

PROJECT MANUAL & SPECIFICATIONS



**CITY OF BILLINGS
WORK ORDER 18-30**

City/County Drain CM/GC Mitigation Project

November 2018

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CITY OF BILLINGS WORK ORDER 18-30

City/County Drain CM/GC Mitigation Project

BILLINGS, MONTANA

PREPARED FOR:

City of Billings
Public Works Department
2224 Montana Avenue
Billings, MT 59101

November 2018

SECTION 00500

AGREEMENT FORM

This Agreement is dated as of the _____ day of _____ in the year 2018, by and between City of Billings, hereinafter called "Owner" and COP Construction LLC, hereinafter called "Construction Manager / General Contractor" ("CM/GC"). Owner and CM/GC, in consideration of the mutual covenants hereinafter set forth, agree as follows:

Article 1. WORK

CM/GC shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows: The CM/GC will work as an integral part of the Project Team, who includes the Project Engineer, CM/GC and Owner, to develop and implement the project and maintain a spirit of cooperation and open communication among all parties. The intent is that project goals and objectives are clearly understood, potential problems are resolved promptly, and upon completion, the project is deemed a success by all.

The CM/GC will provide preconstruction services by performing the following:

- Provide input on potential alternative solutions.
- Analyze and evaluate the constructability of the preliminary design.
- Provide information, cost estimates, and alternatives to facilitate decisions regarding project direction, construction impacts, and staging.
- Provide input to the Project Team regarding current construction industry practices, labor market, and material and equipment availability.
- May use subcontractors to supplement preconstruction services to provide the necessary expertise.
- Review in-progress design plans and provide input and/or alternate design concepts and offer suggestions with respect to means and methods, materials, innovations, and construction sequencing.
- Review design documents in-progress and offer suggestions to improve completeness or clarity.
- Notify the Project Engineer and Owner, in writing, of all problems, conflicts, and/or deficiencies identified during the review and evaluation of design drawings.
- Assist the Project Engineer and Owner in resolving problems, conflicts, and/or deficiencies identified during the review and evaluation of design drawings.
- Provide preliminary quantity take-offs and construction cost estimate.
- Provide recommendations on the plans or construction documents to ensure completion of the Project in the most efficient manner possible.
- Provide a final review and evaluation of the final plans and construction documents.

Construction Manager/ General Contractor (CM/GC) Responsibilities

The CM/GC will provide resources within their company or through subcontractors to accomplish the construction as designed. The CM/GC will need to coordinate closely with the Project Engineer and Owner for procurement of materials and construction to meet the design intent and schedule. The CM/GC will need to provide costs for each phase of the design as it is approved for construction. At the date this contract is written design documents are approximately 30% complete.

Article 2. THE PROJECT

2.01 The project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows: City of Billings W.O. 18-30 City/County Drain CM/GC Mitigation Project

Article 3. PROJECT ENGINEER

3.01 The Project is being designed by: DOWL, 222 North 32nd Street, Suite 700, Billings, Montana 59101 who is hereinafter called Project Engineer and who is to act as Owner's representative, assume all duties and responsibilities and have the rights and authority assigned to Project Engineer in these Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

Article 4. CONTRACT TIME

4.01 Time is of the Essence.

A. All the time limits for milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 Days to achieve Substantial Completion.

A. A Notice to Proceed will be issued for separate tasks of the project. The Notice to Proceed will include a specific duration for that task. Final completion of the Work shall be within 30 calendar days after the date of Substantial Completion.

Article 5. CONTRACT PRICE

5.01 Owner shall pay CM/GC for completion of the work in accordance with the Contract Documents an amount equal to the sum of the actual cost of work plus the CM/GC fee. This project is to be paid in a cost reimbursable plus fee format and the anticipated maximum price at roughly 30% design is \$2,850,000. The actual amount paid will equate to the sum of all costs for the project, except for defective work completed by the CM/GC, plus the CM/GC fee. As the design progresses the project team will provide updates on the anticipated maximum price. Once the design has reached 75% the CM/GC shall provide a Guaranteed Maximum Price including a contingency for the Project.

Article 6. PAYMENT PROCEDURES

6.01 Submittal and Processing of Payments:

A. CM/GC shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Project Engineer as provided in the Contract Documents.

6.02 Progress Payments; Retainage:

A. Owner shall make progress payments in accordance with Article 14 of the General Conditions on account of the Contract Price on the basis of CM/GC's Applications for Payment as recommended by Project Engineer, once each month during construction as provided below. All progress payments will be on the basis of the actual cost of the work plus a fee.

6.03 Final Payment:

A. Upon final completion and acceptance of the Work in accordance with paragraph 14.07 of the General Conditions, Owner shall pay the remainder of the Contract Price to CM/GC as recommended by Project Engineer as provided in said paragraph 14.07.

Article 7. INTEREST

7.01 All monies not paid when due as provided in Article 14 of the General Conditions shall bear interest at the maximum rate allowed by law at the place of the Project.

Article 8. CM/GC'S REPRESENTATION

8.01 In order to induce Owner to enter into this Agreement, CM/GC makes the following representations:

A. CM/GC has examined and carefully studied the Contract Documents (including all Addenda) listed in Article 9 and the other related data identified in the Contract Documents.

B. CM/GC has visited the site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, performance or furnishing of the Work.

C. CM/GC is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance or furnishing of the Work.

D. CM/GC has studied carefully all available: (1) reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified in the Special Provisions as provided in paragraph 4.02 of the General Conditions; and (2) reports and drawings of a Hazard Environmental Condition, if any, at the Site which has been identified in the Special Provisions as provided in paragraph 4.06 of the General Conditions. CM/GC acknowledges that such reports and drawings are not Contract Documents and may not be complete for CM/GC's purposes. CM/GC acknowledges that Owner and Project Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to underground Facilities at or contiguous to the site.

E. CM/GC has obtained and carefully studied all available (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise, which may affect cost, progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by CM/GC including and specific means, methods, techniques, sequences and procedures of construction, if any, expressly required by the Contract Documents to be employed by the CM/GC, and safety precautions and programs incident thereto.

F. CM/GC is aware of the general nature of the work to be performed by Owner and others at the site that relates to the Work as indicated in the Contract Documents.

G. CM/GC has correlated the information known to CM/GC, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

H. CM/GC has given Project Engineer written notice of all conflicts, errors, ambiguities or discrepancies that CM/GC has discovered in the Contract Documents and the written resolution thereof by Project Engineer is acceptable to CM/GC.

I. The Contract Documents are being generated and are currently 30% complete, upon completion the Contract Documents will be generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

Article 9. CONTRACT DOCUMENTS

9.01 Contents

A. The Contract Documents consist of the following:

1. This Agreement (pages 1 to 7, inclusive);
2. Performance Bond (pages 1 to 3, inclusive);
3. Payment Bond (pages 1 to 3, inclusive);
4. General Conditions (pages 1 to 62, inclusive);
5. Supplementary Conditions (pages 1 to 12, inclusive);
6. Special Provisions (pages 1 to 8, inclusive);
7. Specifications when developed;
8. SOQ documents complete including addenda
9. Exhibits to this Agreement (enumerated as follows):
 - a. Exhibit A Burdened Labor Rates;
 - b. Exhibit B Equipment Rates;
 - c. Exhibit C CM/GC Fee for Project;
 - d. Exhibit D 30% Design Construction Schedule;
 - e. Exhibit E RFQ/SOQ
 - f. Exhibit Ffff State Prevailing Wage Rates

10. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:

- a. Written Amendments;
- b. Work Change Directives;
- c. Change Order(s);
- d. Any Notice of Partial Utilization;
- e. Notice of Substantial Completion;
- f. Lien Waivers;
- g. Notice of Final Completion and Acceptance;

11. Supplementary Specifications

12. Certificates of Insurance

13. Standard General Conditions

14. Wage Rates

15. Special Provisions (Section 00900 of Std Mods and project specific)

16. Montana Public Works Standard Specifications, Sixth Edition, dated April 2010, including the City of Billings Standard Modifications thereof.

B. The documents listed in paragraph 9.01.A. are attached to this Agreement (except as expressly noted otherwise above).

C. There are no Contract Documents other than those listed above in this Article 9.

D. The Contract Documents may only be altered, modified or supplemented as provided in paragraphs 3.04 of the General Conditions.

Article 10. MISCELLANEOUS

10.01 Terms.

A. Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.

10.02 Assignment of Contract

A. No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically, but without limitation, moneys that may come due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

A. Owner and CM/GC each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

10.04 Severability

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and CM/GC, who agree that the Contract Documents shall be reformed to replace such stricken provision of part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

IN WITNESS WHEREOF, Owner and CM/GC have signed 6 copies of Agreement. Three counterparts have been delivered to Owner, two to CM/GC and one to Project Engineer. All portions of the Contract Documents have been signed or identified by Owner and CM/GC or by Project Engineer on their behalf.

This Agreement will be effective on _____, 2018 (which is the effective date of the Agreement).

Owner City of Billings

CM/GC _____

By _____
Mayor

By _____
(Signature)

Attest _____
City Clerk

Attest _____
(Signature)

Approved as to form _____
City Attorney

Address for giving notices:

Address for giving notices:

Phone No. _____

Phone No. _____

Fax No. _____

Fax No. _____

(SEAL)

Contractor Registration No. _____

(CORPORATE SEAL)

Agent for service of process:

(If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Owner – Contractor Agreement.)

(If CM/GC is a corporation or a partnership, attach evidence of authority to sign.)

Owner's Designated Representative:

Name: _____

Title: _____

Address: _____

Phone No.: _____

Fax No.: _____

CM/GC's Designated Representative:

Name: _____

Title: _____

Address: _____

Phone No.: _____

Fax No.: _____

END OF SECTION 00500

Exhibit A

Labor Rates

**COP CONSTRUCTION LLC
WAGE RATE SHEET**

PROJECT: 18125 City County Drain

CLASSIFICATION: Heavy

WAGE DATE: 1/27/2018 MT Heavy

ZONE: 1 Heavy

Anticipated Employee Burdened wage Rates without Fee
Other classificaions will be added as needed

1	2	3
40 HR WK	45 HR WK	50 HR WK
Base	Base	Base
<u>Rate</u>	<u>Rate</u>	<u>Rate</u>

<u>PROJECT MANAGEMENT</u>				Exempt Employees
Sr. Project Manager	77.67	77.67	77.67	
Project Manager	77.67	77.67	77.67	
Superintendent	67.10	67.10	67.10	
Safety Director	54.01	54.01	54.01	
Project Engineer	49.23	49.23	49.23	
Project Estimator	64.51	64.51	64.51	

<u>CARPENTERS</u>				Anticipated Craft Employees
Journeyman	50.97	53.07	54.75	
Carpenter Foreman	52.92	55.13	56.93	
<u>LABORER</u>				
Group 1	37.99	39.51	40.72	
Group 2	41.69	43.41	44.79	
Group 3	41.86	43.60	44.99	
Foreman Grp 3 Class 3	43.81	45.66	47.14	
<u>OPERATORS</u>				
Group 1	46.71	48.63	50.17	
Group 2	47.74	49.72	51.30	
Group 3	49.39	51.44	53.10	
Group 4	50.68	52.83	54.53	
Group 5	52.00	54.20	55.97	
Group 5 (MS)	12.20	12.20	12.20	
Group 6	53.31	55.59	57.43	
Group 6 Special	54.61	56.97	58.85	
Group 7	54.61	56.97	58.85	
Foreman Grp 2 Class 3	49.71	51.78	53.46	
<u>TEAMSTER</u>				
Group 1	41.60	43.34	44.73	
Group 2	46.87	48.91	50.51	

