other Protective Service Workers

Personal Appearance Workers

Supervisors, Food Preparation and Serving Workers

Supervisors, Personal Care and Service Workers

Transportation, Tourism, and Lodging Attendants

Crafts Construction Trades Workers

Electrical and Electronic Equipment Mechanics, Installers, and Repairers

Extraction Workers

Material Moving Workers

Other Construction and Related Workers

Other Installation, Maintenance, and Repair Occupations

Plant and System Operators

Supervisors of Installation, Maintenance, and Repair Workers

Supervisors, Construction and Extraction Workers

Vehicle and Mobile Equipment Mechanics, Installers, and Repairers

Woodworkers

Operative Workers

Assemblers and Fabricators

Communications Equipment Operators

Food Processing Workers

Metal Workers and Plastic Workers

Motor Vehicle Operators

Other Production Occupations

Printing Workers

Supervisors, Production Workers

Textile, Apparel, and Furnishings Workers

Transportation Air Transportation Workers

Other Transportation Workers

Rail Transportation Workers

Supervisors, Transportation and Material Moving Workers

Water Transportation Workers

Laborers Agricultural Workers

Animal Care and Service Workers

Fishing and Hunting Workers

Forest, Conservation, and Logging Workers

Grounds Maintenance Workers

Helpers, Construction Trades

Supervisors, Building and Grounds Cleaning and Maintenance Workers

Supervisors, Farming, Fishing, and Forestry Workers

Exhibit B: Work Force Report Job Categories-Trade

Brick, Block or Stone Masons Brick masons and Block masons

Stonemasons

Carpenters

Carpet, floor and Tile Installers and Finishers Carpet Installers

Floor Layers, except Carpet, Wood and Hard Tiles

Floor Sanders and Finishers

Tile and Marble Setters

Cement Masons, Concrete Finishers Cement Masons and Concrete Finishers

Terrazzo Workers and Finishers

Construction Laborers

Drywall Installers, Ceiling Tile Inst Drywall and Ceiling Tile Installers

Tapers

Electricians

Elevator Installers and Repairers

First-Line Supervisors/Managers First-line Supervisors/Managers of Construction Trades and Extraction Workers

Glaziers

Helpers, Construction Trade Brick masons, Block masons, and Tile and Marble Setters

Carpenters

Electricians

Painters, Paperhangers, Plasterers and Stucco

Pipe slayers, Plumbers, Pipefitters and Steamfitters

Roofers

All other Construction Trades

Millwrights

Heating, Air Conditioning and Refrigeration Mechanics and Installers

Mechanical Door Repairers

Control and Valve Installers and Repairers

Other Installation, Maintenance and Repair Occupations

Misc. Const. Equipment Operators Paving, Surfacing and Tamping Equipment Operators

Pile-Driver Operators

Operating Engineers and Other Construction Equipment Operators

Painters, Const. Maintenance Painters, Construction and Maintenance

Paperhangers

Pipe layers and Plumbers Pipe layers

Plumbers, Pipefitters and Steamfitters

Plasterers and Stucco Masons

Roofers

Security Guards & Surveillance Officers

Sheet Metal Workers

Structural Iron and Steel Workers

Welding, Soldering and Brazing Workers Welders, Cutter, Solders and Braziers

Welding, Soldering and Brazing Machine Setter, Operators and Tenders

Workers, Extractive Crafts, Miners

EXHIBIT J

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:
 - a) 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 7:30 AM to 3:00 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 staff charges directly associated with the project.
 - 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

- **3-2 SELF-PERFORMANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:
 - 1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid.

3-10 SURVEYING. To the "GREENBOOK" and "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

3-10 SURVEYING.

3-10.1 General.

- 1. You shall provide all required site layout and general grade checking work not specified in 3-10.2, "Survey Services Provided by City (via City Consultant Surveyor)".
- 2. Notify the City, in writing, at least 2 Working Days prior to requesting survey services provided by the City.

3-10.2 Survey Services Provided by City (via City Consultant Surveyor).

- 1. Monument Perpetuation, including mark-outs, will be performed by the City Engineering and Capital Projects (ECP), Land Survey Section (LSS), unless otherwise noted. You are responsible for requesting the coordination of these services.
 - a) If at any time a monument will be destroyed or covered, such monument shall be perpetuated in accordance with state law. Inform the LSS, via project Resident Engineer, if any monument will be destroyed or covered during any construction activity.
- 2. The following surveying services (including construction staking), as defined in California Business & Professions Code §8726, shall be provided by the City or a City consultant surveyor:
 - a) Locating or establishing alignment or elevations of all features or structures shown on project Plans.
 - b) Locating or establishing geodetic control points for all site feature or structure locations.
 - c) Produce topographic as-built data.
 - d) Locating, establishing, or re-establishing monuments, property lines, right-of-way lines, or easement lines.
 - e) Verifying structure finish grade elevations.
- 3. All construction survey stakes, control points, and other survey related marks provided by the City shall be preserved for the duration of the Project. If any construction survey stakes, control points, or other survey related marks are lost or disturbed and need to be replaced, such replacement shall be performed at your expense.

3-10.3 Payment.

1. The payment for site layout and general grade checking Work, coordination, and preservation of all survey related marks shall be included in the Contract Price.

- **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.
 - If the Work includes sewer and storm drain installations, the inspection shall include televising in accordance with 306-18, "VIDEO INSPECTION".
 - 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. 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. 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 of a Walk-through in writing or schedule a Walk-through inspection. The Engineer shall facilitate the Walk-through.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, and all operation and maintenance manuals have been accepted by the City.
- 8. 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					

Specified Item	Minimum Warranty Period
Field Devices Associated with 7 "Adaptive Control Note"	0-6.3, 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. 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 4 - CONTROL OF MATERIALS

- **4-3.6 Preapproved Materials.** To the "WHITEBOOK", ADD the following:
 - 3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

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:

General Annual Aggregate Limit	Limits of Liability
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.
- **5-4.3 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 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. 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.
- **5-4.6 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.

5-4.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).

- 1. For Contracts with required engineering services (e.g., <u>Design-Build</u>, preparation of engineered Traffic Control Plans (TCP), and etc.) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of \$1,000,000 per claim and \$2,000,000 annual aggregate in full force and effect.
- 2. You shall ensure the following:
 - a) The policy retroactive date is on or before the date of commencement of the Project.
 - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
- 3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
 - a) Certify this to the City in writing and
 - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

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:

Workers' Compensation	Statutory Employers Liability
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 its entirety and SUBSTITUTE with the following:
 - 2. 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.
 - 3. 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 "WHITEBOOK", item 1, subsection "s", DELETE in its entirety and SUBSTITUTE with the following:

Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.

b) Refer to the Sample City Invoice materials in **Exhibit P – Sample City Invoice** and use the format shown.

To the "WHITEBOOK", **ADD** the following:

- 3. The **120 Calendar Day** Plant Establishment Period is included in the stipulated Contract Time and shall begin with the acceptance of installation of the vegetation plan in accordance with Section 801-6, "MAINTENANCE AND PLANT ESTABLISHMENT".
- **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. Environmental Document.

- The City of San Diego has prepared a Notice of Exemption for Rancho Mission Canyon Storm Drain Replacement, Project No. B-20124.02.06, as referenced in the Contract Appendix. You shall comply with all requirements of the Notice of Exemption as set forth in Exhibit K.
- 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 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.
- 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.
- **7-3.2.2 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.
- **7-3.9** Field Orders. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:
 - 1. If the cumulative total of Field Order items of Work does not exceed the "Field Orders" Bid Item, the City shall pay those Field Orders as shown below:

TABLE 7-3.9

FIELD ORDER LIMITS

Contract Price	Maximum Field Order Work Amount
Less than \$100,001	\$2,500
\$100,001 to \$1,000,000	\$5,000
\$1,000,001 to \$5,000,000	\$10,000
\$5,000,001 to \$15,000,000	\$20,000

Contract Price	Maximum Field Order Work Amount
\$15,000,001 to \$30,000,000	\$40,000
Greater than \$30,000,000	\$50,000

- 2. Field Order items of Work for contracts greater than \$15,000,000 will require additional approvals from the City prior to its approval by the Resident Engineer.
- 3. The City will issue a Field Order only after the City's acceptance of the cost of the field order amount.
- 4. Field Orders shall not be used to add scope or to include extensions of time related to changes in work.
- 5. If in the event there is a change related to the critical path on the project which necessitates an extension of time and the change amount is within the Field Order limits shown on Table 7-3.9, then a Field Order can be issued to compensate you for the approved costs. Any extensions of time associated with the change shall be included in a subsequent Change Order and no additional compensation shall be granted as part of the change order for the extension of time.
- **6.** The unused portions of Field Orders Bid item shall revert to the City upon Acceptance.

SECTION 302 – ROADWAY SURFACING

302-4.5 Scheduling, Public Convenience and Traffic Control. To the "GREENBOOK", paragraphs (1) and (2), DELETE in its entirety and SUBSTITUTE with the following:

- 1. In addition to the requirements of Part 6, you shall comply with the following:
 - a) At least 5 Working Days prior to commencing the Work, you shall submit your proposed Schedule to the Engineer for approval.
 - b) Based upon the approved schedule, you shall notify residents and businesses of the Work and post temporary "No Parking" signs 72 hours in advance.
 - c) Requests for changes in the approved Schedule shall be submitted to the Engineer for approval at least 3 Working Days before the street is scheduled to be sealed.

SECTION 402 – UTILITIES

- **402-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:
 - g) Refer to **Exhibit O Advanced Metering Infrastructure (AMI) Device Protection** for more information on the protection of AMI devices.

SECTION 601 - TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK ZONES

- **601-2.1.4 Traffic Control for Resurfacing and Slurry Sealing.** To the "WHITEBOOK", item 3, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:
 - d) Place "NO PARKING TOW-AWAY ZONE" signs 72 hours in advance of the scheduled slurry sealing. Reschedule street block segments which are not completed by the last posted Working Day. If a Work delay of 48 hours or more occurs from the originally scheduled Work date, remove the "NO PARKING TOW-AWAY ZONE" signs for a minimum of 24 hours, then reset and re-post for the appropriate Work date.
- **601-3.5.1 General.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:
 - 3. Temporary "No Parking" and "No Stopping" signs shall be installed 72 hours before enforcement. Temporary "No Parking" and "No Stopping" signs shall be installed and removed as specified in the Special Provisions. Signs shall indicate specific days, dates, and times of restrictions. If violations occur, call Police Dispatch 619-531-2000 to enforce the Tow-Away notice.
- **601-3.6 Channelizing Devices.** To the "WHITEBOOK", item 4, Barricades, ADD the following:
 - You shall place "OPEN TRENCH" signs (C27(CA)) on Type 3 Barricade within the construction Work zone, ahead of any Work areas with open trenches that are greater than 3 inches in depth, in accordance with California MUTCD SECTION 6F.103 (CA). The barricades shall be placed in a continuous manner and shall prevent pedestrian, vehicular, and biker access to the open trench area.

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 K

NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

(Check one or both)

TO:

- <u>X</u> Recorder/County Clerk P.O. Box 1750, MS A-33 1600 Pacific Hwy, Room 260 San Diego, CA 92101-2400
 - Office of Planning and Research 1400 Tenth Street, Room 121 Sacramento, CA 95814

Project No. / WBS No.: B-20124.02.06

FROM: City of San Diego Public Works Department 525 B Street, Suite 750, MS 908A San Diego, CA 92101

Project Name: Rancho Mission Emergency Storm Drain Repair Project

Project Location-Specific: The project is located near 6170 Cabaret St, within the Navajo Community Planning Area (Council District 7).

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

Description of nature and purpose of the Project: An existing 36-inch storm drain pipe located at the western end of Cabaret St, west of Decanture St, has failed. The failure of the pipe has resulted in significant erosion at the end of Cabaret St, and has undermined the adjacent hiking trail and exposed a sewer main. Further erosion could compromise the sewer main, and immediate action is necessary to prevent further erosion and protect property, environment, and public safety. Work will include repair and/or replacement of the damaged storm drain pipe and ancillary structures. Following completion of work, all areas impacted by the emergency will be restored to their pre-impact condition, including restoration of environmentally sensitive habitat impacted by the project.

The project is located within the City's Multi-Habitat Planning Area and Environmentally Sensitive Lands (ESL). The project will comply with all City ESL regulations to avoid and minimize impacts to environmental resource to the greatest extent feasible.

Name of Public Agency Approving Project: City of San Diego

Name of Person or Agency Carrying Out Project:	City of San Diego, Public Works Department
	Contact: Sean Paver
	525 B Street, Suite 750 (MS 908A)
	San Diego, CA 92101
	(619) 533-3629

Exempt Status: (CHECK ONE)

(X) Statutory Exemptions: Emergency Project – Sec. 21080(b)(4); 15269(b)(c)

Reasons why project is exempt: The 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: Carrie Purcell

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

Check One: (X) Signed By Lead Agency () Signed by Applicant

30/20

Date Received for Filing with County Clerk or OPR:

EXHIBIT L

CONTRACTOR'S COMPENSATION RATE SCHEDULE

EXHIBIT L

CONTRACTOR'S COMPENSATION RATE SCHEDULE

The following Compensation Rate Schedule shall constitute the maximum rates (e.g., labor, direct costs, etc.) for Extra Work, if any, provided by the Contractor during the term of this agreement.

These rates are being specified as the Contractor's standard established rates for calculating labor costs without allowance for overhead and profits. For markup provisions and allowable charges refer to 7-3.7, "Agreed Prices".

City of San Diego Emergency Project Rancho Mission Canyon SD

ORION CONSTRUCTION			
Title/Classification	Standard Rate (\$)/hour	Overtime Rate (\$)/hour	Double-time Rate (\$)/Hour
Superintendent	140	187	250
Foreman	115	165	220
Operator Group 8	106	154	206
Group 1 Oiler/Grade Checker	98	141	188
Truck Driver	82	118	158
Laborer/Pipelayer	81	121	162
Carpenter	86	129	172
Mechanic	91	136	182
Apprentice Operator	89	131	171
Apprentice Laborer	43	61	83
Project Manager	175	N/A	N/A
Project Staff Engineer	125	N/A	N/A
Engineering Project Director	220	N/A	N/A
Engineer (PE) QA/QC	190	N/A	N/A
PM/Design Engineer	190	N/A	N/A
Sr. CADD Tech	125	N/A	N/A
CADD Tech	100	N/A	N/A
Admin/Office	85	N/A	N/A
Environmental Engineer/SWPPP Coordinator	175	N/A	N/A

COMPENSATION RATE SCHEDULE

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





Table of Contents

	Labor SurchargeA
	Overtime and Multiple ShiftsC
	DelaysD
	Daily Extra Work BillD
	Attachments1
AIRCP	Air Compressors1
AIRDL	Air Drills, Crawler1
AIRTO	Air Tools1
ASDSP	Asphalt Dike and Shoulder Pavers2
ASPAV	Asphalt Pavers2
ASPWP	Asphalt Windrow/Pickup Machines3
AUGCL	Augers, Crawler Mounted
AUGHZ	Augers, Horizontal
AUGTK	Augers, Truck Mounted3
BITDT	Bituminous Distributors4
BRMSW	Brooms and Sweeping Equipment4
BRUCP	Brush Chipping and Shredding Machines4
COMHG	Compactors, Hand Guided4
CONMX	Concrete Mixers5
CONPM	Concrete Pumps5
CONSF	Concrete Slipform Pavers
CONVB	Concrete Vibrators
CRBEX	Curb Extrusion Machines5
CRBSF	Concrete Barrier Slipform Pavers5
ELGEN	Electric Generators and Light Plants6
ELTOL	Electric Powered Hand Tools6
FKLFT	Fork Lift Trucks6
GRADR	Graders6
HAMMR	Hammers, Demolition and Pile7
HCECL	Hydraulic Cranes and Excavators, Crawler Mounted8

HCESP	Hydraulic Cranes and Excavators, Self Propelled	12
HCETD	Hydraulic Cranes and Excavators, Truck Mounted with Carrier	14
HCETG	Hydraulic Cranes and Excavator Truck MTD less Carrier	15
HYLFT	Hydraulic Personnel Lifts and Aerial Work Platforms	16
LDRCL	Loaders, Crawler	16
LDRRT	Loaders, Rubber Tire	17
LEADS	Leads, Pile Driving	20
NONOP	Non-Operated Equipment (daily rates)	21
PGDIA	Pavement Grinders, Diamond Blade	22
PGT-C	Pavement Grinders, Tungsten-Carbide Bits	22
PUMWA	Pumps, Water	23
ROL-2	Rollers, Tandem Steel Wheels	23
ROLRT	Rollers, Rubber Tire, Self Propelled	24
ROTAM	Roller-Tapping, Segmented, Sheepsfoot, Self Propelled	24
ROTAT	Rollers-Tamping, Segmented, Sheepsfoot Towed	25
ROVIB	Rollers, Vibratory, Self Propelled	25
S&CCL	Shovels and Cranes, Crawler	28
S&CTK	Shovels and Cranes, Truck Mounted	28
SANBL	Sand Blasting Equipment	28
SAWCH	Saws, Chain and Earth Auger Attachment	29
SAWCO	Saws, Concrete and Masonry	29
SCRSP	Scrapers, Self Propelled	29
TRACC	Tractors, Crawler	30
TRACH	Tractors, Heavy	31
TRACS	Tractors, Rubber Tire, Industrial, Farm and Skid Steer	32
TRAFA	Traffic Control and Safety Devices (hourly rates)	32
TRAFC	Traffic Control and Safety Devices (daily rates)	32
TRAIL	Trailers, Equipment, Low Bed	33
TRAIT	Trailers, Equipment, Tilt Bed	33
TRENC	Trenching Machines	33
TRUCK	Truck, Truck Trailers, EXCL Dump Trucks and EQPT Trail	34
TRUOF	Trucks, Off Highway	34
TRUON	Trucks, Dump, On-highway	35
WELD	Welding Equipment	35

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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 (**RT**) and 10 percent for overtime (**OT**).

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.

EXCEPTIONS

Type of Work Performed

Labor Surcharge Percent

	RT	ОТ
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. <u>All rates are hourly, unless stated otherwise.</u>

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 TRAFC 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. <u>Rates are regularly superseded during contract periods, so avoid the use of old publications or expired rates</u>.

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 CDH 30.

8. Cat D-11, Fiat-Allis FD50, Komatsu 475

Model	Code	Rate
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	R 1	\$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	R 7	\$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	S 3	\$6.14
Winch on No. 4 models	S4	\$7.89
Winch on No. 5 models	S 5	\$13.81
Lift gate	TG	\$0.90
Pump, water truck only	ТР	\$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	E	[PORT]	
OVER	TO	Code	Rate
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

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).

CRAWLE	R DRILLS	[CLR]	
OVER	TO	Code	Rate
0	100 (4)	0-4	\$26.98
100 (4)	& Over	5	\$27.62
	AIR TOOLS		[AIRTO]

DELAY FACTOR = 0.61

OVERTIME FACTOR = 0.41

OVERTIME FACTOR = 0.55

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 mft's specifications.

AIR TOOI	_S	[ATOL]	
OVER	ТО	Code	Rate
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 FA	$\mathbf{CTOR} = 0.91$
Includes all attachments, accessories and automatic grade and line control.		
A.C. DIKE COMPANY	[ACDC]	
Model	Code	Rate
No. 1	4050	\$77.43
No. 2	4052	\$61.82
Nos. 43, 44	4054	\$81.40
ASPHALT PAVING COMPANY	[APCO]	
Model	Code	Rate
E-1	4000	\$103.97
E-2, E3	4002	\$186.15
BLAW-KNOX	[B-K]	
Model	Code	Rate
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]	
Model	Code	Rate
DC-1	4095	\$146.09
ASPHALT PAVE	RS	[ASPAV]

DELAY FACTOR = 0.17	0	OVERT	IME	FACT	$\mathbf{OR} = 0.87$

Includes all attachments, accessories and automatic grade and line control.

BARBER-GREENE	[B-G]	
Model	Code	Rate
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
SA 150	1435	\$145.22

SB 170	1440	\$147.95
BLAW-KNOX	[B-K]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
F-525	2680	\$22.99
D-550	2682	\$25.50
H-500B	2684	\$7.20

ASPHALT WINDROW PICKUP MACHINE [ASPWP]

DELAY FACTOR = 0.08 Includes all attachments and accessories.	OVERTIME FA	$\mathbf{CTOR} = 0.94$	
ATHEY	[ATHY]		
Model	Code	Rate	
7-11	5000	\$95.37	
BARBER-GREENE	[B-G]		
Model	Code	Rate	
BG-610H	5100	\$66.36	
CATERPILLAR	[CAT]		
Model	Code	Rate	
WE-601B	5200	\$74.12	
CLARK'S WELDING COMPANY	[CLAR]		
Model	Code	Rate	
500	5300	\$56.42	
601	5304	\$52.03	
Lincoln 660	5305	\$100.19	
C.M.I.	[CMI]		
Model	Code	Rate	
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]	
Model	Code	Rate
8400 TD limited access	1500	\$118.69
TEXOMA	[TXMA]	
Model	Code	Rate
TAURUS	2010	\$244.79
700CL	2100	\$139.11
WATSON	[WATS]	
Model	Code	Rate
2000CM	2500	\$107.59
2500CM	2505	\$165.86
3000CM	2510	\$188.16
3100CM	2515	\$195.27

AUGERS, HORIZONTAL

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

AUGERS, TRUCK MOUNTED

[AUGTK]

OVERTIME FACTOR = 0.80

DELAY FACTOR = 0.22

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]	
Model	Code	Rate
LDH-80	5000	\$181.49
LDH-100	5005	\$152.51
LLDH-80	5010	\$193.60
LLDH-120	5015	\$206.66
CALWELD	[CALW]	
Model	Code	Rate
150-A	5050	\$99.40
200	5052	\$118.33
4500LH	5054	\$197.07
HUGHES	[HUGH]	
Model	Code	Rate
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

3

P.D.E.	[PDE]	
Model	Code	Rate
M -100	5084	\$45.95
M-400 with hammer	5085	\$35.28
TEXOMA	[TXMA]	
Model	Code	Rate
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]	
Model	Code	Rate
1000	6010	\$86.16
2000	6012	\$154.30
3000	6014	\$182.41
BITUMINOUS DISTRIBU	JTORS	[BITDT]

4.6 (6.0)

6.9 (9.0)

the weight in kilograms(pounds)

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).