Exhibit B

Equipment Rates

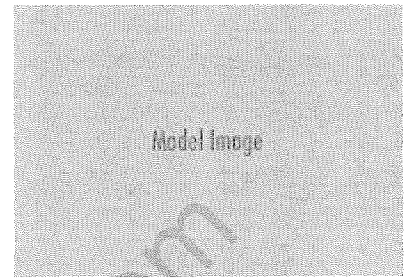
Description	Unit	Total Rate*
1300 CFM Air Compressor	HR	\$ 68.47
PC 300 Excavator	HR	\$ 105.12
CAT 330 Excavator	HR	\$ 114.06
Bedding Conveyor	HR	\$ 5.63
Roller Bucket Attach	HR	\$ 4.97
Excavation Trench Box	HR	\$ 2.63
1 Shift Generator - 25 KW	HR	\$ 13.79
3 Shift Generator - 25 KW	HR	\$ 13.79
3 Shift Generator - 60-70 KW	HR	\$ 21.93
CAT 140G Grader	HR	\$ 61.20
CAT 950 Front End Loader	HR	\$ 51.23
Diesel 4&6" Bypass Pump	HR	\$ 29.27
Jet Pump for Jetting Wells	HR	\$ 14.76
SD70 Vibratory Smooth Drum	HR	\$ 37.72
Trench Roller	HR	\$ 21.50
In Town Fuel Truck	HR	\$ 21.93
Project Manager Pickup	HR	\$ 18.50
Jobsite Pickup	HR	\$ 16.64
Superintendent Pickup	HR	\$ 17.91
Field Transport Tractor	HR	\$ 52.37
COP Vac Truck	HR	\$ 108.00
Water Truck	HR	\$ 40.10
Side Dump Trailer	HR	\$ 29.99
Unloader	HR	\$ 32.47
Tool Van Trailer	HR	\$ 1.49

***The rates in this chart for in house equipment are 75% of the Equipment Watch blue book rates attached.**

Rental Rate Blue Book®

November 6, 2018

Sullair 1300HDTQCA
 Portable Rotary Screw Air Compressors

 Size Class:
900 cfm & Over
 Weight:
15,950 lbs.

Configuration for 1300HDTQCA

Power Mode	Diesel	Horsepower	450
Rated Pressure @ PSI	150	Air Delivery Rating	1300 cu ft/min

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$4,290.00	\$1,200.00	\$300.00	\$45.00	\$69.05	\$93.43
Adjustments						
Region (Montana: 99.3%)	(\$30.03)	(\$8.40)	(\$2.10)	(\$0.32)		
Model Year (2000: 91.9%)	(\$345.06)	(\$96.52)	(\$24.13)	(\$3.62)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,914.91	\$1,095.08	\$273.77	\$41.06	\$69.05	\$91.29

Non-Active Use Rates

Hourly

Standby Rate	\$7.56
Idling Rate	\$71.00

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	24%	\$1,029.60/mo
Overhaul (ownership)	66%	\$2,831.40/mo
CFC (ownership)	4%	\$171.60/mo
Indirect (ownership)	6%	\$257.40/mo
Fuel (operating) @ 3.01	71%	\$48.76/hr

Revised Date: 2nd Half 2018

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for RICK MORRISON (rmorrison@copconstruction.com)

Rental Rate Blue Book®

November 6, 2018

Average AVERAGE 56.0 - 67.9 MTONS
 Crawler Mounted Lattice Boom Cranes

 Size Class:
 56.0 - 67.9 MTons
 Weight:
 N/A

Configuration for AVERAGE 56.0 - 67.9 MTONS

Power Mode	Diesel	Maximum Lift Capacity	61.4 mt
Net Horsepower	227 hp	Boom Base Length	48.1 ft

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$22,385.00	\$6,270.00	\$1,570.00	\$235.00	\$88.50	\$215.69
Adjustments						
Region (Montana: 101.3%)	\$291.01	\$81.51	\$20.41	\$3.06		
Model Year (1989: 85.9%)	(\$3,197.32)	(\$895.56)	(\$224.25)	(\$33.57)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$19,478.69	\$5,455.95	\$1,366.16	\$204.49	\$88.50	\$199.17

Non-Active Use Rates

Hourly

Standby Rate	\$53.12
Idling Rate	\$133.22

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	30%	\$6,715.50/mo
Overhaul (ownership)	52%	\$11,640.20/mo
CFC (ownership)	7%	\$1,566.95/mo
Indirect (ownership)	11%	\$2,462.35/mo
Fuel (operating) @ 3.01	25%	\$22.55/hr

Revised Date: 2nd Half 2018

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Adjustments for 06-053 in MT Eq *EARTHMOVING* EXCAVATORS / ATTCH.

November 6, 2018

Komatsu PC300LC-7 (disc. 2007)
 Crawler Mounted Hydraulic Excavators

 Size Class:
 33.1 - 40.0 MTons
 Weight:
 75,376 lbs.

Configuration for PC300LC-7 (disc. 2007)

Power Mode	Diesel	Net Horsepower	246 hp
Bucket Capacity - Heaped	2.56 cu yd	Operating Weight	34.2 mt

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$11,920.00	\$3,340.00	\$835.00	\$125.00	\$72.45	\$140.18
Adjustments						
Region (Montana: 101.4%)	\$166.88	\$46.76	\$11.69	\$1.75		
Model Year (2006: 98.6%)	(\$169.22)	(\$47.41)	(\$11.85)	(\$1.77)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$11,917.66	\$3,339.35	\$834.84	\$124.98	\$72.45	\$140.16

Non-Active Use Rates

	Hourly
Standby Rate	\$34.53
Idling Rate	\$98.81

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	\$4,410.40/mo
Overhaul (ownership)	49%	\$5,840.80/mo
CFC (ownership)	7%	\$834.40/mo
Indirect (ownership)	7%	\$834.40/mo
Fuel (operating) @ 3.01	43%	\$31.10/hr

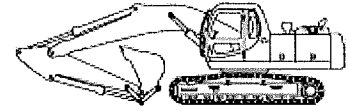
Revised Date: 2nd Half 2018

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Adjustments for 06-047 in MT Eq *EARTHMOVING* EXCAVATORS / ATTCH.

November 6, 2018

Caterpillar 330C L (disc. 2006)
 Crawler Mounted Hydraulic Excavators

 Size Class:
 33.1 - 40.0 MTons
 Weight:
 77,400 lbs.

Configuration for 330C L (disc. 2006)

Power Mode	Diesel	Net Horsepower	244 hp
Bucket Capacity - Heaped	2.25 cu yd	Operating Weight	35.1 mt

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$13,420.00	\$3,760.00	\$940.00	\$140.00	\$76.15	\$152.40
Adjustments						
Region (Montana: 101.4%)	\$187.88	\$52.64	\$13.16	\$1.96		
Model Year (2005: 98.2%)	(\$244.94)	(\$68.63)	(\$17.16)	(\$2.56)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$13,362.94	\$3,744.01	\$936.00	\$139.40	\$76.15	\$152.08

Non-Active Use Rates

Hourly

Standby Rate	\$38.72
Idling Rate	\$106.78

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	37%	\$4,965.40/mo
Overhaul (ownership)	49%	\$6,575.80/mo
CFC (ownership)	7%	\$939.40/mo
Indirect (ownership)	7%	\$939.40/mo
Fuel (operating) @ 3.01	41%	\$30.85/hr

Revised Date: 2nd Half 2018

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Adjustments for 40-02 RLR BCKT in MT Eq *EARTHMOVING* EXCAVATORS / ATTCH.

November 6, 2018

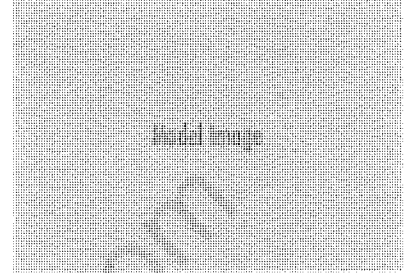
Miscellaneous 46EXL

Compaction Wheels For Backhoe Mounting

Size Class:

Large-For Hyd Excav

Weight:

5,950 lbs.

Configuration for 46EXL

Power Mode	Manual	Mounting Type	Excavator Large
Recommended Machine Weight	22.7 MT - 49.9 MT	Width	46 in

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$1,055.00	\$295.00	\$74.00	\$11.00	\$2.70	\$8.69
Adjustments						
Region (Montana: 101.4%)	\$14.77	\$4.13	\$1.04	\$0.15		
Model Year (1996: 64.6%)	(\$378.70)	(\$105.89)	(\$26.56)	(\$3.95)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$691.07	\$193.24	\$48.48	\$7.20	\$2.70	\$6.63

Non-Active Use Rates

	Hourly
Standby Rate	\$3.93
Idling Rate	\$3.93

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	84%	\$886.20/mo
Overhaul (ownership)	0%	\$0.00/mo
CFC (ownership)	6%	\$63.30/mo
Indirect (ownership)	10%	\$105.50/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd Half 2018

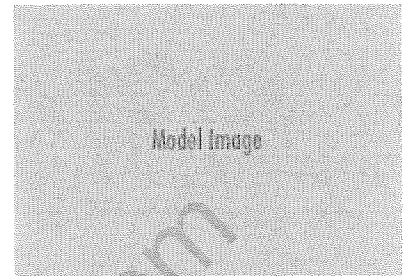
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Adjustments for 21-168 in MT Eq *ELECTRICAL* GENERATORS

November 6, 2018

Miscellaneous DIESEL 60 KW
 Large Generator Sets

 Size Class:
51 - 100 KW
 Weight:
 N/A

Configuration for DIESEL 60 KW

Power Mode	Diesel	Horsepower	88
Enclosure	Enclosed	Prime Output @ 60 Hz	60 kW

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$1,405.00	\$395.00	\$99.00	\$15.00	\$22.05	\$30.03
Adjustments						
Region (Montana: 100.7%)	\$9.83	\$2.76	\$0.69	\$0.10		
Model Year (2006: 89.5%)	(\$148.56)	(\$41.77)	(\$10.47)	(\$1.59)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,266.27	\$355.99	\$89.22	\$13.51	\$22.05	\$29.24

Non-Active Use Rates

	Hourly
Standby Rate	\$4.46
Idling Rate	\$21.49

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	\$576.05/mo
Overhaul (ownership)	38%	\$533.90/mo
CFC (ownership)	7%	\$98.35/mo
Indirect (ownership)	14%	\$196.70/mo
Fuel (operating) @ 3.01	65%	\$14.30/hr

Revised Date: 2nd Half 2018

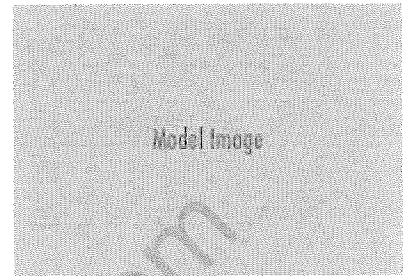
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Adjustments for 21-169 in MT Eq *ELECTRICAL* GENERATORS

November 6, 2018

Miscellaneous DIESEL 30 KW
 Large Generator Sets

 Size Class:
 20 - 50 KW
 Weight:
 N/A

Configuration for DIESEL 30 KW

Power Mode	Diesel	Horsepower	48
Enclosure	Enclosed	Prime Output @ 60 Hz	30 kW

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$985.00	\$275.00	\$69.00	\$10.00	\$13.35	\$18.95
Adjustments						
Region (Montana: 100.7%)	\$6.89	\$1.92	\$0.48	\$0.07		
Model Year (2006: 89.5%)	(\$104.15)	(\$29.08)	(\$7.30)	(\$1.06)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$887.74	\$247.84	\$62.18	\$9.01	\$13.35	\$18.39

Non-Active Use Rates

	Hourly
Standby Rate	\$3.13
Idling Rate	\$12.84

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	\$403.85/mo
Overhaul (ownership)	38%	\$374.30/mo
CFC (ownership)	7%	\$68.95/mo
Indirect (ownership)	14%	\$137.90/mo
Fuel (operating) @ 3.01	58%	\$7.80/hr

Revised Date: 2nd Half 2018

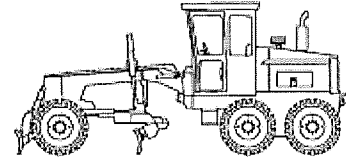
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Adjustments for 08-015 in MT Eq *EARTHMOVING* DOZERS / GRADERS

November 6, 2018

Caterpillar 140H
 Articulated Frame Graders

 Size Class:
 145 - 169 HP
 Weight:
 32,357 lbs.

Configuration for 140H

Power Mode	Diesel	Net Horsepower	165 hp
Operator Protection	EROPS	Moldboard Size	12 ft

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$7,130.00	\$1,995.00	\$500.00	\$75.00	\$40.60	\$81.11
Adjustments						
Region (Montana: 101.2%)	\$85.56	\$23.94	\$6.00	\$0.90		
Model Year (1986: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$7,215.56	\$2,018.94	\$506.00	\$75.90	\$40.60	\$81.60

Non-Active Use Rates

	Hourly
Standby Rate	\$20.91
Idling Rate	\$59.87

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	33%	\$2,352.90/mo
Overhaul (ownership)	49%	\$3,493.70/mo
CFC (ownership)	8%	\$570.40/mo
Indirect (ownership)	10%	\$713.00/mo
Fuel (operating) @ 3.01	46%	\$18.87/hr

Revised Date: 2nd Half 2018

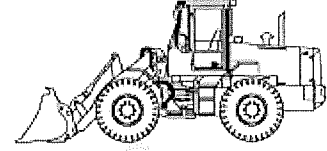
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Adjustments for 09-63 in MT Eq *EARTHMOVING* LOADERS

November 6, 2018

Caterpillar 950H (disc. 2012)
 4-Wd Articulated Wheel Loaders

 Size Class:
 175 - 199 HP
 Weight:
 40,435 lbs.

Configuration for 950H (disc. 2012)

Power Mode	Diesel	Net Horsepower	197 hp
Operator Protection	EROPS	Bucket Capacity - Heaped	4 cu yd

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$5,445.00	\$1,525.00	\$380.00	\$57.00	\$37.00	\$67.94
Adjustments						
Region (Montana: 101.2%)	\$65.34	\$18.30	\$4.56	\$0.68		
Model Year (2012: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$5,510.34	\$1,543.30	\$384.56	\$57.68	\$37.00	\$68.31

Non-Active Use Rates

	Hourly
Standby Rate	\$19.10
Idling Rate	\$50.40

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	41%	\$2,232.45/mo
Overhaul (ownership)	39%	\$2,123.55/mo
CFC (ownership)	9%	\$490.05/mo
Indirect (ownership)	11%	\$598.95/mo
Fuel (operating) @ 3.01	52%	\$19.09/hr

Revised Date: 2nd Half 2018

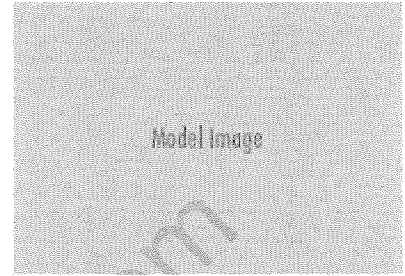
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Adjustments for 14-167 in MT Eq *PUMPS* STANDARD

November 6, 2018

Miscellaneous 6" GASOLINE
 Self Priming Trash Pumps

 Size Class:
6" & Over
 Weight:
1,600 lbs.

Configuration for 6" GASOLINE

Power Mode	Gasoline	Horsepower	90
CPB Rating	70MT	Pump Size	6 in
Pump Capacity	90000 gal/hr		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,585.00	\$445.00	\$110.00	\$17.00	\$30.70	\$39.71
Adjustments						
Region (Montana: 98.6%)	(\$22.19)	(\$6.23)	(\$1.54)	(\$0.24)		
Model Year (2008: 93.8%)	(\$96.89)	(\$27.20)	(\$6.72)	(\$1.04)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,465.92	\$411.57	\$101.74	\$15.72	\$30.70	\$39.03

Non-Active Use Rates

	Hourly
Standby Rate	\$4.83
Idling Rate	\$32.52

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	45%	\$713.25/mo
Overhaul (ownership)	42%	\$665.70/mo
CFC (ownership)	4%	\$63.40/mo
Indirect (ownership)	9%	\$142.65/mo
Fuel (operating) @ 2.56	79%	\$24.19/hr

Revised Date: 2nd Half 2018

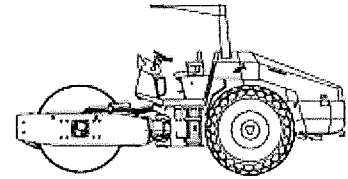
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Adjustments for 11-043 in MT Eq COMPACTORS

November 6, 2018

Ingersoll Rand SD70F (disc. 2006)
 Single Drum Vibratory Compactors

 Size Class:
 5.0 - 7.9 MTons
 Weight:
 17,780 lbs.

Configuration for SD70F (disc. 2006)

Drum Type	Padfoot	Drum Width	66 in
Power Mode	Diesel	Net Horsepower	99 hp

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$3,735.00	\$1,045.00	\$260.00	\$39.00	\$29.95	\$51.17
Adjustments						
Region (Montana: 99.3%)	(\$26.15)	(\$7.32)	(\$1.82)	(\$0.27)		
Model Year (2002: 96.5%)	(\$129.81)	(\$36.32)	(\$9.04)	(\$1.36)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,579.04	\$1,001.36	\$249.14	\$37.37	\$29.95	\$50.29

Non-Active Use Rates

	Hourly
Standby Rate	\$14.64
Idling Rate	\$28.09

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	50%	\$1,867.50/mo
Overhaul (ownership)	28%	\$1,045.80/mo
CFC (ownership)	10%	\$373.50/mo
Indirect (ownership)	12%	\$448.20/mo
Fuel (operating) @ 3.01	26%	\$7.75/hr

Revised Date: 2nd Half 2018

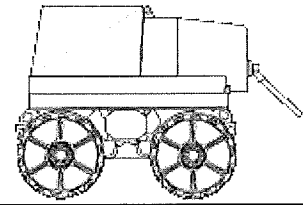
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Adjustments for 11-069 in MT Eq COMPACTORS

November 6, 2018

Wacker Neuson RT82-SC (disc. 2013)
 Trench Compactors

 Size Class:
 26 - 34 Inches
 Weight:
 3,247 lbs.

Configuration for RT82-SC (disc. 2013)

Drum Width	32 in	Number of Drums	4
Power Mode	Diesel	Net Horsepower	18 hp

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$3,320.00	\$930.00	\$235.00	\$35.00	\$11.25	\$30.11
Adjustments						
Region (Montana: 99.3%)	(\$23.24)	(\$6.51)	(\$1.65)	(\$0.25)		
Model Year (2005: 93%)	(\$230.77)	(\$64.64)	(\$16.33)	(\$2.43)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,065.99	\$858.85	\$217.02	\$32.32	\$11.25	\$28.67

Non-Active Use Rates

	Hourly
Standby Rate	\$7.84
Idling Rate	\$19.63

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	33%	\$1,095.60/mo
Overhaul (ownership)	55%	\$1,826.00/mo
CFC (ownership)	5%	\$166.00/mo
Indirect (ownership)	7%	\$232.40/mo
Fuel (operating) @ 3.01	20%	\$2.21/hr

Revised Date: 2nd Half 2018

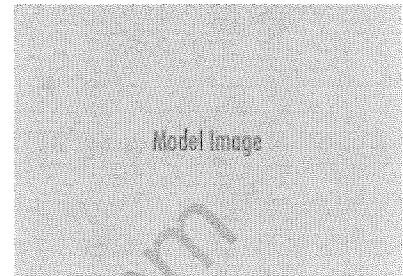
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Adjustments for 03-066 in MT Eq *TRUCKS* HEAVY DUTY

November 6, 2018

Miscellaneous 4X2 30KGVW DSL
 On-Highway Flatbed Trucks

 Size Class:
26,001 - 33,000 GVW
 Weight:
8,994 lbs.

Configuration for 4X2 30KGVW DSL

Axle Configuration	4X2	Power Mode	Diesel
Horsepower	217	Maximum Gross Vehicle Weight	30000 lbs

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,900.00	\$530.00	\$135.00	\$20.00	\$20.60	\$31.40
Adjustments						
Region (Montana: 100.3%)	\$5.70	\$1.59	\$0.41	\$0.06		
Model Year (1995: 79.8%)	(\$384.95)	(\$107.38)	(\$27.35)	(\$4.05)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,520.75	\$424.21	\$108.06	\$16.01	\$20.60	\$29.24

Non-Active Use Rates

	Hourly
Standby Rate	\$5.88
Idling Rate	\$21.44

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	49%	\$931.00/mo
Overhaul (ownership)	32%	\$608.00/mo
CFC (ownership)	7%	\$133.00/mo
Indirect (ownership)	12%	\$228.00/mo
Fuel (operating) @ 3.01	62%	\$12.80/hr

Revised Date: 2nd Half 2018

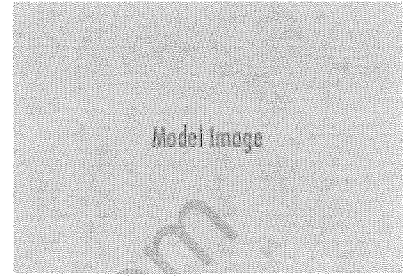
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Rental Rate Blue Book®

November 6, 2018

GMC/CHEVY 1500
 On-Highway Light Duty Trucks

 Size Class:
200 - 299 HP
 Weight:
 N/A

Configuration for 1500

Axle Configuration	4 x 4	Power Mode	Gasoline
Cab Type	Crew	Horsepower	280 hp
Ton Rating	1 / 2		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,180.00	\$330.00	\$83.00	\$12.00	\$17.95	\$24.65
Adjustments						
Region (Montana: 100.3%)	\$3.54	\$0.99	\$0.25	\$0.04		
Model Year (2018: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,183.54	\$330.99	\$83.25	\$12.04	\$17.95	\$24.67