OVER	TO	Code	Rate
0	1136 (300)	0-300	\$7.20
TRUCK M	IOUNTED	[TRMD]	
Including tr	uck. Capacity rated in lite	rs (U.S. gallons).	
OVER	TO	Code	Rate
0	3028 (800)	00-08	\$72.88
3028 (80	00) 5299 (1400)	08-14	\$90.84
5299 (140	00) 6831 (1800)	14-18	\$93.07
6831 (180	00) 11355 (3000)	18-30	\$95.00
11355 (300	00) 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, PTO or engine driven. Model Code Rate ALL ALL \$30.36 **BROOMS - SELF PROPELLED** [SFPR] Code Model Rate ALL ALL \$44.40 **SWEEPERS - SELF PROPELLED,** [SWSP] PICK UP Rated in accordance with hopper size in cubic meters (cubic yards). OVER TO Code Rate 0 2.3 (3.0) 0-3 \$102.55 2.3 (3.0) 4.6 (6.0) \$136.59 3-6

BRUSH CHIPPING & SHREDDING [BRUCP] MACHINES

6-9

\$159.53

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 C	HIP & SHRED	[BCSM]	
OVER	TO	Code	Rate
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

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

CONCRETE MIXERS

OVERTIME FACTOR = 0.89

[CONMX]

STATIONARY OR PORTABLE [SORP]

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

OVER	ТО	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]	

PTO 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



DELAY FACTOR = 0.17

OVERTIME FACTOR = 0.85

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

ELBA	[ELBA]	
Model	Code	Rate
K-8020	1000	\$96.35
МАҮСО	[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	1072	\$21.18
11 pump w/28 m boom	1078	\$117.50
12 pump w/32 m boom	1082	\$124.81
14 pump w/36 m boom	1084	\$170.18

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 OVERTIM

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

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).

DELAY FACTOR = 0.23

CURB EX	XTRUSION	MACHINE	[CEM]	
OVER		TO	Code	Rate
0	460 (18)		0-18	\$33.59
460 (18)	& Over		18 PLUS	\$97.07

CONCRETE BARRIER SLIPFORM	[CRBSF]
PAVERS	[]

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]	
Model	Code	Rate
CMT-800	3020	\$74.66

GOMACO)	[GOMA]	
Model		Code	Rate
GT-6000-(7	78&90)	3040	\$83.73
COMMAN	DER II	3045	\$95.49
COMMAN	DER III	3050	\$132.09
MILLER I	FORMLESS	[MILL]	
Model		Code	Rate
M-7500		3063	\$98.16
M-8100		3065	\$138.19
M-8800		3067	\$173.81
ELEC	TRIC GENERATO	ORS & LIGHT	[ELGEN]
	PLANTS		[
DELAY FA	PLANTS ACTOR = 0.13	OVERTIME FA	
	ACTOR = 0.13	OVERTIME FA	CTOR = 0.88
	ACTOR = 0.13 gas or diesel power and a		CTOR = 0.88
Rates are for GENERAT Rated in ac	ACTOR = 0.13 gas or diesel power and a	alternating or direct current [GEN]	CTOR = 0.88
Rates are for GENERA	ACTOR = 0.13 gas or diesel power and a	alternating or direct current [GEN]	CTOR = 0.88
Rates are for GENERAT Rated in ac	ACTOR = 0.13 gas or diesel power and a FOR cordance with Mfr's ou	alternating or direct current [GEN] atput in kilowatts.	CTOR = 0.88 nt.
Rates are for GENERAT Rated in ac OVER	ACTOR = 0.13 gas or diesel power and a FOR cordance with Mfr's ou TO	Iternating or direct current [GEN] Iternational displayed by the displa	CTOR = 0.88 nt. <u>Rate</u>
Rates are for GENERAT Rated in ac OVER 0	ACTOR = 0.13 gas or diesel power and a FOR cordance with Mfr's ou TO 1	Iternating or direct current [GEN] Itput in kilowatts. <u>Code</u> 000-001	CTOR = 0.88 nt. <u>Rate</u> \$0.87
Rates are for GENERAT Rated in ac OVER 0 1 3 7.5	ACTOR = 0.13 r gas or diesel power and a ror ror ror TO 1 3 7.5 15	Iternating or direct current [GEN] Itput in kilowatts. <u>Code</u> 000-001 001-003	CTOR = 0.88 nt. Rate \$0.87 \$2.02
Rates are for GENERAT Rated in ac OVER 0 1 3	ACTOR = 0.13 r gas or diesel power and a FOR cordance with Mfr's ou TO 1 3 7.5	Iternating or direct current [GEN] Iternational distribution of the second s	CTOR = 0.88 nt. <u>Rate</u> \$0.87 \$2.02 \$4.17

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 trai	ler, pole and generator.		
Model		Code	Rate
2 Light Set		2 LIGHT	\$4.25
4 Light Set		4 LIGHT	\$8.66

ELECTRIC POWERED HAND TOOLS [ELTOL]

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]	
OVER		TO	Code	Rate
450	600		045-060	\$0.32
600	800		060-080	\$0.43
800	1000		080-100	\$0.54

FORK LIFT TRUCKS

[FKLFT]

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	T TRUCKS	[FLT]	
OVER	TO	Code	Rate
454 (100	00) 1814 (4000)	010-040	\$29.85
1814 (400	00) 2722 (6000)	040-060	\$39.74
2722 (600	00) 3629 (8000)	060-080	\$44.83
3629 (800	00) 5443 (12000)	080-120	\$61.98
5443 (1200	00) 7258 (16000)	120-160	\$65.33
7258 (1600	00) 9072 (20000)	160-200	\$76.60
9072 (2000	00) 11340 (25000)	200-250	\$75.95
11340 (2500	00) 13608 (30000)	250-300	\$83.71
13608 (3000	00) 18144 (40000)	300-400	\$106.92
18144 (4000	00) 22680 (50000)	400-500	\$128.62
22680 (5000	00) 34020 (75000)	500-750	\$175.66
	GRADERS		[GRADR]

GRADERS

OVERTIME FACTOR = 0.90

DELAY FACTOR = 0.12Includes ripper and scarifier attachments and all accessories. Electronic blade control and specialty cutting tools shall be paid separately.

BLADE-MOR	[BMOR]	
Model	Code	Rate
727	2173	\$26.28
747	2178	\$37.89
CATERPILLAR	[CAT]	
Model	Code	Rate
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
16H	3380	\$176.80

160H	3385	\$109.54	ALLIED STEEL & TRACTOR	[AS&T]	
163H	3390	\$115.19			Data
JOHN DEERE	[DEER]		Model 800	<u>Code</u> 0300	<u>Rate</u> \$57.49
Model	Code	Rate	HYRAM 720	0300	\$57.49 \$6.38
JD-570A	<u>3890</u>	<u>1446.</u> \$46.87	HYRAM 725	0310	\$0.38 \$12.24
JD-570B	3890	\$54.40	HYRAM 730	0320	\$14.72
JD-670	3872 3900	\$60.93	HYRAM 740	0340	\$21.03
JD-670A	3905	\$66.98	HYRAM 750	0350	\$23.20
JD-670CH	3903 3907	\$86.98	HYRAM 77	0360	\$9.53
JD-770	3910	\$69.26	HYRAM 770	0370	\$23.13
JD-770A, 770A-H	3915	\$81.16	HYRAM 780	0380	\$38.03
JD-770B	3916	\$88.46	HYRAM 790	0390	\$49.26
JD-772CH	3930	\$105.78	HYRAM 88	0400	\$16.01
GALION	[GALN]		DELMAG	[DELM]	
Model	Code	Rate	Model	Code	Rate
 A-400E	4940	\$65.60	D-12	0500	\$24.77
T-400A	4980	\$62.96	D-16	0510	\$36.55
T-500C	5150	\$73.00	D-22	0520	\$58.11
T-500L	5204	\$72.50	D-30	0530	\$42.98
T-500M	5210	\$75.05	D-30-32	0540	\$63.20
KOMATSU	[KOMA]		D-36-32	0560	\$82.21
		Data	D46-32	0570	\$97.26
Model	Code	Rate	D62-22	0580	\$158.51
GD 505A-2	8980	\$68.55 \$71.12	D100-13	0590	\$250.83
GD 515A-1 GD 605A-2	8986 9000	\$71.12 \$75.67	FOSTER	[FOST]	
GD 615A-1	9000	\$82.45	Model	Code	Rate
GD 625A-1C	9003	\$106.40	1700	<u>0600</u>	\$138.90
GD 655A-2	9010	\$84.10	4030	0630	\$194.80
	,010	<i>\$</i> 0.110	FNV-1800	0660	\$115.97
HAMMERS, DEMOLIT	ION & PILE	[HAMMR]	FNV-4150	0693	\$249.54
DELAY FACTOR = 0.23	OVERTIME FA	$\mathbf{CTOR} = 0.80$	HYDRAULIC POWER SYS	[HPSI]	
Includes attachments, accessories and p	ower unit. Does not in	clude carrier.	Model	Code	Rate
ABI	[ABI]		150	0420	\$97.90
Model	Code	Rate	260	0430	\$155.01
HVR-60	0100	\$38.36	300	0440	\$186.10
AMERICAN PILE DRIVING	[APE]		I.C.E.	[ICE]	
EQUIPMENT			Model	Code	Rate
Model	Code	Rate	44-50	0450	\$234.81
150	0010	\$163.97	216	0460	\$84.37
180	0050	\$225.85	416L	0470	\$140.26
200/500	0060	\$251.89	812	0480	\$220.45
300 VIBRO	0075	\$280.18	KENT	[KENT]	
400B VIBRO	0085	\$449.51	Model	Code	Rate
			KHB10G	0700	\$19.88
			KHB 15G	0710	\$30.73
			KHB 30G	0750	\$31.48
			KHB 40G	0760	\$54.36

NPK	[NPK]	
Model	Code	Rate
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
OKADA	[OKAD]	
Model	Code	Rate
UB-5	0900	\$8.17
UB-8	0950	\$16.09
RAMMER	[RAMR]	
Model	Code	Rate
S-84	1000	\$32.81
S-86	1050	\$35.48
STANLEY	[STAN]	
Model	Code	Rate
 MB250	1100	\$6.47
MB2900	1120	\$24.78
MB4900	1140	\$43.99
MB550	1160	\$10.21
MB800	1180	\$15.10
TELEDYNE	[TELD]	
Model	Code	Rate
950X	1190	\$35.99
TB1025	1195	\$39.64
TB1425X	1200	\$36.12
TB2225X	1220	\$67.47
TB425	1240	\$14.70
TB825X	1260	\$25.27
TRAMAC	[TRMC]	
Model	Code	Rate
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

TUNKER	[TUNK]	
Model	Code	Rate
40.01	1400	\$174.89
40.05	1450	\$174.89
60.05	1460	\$154.09
VULCAN	[VULC]	
Model	Code	Rate
1	1500	\$27.15
010	1520	\$39.25
100C	1540	\$41.43
2300	1560	\$149.88
80C	1580	\$31.97
HYDRAULIC CRANES	& EXCAVATORS	
CRAWLER MO		[HCECL]
DELAY FACTOR = 0.18	OVERTIME FA	CTOR = 0.84
Includes all attachments and access Pavement breaker or compactor atta		digging.
BANTAM	[BANT]	
Model	Code	Rate
C 266	0680	\$85.87
C 366	0690	\$99.36
C 744	1075	\$64.78
CASE	[CASE]	
Model	Code	Rate
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
CATERPILLAR	[CAT]	
Model	Code	Rate
304 CR	0200	\$31.61
305C CR	0250	\$42.83
308E2 CR SB	0270	\$48.77
312	0300	\$51.16
312C	0300C	\$62.05
312CL	0300CL	\$62.24

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	Model	Code	Rate
322L	0325	\$101.53	225D LC	<u>1575D</u>	\$109.51
325	0330	\$107.45	330C LC	1575D 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 225	1619G	\$79.43	992D LC	1722	\$166.99
225 225LC	1620	\$82.70	30	1725	\$20.46
225D LC	1621	\$83.22 \$104.29	50	1730	\$32.67
223D EC 227	1622 1623	\$104.29 \$86.20	70	1735	\$29.96
229	1625	\$112.12	200LC	1745	\$92.93
231D	1625	\$112.12 \$127.94	DROTT	[DROT]	
231DLC	1635	\$129.48	Model	Code	Rate
235	1655	\$131.74	35D E boom	1835	\$59.65
235B	1642	\$146.51	35D Y boom	1835	\$60.06
235 Front Shovel	1645	\$141.30	40D E boom	1930	\$75.28
235B Front Shovel	1647	\$157.33	40D Y boom	1965	\$80.29
235C	1648	\$166.90	50D	2005	\$97.43
235DLC	1649	\$172.62	ETAT ALLE		
245	1650	\$221.83	FIAT-ALLIS	[F-A]	D.
245B	1650B	\$244.58	Model	Code	Rate
245 Front Shovel	1652	\$233.34	FE 18	9000	\$53.55
245B Front Shovel	1652B	\$259.66	FE 20 HD	9010	\$67.56
E 180	1653	\$69.61	FE 20 LC	9020	\$63.79
EL 180	1654	\$70.72	FE 28	9030	\$89.81 \$152.76
EL 200B	1654E	\$75.40	FE 40 L	9040	\$153.76
E 240	1655	\$89.43			
EL 240	1656	\$90.87			

GRADALL	[GRAD]		KOBELCO	[KOBL]	
Model	Code	Rate	Model	Code	Rate
G 660	0150	\$72.47	SK200LC MARK III	4687	\$81.76
G 660B	0160	\$92.37	K 903B	4688	\$38.24
G 660C	0170	\$93.10	K 904D	4693	\$41.48
G 880B	0210	\$99.05	K 904E	4694	\$43.65
G 880C	0215	\$94.76	K 904 Mark II	4694A	\$43.44
G 1000	0230	\$155.87	К 905	4695	\$46.86
XL4200	0260	\$98.48	K 905A LC	4697	\$50.51
XL5200	0280	\$119.77	K 907C	4700	\$67.62
НІТАСНІ	[HIT]		K 907D	4702	\$72.73
Model	Code	Rate	K 907 LC	4704	\$73.46
UH 07LC	<u>2630</u>	\$70.07	K 909A	4710	\$94.18
UH 062	2650 2660	\$76.56	K 909 LC	4711	\$96.66
UH 172	2600 2695	\$137.54	K 912A	4712	\$111.59
UH 122	2095 2750	\$91.87	K 914	4715	\$133.20
EX 150		\$64.16	K 916	4717	\$149.26
EX 150 EX 200 LC	2797	\$04.10 \$78.21	SK270LC MARK IV	4720	\$116.11
EX 200 LC EX 270 LC	2800		SK400LC MARK IV	4725	\$205.06
EX 270 LC EX 300LC-2	2806	\$114.81 \$125.60	KOEHRING	[KOEH]	
EX 300LC-2 EX 300LC-3	2807 2807A	\$135.69 \$139.10	Model	Code	Rate
EX 330LC-5	2807A 2807B	\$159.10 \$160.66	366 post 1980	4752	\$116.30
EX 350EC-5 EX 370-5	2807B 2807F	\$160.00	466E	4990	\$134.00
EX 400 LC	2808	\$179.70	566	5160	\$145.29
EX 400 EC EX 450LC-5	2808 2808K	\$220.93	666, 666E	5225	\$183.96
EX 550LC	2809K	\$261.07	866, 866E	5235	\$215.13
EX 556LC EX 700	2809	\$312.33	6611	6000	\$43.45
EX 750-5	2810	\$351.55	6614	6005	\$53.33
EX 1100	2813	\$406.73	6612	6010	\$51.87
		φ+00.75	6620	6015	\$74.14
HYUNDAI	[HYUN]		6625	6020	\$90.21
Model	Code	Rate	6633	6029	\$128.35
200LC	2950	\$78.13	6644	6040	\$170.26
210LC-3	2952C	\$95.91			·
280LC	2960	\$115.84	KOMATSU	[KOMA]	
290LC	2970	\$120.51	RATE INCLUDES THUMB.	Coda	Pata
450LC	3010	\$180.58	<u>Model</u> KOMATSU	<u>Code</u>	<u>Rate</u> \$168.42
INTERNATIONAL	[INTL]			300LC7T	
Model	Code	Rate	PC 120-5 PC 150-1	9485 9490	\$55.45 \$49.92
630	4250	\$55.54	PC 150-1 PC 150-3		
640 HD	4260	\$72.96		9495	\$61.39 \$62.35
650 HD	4280	\$82.11	PC 200 LC-2 PC 200-5	9500 9504	\$62.35 \$80.78
			PC 200-5 PC 200 LC-3	9504 9505	\$80.78 \$75.08
КАТО	[KATO]		PC 200 LC-5	9505 9506	\$75.08 \$81.90
Model	Code	Rate	PC 220 LC-2	9500 9510	\$81.90 \$80.44
HD450 VII	3050	\$52.73	PC 220 LC-3	9510 9515	\$93.14
HD700 VII LC	3060	\$76.26	PC 220 LC-5	9515 9516	\$100.51
HD1250 VII LC	3080	\$128.45	PC 220 LC-6	9516 9516F	\$100.51 \$108.77
			PC 220 LC-7	9516G	\$117.23
				75100	ψ11/.23

PC 280 LC-3	9517	\$105.27	MASSEY FERGUSON	[M-F]	
PC 300 LC-1, LC-2	9520	\$103.91	Model	Code	Rate
PC 300 LC-3	9525	\$123.66	MF 450D	<u>6245</u>	\$44.48
PC 300 LC-5	9526	\$140.12	MF 450S	6250	\$47.81
PC 300 LC-6	9526A	\$152.41			¢17.01
PC 360 LC-3	9527	\$140.91	MITSUBISHI	[MITS]	
PC 400 LC-1	9530	\$140.86	Model	Code	Rate
PC 400 LC-3	9535	\$165.06	MS 090	6290	\$31.60
PC 400 LC-5	9536	\$184.44	MS 180-3	6295	\$60.38
PC 400 LC-6	9537	\$207.97	MS 180 LC-8	6296	\$68.30
PC 600 LC-6	9539	\$288.51	MS 230 LC-3	6300	\$78.72
PC 650-1	9540	\$257.55	MS 240 LC-8	6305	\$85.12
PC 650-1 Front Shovel	9550	\$272.00	MS 280-2	6310	\$96.42
PC 650-3	9552	\$272.95	MS 380-2	6320	\$135.15
PC 750-6	9555	\$347.81	MS 450-8	6330	\$156.04
PC 1000-1	9560	\$414.30	NORTHWEST	[NW]	
PC 1000 LC-1	9565	\$426.59	Model	Code	Rate
PC 1100 LC-6	9575LC	\$477.86	35 DH	6335	\$122.23
LINK-BELT	[L-B]		45 DH	6340	\$133.35
Model	Code	Rate	55 DH	6345	\$141.09
LS 1600	5390	\$33.00	55 DH Series II	6360	\$241.62
LS 2650	5395	\$45.99	Р&Н	[P&H]	
LS 2700C II	5398	\$62.20			Data
2700 QUANTUM	5399	\$68.52	Model	Code	Rate
LS 2800	5400	\$54.06	H 750	6628	\$58.26
LS 2800A	5402	\$62.23	H 1250	6630	\$98.05
LS 2800A PL	5404	\$54.00	H 1750	6635	\$121.61
LS 2800 PL	5405	\$51.22	H 2500	6645	\$156.00
LS 2800B	5410	\$68.21	HS 2500	6650	\$160.71
LS 3400	5475	\$90.32	TAKEUCHI	[TAKU]	
LS 3400C II	5477	\$96.08	Model	Code	Rate
LS 4300	5660	\$113.95	TB 15	7686	\$13.45
LS 4300C II	5662	\$125.46	TB 025	7686A	\$22.73
LS 4800	5750	\$131.13	TB 045	7686E	\$37.62
LS 4800 PL	5755	\$117.90	TB 070	7686H	\$38.49
LS 5400	5805	\$152.47	TB 10S	7688	\$10.74
LS 5800	5810	\$158.60	TB 35S	7690	\$21.34
LS 5800A	5812	\$167.29	TB 68S	7692	\$30.87
LS 5800C II	5814	\$174.94	TB 800	7695	\$15.03
LS 6400	5820	\$234.71			
LS 7400	5830	\$233.72			
LS 7400A	5840	\$284.50			

11

HYDRAULIC CRANES &		[HCESP]	GRADALL	[GRAD]	
SELF PROPE			Model	Code	Rate
DELAY FACTOR = 0.14	OVERTIME FAC		G 3WD, 4x4	0110	\$91.24
Includes all attachments and accessor Pavement breaker or compactor attac		gging.	GROVE	[GROV]	
BUCYRUS-ERIE	[B-E]		Model	Code	Rate
Model	Code	Rate	24	3820	\$34.62
300C/SP	<u>1670</u>	\$70.47	36	3830	\$56.67
320C	1672	\$70.65	68	3850	\$65.37
360C	1678	\$70.99	1012	3870	\$78.25
BADGER	[BAGR]		2535	3880	\$103.02
		Data	RT-48	4030	\$59.82
Model	Code	Rate	RT-49	4115	\$60.10 \$61.33
4425/30	1565	\$94.92	RT-58 RT-418	4285	
4435 4435B	1570 1573	\$105.23 \$106.51	RT-418 RT-420	4354 4356	\$75.28 \$75.28
4435B 4435C	1573 1573C	\$106.51 \$115.70	RT-420 RT-422	4350 4358	\$75.28 \$75.28
44350	15730	\$113.70 \$144.99	RT-500D	4358	\$103.92
4450	1575	\$111.91	RT-525	4360	\$70.53
4450B	1575	\$118.45	RT-525B	4362	\$73.40
4455	1579	\$145.71	RT-525C	4363	\$90.30
		φ1 lot/1	RT-527.5	4365	\$71.37
CASE	[CASE]	-	RT-528B	4370	\$73.40
Model	Code	Rate	RT-528C	4372	\$90.79
40E E-Boom, Cruz Air	1685	\$60.61	RT-60	4520	\$71.39
40E Y-Boom, Cruz Air	1687	\$60.83	RT-60S	4540	\$73.31
40F E-Boom, Cruz Air	1687H	\$62.85	RT-515	4606	\$70.37
40F Y-Boom, Cruz Air	1687K	\$63.67	RT-518	4607	\$72.29
45 E-Boom, Cruz Air	1688	\$78.48	RT-520	4608	\$73.80
45 Y-Boom, Cruz Air 45B E-Boom, Cruz Air	1689	\$83.21 \$82.04	RT-522	4609	\$73.05
45B Y-Boom, Cruz Air	1689H	\$82.94 \$83.68	RT-522C	4609G	\$88.53
880R E-Boom	1689K 1690		RT-625	4630	\$79.57
880R Y-Boom	1695	\$54.61 \$54.74	RT-630	4635	\$79.57
1085 E-Boom, Cruz Air	1695 1696E	\$54.74 \$62.71	RT-630B	4637	\$85.12
1085 Y-Boom, Cruz Air	1696E	\$63.01	RT-635	4640	\$90.57
1085B Y-Boom, Cruz Air	1696Z	\$70.56	RT-65 S	4700	\$95.61
1285 E-Boom, Cruz Air	1690Z 1697E	\$79.26	RT-740	4710	\$106.67
1285 Y-Boom, Cruz Air	1697E	\$79.41	RT-745	4715	\$134.99
3330 Low Profile	1698E	\$32.37	RT-75 S	4720	\$101.57
3330B	1698H	\$32.62	RT-755	4725	\$114.76
CATERPILLAR			RT-760	4727	\$165.13
	[CAT]	Data	RT-865	4730	\$141.65 \$102.52
Model	Code	Rate	RT-865B	4732	\$193.52
206	1699	\$43.61 \$55.95	RT-875	4735	\$174.42 \$160.12
212	1699E	\$55.85 \$60.24	RT-980 RT-990	4750	\$169.12 \$105.23
214	1699H	\$60.34 \$74.28	RT-990 RT-9100	4760 4790	\$195.23 \$249.08
224	1699J	\$74.28	K1-9100	4790	\$249.08