Non-Active Use Rates

	Hourly
Standby Rate	\$4.84
Idling Rate	\$20.34

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	57%	\$672.60/mo
Overhaul (ownership)	28%	\$330.40/mo
CFC (ownership)	5%	\$59.00/mo
Indirect (ownership)	10%	\$118.00/mo
Fuel (operating) @ 2.56	76%	\$13.62/hr

Revised Date: 2nd Half 2018

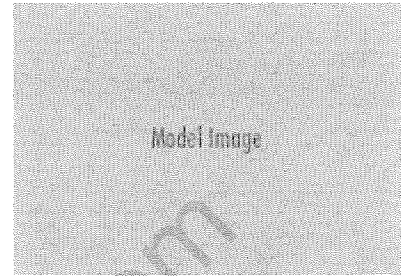
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Rental Rate Blue Book®

November 6, 2018

GMC/CHEVY 2500
 On-Highway Light Duty Trucks

 Size Class:
200 - 299 HP
 Weight:
 N/A

Configuration for 2500

Axle Configuration	4 x 2	Power Mode	Gasoline
Cab Type	Crew	Horsepower	280 hp
Ton Rating	3 / 4		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,075.00	\$300.00	\$75.00	\$11.00	\$17.75	\$23.86
Adjustments						
Region (Montana: 100.3%)	\$3.23	\$0.90	\$0.23	\$0.03		
Model Year (2018: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,078.23	\$300.90	\$75.23	\$11.03	\$17.75	\$23.88

Non-Active Use Rates

	Hourly
Standby Rate	\$4.41
Idling Rate	\$19.75

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	57%	\$612.75/mo
Overhaul (ownership)	28%	\$301.00/mo
CFC (ownership)	5%	\$53.75/mo
Indirect (ownership)	10%	\$107.50/mo
Fuel (operating) @ 2.56	77%	\$13.62/hr

Revised Date: 2nd Half 2018

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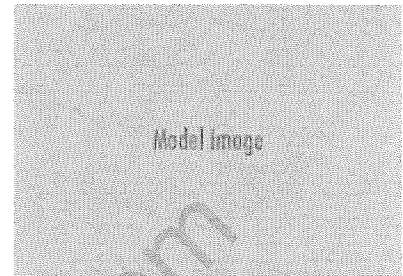
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Adjustments for 02-210 in MT Eq *TRUCKS* LIGHT DUTY

November 6, 2018

Miscellaneous 4X4 3/4 285 CONV GAS

On-Highway Light Duty Trucks

 Size Class:
 200 - 299 HP
 Weight:
 N/A

Configuration for 4X4 3/4 285 CONV GAS

Axle Configuration	4X4	Power Mode	Gasoline
Horsepower	285	Cab Type	Conventional
Ton Rating	3/4		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$840.00	\$235.00	\$59.00	\$9.00	\$17.60	\$22.37
Adjustments						
Region (Montana: 100.3%)	\$2.52	\$0.71	\$0.18	\$0.03		
Model Year (2012: 95.8%)	(\$35.39)	(\$9.90)	(\$2.49)	(\$0.38)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$807.13	\$225.81	\$56.69	\$8.65	\$17.60	\$22.19

Non-Active Use Rates

	Hourly
Standby Rate	\$3.30
Idling Rate	\$18.45

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	57%	\$478.80/mo
Overhaul (ownership)	28%	\$235.20/mo
CFC (ownership)	5%	\$42.00/mo
Indirect (ownership)	10%	\$84.00/mo
Fuel (operating) @ 2.56	79%	\$13.86/hr

Revised Date: 2nd Half 2018

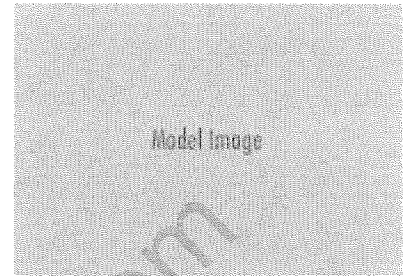
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Adjustments for 03-082 in MT Eq *TRUCKS* HEAVY DUTY

November 6, 2018

Miscellaneous 6X4 75KGVW DSL
 On-Highway Truck Tractors

 Size Class:
60,001 GVW & Over
 Weight:
19,688 lbs.

Configuration for 6X4 75KGVW DSL

Axle Configuration	6X4	Power Mode	Diesel
Horsepower	400	Maximum Gross Vehicle Weight	75000 lbs

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$4,080.00	\$1,140.00	\$285.00	\$43.00	\$46.90	\$70.08
Adjustments						
Region (Montana: 100.3%)	\$12.24	\$3.42	\$0.86	\$0.13		
Model Year (2015: 98.6%)	(\$57.29)	(\$16.01)	(\$4.00)	(\$0.60)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$4,034.95	\$1,127.41	\$281.86	\$42.53	\$46.90	\$69.83

Non-Active Use Rates

	Hourly
Standby Rate	\$12.84
Idling Rate	\$52.43

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	42%	\$1,713.60/mo
Overhaul (ownership)	44%	\$1,795.20/mo
CFC (ownership)	5%	\$204.00/mo
Indirect (ownership)	9%	\$367.20/mo
Fuel (operating) @ 3.01	63%	\$29.50/hr

Revised Date: 2nd Half 2018

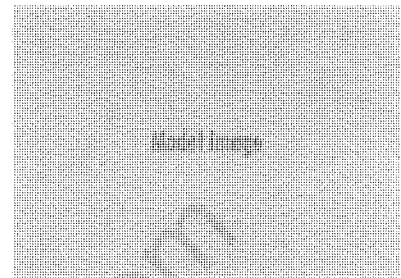
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Adjustments for 03-071 in MT Eq *TRUCKS* HEAVY DUTY

November 6, 2018

Miscellaneous DSL 6X4 4000
 On-Highway Water Tankers

 Size Class:
200 HP & Over
 Weight:
14,000 lbs.

Configuration for DSL 6X4 4000

Power Mode	Diesel	Horsepower	250
Tank Capacity	4000 gal		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$3,870.00	\$1,085.00	\$270.00	\$41.00	\$33.85	\$55.84
Adjustments						
Region (Montana: 100.3%)	\$11.61	\$3.26	\$0.81	\$0.12		
Model Year (2006: 88.9%)	(\$430.86)	(\$120.80)	(\$30.06)	(\$4.56)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,450.75	\$967.46	\$240.75	\$36.56	\$33.85	\$53.46

Non-Active Use Rates

Hourly

Standby Rate	\$13.53
Idling Rate	\$38.42

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	50%	\$1,935.00/mo
Overhaul (ownership)	31%	\$1,199.70/mo
CFC (ownership)	7%	\$270.90/mo
Indirect (ownership)	12%	\$464.40/mo
Fuel (operating) @ 3.01	56%	\$18.81/hr

Revised Date: 2nd Half 2018

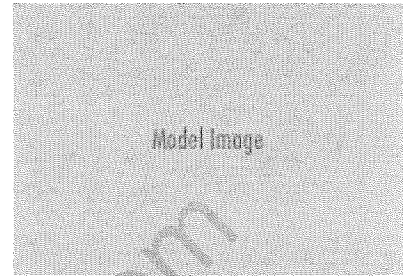
These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for RICK MORRISON (morrison@copconstruction.com)

Adjustments for 04-128 in MT Eq *TRAILERS* WORK

November 6, 2018

Load King 2066-40-3
 Off-Highway Bottom Dump Trailers

 Size Class:
To 99 MTons
 Weight:
14,700 lbs.

Configuration for 2066-40-3

 Payload **33 t** Capacity **20 cu yd**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$3,605.00	\$1,010.00	\$255.00	\$38.00	\$20.15	\$40.63
Adjustments						
Region (Montana: 99.5%)	(\$18.02)	(\$5.05)	(\$1.27)	(\$0.19)		
Model Year (2010: 97.3%)	(\$96.85)	(\$27.13)	(\$6.85)	(\$1.02)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,490.13	\$977.82	\$246.88	\$36.79	\$20.15	\$39.98

Non-Active Use Rates

Hourly

Standby Rate	\$7.34
Idling Rate	\$19.83

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	28%	\$1,009.40/mo
Overhaul (ownership)	63%	\$2,271.15/mo
CFC (ownership)	3%	\$108.15/mo
Indirect (ownership)	6%	\$216.30/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd Half 2018

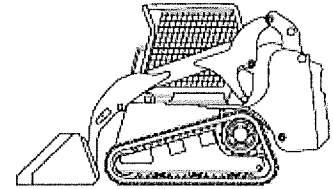
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Rental Rate Blue Book®

November 6, 2018

Caterpillar 279D
 Compact Track Loaders

 Size Class:
 1751 - 2200 lbs
 Weight:
 N/A

Configuration for 279D

Power Mode	Diesel	Net Horsepower	73 hp
Operator Protection	ROPS/FOPS	Oper. Cap. (35% of Tip Load)	2055 lbs

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$4,390.00	\$1,230.00	\$310.00	\$47.00	\$18.05	\$42.99
Adjustments						
Region (Montana: 101.2%)	\$52.68	\$14.76	\$3.72	\$0.56		
Model Year (2018: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$4,442.68	\$1,244.76	\$313.72	\$47.56	\$18.05	\$43.29

Non-Active Use Rates

	Hourly
Standby Rate	\$12.37
Idling Rate	\$33.37

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	35%	\$1,536.50/mo
Overhaul (ownership)	51%	\$2,238.90/mo
CFC (ownership)	5%	\$219.50/mo
Indirect (ownership)	9%	\$395.10/mo
Fuel (operating) @ 3.01	45%	\$8.13/hr

Revised Date: 2nd Half 2018

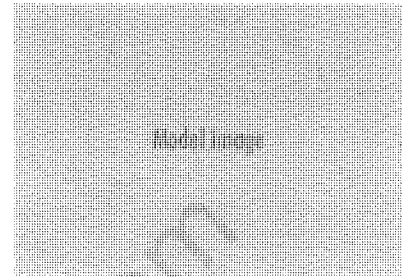
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Adjustments for 05-033 in MT Eq *TRAILERS* OFFICE

November 6, 2018

Miscellaneous 8X20
 Standard Field Office Trailers

 Size Class:
 All
 Weight:
 2,900 lbs.

Configuration for 8X20

 Trailer Size **8' X 20'**
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	\$190.00	\$53.00	\$13.00	\$2.00	\$0.95	\$2.03
Adjustments						
Region (Montgomery, Alabama: 96.8%)	(\$6.08)	(\$1.70)	(\$0.42)	(\$0.06)		
Model Year (2016: 98.1%)	(\$3.49)	(\$0.97)	(\$0.24)	(\$0.04)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$180.43	\$50.33	\$12.34	\$1.90	\$0.95	\$1.98

Non-Active Use Rates

	Hourly
Standby Rate	\$0.74
Idling Rate	\$1.03

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	50%	\$95.00/mo
Overhaul (ownership)	28%	\$53.20/mo
CFC (ownership)	7%	\$13.30/mo
Indirect (ownership)	15%	\$28.50/mo

Fuel cost data is not available for these rates.

Revised Date: 2nd Half 2018

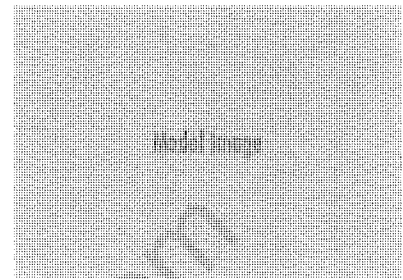
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Adjustments for 14-011 in MT Eq *PUMPS* STANDARD

November 6, 2018

Miscellaneous 40M DIESEL ELECTRIC START
 Heavy Duty Centrifugal Pumps

 Size Class:
 4" - 6"
 Weight:
 1,000 lbs.