KOMATSU	[KOMA]		Р&Н	[P&H]	
Model	Code	Rate	Model	Code	Rate
PW 210-1	9580	\$100.25	OMEGA 14	5790	\$65.41
LINK-BELT	[L-B]		OMEGA 15	5792	\$65.41
		Data	OMEGA 18	5794	\$65.84
Model	Code	Rate	OMEGA 25	5795	\$87.83
HSP 15	5500	\$68.42	OMEGA 20	5796	\$66.52
HSP 18	5505	\$68.42	OMEGA 23	5796E	\$69.27
HSP 20	5510	\$74.40 \$75.80	OMEGA 30	5796J	\$90.26
HSP 22 HSP 25	5530	\$75.80	OMEGA 35	5796P	\$91.22
	5535	\$80.62	OMEGA 40	5797	\$122.87
HSP 8015 HSP 8018	5538	\$79.05 \$70.05	OMEGA 45	5797E	\$124.59
	5538E	\$79.05 \$06.22	OMEGA 50	5797J	\$125.97
HSP 8018XL HSP 8018C	5538G 5538H	\$96.22 \$72.06	OMEGA 60	5798	\$129.96
HSP 8025		\$72.00 \$82.64	OMEGA 65	5799	\$152.87
HSP 8025 S	5538P	\$82.04 \$83.67	OMEGA 114	5799C	\$74.36
HSP 8030	5538PF	\$83.07 \$94.69	OMEGA 114D	5799G	\$72.41
HSP 8035	5538Q 5538R	\$94.09 \$137.78	OMEGA 118	5799Q	\$75.87
HSP 8040	5538S	\$137.78 \$137.92	OMEGA 118D	57998	\$72.55
HSP 8050	55385 5538T	\$137.92 \$140.06	OMEGA 120	5799U	\$77.51
HSP 8055	5538V	\$140.00 \$126.18	OMEGA 120D	5799W	\$73.26
HSP 8060	5539	\$120.18 \$153.67	OMEGA 122	5799X	\$78.50
		ψ155.07	OMEGA 122D	5799Y	\$73.84
LORAIN	[LORN]		OMEGA 125	5799Z	\$78.88
Model	Code	Rate	OMEGA 128	5799ZA	\$77.37
LRT 15H	5730	\$69.83	R 150	5890	\$55.84
LRT 15U	5735	\$71.09	R 150-1	5910	\$55.35
LRT 18U	5740	\$71.56	R 180	5975	\$56.17
LRT 35U	5745	\$104.34	R 200	6060	\$56.49
LRT 40U	5750	\$105.13	OMEGA S-15	6062	\$90.54
LRT 150	5755	\$69.11	OMEGA S-18	6063	\$90.54
LRT 150D	5756	\$84.46	OMEGA S-20	6064	\$93.11
LRT 180	5760	\$69.08	S-35	6064E	\$127.77
LRT 180D	5760D	\$84.46	PETTIBONE	[PET]	
LRT 200	5765	\$68.89	Model	Code	Rate
LRT 200D	5765D	\$84.63	16 MK P Series	6500	\$60.85
LRT 220	5767	\$71.34	20 MK P Series	6580	\$61.48
LRT 230	5768	\$75.73	25	6740	\$57.58
LRT 230D	5768D	\$84.65	25 MK P Series	6750	\$62.26
LRT 250	5769	\$75.76	29 MK P Series	6880	\$63.30
LRT 250D	5769D	\$84.65	30	6900	\$57.58
LRT 275	5770	\$75.76	30 MK P Series	6903	\$64.29
LRT 275D	5770D	\$84.65	30 SC, 30 SC P Series	6910	\$89.54
LRT 330	5772	\$97.66	60 SC	6990	\$95.63
LRT 400	5773	\$111.93	60 SC P Series	6995	\$102.09
LRT 450	5774	\$115.08	70	7100	\$101.28
LRT 500	5775	\$118.11	70 SC	7165	\$101.57
LRT 550	5790	\$123.38	70 SC P Series	7170	\$107.61
			80 MK P Series	7250	\$100.09

80 SC P Series	7260	\$101.49	GROVE	[GROV]	
R.O. PRODUCTS	[ROP]		Model	Code	Rate
Model	Code	Rate	TD 520	2221	\$106.01
MC 5A	8005	\$36.68	TD 522	2223	\$106.01
MC 50B	8175	\$58.29	TD 525	2224	\$106.91
MC 50C	8260	\$59.62	TMS 250	2850	\$99.58
HYDRAULIC CRANES &	EXCAVATORS.	LUCETD 1	TMS 250A	2860	\$100.06
TRUCK MTD. W/		[HCETD]	TMS 250B	2870	\$100.06
DELAY FACTOR = 0.13	OVERTIME FA	CTOR = 0.89	TMS 250C	2875	\$137.67
Includes truck/carrier. Includes all at			TMS 300	2922	\$119.01
lifting or digging. Pavement breaker included.	or compactor attachments	are not	TMS 300B	2923	\$136.36
			TMS 760	3180	\$208.87
BUCYRUS-ERIE	[B-E]		TMS 865	3378	\$156.38
Model	Code	Rate	TM 875	3380	\$180.82
25 XC	1360	\$85.38	TMS 875	3385	\$181.69
30 XC	1370	\$86.02	TM 890	3387	\$197.42
40 C	1475	\$77.44	TM 1075	3390	\$163.61
60 XC	1590	\$138.42	HIAB	[HIAB]	
65 C	1592	\$119.55	Model	Code	Rate
90 XC	1600	\$149.84	100 AW	3850	\$46.63
BADGER	[BAGR]		1165	3852	\$43.66
Model	Code	Rate	170 thru 174	3854	\$42.17
300 Hydro-Scopic	0550	\$58.71	175 thru 177	3855	\$42.32
460 Hydro-Scopic	0555	\$71.93	550, 5501	3857	\$45.01
666 Hydro-Scopic	0560	\$106.34	650	3859	\$45.92
888 Hydro-Scopic	0600	\$111.99	KOEHRING	[KOEH]	
BANTAM	[BANT]		Model	Code	Rate
Model	Code	Rate	4460 Teleskoop	4400	\$69.66
T 744 Teleskoop	1285	\$69.06	4465 Teleskoop	4405	\$70.87
T 888	1310	\$100.40	4470 Teleskoop	4410	\$82.39
T 888B	1315	\$117.10	4475 Teleskoop	4415	\$83.58
DEVAULT	[DVUT]		LINK-BELT	[L-B]	
Model	Code	Rate	Model	Code	Rate
TK 15-10	1900	\$51.35	HTC 14	4505	\$97.16
GRADALL			HTC 25	4507	\$97.16
	[GRAD]	Data	HTC 35	4509	\$106.95
Model	Code	Rate	HTC 50	4510	\$141.74
G 3W	0120	\$71.74	HTC 50W	4520	\$136.33
G 660	0170	\$69.60	HTC 814	4530	\$127.44
G 660B G 660C	0180	\$90.55 \$87.78	HTC 814XL	4531	\$132.42
G 800	0190 0210	\$87.78 \$60.67	HTC 822 S	4532	\$119.12
G 880B	0210	\$00.07 \$98.84	HTC 825	4535	\$111.38
G 880C	0220	\$95.58	HTC 825 S	4536	\$120.18
G 1000	0240	\$105.25	HTC 830	4537	\$129.37
		÷100.20	HTC 835	4539	\$136.32
			HTC 835XL	4539C	\$154.10 \$157.55
			НТС 840 НТС 850	4539E	\$157.55 \$162.65
			ПIС 030	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]		PITMAN	[PIT]	
Model	Code	Rate	Model	Code	Rate
MCH 140	4942	\$113.73	Hydralift HL 40 thru 95	6670	\$42.56
MCH 150	4946	\$106.47	Hydralift HL 100 thru 170	6675	\$45.81
MCH 180	4947	\$106.47	HL 857	6685	\$50.78
MCH 300	4953	\$124.34	HL 1200, 1545-T2 or 1580	6695	\$53.13
MCH 350	4955	\$99.47	POLECAT	6697	\$53.92
MCH 400	4957	\$135.90	PELICAN	6699	\$56.78
MCH 500	4960	\$108.62	R.O. PRODUCTS	[ROP]	·
MANITEX	[MANX]		Model	Code	Rate
Model	Code	Rate	TC-40	6860	\$43.52
1161	4980	\$49.80	TC-50	6862	\$45.09
1770	4985	\$82.15	TC-70	6864	\$46.46
2284	4990	\$84.90	TC-80	6866	\$46.53
2592	4995	\$86.82	TC-85	6868	\$46.05
NATIONAL	[NATL]		TC-110	6870	\$50.08
		Data	TC-120	6872	\$50.67
<u>Model</u>	Code	Rate	TC-125	6874	\$50.33
Ser 4/400, 11.3 m (37') boom	4983	\$46.46	TC-145	6876	\$53.27
Ser 4/400, 14.0 m (46') boom	4984	\$46.66	TC-150	6878	\$51.65
Ser 4/400, 16.8 m (55') boom	4985	\$46.83	HYDRAULIC CRANES &	FYCAVATORS	
Ser 5/500A/B, 14.3 m (47') boom	4986	\$51.65 \$52.25	TRUCK MTD. LESS		[HCETG]
Ser 5/500A/B, 17.1 m (56') boom	4987	\$52.25			
Ser 6/600, 14.3 m (47') boom	4989	\$51.19	DELAY FACTOR = 0.10 Includes all lifting and digging attach	OVERTIME FAC	
Ser 6/600, 17.1 m (56') boom	4990	\$51.55	be paid separately. Pavement breaker		
856	4995	\$52.05	included.		
856B	4996	\$51.22	BUCYRUS-ERIE	[B-E]	
875 875 D	4997	\$52.79 \$54.21	Model	Code	Rate
875B Series 85	4998 4999	\$54.21 \$48.00	H-3 series two	1000	\$42.09
Selles 85	4999	\$48.00	H-5 series two	1300	\$49.64
Р&Н	[P&H]		GALION	[GALN]	
Model	Code	Rate	Model	Code	Rate
ALPHA 100 ton	5000	\$262.65	125 P	<u>1970</u>	\$51.08
CN T-280	5005	\$141.96	120 P	1970	\$61.68
T-150	5290	\$104.13			ψ01.00
T-180	5380	\$104.57	GROVE	[GROV]	
T-200	5470	\$105.09	Model	Code	Rate
T-250	5560	\$122.46	TM 100C	2020	\$73.00
CN T-250	5561	\$144.31	TM 200C	2040	\$58.87
OMEGA T-250	5570	\$116.31			
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(PTO) units whether gas, diesel or electric. Rates for any truck or carrier mounted units shall pay for the truck separately. Reach is rated by Mfr's maximum extension in meters(feet).

BOOM TY	YPE		[BOOM]	
OVER		TO	Code	Rate
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	ТҮРЕ		[SCIS]	
OVER		TO	Code	Rate
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
	LOADE	RS, CR	AWLER	[LDRCL]

LOADERS, CRAWLER

OVERTIME FACTOR = 0.90 DELAY FACTOR = 0.12

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

CASE	[CASE]	
Model	Code	Rate
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	[CAT]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]

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]	
Model	Code	Rate
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]	
Model	Code	Rate
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
570L XT 4WD	1690	\$39.90

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]	
Model	Code	Rate
416 w/ backhoe	<u>1860</u>	\$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
430E	1865E	\$59.23 \$62.66
436 w/ backhoe	1866	\$02.00 \$46.48
150 W/ Buckhoe	1000	φ +0.40

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	Model	Code	Rate
930G	2088G	\$96.60	35C	<u>2484</u>	\$50.14
936	2100	\$76.33	45C		\$58.60
936E	2110	\$83.20	45C 55C	2486 2488	\$38.00 \$70.78
936F	2120	\$86.45	75C	2488 2491	\$70.78 \$92.38
938F	2130	\$88.25			
938G	2130G	\$99.78	125B	2492	\$119.07 \$206.68
950 90A serial	2228	\$64.76	275B	2496	\$206.68 \$225.22
950 31K & 81J serial	2270	\$77.64	275C	2497	\$225.33
950B	2272	\$95.46	JOHN DEERE	[DEER]	
950E	2300	\$101.48	Model	Code	Rate
950F	2301	\$106.90	JD-210C	2485	\$31.85
950F Series II	2303	\$110.60	JD-210C w/ backhoe	2490	\$31.86
950G	2310	\$118.79	JD-210LE	2495	\$41.80
950H	2310H	\$137.65	JD-310A w/ backhoe	2504	\$33.40
962G	2320G	\$129.99	JD-310B w/ backhoe	2506	\$34.09
966C	2340	\$113.27	JD-310C w/ backhoe	2507	\$37.57
966D	2350	\$125.20	JD-310D w/ backhoe	2507D	\$42.27
966E	2360	\$138.19	JD-310E w/ backhoe	2507E	\$43.26
966F	2361	\$141.22	JD-310SE w/ backhoe	2507F	\$48.45
966G	2362	\$158.50	310G	2507G	\$44.39
966H	2362H	\$184.41	JD-315SE w/ backhoe	2507H	\$49.08
966K	2362K	\$188.84	JD-410 w/ backhoe	2508	\$36.50
970F	2370	\$165.79	JD-410B w/ backhoe	2508B	\$37.20
972G	2372G	\$176.79	JD-410C w/ backhoe	2508C	\$43.71
980B	2376	\$144.51	JD-410D w/ backhoe	2508D	\$51.98
980C	2378	\$176.01	JD-410E w/ backhoe	2508E	\$54.58
980F	2381	\$181.38	410G	2508G	\$55.78
980G	2382	\$199.91	410J 4WD	2508J	\$64.28
980H	2382H	\$218.32	410K	2508K	\$68.49
988 87A6868 serial	2398	\$176.77	JD-444	2510	\$48.57
988B 50W serial	2436	\$252.27	JD-444C	2515	\$50.57
992B 25K serial	2460	\$314.75	JD-444D	2520	\$52.14
992C	2470	\$481.62	JD-444E	2521	\$56.58
IT 12	2472	\$41.00	JD-500C w/ backhoe	2592	\$47.39
IT 12B	2472B	\$47.75	JD-510 w/ backhoe	2620	\$43.97
IT 14F	2473	\$55.32	JD-510B w/ backhoe	2625	\$42.32
IT 18	2474	\$52.39	JD-510C w/ backhoe	2630	\$49.93
				2000	

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	<u>3054</u>	\$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	30503	\$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	2700Н	\$99.58	A-64	3114	\$62.61
JD-644B	2710	\$83.22	A-66	3118	\$81.54
JD-644C	2715	\$86.15			
JD-644D	2717	\$89.06	FURUKAWA	[FURU]	
JD-644E	2719	\$96.26	Model	Code	Rate
JD-644G	2719B	\$109.30	FL 320A	3120M	\$115.39
JD-644H	2719Н	\$117.09	FL 330	31208	\$125.82
644J	2719J	\$129.81	HOUGH	[HOUG]	
JD-710B w/ backhoe	2720	\$61.93	Model	Code	Rate
JD-710C w/ backhoe JD-710D w/ backhoe	2721	\$68.78 \$74.78	H65C	3578	\$80.28
JD-710D 4WD w/ backhoe	2722	\$74.78 \$76.72	H-90E	3884	\$138.84
710G	2722D	\$76.73 \$70.20	H-100C	3954	\$163.35
JD-744H	2722G	\$79.29 \$150.21	INTERNATIONAL	[INTL]	
JD-744H 744J	2723	\$159.31 \$197.84	Model		Data
JD-844	2723J	\$187.84 \$153.86	260A	<u>Code</u>	Rate
	2725	\$155.80	260A w/ backhoe	2260 2270	\$36.77 \$38.44
DRESSER	[DRES]	_	270A w/ backhoe	2280	\$42.35
Model	Code	Rate	280A w/ backhoe	2285	\$51.96
510B	2310	\$47.25			
510C	2310C	\$63.07	J C B	[JCB]	_
515B	3517	\$61.38	Model	Code	Rate
515C	3517C	\$74.58	214S w/ backhoe	4430	\$50.75
520B	3519	\$70.96	215S w/ backhoe	4435	\$55.74
520C	3519C	\$88.87	217S w/ backhoe	4440	\$59.06
530	3520	\$99.40	3C 1550 2WD w/ hoe	4448	\$36.25
530C	3520C	\$108.17	3D 1700 4WD w/ hoe	4450	\$48.39
540	3530	\$136.39	1400B w/ backhoe	4455	\$41.07
550	3540	\$136.47	1550B w/ backhoe	4457	\$47.02
FIAT-ALLIS	[F-A]		1600B w/ backhoe	4458	\$54.10
Model	Code	Rate	1700B w/ backhoe	4459	\$55.17
545B	3042	\$58.01	KAWASAKI	[KAWA]	
745C	3046	\$113.86	Model	Code	Rate
FR 10	3049H	\$61.27	60Z IV	4300	\$69.55
FR 10B	3049I	\$66.63	65Z IV	4310	\$77.70
FR 20	3050	\$128.65	KSS 80Z II	4330	\$99.95
FR 30	3051	\$168.09	80Z III	4335	\$116.03
FR 20B	3051B	\$143.05	80Z IV	4340	\$118.11

4345	\$148.33	TEREX		[TERX]	
4350	\$164.26				Rate
4355	\$168.37				\$145.92
4360	\$215.89				\$179.20
[KOMA]					\$233.60
	Rate				\$275.93
					<i>q</i> 2 70070
			MICHIGAN-EUCLID		
					Rate
					\$147.54
					\$168.85
					\$187.87
					\$225.33
					\$76.01
					\$91.09
4542					\$118.26
4543C	\$144.56				\$122.61
4544	\$150.59				\$152.62
4544B	\$169.57				\$158.93
4544C	\$172.10				\$171.55 \$184.70
4545	\$165.43		ACHINEDV		\$184.70 \$277.70
4546	\$199.62	VOLVOIM	IACHINEKI	L250G	\$277.79
4550	\$293.89		LEADS, PILE DRIVIN	NG	[LEADS]
4700	\$53.32				
4700 4710	\$53.32 \$61.44	DELAY FA	ACTOR = 0.47	OVERTIME FA	CTOR = 0.58
		DELAY FA	ACTOR = 0.47 (OVERTIME FA	CTOR = 0.58
4710		FIXED Includes he	eadblock, taper top, tip sled a	[FIXD]	ot yoke,
4710 [M-F]	\$61.44	FIXED Includes he foot yoke sl	eadblock, taper top, tip sled a heave, intermediate flights, a	[FIXD] and connector, for and all attachmen	ot yoke, ts and
4710 [M-F] <u>Code</u>	\$61.44 <u>Rate</u>	FIXED Includes he foot yoke sl	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l	[FIXD] and connector, for and all attachmen	ot yoke, ts and
4710 [M-F] <u>Code</u> 5143	\$61.44 <u>Rate</u> \$62.53	FIXED Includes he foot yoke sl accessories	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l	[FIXD] and connector, for and all attachmen	ot yoke, ts and
4710 [M-F] <u>Code</u> 5143 5150	\$61.44 <u>Rate</u> \$62.53 \$37.09	FIXED Includes he foot yoke sl accessories in meters (eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet)	[FIXD] and connector, for and all attachmen height of the lead	ot yoke, ts and measured
4710 [M-F] <u>Code</u> 5143 5150 5152	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78	FIXED Includes he foot yoke sl accessories in meters (OVER	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) <u>TO</u>	[FIXD] and connector, foo and all attachmen height of the lead <u>Code</u>	ot yoke, ts and measured <u>Rate</u>
4710 [M-F] <u>Code</u> 5143 5150 5152 5154	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01	FIXED Includes he foot yoke sh accessories in meters (<u>OVER</u> 0	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) <u>TO</u> 16.8 (55) (w/o spotter)	[FIXD] and connector, foo and all attachmen height of the lead <u>Code</u> 0100	ot yoke, ts and measured <u>Rate</u> \$20.66
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18	FIXED Includes he foot yoke sl accessories in meters (<u>OVER</u> 0 16.8 (55)	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter)	[FIXD] and connector, foo and all attachmen height of the lead <u>Code</u> 0100 0200	ot yoke, ts and measured <u>Rate</u> \$20.66 \$26.33
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28	FIXED Includes he foot yoke sh accessories in meters (<u>OVER</u> 0 16.8 (55) over	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) <u>TO</u> 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter)	[FIXD] and connector, foo and all attachmen height of the lead <u>Code</u> 0100 0200 0300	ot yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46	FIXED Includes he foot yoke sl accessories in meters (<u>OVER</u> 0 16.8 (55) over 0	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100	ot yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97	FIXED Includes he foot yoke sh accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55)	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 (105) (w/ spotter)	[FIXD] and connector, foo and all attachmen height of the lead 0100 0200 0300 1100 1200	ot yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/ spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG]	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 ([FIXD] and connector, foo and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, foo and all attachmen	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 ([FIXD] and connector, foo and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, foo and all attachmen	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 ([FIXD] and connector, foo and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, foo and all attachmen	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND] <u>Code</u>	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27 \$39.94 <u>Rate</u>	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories measured in OVER 0	eadblock, taper top, tip sled a heave, intermediate flights, a s. Rated in accordance with l linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/ spotter) 32.0 ([FIXD] and connector, for and all attachmen height of the lead <u>Code</u> 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and ead
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND]	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$102.46 \$55.97 \$102.46 \$37.27 \$39.94 <u>Rate</u> \$35.72	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories measured in OVER	eadblock, taper top, tip sled a theave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/ spotter) 16.8 (55) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter)	[FIXD] and connector, for and all attachmen height of the lead Code 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and ead <u>Rate</u>
4710 [M-F] <u>Code</u> 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND] <u>Code</u> 0100 0110	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27 \$39.94 <u>Rate</u> \$35.72 \$50.25	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories measured in OVER 0	eadblock, taper top, tip sled a theave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and ead <u>Rate</u> \$13.69 \$19.06 \$25.71
4710 [M-F] Code 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND] <u>Code</u> 0100 0110 0120	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27 \$39.94 <u>Rate</u> \$35.72 \$50.25 \$45.18	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories measured in OVER 0 16.8 (55)	eadblock, taper top, tip sled a theave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/ spotter) 16.8 (55) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l <u>Code</u> 0400 0500	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and tead <u>Rate</u> \$13.69 \$19.06
4710 [M-F] Code 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND] <u>Code</u> 0100 0110 0120 0130	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27 \$39.94 <u>Rate</u> \$35.72 \$39.572 \$45.18 \$54.06	FIXED Includes he foot yoke sl accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke sl accessories measured in OVER 0 16.8 (55) over	eadblock, taper top, tip sled a theave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l <u>Code</u> 0400 0500 0600	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and ead <u>Rate</u> \$13.69 \$19.06 \$25.71 \$27.97 \$34.41
4710 [M-F] Code 5143 5150 5152 5154 5156 5170 5171 5172 5174 5182 5184 6000 6010 [NHND] <u>Code</u> 0100 0110 0120	\$61.44 <u>Rate</u> \$62.53 \$37.09 \$37.78 \$40.01 \$40.88 \$80.25 \$39.18 \$42.28 \$102.46 \$55.97 \$162.69 \$37.27 \$39.94 <u>Rate</u> \$35.72 \$50.25 \$45.18	FIXED Includes he foot yoke si accessories in meters (OVER 0 16.8 (55) over 0 16.8 (55) over SWINGIN Includes he foot yoke si accessories measured in OVER 0 16.8 (55) over 0	eadblock, taper top, tip sled a theave, intermediate flights, a s. Rated in accordance with 1 linear feet) TO 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/o spotter) 32.0 (105) (w/o spotter) 16.8 (55) (w/ spotter) 16.8 (55) (w/ spotter)	[FIXD] and connector, for and all attachmen height of the lead 0100 0200 0300 1100 1200 1300 [SWNG] and connector, for and all attachmen the height of the l <u>Code</u> 0400 0500 0600 1400	bt yoke, ts and measured <u>Rate</u> \$20.66 \$26.33 \$32.98 \$34.93 \$41.68 \$49.41 bt yoke, ts and ead <u>Rate</u> \$13.69 \$19.06 \$25.71 \$27.97
	4350 4355 4360 [KOMA] <u>Code</u> 4520 4525 4536 4537 4538 4539 4540 4541 4541C 4542 45412 4542 4543C 4544 4544B 4544B 4544C 4545 4546	4350\$164.264355\$168.374360\$215.89[KOMA]CodeRate4520\$116.934525\$165.674536\$66.004537\$90.314538\$86.164539\$105.674540\$101.654541\$125.784542\$121.264543C\$144.564544\$150.594544B\$169.574545\$165.434545\$165.434546\$199.62	4350 \$164.26 Model 4355 \$168.37 70C 4360 \$215.89 72-61 [KOMA] 72-71B 200 \$116.93 VOLVO-N 4520 \$116.93 VOLVO-N 4525 \$165.67 Model 4536 \$66.00 175B 4537 \$90.31 175C 4538 \$86.16 275B 4539 \$105.67 275C 4540 \$101.65 L-70C 4541 \$125.78 L-120 4542 \$121.26 L-120C 4542 \$121.26 L-120C 4543C \$144.56 L-150C 4544 \$150.59 L-160 4544B \$169.57 L-180C 4545 \$165.43 VOLVO N 4546 \$199.62 VOLVO N	4350 \$164.26 Model 4355 \$168.37 70C 4360 \$215.89 72-61 [KOMA] 72-71B 72-71B Code Rate 72-81 4520 \$116.93 VOLVO-MICHIGAN-EUCLID 4525 \$165.67 Model 4536 \$66.00 175B 4537 \$90.31 175C 4538 \$86.16 275B 4539 \$105.67 275C 4540 \$101.65 L-70C 4541 \$125.87 L-90 4542 \$121.26 L-120C 4542 \$121.26 L-120C 4543C \$144.56 L-150C 4544 \$150.59 L-160 4544 \$150.59 L-160 4544 \$169.57 L-180C 4545 \$165.43 VOLVO MACHINERY 4546 \$199.62 VOLVO MACHINERY	4350 \$164.26 Model Code 4355 \$168.37 70C 7938 4360 \$215.89 72-61 8036 [KOMA] 72-71B 8055 Code Rate 72-81 8080 4520 \$116.93 VOLVO-MICHIGAN-EUCLID [VME] 4525 \$165.67 Model Code 4536 \$66.00 175B 6186C 4537 \$90.31 175C 6186C 4539 \$105.67 275C 6330C 4539 \$101.65 L-70C 9570C 4541 \$125.78 L-120 9595 4542 \$121.26 L-120C 9595C 4542 \$121.26 L-120C 9598C 4544 \$150.59 L-160 9600 4544B \$169.57 L-180C 9602C 4544C \$172.10 L-190 9605 4545 \$165.43 VOLVO MACHINERY L250G