Configuration for 40M DIESEL ELECTRIC START

Power Mode	Diesel	Horsepower	45
CPB Rating	40M	Size	4 in
Pump Capacity	40000 gal/hr		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,375.00	\$385.00	\$96.00	\$14.00	\$12.30	\$20.11
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2001: 94.4%)	(\$77.00)	(\$21.56)	(\$5.38)	(\$0.78)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,298.00	\$363.44	\$90.62	\$13.22	\$12.30	\$19.68

Non-Active Use Rates

	Hourly
Standby Rate	\$2.51
Idling Rate	\$12.81

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	22%	\$302.50/mo
Overhaul (ownership)	66%	\$907.50/mo
CFC (ownership)	4%	\$55.00/mo
Indirect (ownership)	8%	\$110.00/mo
Fuel (operating) @ 3.01	44%	\$5.43/hr

Revised Date: 2nd Half 2018

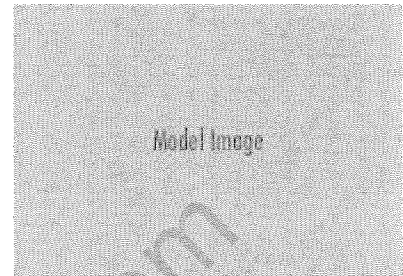
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Adjustments for 14-135 in MT Eq *PUMPS* DEWATERING

November 6, 2018

Miscellaneous 90M DIESEL ELECTRIC START
 Heavy Duty Centrifugal Pumps

 Size Class:
 4" - 6"
 Weight:
 1,900 lbs.

Configuration for 90M DIESEL ELECTRIC START

Power Mode	Diesel	Horsepower	70
CPB Rating	90M	Size	6 in
Pump Capacity	90000 gal/hr		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$1,605.00	\$450.00	\$115.00	\$17.00	\$16.25	\$25.37
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2016: 99.4%)	(\$9.63)	(\$2.70)	(\$0.69)	(\$0.10)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$1,595.37	\$447.30	\$114.31	\$16.90	\$16.25	\$25.31

Non-Active Use Rates

Hourly

Standby Rate	\$3.08
Idling Rate	\$17.51

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	22%	\$353.10/mo
Overhaul (ownership)	66%	\$1,059.30/mo
CFC (ownership)	4%	\$64.20/mo
Indirect (ownership)	8%	\$128.40/mo
Fuel (operating) @ 3.01	52%	\$8.45/hr

Revised Date: 2nd Half 2018

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Adjustments for 03-079 in MT Eq *TRUCKS* HEAVY DUTY

November 9, 2018

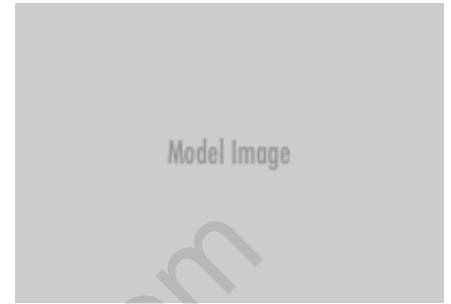
Miscellaneous 6X4 12YD 50KGWV

On-Highway Rear Dumps

Size Class:

45,001 - 60,000 GVW

Weight:

14,607 lbs.

Configuration for 6X4 12YD 50KGWV

Struck Capacity	10 cu yd - 12 cu yd	Axle Configuration	6X4
Power Mode	Diesel	Horsepower	400
Maximum Gross Vehicle Weight	50000 lbs		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	\$3,770.00	\$1,055.00	\$265.00	\$40.00	\$49.80	\$71.22
Adjustments						
Region (100%)	-	-	-	-		
Model Year (2006: 87.8%)	(\$459.94)	(\$128.71)	(\$32.33)	(\$4.88)		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	\$3,310.06	\$926.29	\$232.67	\$35.12	\$49.80	\$68.61

Non-Active Use Rates

	Hourly
Standby Rate	\$12.79
Idling Rate	\$52.52

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	51%	\$1,922.70/mo
Overhaul (ownership)	32%	\$1,206.40/mo
CFC (ownership)	6%	\$226.20/mo
Indirect (ownership)	11%	\$414.70/mo
Fuel (operating) @ 3.01	68%	\$33.71/hr

Revised Date: 2nd Half 2018

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Exhibit C
CM/GC Fee

COP Construction LLC

Exhibit C: CM/GC Fee Proposal Form

Project Information: City of Billings City County Drain

A fee for the work expressed as a percentage of the total construction cost. The fee includes the Contractor's profit and the portion of home office overhead (G&A: General and Administrative Costs) allocated to the project. The fixed fee percentage will be used in project estimates and the contract. The multiplier is identified as a percentage and carried out to two (2) decimal points (e.g., 00.00%).

CM/GC Construction Fee:

13 . 00 %

Exhibit D
30% Schedule

Activity ID	Activity Name	Start	Finish	Original Duration	Total Float	2018												2019											
						November			December			January			February			March			April			May			June		
						12	19	26	03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15	22
WO 18-30 City/County Drain Mitig...		Dec-03-18	May-01-19	108	0	May-01-19, WO 18-30 C																							
A1000	Notice to Proceed	Dec-03-18*		0	0	◆ Notice to Proceed																							
A1010	Mobilization	Dec-03-18	Dec-06-18	4	0	■ Mobilization																							
A1020	Clear & Grub	Dec-06-18	Dec-12-18	5	0	■ Clear & Grub																							
A1030	Dewatering	Dec-10-18	Dec-28-18	15	0	■ Dewatering																							
A1040	Remove Dike	Dec-10-18	Dec-11-18	2	2	■ Remove Dike																							
A1050	Outlet Structure	Dec-12-18	Dec-25-18	10	2	■ Outlet Structure																							
A1055	Start Winter Shutdown	Dec-28-18*		0	0	◆ Start Winter Shutdown																							
A1056	End Winter Shutdown		Feb-01-19*	0	0	◆ End Winter Shutdown																							
A1060	Pipe Delivery	Feb-01-19	Mar-25-19	37	0	■ Pipe Delivery																							
A1070	48" RCP	Feb-11-19	Apr-01-19	36	0	■ 48" RCP																							
A1080	Diversion Structure	Feb-25-19	Apr-12-19	35	0	■ Diversion Structure																							
A1090	Gate Delivery	Apr-12-19	Apr-12-19	1	0	■ Gate Delivery																							
A1100	Control Gate	Apr-15-19	Apr-19-19	5	0	■ Control Gate																							
A1110	Electrical	Apr-15-19	Apr-26-19	10	0	■ Electrical																							
A1120	AC Paving	May-01-19	May-01-19	1	0	■ AC Paving																							
A1130	Seeding	Apr-30-19	May-01-19	2	0	■ Seeding																							

■ Remaining Level of Effort
 ■ Actual Work
 ■ Critical Remaining W...
■ Actual Level of Effort
 ■ Remaining Work
 ◆ Milestone

Exhibit F
State Prevailing Wage Rates

**MONTANA
PREVAILING WAGE RATES FOR HEAVY CONSTRUCTION SERVICES 2018**

Effective: January 27, 2018

**Steve Bullock, Governor
State of Montana**

**Galen Hollenbaugh, Commissioner
Department of Labor and Industry**

To obtain copies of prevailing wage rate schedules, or for information relating to public works projects and payment of prevailing wage rates, visit ERD at www.mtwagehourbopa.com or contact:

Employment Relations Division
Montana Department of Labor and Industry
P. O. Box 201503
Helena, MT 59620-1503
Phone 406-444-5600
TDD 406-444-5549

The Labor Standards Bureau welcomes questions, comments, and suggestions from the public. In addition, we'll do our best to provide information in an accessible format, upon request, in compliance with the Americans with Disabilities Act.

MONTANA PREVAILING WAGE REQUIREMENTS

The Commissioner of the Department of Labor and Industry, in accordance with Sections 18-2-401 and 18-2-402 of the Montana Code Annotated (MCA), has determined the standard prevailing rate of wages for the occupations listed in this publication.

The wages specified herein control the prevailing rate of wages for the purposes of Section 18-2-401, et seq., MCA. It is required each employer pay (as a minimum) the rate of wages, including fringe benefits, travel allowance, zone pay and per diem applicable to the district in which the work is being performed as provided in the attached wage determinations.

All Montana Prevailing Wage Rates are available on the internet at www.mtwagehourbopa.com or by contacting the Labor Standards Bureau at (406) 444-5600 or TDD (406) 444-5549.

In addition, this publication provides general information concerning compliance with Montana's Prevailing Wage Law and the payment of prevailing wages. For detailed compliance information relating to public works contracts and payment of prevailing wage rates, please consult the regulations on the internet at www.mtwagehourbopa.com or contact the Labor Standards Bureau at (406) 444-5600 or TDD (406) 444-5549.

GALEN HOLLENBAUGH
Commissioner
Department of Labor and Industry
State of Montana

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A. Date of Publication January 27, 2018

B. Definition of Heavy Construction

The Administrative Rules of Montana (ARM), 24.17.501(4) – (4)(a), states “*Heavy construction projects include, but are not limited to, those projects that are not properly classified as either ‘building construction’, or ‘highway construction.’*”

Heavy construction projects include, but are not limited to, antenna towers, bridges (major bridges designed for commercial navigation), breakwaters, caissons (other than building or highway), canals, channels, channel cut-offs, chemical complexes or facilities (other than buildings), cofferdams, coke ovens, dams, demolition (not incidental to construction), dikes, docks, drainage projects, dredging projects, electrification projects (outdoor), fish hatcheries, flood control projects, industrial incinerators (other than building), irrigation projects, jetties, kilns, land drainage (not incidental to other construction), land leveling (not incidental to other construction), land reclamation, levees, locks and waterways, oil refineries (other than buildings), pipe lines, ponds, pumping stations (prefabricated drop-in units – not buildings), railroad construction, reservoirs, revetments, sewage collection and disposal lines, sewers (sanitary, storm, etc.), shoreline maintenance, ski tows, storage tanks, swimming pools (outdoor), subways (other than buildings), tipples, tunnels, unsheltered piers and wharves, viaducts (other than highway), water mains, waterway construction, water supply lines (not incidental to building), water and sewage treatment plants (other than buildings) and wells.”

C. Definition of Public Works Contract

Section 18-2-401(11)(a), MCA defines “public works contract” as “...*a contract for construction services let by the state, county, municipality, school district, or political subdivision or for nonconstruction services let by the state, county, municipality, or political subdivision in which the total cost of the contract is in excess of \$25,000...*”.

D. Prevailing Wage Schedule

This publication covers only Heavy Construction occupations and rates in the specific localities mentioned herein. These rates will remain in effect until superseded by a more current publication. Current prevailing wage rate schedules for Building Construction, Highway Construction and Nonconstruction Services occupations can be found on the internet at www.mtwagehourbopa.com or by contacting the Labor Standards Bureau at (406) 444-5600 or TDD (406) 444-5549.