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 TRAFC 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]	
Model	Code	Rate
Casing, 450 mm dia, per 0.3 m (Casing, 18 dia, per lf)	3" 0120	\$0.04
Casing, 650 mm dia, per 0.3 m (Casing, 26 dia, per lf)	5" 0130	\$0.06
Casing, 900 mm dia, per 0.3 m (Casing, 36 dia, per lf)	5" 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,	[SSFW]	
FALSEWORK		
Model	Code	<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, pe 0.1 sm (6x12 girder panel, per sf)	er 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 7.3 m (Shoring, 10' deepx8' max trench box, per 24')	0580	\$23.74
Wood, 50 mm x255 mm, per 30.5 m (Wood, 2"x10", per 100 lf)	0605	\$0.16
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 hundre wt.)	0670 ed	\$0.04
TANK	[TANK]	
Model	Code	Rate
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]	
Model	Code	Rate
Crash cushion barrel, filled, each	0810	\$1.23
K-rail, temporary concrete barrier, per 6.1 m (20 lf)	0820	\$0.49
PAVEMENT GRINDERS, DIA BLADES	MOND	[PGDIA]
DELAY FACTOR = 0.09 OV	ERTIME FA	CTOR = 0.92
Includes water(but not water truck or trailer), c all attachments and accessories. Replacement	oolant, cutting c	ompounds and
listed below.		
listed below.		
	blades are incluc	
CONCUT	blades are includ	led in the rates
CONCUT Model	blades are incluc [CCUT] <u>Code</u>	led in the rates <u>Rate</u>
CONCUT <u>Model</u> BC-38 (136 blades)	blades are incluc [CCUT] <u>Code</u> 0500	led in the rates <u>Rate</u> \$182.26
CONCUT <u>Model</u> BC-38 (136 blades) BC-244 (187 blades)	blades are includ [CCUT] <u>Code</u> 0500 0505	<u>Rate</u> \$182.26 \$225.42
CONCUT <u>Model</u> BC-38 (136 blades) BC-244 (187 blades) BC-1268 (48 blades)	[CCUT] <u>Code</u> 0500 0505 0510	<u>Rate</u> \$182.26 \$225.42

Model	Code	Rate
HG-130A (127 blades)	0600	\$174.56
PC-390(171 blades)	0610	\$270.74
PENHALL	[PENH]	
Model	Code	Rate
G-38 (172 blades)	0800	\$345.00
TARGET	[TARG]	
Model	Code	Rate
CG-65 (41 blades)	0900	\$106.97
PRM-3804 (170 blades)	0905	\$379.90

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

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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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

WIRTGE	N	[WIRT]	
Model		Code	Rate
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]

PUMPS, WATER HOSE

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]

[INHS]

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.

OVER	TO	Code	Rate
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

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

OVER	TO	Code	Rate
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).

OVER	TO	Code	Rate
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]

OVERTIME FACTOR = 0.91

DELAY FACTOR = 0.11 Includes all - **h**

Includes all attachments and accessories.		
BOMAG	[BMAG]	
Model	Code	Rate
BW-4AS	1150	\$24.95
BW-6AS	1155	\$26.56
BW-10AS	1160	\$45.29
BW-12AS	1165	\$46.06
DRESSER	[DRES]	
Model	Code	Rate
S3-5B	2500	\$32.59
S8-12A	2520	\$43.05
S10-14A	2525	\$43.81
FERGUSON	[FERG]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
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]	
Model	Code	Rate
4-6 ton FB	<u>6900</u>	\$25.58
5-6.5 ton FB	6965	\$23.38 \$27.12
8-12 ton HB		
10-14 ton HB	7175 7275	\$37.67 \$38.28
		\$30.20
REXNORD	[RXND]	
Model	Code	Rate
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 TH	RE. SELF	[ROLRT]
KOLLEKS, KODDER III		
PROPELLED	,~	
	OVERTIME FA	
PROPELLED		
PROPELLED DELAY FACTOR = 0.16		
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories.	OVERTIME FA	
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG	OVERTIME FA	CTOR = 0.86
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model	OVERTIME FA	CTOR = 0.86 <u>Rate</u>
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R	OVERTIME FA	CTOR = 0.86 <u>Rate</u>
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR	OVERTIME FA	CTOR = 0.86 <u>Rate</u> \$41.18
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model	OVERTIME FA [B-B] Code 2624 [CAT] Code	CTOR = 0.86 <u>Rate</u> \$41.18 <u>Rate</u>
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110	OVERTIME FA [B-B] <u>Code</u> 2624 [CAT] <u>Code</u> 3460	CTOR = 0.86 <u>Rate</u> \$41.18 <u>Rate</u> \$42.03
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465	$\frac{Rate}{$41.18}$ $\frac{Rate}{$42.03}$ $$41.45$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 180	OVERTIME FA	$\frac{Rate}{$41.18}$ $\frac{Rate}{$42.03}$ $$41.45$ $$43.65$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 180 PS 200B	OVERTIME FA	$\frac{Rate}{$41.18}$ $\frac{Rate}{$42.03}$ $$41.45$ $$43.65$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 180 PS 200B DYNAPAC	OVERTIME FA	$\frac{\text{Rate}}{\text{$$41.18$}}$ $\frac{\text{Rate}}{\text{$$42.03$}}$ $\frac{\text{$$41.45$}}{\text{$$43.65$}}$ $\frac{\text{$$55.08$}}{\text{$$55.08$}}$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 130 PS 180 PS 200B DYNAPAC Model	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code 3500	$\frac{Rate}{$41.18}$ $\frac{Rate}{$42.03}$ $$41.45$ $$43.65$ $$55.08$ $\frac{Rate}{$40.37}$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 180 PS 200B DYNAPAC Model CP 15	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code	$\frac{Rate}{$41.18}$ $\frac{Rate}{$42.03}$ $$41.45$ $$43.65$ $$55.08$ \underline{Rate}
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 130 PS 130 PS 130 PS 180 PS 200B DYNAPAC Model CP 15 CP 21	OVERTIME FA [B-B] <u>Code</u> 2624 [CAT] <u>Code</u> 3460 3465 3470 3480 [DYPC] <u>Code</u> 3500 3510 3520	$\frac{Rate}{\$41.18}$ $\frac{Rate}{\$42.03}$ $\$41.45$ $\$43.65$ $\$55.08$ $\frac{Rate}{\$40.37}$ $\$49.97$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 180 PS 200B DYNAPAC Model CP 15 CP 21 CP 27 GALION	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code 3510 3510 3520 [GALN]	$\frac{Rate}{\$41.18}$ $\frac{Rate}{\$42.03}$ $\$41.45$ $\$43.65$ $\$55.08$ $\frac{Rate}{\$40.37}$ $\$49.97$ $\$64.36$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 130 PS 180 PS 200B DYNAPAC Model CP 15 CP 21 CP 27 GALION Model Model	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code 3500 3510 3520 [GALN] Code	$\frac{Rate}{\$41.18}$ $\frac{Rate}{\$42.03}$ $\$41.45$ $\$43.65$ $\$55.08$ $\frac{Rate}{\$40.37}$ $\$49.97$ $\$64.36$ \underline{Rate}
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 130 PS 180 PS 200B DYNAPAC Model CP 15 CP 27 GALION Model 3500	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code 3510 3520 [GALN] Code 4310	$\frac{Rate}{\$41.18}$ $\frac{Rate}{\$42.03}$ $\$41.45$ $\$43.65$ $\$55.08$ $\frac{Rate}{\$40.37}$ $\$49.97$ $\$64.36$ $\frac{Rate}{\$41.69}$
PROPELLED DELAY FACTOR = 0.16 Includes all attachments and accessories. BUFFALO-BOMAG Model BW 20R CATERPILLAR Model PS 110 PS 130 PS 130 PS 180 PS 200B DYNAPAC Model CP 15 CP 21 CP 27 GALION Model Model	OVERTIME FA [B-B] Code 2624 [CAT] Code 3460 3465 3470 3480 [DYPC] Code 3500 3510 3520 [GALN] Code	$\frac{Rate}{\$41.18}$ $\frac{Rate}{\$42.03}$ $\$41.45$ $\$43.65$ $\$55.08$ $\frac{Rate}{\$40.37}$ $\$49.97$ $\$64.36$ \underline{Rate}

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HYSTER	[HYST]	
Model	Code	Rate
C 530A	5401	\$41.30
C 550A	5494	\$46.36
ROLLER-TAMPING, SEGMENTED, SHEEPSFOOT, SELF PROPELLED		[ROTAM]
DELAY FACTOR = 0.10	OVERTIME FA	$\mathbf{CTOR} = 0.92$
Includes all attachments and accessories.		
BUFFALO-BOMAG	[B-B]	
Model	Code	Rate
К 300	1630	\$80.85
K 301	1635	\$90.90
K 401	1638	\$107.84
CATERPILLAR	[CAT]	
Model	Code	Rate
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]	
Model	Code	Rate
30	6490	\$79.00
45	6500	\$119.63
RAM PAK 45	6505	\$128.34
REXNORD	[RXND]	
Model	Code	Rate
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

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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]	
Model	Code	Rate
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]	
Model	Code	Rate
1220 mm x1220 mm (4'X4') & under, eac	h 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, S PROPELLED	ELF	[ROVIB]
DELAY FACTOR = 0.17 OV	ERTIME FA	$\mathbf{CTOR} = 0.85$

Includes all attachments and accessories.

BUFFALO-BOMAG	[B-B]	
Model	Code	Rate
BW 210	2060	\$62.11
BW 210A	2070	\$64.10
BW 213	2080	\$63.21
BW 214	2090	\$64.95
BOMAG	[BMAG]	
Model	Code	Rate
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
BROS	[BROS]	
Model	Code	Rate
VM 255	2023	\$50.71
VM 268, VM 268H	2024	\$62.47
VM 278	2025	\$95.41

CASE	[CASE]	
Model	Code	Data
50B		<u>Rate</u> \$7.29
W 251	2228 2400	\$7.29 \$24.17
252, W 252	2400	\$24.17 \$31.29
252, W 252 752, W 752	2403	\$54.70
1102, W 1102	2500	\$72.02
1102D, W 1102D	2505	\$73.26
602D	2510	\$49.48
752B	2520	\$57.62
CATERPILLAR	[CAT]	
Model	Code	Rate
<u>CB 54</u>	7000	\$98.25
CS 56	7020	\$108.01
CB 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 \$84.24
CB 534 CB 534C	8067	\$84.24
CB 534C CB 534D OR XW	8067C	\$82.19 \$104.31
CS 551	8067D 8070	\$104.31 \$91.68
CP 553 padfoot drum	8070	\$96.45
CS 553 smooth drum	8080	\$90.43 \$92.91
CP 563 padfoot drum	8080	\$92.91 \$99.08
CS 563 smooth drum	8082	\$95.25
CS 563C	8083C	\$100.80
CB 614	8085	\$102.63
CB 634	8095	\$101.27
CB 634C	8095C	\$102.56