E. Rates to Use for Projects

ARM, 24.17.127(1)(c), states “*The wage rates applicable to a particular public works project are those in effect at the time the bid specifications are advertised.*”

F. Wage Rate Adjustments for Multiyear Contracts

Section 18-2-417, MCA states:

“(1) Any public works contract that by the terms of the original contract calls for more than 30 months to fully perform must include a provision to adjust, as provided in subsection (2), the standard prevailing rate of wages to be paid to the workers performing the contract.

(2) The standard prevailing rate of wages paid to workers under a contract subject to this section must be adjusted 12 months after the date of the award of the public works contract. The amount of the adjustment must be a 3% increase. The adjustment must be made and applied every 12 months for the term of the contract.

(3) Any increase in the standard rate of prevailing wages for workers under this section is the sole responsibility of the contractor and any subcontractors and not the contracting agency.”

G. Fringe Benefits

Section 18-2-412, MCA states:

“(1) To fulfill the obligation...a contractor or subcontractor may:

(a) pay the amount of fringe benefits and the basic hourly rate of pay that is part of the standard prevailing rate of wages directly to the worker or employee in cash;

(b) make an irrevocable contribution to a trustee or a third person pursuant to a fringe benefit fund, plan, or program that meets the requirements of the Employee Retirement Income Security Act of 1974 or that is a bona fide program approved by the U. S. department of labor; or

(c) make payments using any combination of methods set forth in subsections (1)(a) and (1)(b) so that the aggregate of payments and contributions is not less than the standard prevailing rate of wages, including fringe benefits and travel allowances, applicable to the district for the particular type of work being performed.

(2) The fringe benefit fund, plan, or program described in subsection (1)(b) must provide benefits to workers or employees for health care, pensions on retirement or death, life insurance, disability and sickness insurance, or bona fide programs that meet the requirements of the Employee Retirement Income Security Act of 1974 or that are approved by the U. S. department of labor.”

Fringe benefits are paid for all hours worked (straight time and overtime hours). However, fringe benefits are not to be considered a part of the hourly rate of pay for calculating overtime, unless there is a collectively bargained agreement in effect that specifies otherwise.

H. Dispatch City

ARM, 24.17.103(11), defines dispatch city as *“...the courthouse in the city from the following list which is closest to the center of the job: Billings, Bozeman, Butte, Great Falls, Helena, Kalispell, and Missoula.”*

I. Zone Pay

Zone pay is not travel pay. ARM, 24.17.103(24), defines zone pay as *“...an amount added to the base pay; the combined sum then becomes the new base wage rate to be paid for all hours worked on the project. Zone pay must be determined by measuring the road miles one way over the shortest practical maintained route from the dispatch city to the center of the job.”* See section H above for a list of dispatch cities.

J. Computing Travel Benefits

ARM, 24.17.103(22), states *“ ‘Travel pay,’ also referred to as ‘travel allowance,’ is and must be paid for travel both to and from the job site, except those with special provisions listed under the classification. The rate is determined by measuring the road miles one direction over the shortest practical maintained route from the dispatch city or the employee's home, whichever is closer, to the center of the job.”* See section H above for a list of dispatch cities.

K. Per Diem

ARM, 24.17.103(18), states *“ ‘Per diem’ typically covers costs associated with board and lodging expenses. Per diem is paid when an employee is required to work at a location outside the daily commuting distance and is required to stay at that location overnight or longer.”*

L. Apprentices

Wage rates for apprentices registered in approved federal or state apprenticeship programs are contained in those programs. Additionally, Section 18-2-416(2), MCA states, *“...The full amount of any applicable fringe benefits must be paid to the apprentice while the apprentice is working on the public works contract.”* Apprentices not registered in approved federal or state apprenticeship programs will be paid the appropriate journey level prevailing wage rate when working on a public works contract.

M. Posting Notice of Prevailing Wages

Section 18-2-406, MCA, provides that contractors, subcontractors, and employers who are “...performing work or providing construction services under public works contracts, as provided in this part, shall post in a prominent and accessible site on the project or staging area, not later than the first day of work and continuing for the entire duration of the project, a legible statement of all wages and fringe benefits to be paid to the employees.”

N. Employment Preference

Sections 18-2-403 and 18-2-409, MCA require contractors to give preference to the employment of bona fide Montana residents in the performance of work on public works contracts.

O. Projects of a Mixed Nature

Section 18-2-408, MCA states:

“(1) The contracting agency shall determine, based on the preponderance of labor hours to be worked, whether the public works construction services project is classified as a highway construction project, a heavy construction project, or a building construction project.

“(2) Once the project has been classified, employees in each trade classification who are working on that project must be paid at the rate for that project classification”

P. Occupations Definitions

You can find definitions for these occupations on the following Bureau of Labor Statistics website:

http://www.bls.gov/oes/current/oes_stru.htm

Q. Welder Rates

Welders receive the rate prescribed for the craft performing an operation to which welding is incidental.

R. Foreman Rates

Rates are no longer set for foremen. However, if a foreman performs journey level work, the foreman must be paid at least the journey level rate.

S. Proper Classification for Pipefitter and Laborer/Pipelayer Work on Water and Waste Water Treatment Plants *

The proper classification for the following work is Pipefitter, when it is performed inside a building structure or performed at a location which will later be inside of a building: Joining steel pipe larger than 12 inches in diameter with bolted flange connections that has been pre-fabricated off site and does not require any modification such as cutting, grinding, welding, or other fabrication in order to be installed. All other work previously classified as pipefitter remains in that classification. The proper classification for that work when it is at a location that will always be outside a building is Pipelayer, which is under the Laborer Group 3 classification.

* Corrected April 28, 2018

WAGE RATES

BOILERMAKERS

Wage	Benefit
\$30.25	\$30.30

Duties Include:

Construct, assemble, maintain, and repair stationary steam boilers, boiler house auxiliaries, process vessels, pressure vessels and penstocks. Bulk storage tanks and bolted steel tanks.

Travel:

0-120 mi. free zone
>120 mi. federal mileage rate/mi.

Special Provision:

Travel is paid only at the beginning and end of the job.

Per Diem:

0-70 mi. free zone
>70-120 mi. \$55.00/day
>120 mi. \$70.00/day

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BRICK, BLOCK, AND STONE MASONS

Wage	Benefit
\$31.07	\$13.90

Travel:

0-20 mi. free zone
>20-35 mi. \$30.00/day
>35-55 mi. \$35.00/day
>55 mi. \$65.00/day

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CARPENTERS

Wage	Benefit
\$29.00	\$13.07

Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$4.00/hr.
>60 mi. base pay + \$6.00/hr.

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CEMENT MASONS AND CONCRETE FINISHERS

Wage	Benefit
\$21.73	\$10.51

Duties Include:

Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, or curbs. Align forms for sidewalks, curbs, or gutters.

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$2.95/hr.
>60 mi. base pay + \$4.75/hr.

CONSTRUCTION EQUIPMENT OPERATORS GROUP 1

Wage	Benefit
\$26.41	\$12.20

This group includes but is not limited to:

Air Compressor; Auto Fine Grader; Belt Finishing; Boring Machine (Small); Cement Silo; Crane, A-Frame Truck Crane; Crusher Conveyor; DW-10, 15, and 20 Tractor Roller; Farm Tractor; Forklift; Form Grader; Front-End Loader, under 1 cu. yd; Oiler, Heavy Duty Drills; Herman Nelson Heater; Mucking Machine; Oiler, All Except Cranes/Shovels; Pumpman.

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

CONSTRUCTION EQUIPMENT OPERATORS GROUP 2

Wage	Benefit
\$27.20	\$12.20

This group includes but is not limited to:

Air Doctor; Backhoe\Excavator\Shovel, up to and incl. 3 cu. yds; Bit Grinder; Bituminous Paving Travel Plant; Boring Machine, Large; Broom, Self-Propelled; Concrete Travel Batcher; Concrete Float & Spreader; Concrete Bucket Dispatcher; Concrete Finish Machine; Concrete Conveyor; Distributor; Dozer, Rubber-Tired, Push, & Side Boom; Elevating Grader\Gradall; Field Equipment Serviceman; Front-End Loader, 1 cu. yd up to and incl. 5 cu. yds; Grade Setter; Heavy Duty Drills, All Types; Hoist\Tugger, All; Hydralift Forklifts & Similar; Industrial Locomotive; Motor Patrol (except finish); Mountain Skidder; Oiler, Cranes\Shovels; Pavement Breaker, EMSCO; Power Saw, Self-Propelled; Pugmill; Pumpcrete\Grout Machine; Punch Truck; Roller, other than Asphalt; Roller, Sheepsfoot (Self-Propelled); Roller, 25 tons and over; Ross Carrier; Rotomill, under 6 ft; Trenching Machine; Washing /Screening Plant

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

CONSTRUCTION EQUIPMENT OPERATORS GROUP 3

Wage	Benefit
\$28.45	\$12.20

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:
Asphalt Paving Machine; Asphalt Screed;
Backhoe\Excavator\Shovel, over 3 cu. yds; Cableway
Highline; Concrete Batch Plant; Concrete Curing
Machine; Concrete Pump; Cranes, Creter; Cranes,
Electric Overhead; Cranes, 24 tons and under; Curb
Machine\Slip Form Paver; Finish Dozer; Front-End
Loader, over 5 cu. yds; Mechanic\Welder; Pioneer
Dozer; Roller Asphalt (Breakdown & Finish); Rotomill,
over 6 ft; Scraper, Single, Twin, or Pulling Belly-Dump;
YO-YO Cat.

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CONSTRUCTION EQUIPMENT OPERATORS GROUP 4

Wage	Benefit
\$29.45	\$12.20

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:
Asphalt\Hot Plant Operator; Cranes, 25 tons up to and
incl. 44 tons; Crusher Operator; Finish Motor Patrol;
Finish Scraper.

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CONSTRUCTION EQUIPMENT OPERATORS GROUP 5

Wage	Benefit
\$30.45	\$12.20

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:
Cranes, 45 tons up to and incl. 74 tons.

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CONSTRUCTION EQUIPMENT OPERATORS GROUP 6

Wage	Benefit
\$31.45	\$12.20

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:
Cranes, 75 tons up to and incl. 149 tons; Cranes,
Whirley (All).

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CONSTRUCTION EQUIPMENT OPERATORS GROUP 7

Wage	Benefit
\$32.45	\$12.20

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:
Cranes, 150 tons up to and incl. 250 tons; Cranes, over 250 tons—add \$1.00 for every 100 tons over 250 tons; Crane, Tower (All); Crane Stiff-Leg or Derrick; Helicopter Hoist.

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CONSTRUCTION LABORERS GROUP 1/FLAG PERSON FOR TRAFFIC CONTROL

Wage	Benefit
\$21.58	\$9.99

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$4.85/hr.

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CONSTRUCTION LABORERS GROUP 2

Wage	Benefit
\$24.40	\$9.99

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$4.85/hr.

This group includes but is not limited to:
General Labor; Asbestos Removal; Burning Bar; Bucket Man; Carpenter Tender; Caisson Worker; Cement Mason Tender; Cement Handler (dry); Chuck Tender; Choker Setter; Concrete Worker; Curb Machine-lay Down; Crusher and Batch Worker; Heater Tender; Fence Erector; Landscape Laborer; Landscaper; Lawn Sprinkler Installer; Pipe Wrapper; Pot Tender; Powderman Tender; Rail and Truck Loaders and Unloaders; Riprapper; Sign Erection; Guardrail and Jersey Rail; Spike Driver; Stake Jumper; Signalman; Tail Hoseman; Tool Checker and Houseman and Traffic Control Worker.