ModelCodeNadeModelCodeRateLR 902401S14.40C 612B3460\$55.25CA 1202409S45.47C 610B350.455.56CA 1202409ES39.40C 617B3563\$57.13CA 12PD2409ES39.80C 617B3563\$57.73CA 12PD2409ES30.80C 607B356\$55.73CA 12PD2409ES30.80C 607B357.9\$57.73CA 15A2400S40.10C 627B357.2\$58.41CA 15D2421S41.30C 727A372.E\$15.36CA 15D2425S41.83C 766A377.3\$72.72CA 25D2430S78.33C 766BHypacHyster)372.E\$15.80CA 25D2440S70.39C 852A372.9\$19.47CA 25D2465S41.25C 8600 (hypacHyster)372.E\$19.60CA 3002462S82.50C 8600 (hypacHyster)372.E\$19.60CA 3002466\$103.01INGERSOLLEAND[F R]"CA 3002466\$103.01INGERSOLLEAND[S 8.40\$10.20CA 3002466\$103.01INGERSOLLEAND[F R]"CA 3002466\$103.01INGERSOLLEAND[F R]\$10.40CA 3002466\$103.01INGERSOLLEAND[F R]\$30.20CA 3102466\$103.01INGERSOLLEAND[F R]\$30.40CA 31024	DYNAPAC	[DYPC]		HYSTER	[HYST]	
A 36V, A 36D2405\$34,78C 610A3500\$4225CA 122409\$35,84C 610B3562\$55,62CA 12D2409E\$39,89C 617B3563\$57,13CA 12PDD2409E\$39,89C 620B3563\$57,13CA 12PDD strikenff blade24091\$34,30C 622B3570\$55,61CA 152400\$64,10C 627B3572\$55,81CA 15A2420\$54,01C 627B3572\$55,81CA 20D2422\$53,15C 748A (HypacHyster)3572\$57,26CA 25D2440\$76,88C 7660357,21\$87,42CA 25A2400\$78,33C 7660 (HypacHyster)3572\$105,40CA 25A2400\$76,85C 850A3572\$105,40CA 25A2400\$78,33C 7660 (HypacHyster)3572\$105,40CA 25A2400\$76,85C 860A (HypacHyster)3572\$105,40CA 30D2462\$82,55C 860A (HypacHyster)3572\$105,40CA 31D2466\$101,38D 233570\$20,75CA 35D2468\$105,81D 233570\$30,72CA 35D2468\$105,81D 233570\$32,75CA 35D2468\$105,81D 23\$373\$30,72CA 35D2468\$105,81D 23\$373\$37,72CA 35D2468\$105,81D 23\$373\$37,72CA 35D2469\$16,1	Model	Code	Rate	Model	Code	Rate
CA 122409AS45.84C 610B3400S45.90CA 12D2409BS39.30C 617B3563S57.13CA 12PDB2409FS39.80C 607B3563S57.13CA 12PDB strikeoff blade2409FS38.03C 607B357.03S57.73CA 1572410S61.06C 627B357.2S57.73CA 1502421S54.31C 77A357.2S58.41CA 1502422S53.15C 748A (Hypac/Hyster)357.24S56.28CA 2502440S76.58C S50A (Hypac/Hyster)357.24S57.22CA 25A2400S78.33C 766A (Hypac/Hyster)357.24S56.95CA 25D2460S78.33C S50B (Hypac/Hyster)357.27S57.93CA 25D2460S70.30C S52B (Hypac/Hyster)357.27S50.92CA 35D2462S82.55C S60A357.25S10.40CA 35D2468S105.88ModelCodeRateCA 515D2468S105.88ModelCodeRateCA 515D2468S105.88ModelCodeRateCA 515D2468S105.81D D 2.2S56.55S40.20C1 10.C1 barles II2472S37.15D D 2.3S37.37S37.27C1 10.22472S34.17D D 3.5S57.31C1 10.22472S34.17D D 3.5S57.31C1 10.22472S34.57D D 3.5S57.31C1 10.22472S41.5	LR 90	2401	\$14.40	C 612B	3450	\$56.27
CA 12D2409HS39.0C 618B366S662CA 12PD ankeuff blade2409FS38.03C 620B3566557.01CA 12PD ankeuff blade2400S61.06C 623B357.0S57.73CA 15A2420S61.01C 627B377.2S58.41CA 15D2421S64.33C 77A372.5S58.41CA 2002422S53.15C 748A (4typac/ftyster)357.4S57.72CA 15PD2423S54.73C 766B (Hypac/ftyster)357.21S88.03CA 25A2440S78.53C 850A357.21S88.04CA 25A2440S78.53C 850A (372.72)S57.45CA 25A2440S78.53C 850A (372.72)S57.45CA 25A2440S78.55C 850A357.24S10.40CA 25A2440S78.55C 850A357.25S10.47CA 25A2460S78.15C 850B (Hypac/Hyster)357.27S10.40CA 3152466S10.58ModelModelS77.9S10.40CA 3152466S10.58ModelModelS77.5S30.90CA 5152466S10.58ModelModelS77.5S30.90C1 102472S37.14D 23S37.5S30.30C1 102472S37.14D 23S37.5S30.30C1 122472S37.14D 23S37.5S30.30C1 122472S37.17D 23S37.6S30.30C1 10	A 36V, A 36D	2405	\$34.78	C 610A	3500	\$42.25
CA 12PD2409ES39.89C 617B366.S57.13CA 12PD strikeuff blade24091638.03C 620B3560557.73CA 15A2400S54.01C 627B3572S58.41CA 15D2411S64.33C 727A3572ES81.98CA 20D2422S53.15C 748A1572FS56.28CA 15PD2425S54.78C 766A3572G377.72CA 252430S78.33C 766B (Hpac/Hyster)3572FS56.28CA 25D2460S81.34C 850B (Hypac/Hyster)3572FS109.40CA 25D2460S81.34C 850B (Hypac/Hyster)3572FS109.40CA 35D2460S87.55C 860A3572SS109.10CA 3002462S82.55C 860A3572FS109.40CA 31D2466S10.58ModelCodeRateCA 31D2466S10.58ModelCodeRateCA 151DDB2469S11.13DD 223665540.20C 10, CC 10 series II2472CS33.43DD 243572S39.32CC 10, CC 10 series II2472CS34.74DD 353573CS32.75CC 142473S49.20D443573ES55.14CC 21 II2474ES41.79DD 353573CS32.75CC 142473S49.20D443573ES55.14CC 10, CC 10 series II2474ES51.99D443573ES55.14CC 21 II<	CA 12	2409A	\$45.84	C 610B	3540	\$54.50
CA 12PDB strikeoff blade2409HS8.03C 620B3566\$557.73CA 15410\$61.06C 627B3571\$557.73CA 15D421\$64.53C 727A3572E\$81.98CA 20D422\$53.15C 748A(Hpue/Hyster)3572F\$36.28CA 15PD425\$54.78C 760A3572I\$87.73CA 25240\$76.88C 760B(Hpue/Hyster)3572I\$87.72CA 25A240\$76.88C 850B (Hypue/Hyster)3572F\$10.90CA 25A, CA 2DD440\$70.39C 852B (Hypue/Hyster)3572F\$10.91CA 25A, CA 2DD2465\$44.0C 850B (Hypue/Hyster)3572F\$10.91CA 30D2461\$87.05C 860B (Hypue/Hyster)3572F\$10.91CA 30D2464\$87.05C 860B (Hypue/Hyster)3572F\$10.91CA 30D2464\$87.05C 860B (Hypue/Hyster)3572F\$39.91CA 35D2468\$10.58D 2.23570\$29.75CA 55D2468\$10.58D 2.23570\$29.75CA 15J PDB2469\$75.81D 2.43573\$31.37CC 1022472C\$33.45D 2.43573\$31.37CC 1022472C\$33.45D 2.43573\$31.37CC 1022474\$51.07D 2.43573\$31.37CC 1022474\$51.07D 2.43573\$31.37CC 1022474\$51.07D 2.4 <t< th=""><td>CA 12D</td><td>2409B</td><td>\$39.40</td><td>C 615B</td><td>3562</td><td>\$56.62</td></t<>	CA 12D	2409B	\$39.40	C 615B	3562	\$56.62
CA 15240\$61.06C 625B3570\$57.73CA 15A2420\$84.01C C27B3572\$58.41CA 20D2422\$53.15C 748A (Hypac/Hyster)3572F\$36.28CA 20D2425\$54.78C 766A35721\$57.42CA 25D2430\$78.38C 766B (Hypac/Hyster)35721\$57.42CA 25S2440\$76.58C \$50A35723\$98.07CA 25F2430\$78.38C \$65B (Hypac/Hyster)3572F\$105.00CA 25F2460\$70.39C \$25D (Hypac/Hyster)3572F\$105.40CA 3002462\$82.55C \$60A35727\$99.64CA 3002462\$82.55C \$60A3572F\$105.40CA 3002466\$103.01IDE233570\$20.75CA 30D2468\$105.88ModelCodeRateCA 51D2469\$75.81DD 233573\$31.27C 10, CC 10 series II2470\$31.13DD 233573\$31.27C 122472E\$34.17DD 353573C\$53.17C 122472E\$34.17DD 353573C\$53.17C 142473\$49.20D3 44\$5734\$77.83C 21 II2474E\$34.17DD 35357.45\$53.14C 21 II puatronic2475\$82.21D4 48\$57.34\$77.83C 22 II 12474E\$84.17DD 35357.45\$53.14C 21 II puatronic2475 <td>CA 12PD</td> <td>2409E</td> <td>\$39.89</td> <td>C 617B</td> <td>3563</td> <td>\$57.13</td>	CA 12PD	2409E	\$39.89	C 617B	3563	\$57.13
CA 15A2420S54.01C 627B3572S58.41CA 15D2421664.33C 727A3572ES36.28CA 20D2422S54.78C 766A3572GS72.72CA 252430S78.33C 766B (Hypac/Hyster)3572IS78.48CA 25A2430S78.33C 766B (Hypac/Hyster)3572IS78.48CA 25A2440S78.33C 766B (Hypac/Hyster)3572IS78.48CA 25D2450S81.34C 850B (Hypac/Hyster)3572IS90.79CA 25F2460S70.39C 852B (Hypac/Hyster)3572IS90.79CA 30D2464S87.05C 860B (Hypac/Hyster)3572IS90.79CA 51S, CA 51D2466S103.01Incg.RSOLL-RANDI F.RICA 30D2464S87.05C 860B (Hypac/Hyster)3572S90.79CA 51S, CA 51D2466S103.01Incg.RSOLL-RANDI F.RICA 51S, CA 51D2469S75.81DD 223565S40.20CC 100, CC 10 series II2470S31.13DD 233570S29.75CC 1022472CS33.45DD 243573CS32.75CC 1172474S51.07D4.41357.36S58.49CC 2112474CS62.79D4.48357.34S74.84CC 2112474CS52.79D4.48357.34S74.84CC 21172476S81.15D0 45357.4CS15.10CC 505A2489S14.04D10.35 <td>CA 12PDB strikeoff blade</td> <td>2409H</td> <td>\$38.03</td> <td>C 620B</td> <td>3566</td> <td>\$56.01</td>	CA 12PDB strikeoff blade	2409H	\$38.03	C 620B	3566	\$56.01
CA 15D2421S64.53C 727A3572E\$81.98CA 20D2422\$53.15C 748A (Hypac/Hyster)3572E\$36.28CA 15PD2425\$54.78C 766B (Hypac/Hyster)3572E\$37.24CA 25A2440\$76.58C 850A3572I\$80.95CA 25A2440\$76.58C 850B (Hypac/Hyster)3572E\$10.90CA 25P2455\$84.36C 850B (Hypac/Hyster)3572E\$10.40CA 25F2460\$70.39C 852B (Hypac/Hyster)3572E\$10.40CA 3002462\$82.55C 860A3722\$91.17CA 30D2466\$103.01INGEROLL-RAND[I.F.]CA 51D2466\$103.01INGEROLL-RAND[I.F.]CA 51D2466\$103.01INGEROLL-RAND[I.F.]CA 51D2468\$105.84ModelCodeRateCA 151PDB2409\$51.13DD 24\$3573\$31.27CC 10.CC 10 series II2472\$27.02DD 24\$3573\$31.27CC 142473\$49.20DD 34\$3573\$31.27CC 142473\$49.20DD 34\$3573\$31.27CC 142473\$49.20DD 34\$3573\$31.27CC 142474\$51.07DA 40\$3574\$31.43CC 2112474C\$62.59DA 41\$35736\$32.75CC 142473\$49.20DD 34\$3748\$12.84CC 2112474C\$62.59DA 41	CA 15	2410	\$61.06	C 625B	3570	\$57.73
CA 20D2422SS3.15C 748A (Hyner/Hyster)3572FS36.28CA 15FD2425S54.78C 766A3572CS77.27CA 25S2430S76.58C 850A (Hyner/Hyster)3572FS86.59CA 25A, CA 25D2450S81.34C 850B (Hyner/Hyster)3572FS10.190CA 25FD2450S84.26C 822A3572NS92.47CA 3002462S82.55C 800A (Hyner/Hyster)3572FS10.50CA 3002462S87.05C 830B (Hyner/Hyster)3572FS91.47CA 30D2466S105.86McGRSOLL-RAND[F.R]FCA 515D2468S105.86ModelCodeRateCA 151PDB2469S73.81DD 223565S40.20CC 10, C 10 series II2470S31.27DD 35357.35S31.27CC 10, C 10 series II2477S37.40DD 35357.35S31.27CC 122472CS33.47DA 30357.35S31.27CC 142473S49.20DD 35357.35S35.54CC 21 112474CS62.59DA 34H357.34S75.45CC 42A2476S81.15DD 65357.44S16.46CC 505A2488S10.94DF 84357.46S16.86CC 505A2488S10.94DF 84357.46S16.86CC 505A2488S10.94DF 84S57.46S16.86CC 505A2488S16.74D110357.46S16.86 </th <td>CA 15A</td> <td>2420</td> <td>\$54.01</td> <td>C 627B</td> <td>3572</td> <td>\$58.41</td>	CA 15A	2420	\$54.01	C 627B	3572	\$58.41
CA 15PD2425\$54.78C 766A3572G\$72.72CA 252430\$78.33C 766B(Hynac/Hyster)3572H\$87.42CA 25S2440\$76.58C 850A3572J\$86.95CA 25A, CA 25D2450\$81.34C 850B (Hynac/Hyster)3572K\$92.47CA 25T2460\$70.39C 852B (Hynac/Hyster)3572F\$105.40CA 30D2462\$82.55C 860A3572S\$99.99CA 51D2466\$103.01INGERSOLL-RAND[I-R]CA 30D2464\$87.05C 860B (Hypac/Hyster)3572T\$99.99CA 51S, CA 51D2466\$103.01INGERSOLL-RAND[I-R]CA 55D2468\$105.88ModelCodeRateCA 151PDB2469\$75.81DD 233570\$29.79CC 10A2472\$27.02DD 243572\$39.39CC 122472C\$33.45DD 353573C\$31.27CC 142473\$49.20DA 403573E\$56.14CC 21 II2474\$51.07DA 41373G\$58.49CC 22 II II2474\$51.71DA 503574L\$57.81CC 42A2476\$82.51DA 503574L\$57.81CC 420 II Dynatronic2475\$82.21DA 503574L\$57.81CT 50248E\$51.87D0 4357.36\$58.49DD 182499E\$14.96D543574L\$57.81DD 182499E\$	CA 15D	2421	\$64.53	C 727A	3572E	\$81.98
CA 252430\$78.33C 766B (Hypac/Hyster)3572H\$87.42CA 25S2440\$75.58C \$50A3572J\$58.695CA 25D2450\$81.34C \$50B (Hypac/Hyster)3572K\$101.90CA 25P2460\$70.39C \$52A3572F\$105.40CA 302462\$82.55C \$60A372B\$91.07CA 30D2464\$87.05C \$80B (Hypac/Hyster)3572T\$105.40CA 51D2466\$103.01INGERSOLL-RAND[I-R]ICA 55D2468\$105.88ModelCodeRateCO 10, CC 10 series II2470\$31.31D 243572T\$39.39CC 10, CC 10 series II2472\$27.02DD 243572\$39.39CC 10, CC 10 series II2473\$34.02D2 43573C\$32.75CC 122472E\$34.17D 353373C\$31.27CC 122473\$34.02D4 403573E\$56.14CC 2112474\$51.07D 443573G\$31.27CC 2112474E\$58.94D0 443573H\$78.84CC 2112474E\$58.94DD 443573H\$78.84CC 2112474E\$58.94D1 65374A\$61.06CC 50A248S\$10.94D53574H\$48.99CC 42A2476\$81.15D 903574\$78.64CC 50A248S\$16.14D1 103574F\$93.80CT 50A248S\$16.14 </th <td>CA 20D</td> <td>2422</td> <td>\$53.15</td> <td>C 748A (Hypac/Hyster)</td> <td>3572F</td> <td>\$36.28</td>	CA 20D	2422	\$53.15	C 748A (Hypac/Hyster)	3572F	\$36.28
CA 25S2440\$76.58C 850A35721\$86.95CA 25D2450\$81.34C 850B (HypacHyster)3572K\$101.90CA 25D2455\$84.26C 852B (HypacHyster)3572F\$92.47CA 25T2460\$70.90C 852B (HypacHyster)3572F\$99.60CA 302462\$82.55C 860A3572F\$99.60CA 30D2464\$87.05C 860B (HypacHyster)3772F\$99.60CA 51S, CA 51D2466\$101.88ModelCodeRateCA 55D2468\$105.88ModelCode\$29.75CC 10, CC 10 series II2470\$31.13DD 223555\$40.20CC 10, CC 10 series II2470\$31.47DD 333570\$29.75CC 1022472C\$33.45DD 303573C\$32.75CC 122472E\$34.17DD 353573C\$32.75CC 212474C\$62.99DD 34HF3573H\$58.49CC 21 II2474C\$62.99DD 34HF3573H\$78.84CC 21 II2474C\$82.21DA 403573H\$78.84CC 24 II Dynaronic2475\$82.21DA 503574\$78.64CC 50A2488\$10.94DF 843574B\$128.56CC 50A2488\$149.64DF 843574B\$128.56CC 50A2488\$149.64DF 843574B\$128.56DD 182498\$14.64DF 843574B\$128.56CC 50	CA 15PD	2425	\$54.78	C 766A	3572G	\$72.72
CA 25A, CA 25D2450S81.34C 850B (Hypac/Hyster)3572KS10.10CA 25PD2455S84.26C 852AC 852B (Hypac/Hyster)3572PS10.40CA 30D2462S82.55C 860A3752SS91.17CA 30D2464S87.05C 860B (Hypac/Hyster)3572FS99.69CA 51D2466S103.01INGERSOLL-RAND[I-R]CA 55D2468S105.84ModelCodeRateCA 15IPDB2469S75.81DD 233565S40.20CC 10, CC 10 series II2470S31.13DD 233573S32.75CC 1022472CS34.17DD 353573CS32.75CC 1022472ES34.17DD 353573CS32.75CC 142473S49.20DA 403573ES56.14CC 21 II2474CS62.59DA 413573GS57.84CC 21 II2474CS62.59DA 483573HS48.49CC 50A2488S10.94D53574AS61.61CC 50A2489S16.14DD 903574BS12.83CC 50A2489S16.24DD 103574FS93.00CC 50PD2488S10.24DD 103574FS93.00CC 50PD2488S10.24DD 1003574BS14.53OV2499HS15.35FF 48360S68.2400V2499ES16.14DD 1003574FS93.0000V2499ES16.14DD	CA 25	2430	\$78.33	C 766B (Hypac/Hyster)	3572Н	\$87.42
CA 25PD2455S84.26C 852A372N\$92.47CA 25T2460570.39C 852B (Hypac/Hyster)3572PS105.40CA 3002462S82.55C 860A (Hypac/Hyster)3572FS99.69CA 51D2466S103.01INGERSOLL-RAND[IR]1CA 55D2468S105.88ModelCodeRateCA 51S CA 51D2469S75.81DD 223565\$40.20CC 10, CC 10 series II2470S31.13DD 233570\$29.75CC 1022472CS33.45DA 303573\$31.27CC 122472ES34.17DD 353573C\$32.75CC 142473S49.09DA 403573\$31.27CC 21 II2474ES51.17DD 353573G\$58.49CC 221 II2474CS62.59DA 483573M\$77.83CC 24A2476S81.15DA 503574\$78.64CC 5002488S10.94D5 443574B\$12.81.66CC 5002488\$10.64DD 403574\$88.46DD 103574H\$15.503574D\$88.64DD 182498\$12.41DD 10.03574H\$12.81.66CC 5052489\$16.44DD 1453574H\$12.81.67DD 182498\$12.81DD 10.03574H\$12.81.67DD 182498\$12.41DD 145\$374H\$10.52200V2499E\$16.14DD 145\$374H<		2440	\$76.58	C 850A	3572J	\$86.95
CA 25T2460\$70.39C 852B (Hypac/Hyster)3572P\$105.40CA 302462\$82.55C 860A\$372S\$99.90CA 30D2464\$87.05C 860B (Hypac/Hyster)3572T\$99.90CA 51S, CA 51D2466\$103.01INGERSOLL-RAND[I-R]ICA 55D2468\$105.88ModelCodeRateCA 151PDB2469\$75.81DD 223565\$40.00CC 10A CC 10 series II2470\$31.13DD 233570\$29.75CC 1022472C\$33.45DD 353573C\$23.75CC 122472E\$34.17DA 303573\$31.27CC 142473\$49.20DA 403573G\$58.49CC 2112474E\$51.07DA 413573G\$58.49CC 22112474C\$62.59DA 483574L\$78.84CC 42A2476\$81.15DA 503574\$78.64CC 50A248E\$88.94DD 653574L\$78.64CC 50A248B\$10.94DF 84357.46\$21.51CC 50A248B\$10.94DF 84357.46\$21.51CC 50A2489\$14.94D1 103574F\$93.80DD 182498\$15.78DD 65351.45\$10.6922100V2499E\$16.14D1 103574F\$93.80DD 182498\$10.94D1 103574F\$93.80DD 182498\$14.94D1 103574F <td>CA 25A, CA 25D</td> <td>2450</td> <td>\$81.34</td> <td>C 850B (Hypac/Hyster)</td> <td>3572K</td> <td></td>	CA 25A, CA 25D	2450	\$81.34	C 850B (Hypac/Hyster)	3572K	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CA 25PD	2455	\$84.26		3572N	
CA 30D2464\$87.05C 860B (Hypac/Hyster)3572T\$99.96CA 51S, CA 51D2466\$103.01INGERSOLL-RAND[I-R]ICA 55D2468\$105.88ModelCodeRateCA 151PDB2469\$75.81DD 223565\$40.20CC 10, cC 10 series II2470\$31.13DD 233570\$29.75CC 10A2472\$33.45DD 303573\$31.27CC 1022472C\$33.45DA 303573C\$32.75CC 122472E\$34.17DD 353573G\$32.75CC 142473\$49.20DA 403573G\$35.44CC 212474E\$56.17DA 413573G\$88.49CC 21 II2474C\$62.59DA 48\$57.41\$78.48CC 21 II2474C\$82.21DA 503574\$78.64CC 42 II Dynatronic2475\$88.21DA 503574\$61.66CC 50A2488\$100.94DF 543574C\$12.51CC 50A2488\$157.81DD 903574I\$12.83CC 50S2489\$14.96DD 1033574I\$12.55D0182499E\$15.35SPA 5638.80\$66.73D182499E\$15.35SPA 5638.10\$60.73D0V2499E\$15.35SPA 5638.80\$62.83D0182499E\$20.0\$9.48SP4 8D\$38.80\$62.83D0182499E\$15.35SPA 56<		2460	\$70.39	C 852B (Hypac/Hyster)	3572P	
CA 51S, CA 51D2466\$103.01INGERSUL-RAND[IR]CA 5SD2468\$105.88ModelCodeRateCA 151PDB2469\$75.81DD 223565\$40.20CC 10, CC 10 series II2470\$13.20DD 233570\$29.75CC 1022472C\$33.45DD 243572\$39.39CC 122472E\$34.17DD 353573C\$35.275CC 142473\$49.20DA 403573E\$56.14CC 2112474E\$54.19DA 413573G\$58.49CC 2112474C\$62.59DA 4HF3573H\$77.84CC 22112476\$81.15DA 503574\$68.64CC 2112476\$81.57DA 503574\$68.64CC 42 II Dynatronic2475\$82.21DA 503574A\$61.66CC 5002488\$157.81DD 653574A\$61.66CC 5002488\$157.81DD 903574I\$12.83DD 182498\$149.64DD 1003574I\$12.83DD 182498\$15.781DD 1453574J\$10.6922100V2499E\$15.35\$14.84\$60.53\$14.95SRCK[ESIK]SP 483880\$58.92ModelCodeRate\$74.84\$36.05VR 30RE2700\$9.42\$F483890\$62.83VR 30RE2700\$9.42\$F48\$892\$64.04V 30WR, V 30W2.R2902 <td></td> <td>2462</td> <td></td> <td></td> <td>35728</td> <td>\$91.17</td>		2462			35728	\$91.17
CA 55D 2468 S105.88 Model Code Rate CA 151PDB 2469 \$75.81 DD 22 3565 \$840.20 CC 10, CC 10 series II 2470 \$31.13 DD 23 3570 \$29.75 CC 10A 2472 \$27.02 DD 24 3572 \$39.39 CC 102 2472C \$33.45 DA 30 3573 \$31.17 CC 12 2472E \$34.17 DD 35 3573C \$32.75 CC 14 2473 \$49.20 DA 40 3573E \$56.14 CC 21 II 2474 \$51.07 DA 41 3573M \$77.83 CC 42 II Dynatronic 2475 \$82.21 DA 48 3573M \$77.83 CC 420 2476 \$81.15 DA 50 3574 \$78.64 CC 50 2482 \$88.94 DF 63 3574M \$86.42 CC 50A 2488 \$10.94 DF 84 3574M \$81.55 S00V 2499E \$16.14 DD 10		2464		C 860B (Hypac/Hyster)	3572T	\$99.69
CA 151PDB 2469 \$75.81 Model Code Rate CC 10, CC 10 series II 2470 \$31.13 DD 23 3570 \$29.75 CC 10A 2472 \$27.02 DD 24 3572 \$39.39 CC 102 2472C \$33.45 DA 30 3573 \$31.27 CC 12 2472E \$34.17 DD 35 3573C \$32.75 CC 14 2473 \$49.20 DA 40 3573E \$58.49 CC 21 2474 \$51.07 DA 40 3573G \$58.49 CC 21 II 2474C \$62.59 DA 48 3573M \$77.83 CC 42 II Dynatronic 2475 \$82.15 DA 50 3574 \$78.81 CC 500 2482 \$88.94 DD 65 3574M \$12.83 CC 507D 2488 \$10.94 3574C \$12.83 CC 507D 2489 \$14.94 DD 10 3574I \$12.69 DD 18 2499E \$16.14 DD 130 3574I		2466		INGERSOLL-RAND	[I-R]	
CA 151PDB 2469 $\$75.81$ DD 22 3565 $\$40.20$ CC 10, CC 10 series II 2470 $\$31.13$ DD 23 3570 $\$29.75$ CC 10A 2472 $\$27.02$ DD 24 3572 $\$33.39$ CC 102 2472E $\$33.47$ DA 30 3573 $\$31.27$ CC 12 2472E $\$34.17$ DA 30 3573 $\$32.75$ CC 14 2473 $\$49.20$ DA 40 $3573E$ $\$55.41$ CC 21 24748 $\$51.07$ DA 41 $3573G$ $\$58.49$ CC 21 II 24748 $\$51.07$ DA 44 $3573M$ $\$77.83$ CC 21 II 24746 $\$81.19$ DD 34HF $3573M$ $\$77.83$ CC 42 II Dynatronic 2475 $\$82.21$ DA 50 3574 $\$78.64$ CC 50 2488 $\$100.94$ DF 84 $3574M$ $\$12.83.64$ CC 50A 2488 $\$100.94$ DF 84 $3574M$ $\$12.83.66$ CC 50S 2489 $\$14.964$ DD 110 $3574H$ $\$12.83.66$				Model	Code	Rate
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CC 12 2472E 534.17 DD 35 3573C 532.75 CC 14 2473 \$49.20 DA 40 3573E \$56.14 CC 21 2474 \$51.07 DA 41 3573G \$58.49 CC 21 II 2474B \$54.19 DD 34HF 3573H \$58.49 CC 21 II 2474C \$62.59 DA 48 3573M \$77.83 CC 42 II Dynatronic 2475 \$82.21 DA 60 3574A \$61.06 CC 50 2482 \$88.94 DD 65 3574A \$128.36 CC 50A 2488 \$10.94 DS 84 3574C \$128.36 CC 50FD 2488E \$157.81 DD 90 3574F \$128.36 CC 50S 2489 \$149.64 DD 110 3574F \$93.80 DD 18 2498 \$12.41 DD 130 3574H \$124.59 300V 2499F \$16.14 DD 145 3574J \$106.92 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
CC 142473 $\$49,20$ DA 40 $\$573E$ $\$56.14$ CC 212474 $\$51.07$ DA 41 $\$573G$ $\$58.49$ CC 21 II2474B $\$54.19$ DD 34HF $\$573HF$ $\$48.49$ CC 2112474C $\$62.59$ DA 48 $\$573M$ $\$77.83$ CC 42 II Dynatronic2475 $\$82.21$ DA 50 $\$574A$ $\$61.06$ CC 42A2476 $\$81.15$ DD 65 $\$574B$ $\$128.36$ CC 502482 $\$8.94$ DF 84 $\$574B$ $\$128.36$ CC 50A2488 $\$100.94$ D8 84 $\$574C$ $\$125.10$ CC 50S2489 $\$149.64$ DD 90 $\$574B$ $\$84.66$ CC 50S2499 $\$149.64$ DD 100 $\$574F$ $\$93.80$ DD 182498 $\$12.41$ DD 130 $\$574J$ $\$93.80$ 300V2499E $\$16.14$ DD 145 $3574J$ $\$106.92$ 2100V2499H $\$15.35$ $\$P 48D$ $\$880$ $\$8.892$ ModelCodeRate $\$P 48DD$ $\$880$ $\$8.92$ ModelCode $\$249$ $\$24.06$ $\$F 48B$ 3892 $\$64.44$ V 30WR, V 30W2-R2902 $\$10.29$ $\$F 48B$ 3892 $\$64.37$ V 42RE2820 $$24.06$ $\$F 48B$ 3892 $$64.37$ V 42RE2820 $$24.06$ $\$F 48B$ 3892 $$64.37$ V 84RE2820 $$24.06$ $\$F 48B$ 3892 $$64.37$ V 842RE2820 $$24.06$ $\$F 48B$				DD 35		
CC 21 2474 \$51.07 DA 41 3573G \$58.49 CC 21 II 2474B \$54.19 DD 34HF 3573HF \$48.49 CC 211 2474C \$62.59 DA 48 3573M \$77.83 CC 42 II Dynatronic 2475 \$82.21 DA 50 3574 \$78.64 CC 42A 2476 \$81.15 DD 65 3574A \$61.06 CC 50 2482 \$88.94 DF 84 3573B \$128.36 CC 50A 2488 \$100.94 DS 84 3574C \$125.10 CC 50S 2489 \$149.64 DD 10 3574F \$93.80 DD 18 2498 \$12.41 DD 10 3574H \$124.59 300V 2499E \$16.14 DD 145 3574J \$106.92 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate SP 48D 3885 \$60.53 VR 30RE 2700 \$9.42 SPF 48B 3890 <				DA 40		\$56.14
CC 211 2474C \$62.59 DD 34HF 3573HF \$48.49 CC 211 2474C \$82.59 DA 48 3573M \$77.83 CC 42 II Dynatronic 2475 \$82.21 DA 50 3574 \$78.64 CC 42A 2476 \$81.15 DD 65 3574M \$61.06 CC 50 2482 \$88.94 DF 84 3574B \$128.36 CC 50A 2488 \$100.94 DF 84 3574C \$128.36 CC 50FD 2488E \$157.81 DD 90 3574D \$84.66 DD 18 24998 \$124.16 DD 100 3574F \$93.80 300V 2499H \$15.35 DD 145 3574J \$106.92 2100V 2499H \$15.35 SP 48 3800 \$58.92 Model Code Rate SP 48D 3880 \$58.92 VR 30RE 2700 \$9.42 SP 48B 3890 \$62.83 VR 42RE 2820 \$24.06 SP 48B 3892 \$64.04 V 30WR, V 30W2-R 2902 \$10.29 \$P 54D </th <td></td> <td></td> <td></td> <td>DA 41</td> <td></td> <td>\$58.49</td>				DA 41		\$58.49
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 3574M \$61.06 CC 50A 2488 \$10.94 DF 84 3574D \$128.36 CC 50A 2488 \$157.81 DD 90 3574D \$128.36 CC 50S 2489 \$12.41 DD 90 3574F \$93.80 DD 18 2498 \$12.41 DD 100 3574F \$93.80 300V 2499E \$16.14 DD 130 3574J \$124.59 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate SP 48D 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 \$P 54D 4000				DD 34HF	3573HF	\$48.49
CC 42A 2476 \$81.15 DA 50 3574 \$78.64 CC 50 2482 \$88.94 DD 65 3574A \$61.06 CC 50A 2482 \$88.94 DF 84 3574B \$128.36 CC 50A 2488 \$100.94 DS 84 3574C \$128.36 CC 50PD 2488E \$157.81 DD 90 3574D \$84.66 CC 50S 2489 \$149.64 DD 10 3574F \$93.80 DD 18 2498 \$12.41 DD 130 3574H \$124.59 300V 2499F \$16.14 DD 145 3574J \$106.92 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate 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 54D 4000				DA 48	3573M	\$77.83
CC 50 2482 88.94 DD 65 $3574A$ $$61.06$ CC 50A 2488 $$100.94$ DF 84 $3574B$ $$128.36$ CC 50PD $2488E$ $$157.81$ DD 90 $3574D$ $$84.66$ CC 50S 2489 $$149.64$ DD 10 $3574F$ $$93.80$ DD 18 $2498E$ $$12.41$ DD 130 $3574H$ $$124.59$ $300V$ $2499E$ $$16.14$ DD 145 $3574J$ $$106.92$ $2100V$ $2499H$ $$15.35$ SPA 56 3810 $$60.79$ ESSICK[ESIK]SP 48 3880 $$58.92$ $Model$ $Code$ RateSP 48DD 3880 $$58.92$ VR 30RE2700 $$9.42$ SPF 48 3890 $$62.83$ VR 42RE2820\$24.06SPF 48B 3892 \$64.04V 30WR, V 30W2-R2902\$10.29SP 54 4000 \$59.96SP 54DD 4005 \$61.97\$94.54 4010 \$60.85SP 54DD 4020 \$66.31\$96.31\$96.31	-			DA 50	3574	\$78.64
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 10 3574F \$93.80 300V 2499E \$16.14 DD 130 3574J \$124.59 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate 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 54DD 4005 \$61.97 SPA 54 4010 \$60.85 \$PF 48D \$PF 54 4020 \$66.31				DD 65	3574A	\$61.06
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 10 3574F \$93.80 300V 2499E \$16.14 DD 130 3574J \$124.59 2100V 2499H \$15.35 DD 145 3574J \$106.92 2100V 2499H \$15.35 SP 48 3880 \$58.92 Model Code Rate 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 \$94.54 4010 \$60.85 SP 54DD 4020 \$66.31 \$66.31 \$66.31				DF 84	3574B	\$128.36
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 3574J \$124.59 2100V 2499H \$15.35 DD 145 3574J \$106.92 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate 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 \$P 54 4000 \$59.96 SPA 54 4000 \$60.85 \$PF 54 4020 \$66.31				DS 84	3574C	\$125.10
DD 18 2498 \$12.41 DD 10 3574F \$93.80 300V 2499E \$16.14 DD 130 3574J \$124.59 2100V 2499H \$15.35 DD 145 3574J \$106.92 2100V 2499H \$15.35 SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate SP 48DD 3885 \$60.53 VR 30RE 2700 \$9.42 SPF 48B 3890 \$62.83 VR 42RE 2820 \$24.06 SPF 48B 3892 \$64.04 V 30WR, V 30W2-R 2902 \$10.29 SP 54DD 4000 \$59.96 SPA 54 A010 \$60.85 \$84.95 \$84.95 \$84.95 \$84.95 SPA 54 A010 \$60.85 \$87.54 4020 \$66.31				DD 90	3574D	\$84.66
300V $2499E$ $$16.14$ DD 130 $3574H$ $$124.59$ $2100V$ $2499H$ $$15.35$ DD 145 $3574J$ $$106.92$ $ESSICK$ $[ESIK]$ SP 80 $$60.79$ $Model$ $Code$ $Rate$ SP $8DD$ 3880 $$63.92$ $Model$ $Code$ $Rate$ SP $8DD$ 3880 $$60.53$ VR $30RE$ 2700 $$9.42$ SP $8P$ $8BD$ 3890 $$62.83$ VR $30WR$ 2902 $$10.29$ SP $48B$ 3892 $$64.04$ V $30WR$, V $30W2-R$ 2902 $$10.29$ SP 54 4000 $$59.96$ V $30WR$, V 4005 $$61.97$ SP $54DD$ 4005 $$61.97$ SP $54DD$ 4005 $$61.97$ $$SP$ $54DD$ 4000 $$59.96$ SP SP $54DD$ 4005 $$61.97$ SP SP $54DD$ 4005 $$61.97$ SP SP $54DD$ 4000 $$60.85$ SP 54 4000 $$60.85$ SP 54 4020 $$66.31$				DD 110	3574F	\$93.80
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				DD 130	3574Н	\$124.59
SPA 56 3810 \$60.79 ESSICK [ESIK] SP 48 3880 \$58.92 Model Code Rate 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 54DD 4000 \$59.96 SPA 54 4010 \$60.85 SPF 54 4020 \$66.31				DD 145	3574J	\$106.92
Model Code Rate 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 SP 54DD 4005 \$61.97 SPA 54 4010 \$60.85 SPF 54 4020 \$66.31			\$15.55	SPA 56	3810	\$60.79
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 SP 54DD 4005 \$61.97 SPA 54 SPF 54 4010 \$60.85 SPF 54 4020 \$66.31	ESSICK	[ESIK]		SP 48	3880	\$58.92
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 SP 54DD 4005 \$61.97 SPA 54 4010 \$60.85 SPF 54 4020 \$66.31	Model	Code	Rate	SP 48DD	3885	\$60.53
V 30WR, V 30W2-R 2902 \$10.29 SP 54 4000 \$59.96 SP 54DD SP 54DD 4005 \$61.97 SPA 54 SP 54 4010 \$60.85 SP 54D SP 54 4020 \$66.31	VR 30RE	2700	\$9.42	SPF 48	3890	\$62.83
SP 54DD4005\$61.97SPA 544010\$60.85SPF 544020\$66.31	VR 42RE	2820	\$24.06	SPF 48B	3892	\$64.04
SPA 544010\$60.85SPF 544020\$66.31	V 30WR, V 30W2-R	2902	\$10.29	SP 54	4000	\$59.96
SPF 54 4020 \$66.31					4005	\$61.97
				SPA 54	4010	\$60.85
				SPF 54	4020	\$66.31
SP 56 4030 \$70.22				SP 56	4030	\$70.22

SP 56DD	4035	\$73.11	RAYGO	[RAGO]	
SP 56DH	4037	\$98.96	Model	Code	Rate
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	5235 5236	\$88.50
SD 40F w/ blade	4138FB	\$55.56	4404 RUSTLER	5236E	\$32.93
SD 70	4139	\$61.93			\$52.75
SD 100	4140	\$78.97	RAMMAX	[RAMX]	
SD 100D	4140D	\$95.41	Model	Code	Rate
SD 100F	4140F	\$95.96	P 33/24	4605	\$18.71
SD 115D	4141D	\$118.11	P 33/24 w/ remote	4606	\$18.00
SD 150D	4143D	\$127.27	P 51	4625	\$71.55
KOEHRING-BOMAG	[KOBO]		S 51	4630	\$37.21
Model	Code	Rate	P 47	5290	\$36.11
BW 120AC	4168E	\$33.76	SAKAI	[SAKI]	
BW 120AD	4169	\$34.25	Model	Code	Rate
BW 121AD	4193	\$30.75	SV 70	8025	\$56.72
BW 130AD	4193E	\$36.07	SV 70D	8026	\$59.07
BW 140AD	4194	\$56.04	SV 91	8050	\$84.84
BW 141AC	4194B	\$55.40	SV 91D	8051	\$86.81
BW 141AD	4194E	\$50.42	SV 200D	8060	\$43.08
BW 142D	4194H	\$38.44			<i>Q</i> .0100
BW 172	4212	\$47.66	ТАМРО	[TAMP]	
BW 172D	4212E	\$50.22	Model	Code	Rate
BW 213D	4237	\$79.40	RP 16D (HD)	5990	\$54.12
BW 214D	4238	\$97.53	RP 28D	5995	\$72.22
BW 215D	4240	\$96.08	RP 48D	6110	\$93.79
BW 217D	4242	\$120.91	RP 58D	6115	\$86.18
BW 220D	4250	\$90.31	RS 16 (HD)	6170	\$51.24
			RS16A (HD)	6180	\$53.20
MIKASA	[MIKA]		RS 16D (HD)	6185	\$53.70
Model	Code	Rate	RS 28C	6315	\$68.10
MDR 7DW	4404	\$8.36	RS 28D	6320	\$69.33
MDR 9G	4405	\$12.01	RS 58D	6327	\$84.71
MDR T38S	4407	\$8.50	RS 156A	6340	\$56.70
	4407				
MRV 10GA	4407 4409	\$13.54	RS 166A	6350	\$74.47
MRV 10GA			RS 166A RS 188A RS 210		\$74.47 \$94.82

WACKER [WACK] Model Code Rate R 900 7850 \$20.93 \$33.59 R 1000 7855 W 55T 7860 \$10.65 W 74L, W 74T 7880 \$10.52 W 74 \$10.19 7890 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

DELAY FACTOR = 0.19 OVERTIME FACTOR = 0.84

[S&CCL]

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]	
Model	Code	Rate
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]	
Model	Code	Rate
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
Р&Н	[P&H]	
Model	Code	Rate
535	7716	\$108.92
550	7748	\$114.96
670 WLC	7892	\$134.65

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]	
Model	Code	Rate
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]	
Model	Code	Rate
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
Р&Н	[P&H]	
Model	Code	Rate
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
SANDI ASTINC FOLIDA	IENT	L CANDE 1

SANBLASTING EQUIPMENT

[SANBL]

DELAY FACTOR = 0.52 OVE

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 CON	FROL ONLY	[REMC]	
OVER	TO	Code	Rate
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

SAWS, CHAIN AND EARTH AUGER [SAWCH] ATTACHMENT

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		[SAW]	
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 [ABOP]

OPERATION

depth

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.UNITSCodeRateRate /blade/ 30.5 m (100 lin ft) / 25 mm100'/IN\$18.00
(inch) depthRate/blade/ 0.3 m (lin ft) / 25 mm (inch)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 cushion hitch	1680	\$164.76
623B	1700	\$170.01
623E	1702	\$201.82
623F	1703	\$211.56
627B push pull	1770	\$218.17

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
4210		¢1.00.00

431B

433B

\$162.28

\$236.41

5637

5643

TEREX	[TERX]	
Model	Code	Rate
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	[WAB]	
Model	Code	Rate
101F	8570	\$76.24
101G	8575	\$77.25
111A	8640	\$72.62
222G	8700	\$142.44
222H	8704	\$161.24
TRACTORS, CRAWL	ER	[TRACC]

DELAY FACTOR = 0.15 OVERTIN

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.

elsewhere in this schedule.			D-6D	3720
CASE	[CASE]		D-6D SA	3725
Model	Code	Rate	D-6D LGP	3730
350	1820	\$30.50	D-6H	3732
350B	1825	\$32.49	D-6H Series II	3733
450	1868	\$26.44	D-6H LGP	3735
450B	1869	\$30.16	D-6M LGP	3745
450C	1869E	\$33.98	D-6N XL	3755
475	1870	\$43.99	D-6R DS	3800
550	2000	\$35.53	D-6R XL	3815
650	2100	\$41.95	D-7G	4180
850	2128	\$35.65	D-7G LGP	4200
850B	2130	\$38.61	D-7G SA	4210
850C	2135	\$42.33	D-7H	4215
850D	2140	\$44.74	D-7H Series II	4216
1150B	2250	\$53.47	D-7H LGP	4220
1150C	2255	\$58.86	D-8K	4858
1150D	2257	\$60.61	D-8L	4862
1150E	2258	\$62.80	D-8L SA	4863
CATERPILLAR	[CAT]		D-8N	4864
		Pata	D-8R	4870
Model	Code	Rate	D-9H	5160
D-3	2340	\$30.96	D-9L	5165
D-3B	2345	\$34.29	D-9N	5170
D-3 LGP	2350	\$31.58	D-9R	5175
D-3B LGP	2355	\$35.50	D-10	5220
D-3B SA	2370	\$38.24	D-10N	5225
D-3C	2380	\$36.41	D-10R	5227
D4C Series III	2450	\$46.68	D-11N	5230
D-4D	2655	\$37.33	D8T	D8T

D-4E direct drive

D-4E power shift

D-4H

D-4H LGP

D-4E SA

D-4G XL

D-5B SA

D-5B LGP

D-5H Series II

D-6C direct drive

D-6C power shift

D-5H LGP

D-6C LGP

D-5C

D-5H

D-5

D-4H Series II

D-4E LGP power shift

D-4E LGP direct drive

D-5B power shift

\$39.29

\$40.54

\$51.14

\$51.05

\$52.31

\$47.45

\$40.73

\$40.73

\$47.45

\$53.70

\$56.87

\$61.92

\$59.45

\$50.65

\$67.98

\$71.82

\$70.91

\$69.59

\$70.20

\$72.63

\$80.58 \$90.41 \$81.01 \$91.58 \$96.03 \$95.97 \$89.31 \$92.02 \$101.64 \$106.73 \$121.43 \$117.38 \$128.81 \$125.37 \$134.48 \$131.61 \$160.78 \$193.39 \$208.94 \$173.71 \$191.18 \$213.99 \$256.45 \$219.63 \$257.30 \$393.25 \$317.82 \$354.89 \$495.53 \$236.74

2660

2665

2670

2675

2680

2772

2780

2782

2790XL

3194

3206

3325

3345

3346

3347

3348

3350

3645

3688

3710

JOHN DEERE	[DEER]		31	6061	\$228.20
Model	Code	Rate	FD 40	6061E	\$260.81
JD 350C	5360	\$33.94	KOMATSU	[KOMA]	
JD 350D	5365	\$38.03	Model	Code	Rate
JD 400G	5405	\$32.16	D 21P-6	7965	\$37.08
JD 450C	5474	\$34.32	D 31A-16	7970	\$32.48
JD 450D	5476	\$35.63	D 31A-17	7972	\$35.69
JD 450E	5478	\$36.17	D 31E-17	7976	\$37.18
JD 450G	5479	\$39.23	D 31E-18	7977	\$39.50
JD 450J LT/LGP	5479J	\$48.08	D 31P-16	7980	\$32.86
JD 550	5480	\$38.75	D 31P-17	7981	\$36.40
JD 550A	5481	\$41.99	D 31P-17B	7981E	\$38.17
JD 550B	5483	\$40.77	D 58E-1	8003	\$72.22
JD 550G	5484	\$45.75	D 58P-1	8003H	\$79.93
JD 650G	5484A	\$51.20	D 65E-6	8070	\$83.35
JD 650H LGP	5484H	\$54.98	D 65E-7, E-8	8072	\$92.98
JD 750	5485	\$60.63	D 65P-6	8080	\$86.00
JD 750B	5486	\$66.50	D 65P-7 / D 65P-8	8082	\$96.35
JD 750 LGP	5487	\$63.47	D 68P-1	8083	\$106.20
JD 750B LGP	5488	\$80.85	D 68E-1	8085	\$101.17
JD 850	5490	\$79.28	D 83E-1	8087	\$123.63
JD 850B	5491	\$91.36	D 83P-1	8088	\$124.97
JD 850 LGP	5492	\$83.87	D 85P-18	8090	\$133.33
JD 850B LGP	5495	\$98.33	D 85A-18	8114	\$116.52
DRESSER	[DRES]		D 85E-12	8120	\$102.14
Model	Code	Rate	D 85E-18	8140	\$126.54
TD 7E	<u>9100</u>	\$35.30	D 135A-1	8150	\$162.68
TD 7G	9100 9102	\$39.24	D 155A-1	8160	\$188.11
TD 8E	9102 9105	\$43.06	D 155A-2	8161	\$187.71
TD 8G	9107	\$46.31	D 375A-1	8175	\$298.72
TD 12	9110	\$61.97	D 375A-2	8176	\$332.17
TD 12 LGP	9115	\$70.78	D 455A-1	8180	\$366.43
TD 15C	9120	\$87.41	D 475A-2	8186	\$519.84
TD 15E	9122	\$106.31	TRACTORS, H	EAVY	[TRACH]
TD 15C LGP	9125	\$84.63	,		,
TD 20E	9130	\$117.11	DELAY FACTOR = 0.15	OVERTIME FA	CTOR = 0.86
TD 20G	9135	\$142.31	Includes all attachments and accessor		
TD 20G LGP	9137	\$149.71	units and push blocks, when needed, ripper units listed elsewhere in this sc		noe, winch or
TD 25E	9139	\$166.76			
TD 25G	9140	\$207.08	CATERPILLAR	[CAT]	
FIAT-ALLIS	[F-A]		Model	Code	Rate
		D (814	1400	\$110.70
Model	Code	Rate	814B	1410	\$162.70
10C	6043	\$68.73	824B	1720	\$179.33
10C LGP	6044	\$69.59	824C	1730	\$219.27
14C	6048	\$86.66	834B	2010	\$330.98
FD 20	6056	\$124.39			
21C	6060	\$143.63			
FD 30	6060E	\$168.09			

TRACTORS, RUBBER TIRE, **INDUSTRIAL, FARM & SKID STEER**

DELAY FACTOR = 0.12

OVERTIME FACTOR = 0.89

[TRACS]

37.3 kW (50 HP) OR LESS	[<50]	
Including, but not limited to the following Bobcat440B, 443B, 450, 453, 542B, 543 753, 763, 773, 1840, 7753 Case 1818, 1825, 1835C, 1838 Deere 3375, 4475, 5200, 5575, 6675, 77 Ford L250, L454, L455, L553, L555, L7 Gehl SL3310, SL3410, SL3725, SL3822 Hydra-Mac 1300, 1600, 1700D JCB 165Robot, 165Robot Ser II Massey-Ferguson MF30E Mahto LS70, LS75, L933 Mustang 920, 920E, 921, 930A, 930AE 2040 New Holland 1220, 1320, 1620, 1920, 2 L255, L465, LX465, LX485, L565, LX56 Ramrod 230B, 300B, 584B, 784B, 550, Thomas T-82, T-83, T-83S, T-103, T-13 Trak 1300HD, 1300C, 1300CX, 1500C	3B, 5 775 781 5, SL , 940 2120, 25, L 750,	,4525, 0,940E , 3415, X665 , 1350,	SL4625 E, 910, 9 3930, L , 1550	11,
Model		Cod	le	Rate
with loader or dozer		Α		\$27.25
auger, w/ or w/o loader or dozer		B		\$27.70
backhoe, w/ or w/o loader or dozer		С		\$29.34
OVER 37.3 kW (50 HP)	[>50]	
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD	g: 375 7740, S II,	. 7840,	8240, 8	340,
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD Trak 1700HD, 1700C, 1700CX, 1700X	g: 375 7740, S II,	, 7840, T-203	8240, 8. 8HD, T-	
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD Trak 1700HD, 1700C, 1700CX, 1700X	g: 375 7740, S II,	. 7840, T-203 <u>Cod</u>	8240, 8. 8HD, T-	Rate
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD Trak 1700HD, 1700C, 1700CX, 1700XI <u>Model</u> with loader or dozer	g: 375 7740, S II,	, 7840, T-203 <u>Cod</u> A	8240, 8. 8HD, T-	<u>Rate</u> \$36.50
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD Trak 1700HD, 1700C, 1700CX, 1700XI <u>Model</u> with loader or dozer auger, w/ or w/o loader or dozer	g: 375 7740, S II,	, 7840, T-203 <u>Cod</u> A B	8240, 8 8HD, T- <u>le</u>	<u>Rate</u> \$36.50 \$37.06
Including, but not limited to the following Bobcat 853, 863, 873, 943, 953, 980 Case 1845C Deere 5300, 5400, 6200, 6300, 6400, 88 Ford L783, L785, 250C, 260C Gehl SL5625, SL6625, SL6635 Hydra-Mac 1850, 2650, 2650D JCB 185Robot Massey-Ferguson MF40E, MF50EX Mustang 960, 2060 New Holland 4630, 5030, 5640, 6640, 7 L865, LX865, LX885, 345D, 545D Ramrod 1750, 1950 Thomas T-173HL, T-173HLS, T173HL 233HD Trak 1700HD, 1700C, 1700CX, 1700XI <u>Model</u> with loader or dozer	g: 375 7740, S II,	, 7840, T-203 <u>Cod</u> A	8240, 8 8HD, T- <u>le</u>	<u>Rate</u> \$36.50

(HOURLY RATES)

DELAY FACTOR = 0.36

OVERTIME FACTOR = 0.68

CHANGEABLE MESSAGE SIGN	[CMSN]	
Model	Code	Rate
Generator	GEN1	\$14.99
Generator w/ cell remote	GEN2	\$16.36
Solar	SOL1	\$10.51
Solar w/ cell remote	SOL2	\$11.87

FLASHING ARROW SIGN [FLAS]

Including supplies, replacements and servicing.