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CONSTRUCTION LABORERS GROUP 3

Wage	Benefit
\$24.54	\$9.99

This group includes but is not limited to:

Concrete Vibrator; Dumpman (Grademan); Equipment Handler; Geotextile and Liners; High-Pressure Nozzleman; Jackhammer (Pavement Breaker) Non-Riding Rollers; Pipelayer; Posthole Digger (Power); Power Driven Wheelbarrow; Rigger; Sandblaster (excluding all surface preparation work for paint); Sod Cutter-Power and Tamper. **See, Section S. ***

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$4.85/hr.

CONSTRUCTION LABORERS GROUP 4

Wage	Benefit
\$26.01	\$9.99

This group includes but is not limited to:

Hod Carrier***; Water Well Laborer; Blaster; Wagon Driller; Asphalt Raker; Cutting Torch; Grade Setter; High-Scaler; Power Saws (Faller & Concrete) Powderman; Rock & Core Drill; Track or Truck Mounted Wagon Drill and Welder incl. Air Arc.

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$4.85/hr.

***Hod Carriers will receive the same amount of travel and/or subsistence pay as bricklayers when requested to travel.

DIVERS

	Wage	Benefit
Stand-By	\$37.58	\$16.14
Diving	\$75.16	\$16.14

Depth Pay (Surface Diving)

0-20 ft.	free zone
>20-100 ft.	\$2.00 per ft.
>100-150 ft.	\$3.00 per ft.
>150-220 ft.	\$4.00 per ft.
>220 ft.	\$5.00 per ft.

Diving In Enclosures

0-25 ft.	free zone
>25-300 ft.	\$1.00 per ft.

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$4.00/hr.
>60 mi. base pay + \$6.00/hr.

*** Corrected April 28, 2018**

DIVER TENDERS

Wage	Benefit
\$36.58	\$16.14

The tender shall receive 2 hours at the straight time pay rate per shift for dressing and/or undressing a Diver when work is done under hyperbaric conditions.

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Zone Pay:

0-30 mi. free zone
>30-60 mi. base pay + \$4.00/hr.
>60 mi. base pay + \$6.00/hr.

ELECTRICIANS

Wage	Benefit
\$32.74	\$13.84

Travel:

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

0-18 mi. free zone
>18-60 mi. federal mileage rate/mi.
>60 mi. \$75.00/day

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HEATING AND AIR CONDITIONING

Wage	Benefit
\$28.04	\$17.38

Duties Include:

Testing and balancing, commissioning and retro-commissioning of all air-handling equipment and duct work.

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Travel:

0-50 mi. free zone
>50 mi.

- \$0.25/mi. in employer vehicle.
- \$0.65/mi. in employee vehicle.

Per Diem:

\$65/day

INSULATION WORKERS - MECHANICAL (HEAT AND FROST)

Wage	Benefit
\$34.17	\$19.47

Duties Include:

Insulate pipes, ductwork or other mechanical systems.

Travel:

- 0-30 mi. free zone
- >30-40 mi. \$20.00/day
- >40-50 mi. \$30.00/day
- >50-60 mi. \$40.00/day
- >60 mi. \$45.00/day plus
 - \$0.56/mi. if transportation is not provided.
 - \$0.20/mi. if in company vehicle.
- >60 mi. \$80.00/day on jobs requiring an overnight stay plus
 - \$0.56/mi. if transportation is not provided.
 - \$0.20/mi. if in company vehicle.

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IRONWORKERS - STRUCTURAL STEEL AND REBAR PLACERS

Wage	Benefit
\$27.25	\$24.54

Duties Include:

Structural steel erection; assemble prefabricated metal buildings; cut, bend, tie, and place rebar; energy producing windmill type towers; metal bleacher seating; handrail fabrication and ornamental steel.

Travel:

- 0-45 mi. free zone
- >45-85 mi. \$55.00/day
- >85 mi. \$85.00/day

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LINE CONSTRUCTION – EQUIPMENT OPERATORS

Wage	Benefit
\$34.02	\$14.41

Duties Include:

All work on substations

Travel:

- No Free Zone
- \$60.00/day

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LINE CONSTRUCTION – GROUNDMAN

Wage	Benefit
\$26.56	\$13.56

Duties Include:

All work on substations

Travel:

- No Free Zone
- \$60.00/day

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LINE CONSTRUCTION – LINEMAN

Wage	Benefit
\$44.41	\$15.54

Travel:
No Free Zone
\$60.00/day

Duties Include:
All work on substations

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MILLWRIGHTS

Wage	Benefit
\$32.00	\$13.07

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$4.00/hr.
>60 mi. base pay + \$6.00/hr.

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PAINTERS

Wage	Benefit
\$25.05	\$16.72

Travel:
No mileage due when traveling in employer's vehicle.

Duties Include:
All surface preparation for paint.

The following travel allowance is applicable when traveling in employee's vehicle:

No free zone.
\$0.60/mi.

Per Diem:
\$80.00/day

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PILE BUCKS

Wage	Benefit
\$29.00	\$13.07

Zone Pay:
0-30 mi. free zone
>30-60 mi. base pay + \$4.00/hr.
>60 mi. base pay + \$6.00/hr.

Duties Include:
Set up crane; set up hammer; weld tips on piles; set leads; insure piles are driven straight with the use of level or plum bob. Give direction to crane operator as to speed, and direction of swing. Cut piles to grade.

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PLUMBERS, PIPEFITTERS, AND STEAMFITTERS

Wage	Benefit
\$35.16	\$17.86

Duties Include:

Assemble, install, alter, and repair pipe-lines or pipe systems that carry water, steam, air, other liquids or gases. Testing of piping systems, commissioning and retro-commissioning. Workers in this occupation may also install heating and cooling equipment and mechanical control systems. **See, Section S. ***

Travel:

0-70 free zone
>70 mi.

- On jobs when employees do not work consecutive days: \$0.55/mi. if employer doesn't provide transportation. Not to exceed two trips.
- On jobs when employees work any number of consecutive days: \$100.00/day.

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SHEET METAL WORKERS

Wage	Benefit
\$28.04	\$17.38

Duties Include:

Testing and balancing, commissioning and retro-commissioning of all air-handling equipment and duct work. Manufacture, fabrication, assembling, installation, dismantling, and alteration of all HVAC systems, air veyer systems, and exhaust systems. All lagging over insulation and all duct lining. Metal roofing.

Travel:

0-50 mi. free zone
>50 mi.

- \$0.25/mi. in employer vehicle
- \$0.65/mi. in employee vehicle

Per Diem:

\$65.00/day

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SOLAR PHOTOVOLTAIC INSTALLERS

Wage	Benefit
\$32.74	\$13.84

Travel:

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

- 0-08 mi. free zone
- >08-50 mi. federal mileage rate/mi. in excess of the free zone.
- >50 mi. \$66.00/day

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*** Corrected April 28, 2018**

Preliminary Rates – Do Not Use for Bidding

TRUCK DRIVERS

	Wage	Benefit
Pilot Car Driver	\$24.85	\$9.42
Truck Driver	\$28.88	\$9.42

Zone Pay:
All Districts
0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$.485/hr.

Truck drivers include but are not limited to:
Combination Truck and Concrete Mixer and Transit Mixer; Dry Batch Trucks; Distributor Driver; Dumpman; Dump Trucks and similar equipment; Dumpster; Flat Trucks; Lumber Carriers; Lowboys; Pickup; Powder Truck Driver; Power Boom; Serviceman; Service Truck/Fuel Truck/Tireperson; Truck Mechanic; Trucks with Power Equipment; Warehouseman, Partsman, Cardex and Warehouse Expeditor; Water Trucks.

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Special Provisions

SECTION 01030
SPECIAL PROVISIONS

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SP-1. FORMAT

The specifications for this project include by reference the following two documents. Although they are not printed in this Project Manual, they are still made part of these Contract Documents and the CM/GC must comply with any and all such regulations, unless modified herein.

<i>Document</i>	<i>Available From</i>
Montana Public Works Standard Specifications (MPWSS) Sixth Edition, April 2010	Montana Contractors Association 1717 11 th Avenue PO Box 4519 Helena, MT 59604 406-442-4162
City of Billings Standard Modifications to MPWSS Sixth Edition, February 2018	City of Billings Public Works Department Engineering Division 2224 Montana Avenue Billings, MT 59101 406-657-8231 – or online at – https://ci.billings.mt.us/569/Standard-Mods

The following Special Provisions include requirements that are specific to this project. Additional project-specific special provision specifications will be provided as the design progresses. In case of a conflict, the hierarchal order of precedence is as listed in City of Billings Standard Modifications to MPWSS.

SP-2. PROJECT COORDINATION

The requirements of this Special Provision shall supplement Section 01041 of the MPWSS.

A. General

1. Coordinate all construction activities through all phases of project, with the intent being to complete the proposed construction in a neat and orderly fashion, in a timely manner, and with a minimum of disturbance to adjacent property and the travelling public.
2. Prior to or at the Preconstruction Conference, provide the Owner a practicable Progress Schedule showing the order, timing, and progress in which the CM/GC proposes to complete the work. This schedule must be in the format of a bar graph or CPM diagram. The schedule must be updated and resubmitted with each application for payment.
3. The CM/GC and any critical subcontractors performing work must attend or be represented at construction coordination meetings scheduled by the Owner throughout the duration of the project.

B. Private Utilities

Coordinate all construction activities with Conoco Phillips 66, WBI Energy, City of Billings for sanitary sewer, Northwestern Energy, Yellowstone Valley Electric Co-op, Grey Eagle Ditch Company, and any other impacted utility owners for moving, crossing, supporting, or reinstallation of services, poles, mainlines, and appurtenances.

The local contacts for the private utility companies that were contacted by DOWL during the planning phase are:

ConocoPhillips66	Dee Oakland	406.255.5742
WBI Energy Transmission	Bill Hanley	406.941.2958

SP-3. FIELD ENGINEERING

The requirements of this Special Provision shall supplement Section 01050 of MPWSS.

A. Construction Staking

The Project Engineer will provide the survey control points shown on the Survey Control Drawing in the plan set. Control points destroyed or removed by the CM/GC shall be replaced by the Project Engineer at the CM/GC's expense. The CM/GC shall establish all other horizontal and vertical control for locating the principal parts of the construction items.

The CM/GC shall develop and make all detailed surveys necessary for construction within the tolerances specified, such as laser control for pipe installation and grade establishment techniques acceptable to the OWNER. The CM/GC shall maintain survey notes in a neat and legible format, which shall be available to the Project Engineer upon request. All materials, equipment, and labor required for the CM/GC's detailed surveys shall be at the CM/GC's expense.

The CM/GC shall protect all of the Project Engineer control points from damage or removal. Control points destroyed or removed by the CM/GC shall be replaced by the Project Engineer at the CM/GC's expense.

B. Survey Markers and Monuments

The CM/GC shall protect and not disturb any survey markers or monuments, such as lot or block corners, property pins, section corners, or section breakdown corners. Any survey marker or monument that is disturbed or destroyed by the CM/GC shall be replaced by a licensed land surveyor at the CM/GC's expense.