Model	Code	Rate
Roof mounted	RM	\$0.93
Trailer mounted	TM	\$3.47

TRAFFIC CONTROL & SAFETY DEVICES [TRAFC] (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.)

Model	Code	Rate
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 in	voice.	
Model	Code	Rate
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 1	00 E100	\$41.32
(3) PORTABLE DELINEATOR	[3DEL]	
Lost or destroyed are no longer paid on in	voice.	
Model	Code	Rate
per 100	100	\$26.31
(4) ILLUMINATED SIGNS	[4SIG]	
Model	Code	Rate
incl 900 mm x900 mm (3'x3') sign & batteries	12V	\$6.43
(5) FLASHING BEACON	[5BEA]	
Model	Code	Rate
portable 12 volt	12V	\$6.57
(6) FLAG/SIGN STAND	[6FSS]	
Model	Code	Rate
incl sign, stand & 3 flags	EACH	\$2.97
(7) DELINEATOR DRUM	[7DDR]	
Model	Code	Rate
Del. drum w/ base per 100	100	\$65.54

0 1.8 (2) 18(2)36 (1)

TO

DELAY FACTOR = 0.43

TILT BED 1 AXLE

OVER

1.8 (2)	3.6 (4)	02-04	\$0.88
TILT BED 2	AXLES	[TB-2]	
OVER	TO	Code	Rate
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

Rancho Mission Canyon Storm Drain Replacement

Exhibit L - Contractor's Compensation Rate Schedule

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.

Rate
\$15.46
\$19.49
Rate
\$20.76
\$24.06
Rate
\$33.29
\$41.31
Rate
\$66.18

TRAILERS, EQUIPMENT, TILT BED [TRAIT]

OVERTIME FACTOR = 0.62

[**TB-1**]

Code

00-02

Rate

\$0.82

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

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]	
Model	Code	Rate
T 116	2000	\$13.02
Т 135	2010	\$30.04
T 136	2020	\$30.37
T 208	2030	\$6.74
3022	2040	\$30.82
CASE	[CASE]	
Model	Code	Rate
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]	
Model	Code	Rate
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

5650	\$16.72
5660	\$25.26
5662	\$26.57
5670	\$28.76
5675	\$29.63
5676	\$33.90
5677	\$43.49
5678	\$33.71
5679	\$33.82
5680	\$40.28
5685	\$43.38
[MDMK]	
Code	Rate
7945	\$25.03
7950	\$26.30
7955	\$31.97
7960	\$40.20
[VERM]	
Code	Rate
8350	\$88.06
8380	\$16.68
8480	\$39.19
8570	\$41.42
8571	\$46.99
8580	\$45.26
8585	\$73.49
8718	\$25.84
8781	\$56.17
8842	\$80.98
8843	\$136.31
8870	\$129.70
8871	\$141.57
8875	\$252.30
8950	\$29.48
8951	\$33.12
9000	\$28.43
9015	\$31.49
9017	\$37.21
9020	\$32.33
9025	\$15.58
	5660 5662 5670 5675 5676 5677 5678 5679 5680 5685 [MDMK] <u>Code</u> 7945 7950 7955 7960 [VERM] <u>Code</u> 8350 8380 8480 8570 8350 8380 8480 8571 8570 8571 8580 8571 8571 8570 8571 8571 8571 8571 8571 8571 8571 8571

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

DELAY FACTOR = 0.12

OVERTIME FACTOR = 0.89

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.

TRUCKS	[T&TT]	
OVER TO	Code	Rate
CARS , LIGHT TRUCKS	00-06	\$27.42
3175 (7000) 5443 (12000) No small pickups	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	60	\$79.48

TRUCKS, OFF-HIGHWAY

[TRUOF]

DELAY FACTOR = 0.22

OVERTIME FACTOR = 0.80

[**TRU**]

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.

TRUCK OFF-HIGHWAY

OVER	TO	Code	Rate
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

[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]	
Model	Code	Rate
2 axles	2AXL	\$54.69
3 axles	3AXL	\$71.55
4 axles	4AXL	\$80.63
5 axles	5AXL	\$90.06

WELDING EQUIPMENT

DELAY FACTOR = 0.20

OVERTIME FACTOR = 0.83

ARC WELDING MACHINES [AWM]

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

OVER	TO	Code	Rate
0	250	0-250	\$6.13
250	500	250-500	\$11.85
over	500	500	\$12.27

GAS WELDING OUTFIT [GWO]

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

Model	Code	Rate
ALL	ALL	\$0.29



RANGE OF HOURLY RATES:

Applicable to Rancho Mission Canyon Emergency Storm Drain Project for the City of San Diego

Effective January 1, 2020 - December 31, 2020

ENGINEERING SERVICES

HOURLY RATE

Project Directors	\$280
Project Managers	\$235
Project Engineers	\$180
Senior Technical Support	\$175
Technical Support	\$145
Administration	\$110

Notes: Rates are subject to adjustment due to promotions during the effective period of this schedule. A new rate schedule will become effective January 1, 2020 and on the 1st of January every year thereafter. Unless otherwise indicated in the cost proposal, hourly rates include most direct costs such as travel, equipment, computers, communications and reproduction (except large quantities such as construction documents for bidding purposes).

All subconsultant charges are subject to a 10% markup.

EXHIBIT M

LOCATION MAP





Rancho Mission Canyon S/D Emergency Replacement

SENIOR ENGINEERPROJJong ChoiJeff C619-533-5493619-1

PROJECT MANAGER Jeff Cramoline 619-533-3156

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



COMMUNITY NAME: SAN CARLOS

Existing Storm Drain

Date: March 17, 2020 Rancho Mission Canyon Storm Drain Replacement

Area of Work

COUNCIL DISTRICT: 7

WBS NO: B-20124

SanGIS

Exhibit M - Location Map

120 | Page

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: 0.14(ACRES)
 - b. HYDROLOGIC UNIT/WATERSHED: San Diego / San Diego River
 - c. HYDROLOGIC SUBAREA NAME & NO: Mission San Diego No 907.11
 - 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.
CONSTUCTION SITE PRIORITY

 \Box ASBS \Box HIGH \Box MEDIUM \boxtimes 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

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. <u>All AMI devices shall be protected per Section 402-2, "Protection", of the 2018</u> <u>Whitebook.</u>

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

A. Endpoints, see Photo 1:



Photo 1

B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:



Photo 2

Network Devices, see Photo 3:





AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:



Photo 4

The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.



Photo 5

Photo 6 below is an example of disturbance that shall be avoided:



Photo 6

You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:



Photo 7

Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8



Network Device

Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

EXHIBIT P

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#:





Item #	Item Description		Contract Authorization			Previo	vious Totals To Date This Estimate Totals to Date								
	Rom Bosonption	Unit	Price	Qty		rtension	%/QTY			% / QTY	Amou		% / QTY		mount
1					\$	-		\$			\$	-	0.00	\$	-
2					\$	-		\$			\$	-	0.00%	\$	-
3					\$	-		\$	-		\$	-	0.00%	\$	-
4					\$	-		\$	-		\$	-	0.00%	\$	-
5					\$	-		\$	-		\$	-	0.00%	\$	-
6					\$	-		\$	-		\$	-	0.00%	\$	-
7					\$	-		\$	-		\$	-	0.00%	\$	-
8					\$	-		\$	-		\$	-	0.00%	\$	-
5					\$	-		\$	-		\$	-	0.00%	\$	-
6					\$			\$	-		\$	-	0.00%	\$	-
7					\$			\$	-		\$	-	0.00%	\$	-
8					\$			\$	-		\$	-	0.00%	\$	-
9					\$	-	· ·	\$	-		\$	-	0.00%	\$	-
10					\$	-		\$	-		\$	-	0.00%	\$	-
11					\$			\$	-		\$	-	0.00%	\$	-
12					\$	-		\$	-		\$	-	0.00%	\$	-
13					\$	-		\$	-		\$	-	0.00%	\$	-
14					\$	-		\$	-		\$	-	0.00%	\$	-
15					\$	-		\$	-		\$	-	0.00%	\$	-
16					\$	-		\$	-		\$	-	0.00%	\$	-
17	Field Orders				\$	-		\$	-		\$	-	0.00%	\$	-
					\$	-		\$	-		\$	-	0.00%	\$	-
<u>(</u>	CHANGE ORDER No.				\$	-		\$	-		\$	-	0.00%	\$	-
-		- + <i>(</i> ! -			\$	-		\$	-		\$	-	0.00%	\$	-
L	Total Authorized Amou	nt (incil	loing approved cha	nge Order))\$	-	l	\$	-		\$	-	Total Billed	\$	-
	SUMMARY			·				ก	-		_				
	A. Original Contract Amount		\$ -	I certify that the materia			Retention and/or Escrow Payment Schedule								
E	3. Approved Change Order #00 Thru #00		\$ -	have been received by me		e in	Total Retention Required as of this billing (Item E))		\$0.00	
(C. Total Authorized Amount (A+B)		\$ -	the quality and quantity spe		cified	Previous Retention Withheld in PO or in Escrow					1		\$0.00	
ī	D. Total Billed to Date		s -				Add'I Amt to Withhold in PO/Transfer in Escrow:							\$0.00	
F	E. Less Total Retention (5% of D)		\$ -	Resident Engineer			Amt to Release to Contractor from PO/Escrow:								
	Less Total Previous Payments		\$ -	-								,	•		
Ľ	G. Payment Due Less Retention		<u>۔</u> \$0.00		Construe	tion Engineer									
		-			construc	tion Engineer									
ŀ	H. Remaining Authorized Amount		\$0.00					Contra	ctor Signature	and Dat	e:				

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

EXHIBIT Q

PHASED FUNDING PROVISIONS
PHASED FUNDING PROVISIONS

1. PRE-AWARD

- **1.1.** Within 10 Working Days of the Notice of Intent to Award, the Contractor must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:
 - **1.1.1.** Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 7-3, "PAYMENT.
- **1.2.** Contractor's failure to perform any of the following may result cancelling the award of the Contract:
 - **1.2.1.** Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
 - **1.2.2.** Agreeing to a Phased Funding Schedule within **thirty** days of meeting with the City's Project Manager.

2. POST-AWARD

- **2.1.** Do not start any construction activities for the next phase until the Notice to Proceed (NTP) has been issued by the City. The City will issue a separate NTP for each phase.
- **2.2.** The City may issue the NTP for a subsequent phase before the completion of the preceding phase.

PHASED FUNDING SCHEDULE AGREEMENT

The particulars left blank below, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

BID NUMBER: K-21-1955-EMR-3

CONTRACT OR TASK TITLE: Rancho Mission Canyon Storm Drain Replacement

CONTRACTOR: Orion Construction Corporation

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to- Exceed Amount
1	Work to be completed in Phase 1 shall include bonds, permits, WPCP Development, engineering design development of plans through final stamped signed plans. Work will also include replacement of 150 LF of 36-inch CMP storm drain with 36-inch RCP, and installation a new inlet and outfall system. Slope to be restored to original grade. Preparation of as-builts record drawings after construction.	NTP	August 31,2020	\$800,000.00
2	Work to be completed in Phase 2 shall include design and implementation of revegetation plan, plant establishment period, and 25-month long- term monitoring and maintenance	September 1, 2020	June 30, 2023	\$400,000.00
	\$1,200,000.00			

Notes:

1) WHITEBOOK section 7-3.10, "Phased Funding Compensation" applies.

- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO

PRINT NAME		dsux
	Construction Sen	ior Engineer
Signature:	NC	Q
Date:	10/0/20	

PRINT NAME:	Jong Choi		
	Design	Senior	Engineer

1. Signature:

Date: 10/6/20

CONTRACTOR

PRINT NAME: Richard Dowsing

Title: Orion Construction Corporation President

Signature: Flores

Rancho Mission Canyon Storm Drain Replacement Exhibit Q - Phased Funding Provisions (Rev. Feb. 2020)

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 \underline{San} eqObefore me, <u>Richard Gregory Newhall</u> (insert name and title of the officer) Dowsing - President personally appeared 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. RICHARD GREGORY NEWHALL WITNESS my hand and official seal. Notary Public - California San Diego County Commission # 2240582 My Comm. Expires Apr 30, 2022 Signature 4 (Seal)

LONG-TERM MAINTENANCE AND MONITORING AGREEMENT

This **25-Month Long-Term Maintenance and Monitoring Agreement (LTMMA)** is made and entered into by and between the City of San Diego (City), a municipal corporation, and **Orion Construction Corporation** - TO BE IDENTIFIED AFTER AWARD (Contractor), who may be individually or collectively referred to herein as a "Party" or the "Parties."

RECITALS

- A. Concurrent with execution of this LTMMA, the Parties entered into a general contract (Construction Contract) for the construction of **Rancho Mission Canyon Storm Drain Replacement**, WBS number **B-20124**, Bid No. **K-21-1955-EMR-3**.
- **B.** In accordance with the Construction Contract, the Contractor shall enter into this LTMMA with the City for the purpose of implementing and fulfilling long-term maintenance requirements in accordance with the City of San Diego Municipal Code and the Contract Documents for the specified elopement(s) of **Rancho Mission Canyon Storm Drain Replacement** (Maintenance Requirements).
- **C.** The Contractor is ready and willing to fulfill its maintenance requirements in accordance with the terms of this LTMMA.

NOW, THEREFORE, 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:

INTRODUCTORY PROVISIONS

- **A. Recitals Incorporated.** The above referenced Recitals are true and correct and are incorporated into this LTMMA by this reference.
- **B. Exhibits Incorporated.** All Exhibits and Attachments referenced in this LTMMA are incorporated into this LTMMA by this reference.
- Contract Term. This LTMMA shall be effective upon completion of the Plant Establishment Period (PEP) as described in Section 6-1.1 of Exhibit J Supplementary Special Provisions and Section 802 of the 2018 GREENBOOK AND WHITEBOOK and it shall be effective until the completion of the Work as described below.
- D. Terms and Conditions. This LTMMA is subject to the terms and conditions of the Construction Contract included in the 2018 GREENBOOK, WHITEBOOK, and Special Provisions (Part 0, Part 1, and Part 8) except as otherwise stated in this LTMMA.

E. Partial Release of Payment Bond and Performance Bond.

a. **Performance of Contract in Two Phases.** There are two separate phases of Work to be performed by the Contractor under this Contract. The first phase covers the Work involved in the original agreement as described in this agreement ("Phase 1 Work"). The second phase covers the work involved in the long-term maintenance of the Re-vegetation/Restoration Area after Phase 1 Work has been completed ("Phase 2 Work").

- **b. Bond Handling for Contract Phases.** The Payment Bond and the Performance Bond covering Phase 1 Work on this Contract shall remain in full force and effort until completion of that phase is certified. The original Payment Bond and the original Performance Bond covering Phase 1 Work on this Contract shall continue in full force and effort for Phase 2 Work, however the value of each bond may be reduced as follows:
 - Completion by the Contractor of all Phase 1 Work shall be evidenced solely by the City Engineer affirming in writing that to the best of their knowledge that all Phase 1 Work has been completed by the Contractor in strict conformity with all City-approved plans and revisions, and that the Phase 1 Work completed by the Contractor meets all applicable standards ("Notice of Completion").
 - Upon issuance by the City Engineer of the Notice of Completion for Phase 1 Work, the Payment Bond for this Project, and the Performance Bond for this Project, may be partially released, and thereby reduced for the Work performed under Phase1. The remaining payment and performance bond will cover the full cost of Phase 2 Work on this Project, which will be the amount specified in "Section 4: COMPENSATION" in Section 4.1 of this LTMMA.
- c. No Partial Release Upon Default. No Partial Performance Bond Release and Reduction shall be given to the Contractor if the Performance Bond and/or this Agreement is in default on Phase 1 Work.

SECTION 1 - MAINTENANCE CONTRACT SUMMARY

1.1. General. The Contractor shall fulfill the Project's Maintenance Requirements (Work) as identified in the scope of work attached as **Exhibit A** in a manner satisfactory to the City.

The Contractor shall provide all equipment, labor, and materials necessary to perform the **Work** as described in **Exhibit A**, at the direction of the City.

1.2. Schedule of Work. The Contractor shall follow the Schedule of Work (Schedule) for the maintenance and monitoring period provided in the Plans.

After receiving notification from the City, the Contractor shall create a comprehensive Schedule of Work (Schedule) for performance of this LTMMA for the City's approval. The Schedule shall include routine work, inspection, and infrequent operations such as repairs, fertilization, aerification, watering, and pruning.

The City will approve the Schedule prior to the commencement of the Work. The City may require the Contractor to revise the Schedule. The Contractor shall not revise the Schedule unless the revisions have received the prior written approval of the City.

- **1.3. Commencement of Work & Maintenance Period.** This LTMMA shall commence when the City approves of the Work of the Plant Establishment Period and sends notice of the approval to the Contractor in accordance with **Part 8, Section 802** of the Construction Contract and shall continue for **25** months. A copy of the approval form is attached as **Exhibit B**.
- **1.4.** License. The Contractor shall hold the following licenses in good standing:
 - **1.4.1.** C-27 State Contractor's License.
 - **1.4.1.1.** Alternatively, the Contractor shall retain the services of a Subcontractor with a **C-27** State Contractor's License.

- 1.4.2. Pest Control Advisor's License.
 - **1.4.2.1.** Alternatively, the Contractor shall retain the services of a licensed Pest Control Advisor.
- 1.4.3. Registration with the County Agriculture Commission.
- **1.4.4.** Qualified Applicator's Certificate for Category B. This shall apply to any person supervising the use of pesticides, herbicides, or rodenticides.
- 1.4.5. City of San Diego Business License.

Prior to performing the Work, the Contractor shall complete and submit to the City the License Data Sheet. See Exhibit C.

1.5. Hours of Performance. The Contractor shall perform the Work between the hours of 6:00 a.m. and 6:00 p.m., Monday through Friday (Working Hours). The City may, in its sole discretion, grant permission to the Contractor to perform Work during non-Working Hours. Maintenance functions that generate excess noise (operations of power equipment which would cause annoyance to area residents for example) shall not begin before 7:00 a.m.

SECTION 2 - ADMINISTRATION

- 2.1. Contract Administrator. PUBLIC WORKS CONTRACTING (PWC) is the Contract Administrator for the LTMMA. The Contractor shall perform the Work under the direction of a designated representative of the Engineering and Capital Projects Department. The City will communicate with the Contractor on all matters related to the administration of this LTMMA and the Contractor's performance of the Work rendered hereunder. When this LTMMA refers to communications to or with the City, those communications shall be with the City, unless the City or this LTMMA specifies otherwise. Further, when this LTMMA requires an act or approval by City, that act or approval will be performed by the City.
- **2.2.** Local Office. The Contractor shall maintain a local office with a company representative who is authorized to discuss matters pertaining to this LTMMA with the City and shall promptly respond and be available during Normal Working Hours. A local office is one located in San Diego County that can be reached by telephone and facsimile. An answering service in conjunction with a company email address for the designated company representative may fulfill this requirement. A mobile telephone shall not fulfill the requirement for a local office. All calls to the Contractor from the City shall be returned within a 1-hour period.
- **2.3. Emergency Calls.** The Contractor shall have the capability to receive and to respond immediately to calls of an emergency nature. The City shall refer emergency calls to the Contractor for immediate disposition. The Contractor shall provide the City with a 24-hour emergency telephone number for this purpose.
- **2.4. Staffing.** The Contractor shall furnish supervisory and working personnel capable of promptly accomplishing all Work required under this LTMMA on schedule and to the satisfaction of the City.
- **2.5. Contractor Inspections.** The Contractor shall perform inspections of the Work site and shall prepare and submit to the City a Punchlist and dates of correction. The Punchlist shall include a comprehensive report of Work performed at the Work site to ensure 100% cover.

SETION 3: WORK SITE MAINTENANCE

3.1. Use of Chemicals. The Contractor shall submit to the City for approval sample labels and MSDS for all chemical herbicides, rodenticides, and pesticides proposed for use under this LTRMC. Materials included shall be limited to chemicals approved by the State of California Department of Agriculture.

The use of any chemical shall be based on the recommendations of a licensed pest control advisor. Annual PCA Pesticide Recommendations are required for each pesticide proposed to be used for the Work site covered by this LTRMC. The use of chemicals shall conform to the current San Diego County Department of Agriculture regulations.

No chemical herbicide, rodenticide, or pesticide shall be applied until its use is approved, in writing, by City as appropriate for the purpose and area proposed.

The Contractor shall submit a monthly pesticide use report to the City along with the Contractor's invoices for payment. This report shall include a statement of all applications of herbicides, rodenticides, and pesticides, detailing the chemical used, undiluted quantity, rate of application, applicator's name, and the date and purpose of the application. For months in which no pesticides are applied, state "No Pesticide Used" on the report.

3.2. Irrigation Water. The Contractor shall diligently practice water conservation, including minimizing run-off or other waste. The Contractor shall turn off irrigation systems, if any, during periods of rainfall and at such other times when suspension of irrigation is desirable to conserve water and to remain within the guidelines of good horticultural landscape maintenance practices in accordance with the instructions from the Project Biologist. The Contractor's failure to properly manage and conserve water may result in deductions from the monthly payment to be made to the Contractor or other penalties under this LTMMA.

If the Contractor causes excessive use or waste of irrigation water, the estimated cost of that water shall be deducted from the monthly payment. Further, any monetary fines or other damages assessed to City for the Contractor's failure to follow water conservation regulations imposed by the City, the Public Utilities Department of the City of San Diego, and, where appropriate, the State of California, the County Water Authority, or other legal entities shall be solely the responsibility of the Contractor and may be deducted from the monthly payment to be made to the Contractor under this LTMMA.

- **3.3. Payment for Water.** The Contractor shall pay for the water used in the maintenance of the Work site and this cost is included in the price of this LTMMA.
- **3.4. Satisfactory Progression.** If the Revegetation/Restoration Area is not progressing towards the required performance criteria, as defined in the Scope of Work, in accordance with the Work Schedule, and as determined by City, the City may accordingly adjust monthly payments to the Contractor.

SECTION 4: COMPENSATION

4.1. Maximum Compensation. The compensation for this LTMMA shall not exceed \$400,000.00. (Contract Price).

- **4.2. Method of Payment and Reports.** The payments will be made monthly in direct proportion that each month bears to the total value of the Contract Price. As conditions precedent to payment, the Contractor shall submit a detailed invoice and report of maintenance Work performed every month. The Contractor's failure to submit the required reports or certified payrolls as described in the Construction Contract shall constitute a basis for withholding payment by the City.
- **4.3. Final Payment.** The Contractor shall not receive final payment until the following conditions have been completed to the City's satisfaction:
 - **4.3.1** The item(s) of the Work subject to this maintenance coverage as specified in **Exhibit A** (Maintenance Items) have been determined to be in compliance with the Construction Contract and this LTMMA.
 - **4.3.2** The Contractor has provided to the City a signed and notarized Affidavit of Disposal, a copy of which is attached to the Construction Contract, stating that all brush, trash, debris, and surplus materials resulting from the Work have been disposed of in a legal manner.
 - 4.3.3 The Contractor has provided a final work summary report to the City.
 - **4.3.4** The Contractor has performed comprehensive and successful testing and checks of the Maintenance Items.

SECTION 5: BONDS AND INSURANCE

- **5.1. Contract Bonds.** Prior to the commencement of Work, the Contractor, at its sole cost and expense, shall provide the following bonds issued by a surety authorized to issue bonds in California satisfactory to the City:
 - **5.1.1.** A Payment Bond (Material and Labor Bond) in an amount not less than the Contract Price for this Bid item, to satisfy claims of material suppliers and mechanics and laborers employed by it on the Work. The Payment Bond shall be maintained by the Contractor in full force and effect until the Work is accepted by City and until all claims for materials and labor are paid and shall otherwise comply with the California Civil Code.
 - **5.1.2.** A Performance Bond in an amount not less than the Contract Price for this bid item to guarantee the faithful performance of all Work within the time prescribed in a manner satisfactory to the City and to guarantee all materials and workmanship will be free from original or developed defects. The Performance Bond shall remain in full force and effect until performance of the Work is completed as set forth in this LTMMA.
- **5.2. Insurance.** The Contractor shall maintain insurance coverage as specified in **Section 5-4**, **"INSURANCE"** of the Construction Contract at all times during the term of this LTMMA.

The Contractor shall not begin the Work under this LTMMA until they have complied with the following:

- 5.2.1. Obtain insurance certificates reflecting evidence of insurance:
 - 1. Commercial General Liability
 - 2. Commercial Automobile Liability
 - 3. Worker's Compensation

5.2.2. Confirm that all policies contain the specific provisions required in **Section 5-4**, **"INSURANCE"**.

The Contractor shall submit copies of any policy upon request by the City.

The Contractor shall not modify any policy or endorsement thereto which increases the City's exposure to loss for the duration of this LTMMA.

SECTION 6: MISCELLANOUS

- **6.1. Illness and Injury Prevention Program.** The Contractor shall comply with all the mandates of Senate Bill 198 and shall specifically have a written Injury Prevention Program on file with the City in accordance with all applicable standards, orders, or requirements of California Labor Code, Section 6401.7. This Program shall be on file prior to the performance of any Work.
- **6.2. City Standard Provisions.** This LTMMA is subject to the same standard provisions and Contractor Certification requirements as the Construction Contract.
- **6.3. Taxpayer Identification Number.** I.R.S. regulations require the City to have the correct name, address, and Taxpayer Identification Number (TIN) or Social Security Number (SSN) on file for businesses or persons who provide services or products to the City. This information is necessary to complete Form 1099 at the end of each tax year. As such, the Contractor shall provide the City with a Form W-9 upon execution of this LTMMA.
- **6.4. Assignment.** The Contractor shall not assign the obligations under this LTMMA, whether by express assignment or by sale of the company, nor any monies due or to become due, without the City's prior written approval. Any assignment in violation of this section shall constitute a Default and is grounds for immediate termination of this LTMMA, at the sole discretion of City. In no event shall any putative assignment create a contractual relationship between the City and any putative assignee.
- **6.5. Independent Contractors.** The Contractor and any Subcontractors employed by Contractor shall be independent contractors and not agents of the City. Any provisions of this LTMMA that may appear to give the City any right to direct the Contractor concerning the details of performing the Work, or to exercise any control over such performance, shall mean only that the Contractor shall follow the direction of the City concerning the end results of the performance.
- **6.6. Covenants and Conditions.** All provisions of this LTMMA expressed as either covenants or conditions on the part of the City or the Contractor shall be deemed to be both covenants and conditions.
- **6.7.** Jurisdiction and Venue. The jurisdiction and venue for any suit or proceeding arising out of or concerning this LTMMA, the interpretation or application of any of its terms, or any related disputes shall be the County of San Diego, State of California.
- **6.8. Successors in Interest.** This LTMMA and all rights and obligations created by it shall be in force and effect whether or not any Parties to this LTMMA have been succeeded by another entity and all rights and obligations created by this LTMMA shall be vested and binding on any Party's successor in interest.

- **6.9. Integration.** This LTMMA and the exhibits, attachments, and references incorporated into this LTMMA fully express all understandings of the Parties concerning the matters covered in this LTMMA. No change, alteration, or modification of the terms or conditions of this LTMMA, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both Parties or by an amendment to this LTMMA agreed to by both Parties. All prior negotiations and agreements shall be merged into this LTMMA.
- **6.10. Counterparts.** This LTMMA may be executed in counterparts, which when taken together shall constitute a single signed original as though all Parties had executed the same page.
- **6.11. No Waiver.** Any failure of either the City or the Contractor to insist upon the strict performance by the other of any covenant, term, or condition of this LTMMA, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this LTMMA, shall constitute a waiver of any such breach or of such covenant, term, or condition. No waiver of any breach shall affect or alter this LTMMA, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.
- **6.12. Severability.** The unenforceability, invalidity, or illegality of any provision of this LTMMA shall not render any other provision of this LTMMA unenforceable, invalid, or illegal.
- **6.13. Signing Authority.** The representative for each Party signing on behalf of a corporation, partnership, joint venture or governmental entity hereby declares that authority has been obtained to sign on behalf of the corporation, partnership, joint venture, or entity and agrees to hold the other Party or Parties hereto harmless if it is later determined that such authority does not exist.

IN WITNESS WHEREOF, this Contract is executed by the City of San Diego, acting by and through its Engineering and Capital Projects Department Director pursuant to the emergency contract provisions of City Charter authorizing such execution, and by Contractor.

Dated this 4th day of November, INSERT YEAR.

THE CITY OF SAN DIEGO

tu laman

Mayor or designee

I HEREBY CERTIFY I can legally bind Orion Construction Corporation and that I have read this entire contract, this <u>25th</u> day of <u>September</u>, **2020**.

Printed Name: Richard Dowsing

Title: President of Orion Construction Corporation

HEREBY APPROVE the form of the foregoing Contract this

of 2020.

Mara W. Elliott, City Attorney

By

Printed Name:

Deputy City Attorney

Rancho Mission Canyon Storm Drain Replacement Exhibit R – Long-Term Maintenance and Monitoring Agreement (Rev. July 2019)

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 San Diego Notary Public					
County of <u>San Diego</u> , Notary Public On <u>09/25/2020</u> before me, <u>Richard Gregory Newhall</u> (insert name and title of the officer)					
(insert name and title of the officer) personally appeared <u>Richard Dowsing - President</u> , 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. RICHARD GREGORY NEWHALL Notary Public - California San Diego County Commission # 2240582 My Comm. Expires Apr 30, 2022					
Signature (Seal)					

EXHIBIT A

SCOPE OF WORK

- **I. Location of Work.** The location of the Work to be performed (Revegetation Area) is shown on project location map (Exhibit M).
- II. Description of Work. The Contractor shall maintain and monitor the Revegetation/Restoration Area during the Monitoring Program in accordance with this Contract. The Revegetation/Restoration Area shall meet the success criteria specified in the Plan at each of the milestones listed in the Schedule for the maintenance and monitoring period. The Work includes complete landscape maintenance consisting of irrigation, pruning, shaping and training of trees, shrubs, and ground cover plants; fertilization; weed control; control of all plant diseases and pests; and trash removal, and all other maintenance listed in this Contract and as required to maintain the Revegetation Area in a useable condition and to maintain the plant material in a healthy and viable state.

The Work also includes biological monitoring of the Revegetation/Restoration Area according to the schedule and methods specified in the Revegetation/Restoration Plan. The monitoring work shall include all reporting tasks specified in the Plan.

III. Method of Performing Work.

- A. Irrigation. Irrigation shall be applied to container and salvaged plants in accordance with instructions from the Project Biologist. Irrigation delivery techniques and schedules will vary depending on the availability of a sprinkler irrigation system and weather patterns. Failure of an existing irrigation system to provide full and proper irrigation shall not relieve Contractor of the responsibility to provide adequate irrigation with full and proper coverage of all areas subject to this LTMMA.
 - 1. In areas where an automatic sprinkler system is installed, Contractor shall periodically inspect the operation of the system for any malfunction. The maximum interval between inspections shall not exceed 7 Calendar Days. The Contractor shall maintain all sprinkler systems in such a way as to guarantee proper coverage and full working capability and shall make whatever adjustments may be necessary to prevent excessive run-off into streets, rights-of-way, or other areas not meant to be irrigated. The cost of wasted water may be charged to Contractor.
 - 2. All areas not adequately covered by a sprinkler system shall be irrigated by a portable irrigation method in accordance with instructions from the Project Biologist. The Contractor shall furnish all hoses, nozzles, sprinklers, etc. necessary to accomplish this supplementary irrigation. The Contractor shall exercise due diligence to prevent water waste, erosion, and detrimental seepage into existing underground improvements and to existing structures.
 - 3. Irrigation shall be accomplished as follows:
 - a) Turf (if any) shall be irrigated Monday through Friday, as required, to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Additional irrigation shall be performed in the event of unusually hot/dry weather conditions (as are present during Santa Ana conditions, or other times of low humidity or high winds, or during a prolonged high temperature period during summer months).

- b) Landscaped improved banks and slopes (if any) shall be irrigated Monday through Friday as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist.
- c) Shrub beds (if any) shall be irrigated as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Shrub areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of shrub types, seasons and weather conditions.
- d) Planted and seeded areas shall be irrigated as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Planted and seeded areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of plant types, seasons and weather conditions.
- 4. Maintenance of Irrigation System. The Contractor shall keep controller and valve boxes (if any) clear of soil and debris and shall maintain the irrigation system at no additional cost to City, including replacement, repair, adjustment, raising or lowering, straightening and any other operation required for the continued proper operation of the system from the "cold" side of the water meter throughout the Revegetation/Restoration Area. The Contractor shall also be responsible for maintaining the painted surfaces of irrigation and lighting controller cabinets as well as the corresponding automatic irrigation battery numbers on the lids of the automatic control valve boxes (if any). The Contractor shall be responsible for light bulb replacements in controller cabinets as necessary.
 - a) Repair or replacement includes: sprinkler system laterals (piping), sprinkler mains (pressure lines), vacuum breakers, sprinkler control valves, sprinkler controllers, sprinkler heads, sprinkler caps, sprinkler head risers, valve covers, boxes and lids (including electrical pull boxes and lids), valve sleeves and lids, quick coupler valves and hose bibs. Any replacement shall conform to the type and kind of existing system. Any deviation shall be approved in writing by City.
 - b) The Contractor shall repair irrigation systems which are damaged or altered in any way, including by acts of God, vandalism, vehicular damage, or theft.
- 5. Operation of Automatic Irrigation Controllers. Where the operation of automatic irrigation controllers is required as part of this LTRMC, the Contractor shall:
 - a) Not duplicate any coded City key furnished by City for access and operation of the controller;
 - Surrender all keys furnished by City, promptly at the end of the term of this LTRMC, or at any time deemed necessary by City to prevent serious loss to City;

- c) protect the security of City's property by keeping controller cabinet and building doors locked at all times; and
- d) refrain from using premises behind locked doors for storage of materials, supplies, or tools except as approved by City.
- **B. Pruning Shrubs and Ground Cover Plants.** The Contractor shall prune all shrubs and ground cover plants growing in the Revegetation Area as required to:
 - 1. Maintain plant growth viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist.
 - 2. Prevent encroachment of passageways, walks, streets, or view of signs; and
 - 3. Prevent encroachment in any manner deemed objectionable by the City.

The Contractor shall remove dead or damaged limbs with sharp pruning tools, with no stubs remaining. The Contractor shall seal any pruning cut which exceeds 2 inches in diameter with an approved pruning paint when required by the City. The Contractor shall perform pruning to permit plants to grow naturally in accordance with their normal growth characteristics except where box hedging is required by the City. The Contractor shall not shear, hedge, or severely prune plants, unless authorized by the City. The Contractor shall not use growth regulators.

- **C. Tree Maintenance.** The Contractor shall maintain all trees and container plants in the revegetation area in accordance with instructions from the Project Biologist. The Contractor shall perform pruning in accordance with instructions from the Project Biologist, when necessary. The Contractor shall not top trees.
 - 1. **Potential Hazards.** The Contractor shall notify the City within 24 hours of any tree that shows signs of root heaving or leaning or is in any manner a potential safety hazard. The Contractor shall immediately reestablish trees and shrubs that are uprooted due to storms, if possible. If trees or shrubs cannot be reestablished, Contractor shall remove them immediately (including roots) and fill the holes until replacement planting is complete.
 - 2. **Replacement.** The Contractor shall completely remove and replace trees lost due to Contractor's faulty maintenance or negligence, as determined by the City. The Contractor shall replace trees in kind and size as determined by the City. If there is a difference in value between the tree lost and the replacement tree, the City will deduct the difference from payment to be made under this LTMMA. The City shall determine the value of the tree lost using the latest International Society of Arboriculture (I.S.A.) guidelines for value determination.
 - 3. **Staking.** The Contractor shall securely stake any newly planted trees and other trees needing support with two "lodge pole" type stakes placed on opposite sides of the tree outside the root ball and secured to the tree with at least two flexible rubber tree ties. The Contractor shall regularly inspect tree ties and stakes and reposition them as necessary to ensure against girdling and abrasion.

- D. Fertilization. The Contractor shall fertilize the Revegetation Area as necessary in accordance with instructions from the Project Biologist. Contractor shall submit to City Material Safety Data Sheets and a schedule of application showing the site, date, and approximate time of fertilizer application (Fertilizer Schedule). The Fertilization Schedule, regardless of its intensity, timing, or the number of sites covered daily or weekly, shall not excuse Contractor from performing any other Work regularly required under this LTMMA. All fertilization shall first be approved by the Project Biologist.
 - 1. The Contractor shall notify the City at least 48 hours before beginning any fertilization. Fertilizer shall be delivered to the site only in the original unopened containers bearing the manufacturer's guaranteed analysis. Damaged packages shall not be accepted. The Contractor shall furnish to the City with duplicate signed, legible copies of all certificates and invoices for all fertilizer to be used for this LTMMA. The invoices shall state the grade, amount and quantity received. Both the copy to be retained by the City and the Contractor's copy shall be signed by the City, on site, before any fertilizer may be used.
 - 2. Fertilizers, if necessary, shall be applied at the direction of the Project Biologist and according to manufacturer's product specifications.
 - 3. If deemed necessary by the City to achieve required results, the Contractor shall apply other materials as directed by the City, including:
 - a) iron chelate;
 - b) soil sulfur;
 - c) gypsum; or
 - d) surfactant enzymes such as Sarvon or Naiad.
 - 4. The Contractor shall adequately irrigate the fertilized area(s) immediately following the application of fertilizers and/or amendments to force fertilizer material to rest directly on the soil surface. Drip irrigated areas shall be adequately hand watered using quick coupler valves and hoses to dissolve fertilizer.
- E. Weed Removal. The Contractor shall completely remove weeds from the Re-vegetation Area, including all turf grass areas, shrub and ground cover areas, planters, tree wells, and cracks in paved areas, including sidewalks, parking lot, gutters and curbs, as shown on the Work Schedule. For the purposes of this Section, "Weed" means any undesirable or misplaced plant. The Contractor shall control Weeds by manual, mechanical, or chemical methods. The City or Project Biologist may restrict the use of chemical weed control in certain areas.

Weed removal in areas with native habitat shall be in accordance with **Section 802 of the Whitebook**.

F. Disease and Pest Control. The Contractor shall regularly inspect the Revegetation Area for the presence of disease and insect or rodent infestation. The Contractor shall notify the City within 4 Calendar Days if disease or insect or rodent infestation is discovered. In its notice to the City, the Contractor shall identify the disease, insect, or rodent and specify the control measures to be taken. Upon approval of the City, the Contractor shall implement the approved control measures, exercising extreme caution in the application of all sprays, dusts, or other materials utilized. The Contractor shall continue the approved control measures until the disease, insect, or rodent is controlled to the satisfaction of the City.

- 1. All individuals who supervise the mixing and application of herbicides, pesticides, and rodenticides on behalf of the Contractor shall possess valid Qualified Applicators Certificate for Category B issued to them by the State Department of Food and Agriculture.
- 2. The Contractor shall utilize all safeguards necessary during disease, insect or rodent control operations to ensure safety of the public and the employees of the Contractor, in accordance with current standard practices accepted by the State of California Department of Food and Agriculture. If the Contractor is unable to control the pest or disease, a pest control company will be hired, and the cost shall be deducted from Contractor's monthly payment.
- **G. Plant Replacement.** Except as provided in **Section H** below, the Contractor shall notify the City within 4 Calendar Days of the loss of plant material due to any cause.
 - 1. The Contractor shall, at no cost to the City, replace any tree, shrub, ground cover, or other plant which is damaged or lost as a result of Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by the City.
 - 2. If so directed by the City, the Contractor shall replace any plant damaged or lost that is not a result of the Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by City. The City will pay for materials and labor outside of warranty.
 - 3. The City may determine that certain plants should be replaced in order to ensure maximum ecological health and overall aesthetic appearance of planting in the Revegetation Area. When the City determines such replacement should occur, Contractor shall replace the plants as directed by the City. The City will pay for materials and labor outside of warranty.
- **H. Damage Reports.** The Contractor shall notify the City within 24 hours of any damage to the Work Area caused by accident, vandalism, or theft.
- I. Litter. The Contractor shall promptly dispose of all trash and debris at an appropriate City disposal site. The Contractor shall pay any and all fees associated with the disposal of debris or trash accumulated under the terms of this LTMMA. The Contractor understands that disposal of refuse at City landfills is subject to a fee and that the Refuse Disposal Division can be contacted at (619) 573-1418 for fee information.
 - 1. **Contractor Generated Litter.** The Contractor shall promptly remove all debris generated by the Contractor's pruning, trimming, weeding, edging and other Work required by this LTMMA. Immediately after working in streets, park walks, gutters, driveways, and paved areas, the Contractor shall clean them in accordance with all applicable laws.
 - 2. **Third Party Generated Litter.** Upon discovery, the Contractor shall remove all litter, including bottles, glass, cans, paper, cardboard, fecal matter, leaves, branches, metallic items, and other debris, from the Work site.

- J. **Monitoring.** The Project Biologist will oversee all maintenance operations and conduct qualitative and quantitative biological monitoring of the Revegetation Area according to the schedule and methods described in the Revegetation Plan. The Project Biologist will be responsible for preparing and submitting monitoring reports according to the schedule and instructions in the Revegetation Plan. The Project Biologist shall meet all requirements specified in **Section 802 of the Whitebook**.
- **K. Final Site Cleanup**. Prior to completion of the LTMMA, all temporary irrigation materials, BMP's, and signs shall be removed from the site and properly disposed of.

EXHIBIT B

INSERT A COPY OF THE ENGINEER'S FIELD NOTIFICATION WHICH ACCEPTS THE PLANT ESTABLISHMENT PERIOD (PEP) AND ESTABLISHES THE COMMENCEMENT DATE OF THE MONITORING PROGRAM, SEE THE 2018 WHITEBOOK, SECTION 802

EXHIBIT C

LICENSE DATA SHEET

State Contractor License Classification and Number: A549309

Name of License Holder: Orion Construction Corporation

Expiration Date: 11/30/2020

City of San Diego Business License Number: B1992002970

Expiration Date: 03/21/2021

EXHIBIT S

SCOPE OF WORK

EXHIBIT S

SCOPE OF WORK

- 1. SCOPE OF WORK: The Work consists of but is not limited to the replacement of 150 linear feet of 36-inch CMP storm drain with 36-RCP located next to 6170 Cabaret St San Diego, CA 92120. Work will also include restoration of approximately 3,000 square feet of adjacent slope that eroded and formed a gully when storm drain failed. Contractor will procure consultants to provide Civil and Geotechnical services necessary to complete the required work for Design and Construction Support of the Rancho Mission Canyon Storm Drain Emergency Replacement, herein referred to as the Project. Harris & Associates to be retained as Engineer of Record to perform civil design services. Design will be completed within 88 working days.
 - **1.1. System Hydraulics Evaluation & Design:** Consultant will prepare design plans and specifications for construction. The designer of record will also prepare an evaluation of the current hydrology and drainage area to confirm any design modifications to the existing storm drain system. The new storm drain pipe sizes must be in accordance with City of San Diego Drainage Design Manual, dated 2017.

Deliverables: Final plans and specifications signed by the engineer of record.

1.2. Geotechnical Evaluation: Consultant will perform a geotechnical investigation to assess existing conditions at the site and provide geotechnical information to be used in project design. All necessary site investigations, such as field density tests and laboratory tests of fill & backfill materials, will be performed. Designer shall provide a recommendation on how to repair the failed slope.

Deliverables: The deliverables for this task will be a geotechnical report.

1.3. Project Close Out & As-Builts: Consultant to provide as-built plans, supporting documents, and project files to the City as requested.

Deliverables: The deliverables for this task as-built drawings and other documents final consultant documents shall be delivered four weeks after project completion.

- ESTIMATED CONSTRUCTION COST: The construction cost for this project is Not-to-exceed: \$1,200,000.00
- 3. LOCATION OF WORK: The location of the Work is as follows:

6170 Cabaret St San Diego, CA 92120

CONTRACT TIME: The Work including the Plant Establishment Period shall be completed within **220 Working Days** from the date of issuance of the Notice to Proceed, which includes 88 Working Days for the Design to be completed. Design can be completed concurrent with construction.