SP-4. SUBMITTALS

The requirements of this Special Provision shall supplement the General Conditions and Section 01300 of MPWSS.

A. General

The CM/GC must provide all submittals required by the Contract Documents, including but not necessarily limited to:

1. All submittals listed in the General Conditions and Section 01300.
2. Permits obtained by CM/GC for the project.
3. List of all subcontractors and suppliers to be used on the project.
4. List of all equipment owned or rented that will be used on the project, including the make, model, year, horsepower, and capacity.
5. Quality Control Plan, as required by SP-5.
6. Traffic control plan, as required by the City of Billings Standard Modifications and these Special Provisions.

7. Shop drawings and manufacturer's literature for all materials or equipment to be used on the project.
8. Samples, operation and maintenance manuals, warranties, and other items required by individual specification sections.

Shop drawings shall be submitted to the Project Engineer and Owner for all materials incorporated into the work, and as required by the Contract Documents. The Project Engineer and Owner reserves the right to require submittals in addition to those called for in individual specification sections.

B. Process and Format

1. Unless otherwise required in an individual specification section, the CM/GC must make all submittals electronically using Newforma Info Exchange™. Newforma Info Exchange™ is a web-enabled server that enables project team members (both internal and external to the host) to easily and securely exchange project files using a website. It provides email notifications, reminders, a history log, and all other necessary submittal handling features. The Project Engineer will host the site and provide the CM/GC and Owner with all necessary access and processing information at the pre-construction conference, or such earlier time as required to transmit initial submittals.
2. Submittals that are related to or affect each other must be submitted together to facilitate a coordinated review by the Project Engineer and Owner.
3. The periodic submittals for item A.6 (traffic control plan) must be made using the Owner's forms included or referenced in the City of Billings Standard Modifications.

SP-5. CM/GC QUALITY CONTROL AND OWNER QUALITY ASSURANCE

The requirements of this Special Provision shall supplement Section 01400 of MPWSS, as modified by the City of Billings Standard Modifications.

A. Definitions

1. Quality Control: Planned and specific actions or operations necessary to produce a product that complies with the Contract Documents. Quality Control consists of actions, inspections, sampling, and testing necessary to ensure the Work is in compliance with the Contract Documents and to control production and construction processes. Quality Control is keyed to the construction sequence to quickly determine when the Work is out of compliance with the Contract Documents and to respond to correct the situation and bring the Work into compliance. Quality Control is the responsibility of the CM/GC.
2. Quality Assurance: Planned and systematic observations, testing, and actions to verify that the Work complies with the Contract Documents. Quality Assurance includes oversight of the CM/GC's Quality Control, verifying the results of the CM/GC's testing and additional assurance sampling and testing. Quality Assurance may not be adequate for the CM/GC's production and placement needs. The Owner or Project Engineer will provide Quality Assurance.

B. Submittals

1. Quality Control Plan: At the preconstruction conference, the CM/GC must submit a Quality Control Plan defining the program and the documentation proposed to ensure that all materials and work conform to the Contract Documents. The plan must identify personnel, procedures, control, tests, frequency of tests, and records and forms to be used.

2. Test Records: The CM/GC must submit records of all tests to the Owner within 24 hours of the testing. The Quality Control laboratory must notify the CM/GC and the Owner promptly of any irregularities or deficiencies observed in the Work during performance of the Quality Control testing.

SP-6. CONSTRUCTION AND TEMPORARY FACILITIES

The requirements of this Special Provision shall supplement Section 01500 of MPWSS, as modified by the City of Billings Standard Modifications.

1. The CM/GC must confine construction activities within the limits of the public right-of-way and established utility easements. For anticipated construction activities outside these limits, the CM/GC will be responsible for coordination and access to the adjacent properties.
2. The responsibility for security, protection, and safekeeping of equipment and materials at or near the project site will be entirely that of the CM/GC, and no claim can be made against the Owner by reason of any act of another.
3. All roads and adjacent access approaches must be kept free and clear of mud, gravel, debris, etc., during the project. There will be no additional payment to the CM/GC for the cleaning and sweeping of any roads. If the CM/GC fails to keep access roadways clean and City crews are required to provide this service, the cost of this work will be deducted from the CM/GC's application for payment.
4. Temporary service must be provided by the CM/GC during any period when utility lines are disturbed unless the CM/GC makes other arrangements with the utility users and owners that are satisfactory to said users and owners. Service of existing utility lines, if interrupted, must be restored as quickly as possible.
5. The CM/GC must bypass existing flows coming down the City County Drain as required to properly construct the new improvements. The City County Drain has a base flow ranging from 10 cfs to 15 cfs and can experience runoff flows as high as 325 cfs to 780 cfs. Damages occurring due to flooding or excessive storm runoff shall be repaired by the CM/GC at the CM/GC's expense.
6. Any construction water required for the compaction of backfill, subgrade, and surfacing courses; paving; cleanup; or any other construction related work will be supplied by the CM/GC.

SP-7. TEMPORARY CONSTRUCTION TRAFFIC CONTROL

The requirements of this Special Provision shall supplement Section 01570 of MPWSS, as modified by the City of Billings Standard Modifications.

A. General Requirements

1. The CM/GC shall obtain approval from the Montana Department of Transportation for a Traffic Control Permit. The CM/GC shall comply with all conditions of the Permit throughout the duration of the project.
2. This Special Provision outlines the basic temporary construction traffic control strategy. The basic strategy described herein is not intended to cover every situation that may arise in the field as a result of the CM/GC's operations or otherwise. It is the duty of the CM/GC to coordinate and cooperate with the Owner if adjustments are required or desired.

3. The CM/GC must prepare and submit one copy of the detailed traffic control and public notification plans to the Owner for review and approval based on the specific sequence of the proposed work at least two weeks prior to the beginning of construction and/or disruption of traffic. The Construction Traffic Control Form can be found in Appendix A (Miscellaneous Forms-11) of the City of Billings Standard Modifications.

If a change is desired to a previously approved plan for a specific zone or area, the CM/GC must provide the Owner with a revised traffic control plan a minimum of seven days in advance of the beginning of construction for that zone. The revised plan must be approved by the Owner prior to construction or interruption of traffic for that zone.

4. Maintain a log of advance notification which has been made for each zone of construction. The notification log must cover formal press releases and impacted parties as notified by the CM/GC. Copy the Owner with each advance notification within one day of notification. A list of services and media outlets to be notified per Section 01570-1.3C can be found in Appendix A (Miscellaneous Forms-14) of the City of Billings Standard Modifications.

For closures and traffic restrictions on the Frontage Road, publish a block ad in the Billings Gazette not less than three days prior to disruption of the normal flow of traffic. Ensure that the published days include a Sunday.

SP-8. CONTRACT CLOSEOUT

The requirements of this Special Provision shall supplement Section 01700 of MPWSS.

A. Post-Construction Maintenance Personnel

The CM/GC shall submit his plans for maintenance of the new system during the one-year correction period and shall name the individual who will have the power and responsibility to act for the CM/GC in this regard.

B. Record Drawings

The CM/GC shall maintain at the project site a set of Record Drawings showing field changes, as-built elevations, unusual conditions encountered during construction, manufacturer's catalog number of equipment supplied, and other data as required to provide the Owner with an accurate as-built set of Construction Drawings. The CM/GC shall, using red colored ink, make changes on a set of clean prints. Indicate all changes and revisions to the original design which affect the permanent structures and will exist in the completed Work. Reference all underground existing utilities to semi-permanent or permanent physical objects. Reference the elevation of all existing lines on profile sheets or call out elevations in plan if no profile exists. Keep record drawings current.

On the final Record Drawings submittal, any plan changes/notes shall be marked on the plan sub-set for which the work corresponds. For example, changes to the flow-control structure shall be marked on the structural detail sheets rather than on the plan-and-profile sheets.

SP-9. PROTECTION, PRESERVATION, AND REPAIR

The requirements of this Special Provision shall supplement Section 00900 of the City of Billings Standard Modifications.

A. Existing Utilities

1. Existing underground installations, such as oil, gas, and sanitary sewer mains, including all services and appurtenances; irrigation pipes, manholes; telephone lines; power lines; fiber optic cables; etc. in the vicinity of the work are indicated on the Drawings only to the extent that such information has been made available to or discovered by DOWL in preparing the Drawings. There is no guarantee as to the accuracy or completeness of such information, and all responsibility for the accuracy and completeness thereof is expressly disclaimed. Potential utility conflicts have been identified on the Drawings for informational purposes only.

The CM/GC shall be solely responsible for locating all existing public and private underground installations, including service connections, in advance of excavating or trenching or trenchless installations, by contacting the owners thereof and prospecting. The CM/GC shall use their own information and shall not rely solely upon information shown on the Drawings concerning existing underground installations.

2. The CM/GC shall coordinate with the utility companies for the protection or adjustment of existing utilities in the vicinity of the work and shall have utility company representatives present when necessary to brace utility poles, support or relocate buried utility lines, raise overhead lines, or other handling of facilities while working adjacent to such utilities. The CM/GC shall pay all costs associated with having utility company representatives on the site for this work and shall include these costs in the prices for related items of work.

The CM/GC shall have full agreement and understanding with the affected utility companies regarding existing conditions and any changes that will be necessary for the CM/GC's construction operations. The CM/GC shall obtain any permits, agreements, and insurance required at no additional cost to the Owner.

3. Unless flowable fill is used, the CM/GC shall utilize Type 1 bedding material and Type A trench backfill to replace material under and around exposed municipal and private utilities, including the associated compaction requirements, at no additional cost to the Owner.
4. The CM/GC shall repair all damage to existing utilities or property at the CM/GC's expense.

B. Asphalt Pavement

Refer to the City of Billings Standard Modifications, Section 00900, Article 8.B.

SP-10. GROUNDWATER CONSIDERATIONS AND DEWATERING

The CM/GC is advised that groundwater may be present at the project site. The project includes test pits that did indicate groundwater elevations near the elevation of the drain line and flow control structure. These water surface elevations may not be indicative of other times or at other locations. The CM/GC is advised that groundwater elevations can be expected to fluctuate with varying seasonal, irrigation, and weather conditions.

The CM/GC shall be responsible to determine construction methods pertaining to groundwater control and dewatering.

The CM/GC is responsible for providing dewatering equipment. The dewatering system shall remove all groundwater encountered in trench excavations to satisfactorily prevent the rising of water into any new or existing piping that may be exposed during the work. Pipe, bedding, or backfill materials shall not be placed below the groundwater elevation established by dewatering operations. The CM/GC shall promptly remove all temporary electrical and dewatering systems upon completion of the work.

Caution should be used during construction dewatering to ensure adjacent residential or commercial structures are not damaged. The control of groundwater shall be accomplished in a manner that will preserve the strength of the adjacent structure foundations and soils, will not cause instability of the excavation slopes, and will not result in damage to existing structures. Depending on the method and magnitude of groundwater drawdown and site-specific geologic controls, dewatering saturated fine-grained soils may initiate consolidation of load bearing soils and contribute to the potential for differential settlement of foundations. Other areas requiring dewatering may be encountered throughout the project depending on irrigation, operation of canals and ditches, local precipitation, seasonality, and other factors. Any damage caused to adjacent structures or wells shall be repaired at the CM/GC's expense.

Any required dewatering shall be considered incidental and shall be included in the unit price for pipe installation or construction of structures.

END OF SECTION 01030